

Video Surveillance Product Catalog 2021



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IR Bullet Camera

	Model	Picture	Image Sensor	Resolution	IR	Lens	Compression	WDR	Ingress Protection	Intelligent	Starlight	Specialty	Interface
<	IPC2253-FNB-PIR40		1/2.8"	2.0MP	40m smart IR	3.6/6mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent I	0.002lux	Mini size Anti-fog glass	PoE, Micro SD Card Slot
<	IPC2252-FN-DIR		1/2.8"	2.0MP	60m smart IR	3.6/6/8/12/16mm Fixed Lens	H.265/H.264	Ultra WDR	IP66	Basic Intelligent I	0.002lux	Anti-fog glass	-
<	IPC2252-FN/FNB-PIR		1/2.8"	2.0MP	60m smart IR	3.6/6/8/12/16mm Fixed Lens	H.265/H.264	Ultra WDR	IP66/67	Basic Intelligent I	0.002lux	Anti-fog glass	PoE, Micro SD Card Slot
<	IPC2252-FN/FNB-SIR		1/2.8"	2.0MP	60m smart IR	3.6/6/8/12/16mm Fixed Lens	H.265/H.264	Ultra WDR	IP66/67	Basic Intelligent II	0.002lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2252-FN/FNB-PIR50-Z2812		1/2.8"	2.0MP	50~70m smart IR	2.8 ~ 12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent I	0.002lux	Heating glass	PoE, Micro SD Card Slot
<	IPC2252-FN/FNB-SIR50-Z2812		1/2.8"	2.0MP	50~70m smart IR	2.8 ~ 12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.002lux	Heating glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2251-FN/FNB-SIR50-Z2812		1/2.8"	2.0MP	50~80m smart IR	2.8 ~ 12mm AF Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O/G sensor Heating glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2251-FN/FNB-SIR80-Z6048		1/2.8"	2.0MP	80~120m smart IR	6 ~ 48mm AF Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O/G sensor Heating glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2552-FN/FNB-SIR50-L		1/2.8"	5.0MP	50~70m smart IR	3.6/6mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485
<	IPC2552-FN/FNB-SIR50-Z2812		1/2.8"	5.0MP	50 ~ 70m smart IR	2.8-12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2852-FN/FNB-SIR50-L		1/2.8"	8.0MP	50~70m smart IR	3.6/6mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485
<	IPC2852-FN/FNB-SIR50-Z2812		1/2.8"	8.0MP	50 ~ 70m smart IR	2.8-12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC2852-FN/FNB-SIR50-Z6022		1/2.8"	8.0MP	50 ~ 70m smart IR	6.0-22mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out

Box Camera

Model	Picture	Image Sensor	Resolution	Compression	WDR	Intelligent	Starlight	Specialty	Interface
IPC123-Fi9N		1/2"	2.0MP	H.265/H.264	Ultra WDR	Basic Intelligent II	Starlight 2.0	60fps O/G sensor Built-in Mic	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out

Semi Dome Camera

Model	Picture	Image Sensor	Resolution	IR	Lens	Compression	WDR	Ingress Protection	Intelligent	Starlight	Specialty	Interface
< IPC2211-FN-DIR		1/2.8"	2.0MP	40m smart IR	2.8/3.6/6/8mm Fixed Lens	H.265/H.264	Ultra WDR	IP66	Basic Intelligent I	0.002lux	Built-in Mic Anti-fog glass IK10 (optional)	-
< IPC2211-FN-PIR		1/2.8"	2.0MP	40m smart IR	2.8/3.6/6/8mm Fixed Lens	H.265/H.264	Ultra WDR	IP66	Basic Intelligent I	0.002lux	Built-in Mic Anti-fog glass IK10 (optional)	PoE, Micro SD Card Slot
< IPC2211-FN-SIR		1/2.8"	2.0MP	40m smart IR	2.8/3.6/6/8mm Fixed Lens	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.002lux	Built-in Mic Anti-fog glass IK10 (optional)	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2241-FN/FNW-PIR		1/2.8"	2.0MP	15m smart IR	2.8/3.6/6/8mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent I	0.001lux	Mini size IK10, Built-in Mic Wi-Fi EN50155	PoE, Micro SD Card Slot
< IPC2241-FN/FNW-SIR		1/2.8"	2.0MP	15m smart IR	2.8/3.6/6/8mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	Mini size IK10, Built-in Mic Wi-Fi EN50155	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2233-FN-S		1/2.8"	2.0MP	-	2.1mm Fixed Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.002lux	IK10	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2233-FN-PIR40		1/2.8"	2.0MP	40m Smart IR	2.7 ~ 12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent I	0.002lux	IK10	PoE, Micro SD Card Slot
< IPC2233-FN-SIR40		1/2.8"	2.0MP	40m Smart IR	2.7 ~ 12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.002lux	IK10	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2231-FN-S		1/2.8"	2.0MP	-	2.0/2.2mm Fixed 2.8 ~ 12mm AF Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.002lux	IK10, 2 x Audio in Power output	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2231-FN-SIR40		1/2.8"	2.0MP	40m Smart IR	2.8 ~ 12mm AF Lens	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.002lux	IK10, 2 x Audio in Power output	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2533-FN-SIR-L		1/2.8"	5.0MP	50~70m smart IR	2.8/3.6/6mm Fixed Lens	H.265/H.264	Ultra WDR	IP67,IK10	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot, Audio, Alarm RS485
< IPC2533-FN-SIR50-Z2812		1/2.8"	5.0MP	50 ~ 70m smart IR	2.8-12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67,IK10	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out
< IPC2833-FN-SIR-L		1/2.8"	8.0MP	50~70m smart IR	2.8/3.6/6mm Fixed Lens	H.265/H.264	Ultra WDR	IP67,IK10	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot, Audio, Alarm RS485
< IPC2833-FN-SIR50-Z2812		1/2.8"	8.0MP	50 ~ 70m smart IR	2.8-12mm Motorized Varifocal Lens	H.265/H.264	Ultra WDR	IP67,IK10	Basic Intelligent II	0.005lux	Anti-fog glass	PoE, Micro SD Card Slot, Audio, Alarm RS485, Video Out

Speed Dome Camera

Model	Picture	Image Sensor	Resolution	Lens	IR	Compression	WDR	Ingress Protection	Intelligent	Starlight	Specialty	Interface
< IPC421-E230-N0		1/2.8"	2.0MP	30x	-	H.265/H.264	Ultra WDR	-	Basic Intelligent II	0.003lux	O-sensor	PoE (optional), SD Card Slot, Audio Alarm, RS485, Video Out
< IPC421-F120-N0		1/2.8"	2.0MP	20x	-	H.265/H.264	Ultra WDR	-	Basic Intelligent I	0.003lux	O-sensor	PoE (optional), SD Card Slot, Audio Alarm, RS485, Video Out
< IPC421-F120-N1		1/2.8"	2.0MP	20x	-	H.265/H.264	Ultra WDR	IP67	Basic Intelligent I	0.003lux	O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC421-F233-N1		1/2.8"	2.0MP	33x	-	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.003lux	O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC427-F120-N		1/2.8"	2.0MP	20x	180m	H.265/H.264	Digital WDR	IP66	Basic Intelligent I	0.006lux	O-sensor	SD Card Slot, Audio Alarm
< IPC427-F120-NP		1/2.8"	2.0MP	20x	180m	H.265/H.264	Digital WDR	IP66	Basic Intelligent I	0.006lux	O-sensor	PoE, SD Card Slot Audio, Alarm
< IPC427-F130-NP		1/2.8"	2.0MP	30x	180m	H.265/H.264	Digital WDR	IP66	Basic Intelligent I	0.006lux	O-sensor	PoE, SD Card Slot Audio, Alarm
< IPC425-G223-N		1/1.9"	2.0MP	23x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.002lux	60fps GPS	Built-in eMMC, Audio Alarm, RS485
< IPC425-G245-N		1/1.9"	2.0MP	45x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.002lux	60fps GPS	Built-in eMMC, Audio Alarm, RS485
< IPC425-F120-N		1/2.8"	2.0MP	20x	180m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent I	0.003lux	O-sensor	SD Card Slot, Audio Alarm
< IPC425-F223-N		1/1.9"	2.0MP	23x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC425-F233-N		1/2.8"	2.0MP	33x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	60fps Wiper O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC425-F233-NL		1/2.8"	2.0MP	33x	500m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	60fps Laser Wiper O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC445-H120-N		1/3"	4.0MP	20x	180m	H.265/H.264	Digital WDR	IP66	Basic Intelligent I	-	O-sensor	SD Card Slot, Audio Alarm
< IPC445-F233-N		1/1.8"	4.0MP	33x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.0005lux	O-sensor	Built-in eMMC, Audio Alarm, RS485
< IPC485-H233-N		1/1.7"	8.0MP	33x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	-	O-sensor	SD Card Slot, Audio Alarm, RS485, Video Out
< IPC489-F240-N		1/1.8"	8.0MP	40x	220m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.0005lux	Wiper O-sensor	SD Card Slot, Audio Alarm, RS485, FC
< IPC489-F250-NL		1/1.8"	8.0MP	50x	500m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.0005lux	Laser Wiper O-sensor	SD Card Slot, Audio Alarm, RS485, FC

<	IPC422-F105-N		1/1.8"	2.0MP	5x	30m	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O-sensor IK10	SD Card Slot, Audio Alarm, RS485, Video Out
<	IPC422-F105-NP		1/1.8"	2.0MP	5x	30m	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O-sensor IK10	PoE, SD Card Slot Alarm, RS485, Video Out
<	IPC422-F112-N		1/1.8"	2.0MP	12x	50m	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O-sensor IK10	SD Card Slot, Audio Alarm, RS485, Video Out
<	IPC422-F112-NP		1/1.8"	2.0MP	12x	50m	H.265/H.264	Ultra WDR	IP67	Basic Intelligent II	0.001lux	O-sensor IK10	PoE, SD Card Slot Audio, Alarm, RS485 Video Out
<	IPC980-T850-NL		1/1.8" x 12 & 1/1.8" x 1	2 x 4096x1800 & 8MP	50x	1500m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.005lux	GPS 360° Panoramic Laser PTZ	SD Card Slot, Audio Alarm, RS485, Video Out
<	IPC980-U850-NL		1/1.8" x 6 & 1/1.8" x 1	1 x 4096x1800 & 8MP	50x	1000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.005lux	GPS 180° Panoramic Laser PTZ	SD Card Slot, Audio Alarm, RS485, Video Out

Explosion Proof Camera

Model	Picture	Image sensor	Resolution	Lens	Compression	WDR	Ingress protection	Intelligent	Starlight	Specialty	Interface
< IPC820-FB		1/2.8"	2.0MP	20x	H.265/H.264	Ultra WDR	IP68	Basic Intelligent I	0.003lux	Exd II CT6 / DIP A20 TA,T6	SD Card (optional)
< IPC421-FB		1/2.8"	2.0MP	20x	H.265/H.264	Ultra WDR	IP68	Basic Intelligent I	0.003lux	Exd II CT6 / DIP A20 TA,T6	SD Card (optional)
< IPC520-F233-FBIR		1/2.8"	2.0MP	33x	H.265/H.264	Ultra WDR	IP68	Basic Intelligent II	0.003lux	Exd II CT6 / DIP A20 TA,T6	SD Card (optional)

PTZ Camera

Model	Picture	Image sensor	Resolution	Lens	IR	Compression	WDR	Ingress protection	Intelligent	Starlight	Specialty	Interface
< IPC523-F255-NL		1/2.8"	2.0MP	55x	1500m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	Laser Wiper O-sensor	Micro SD Card (optional) Audio, Alarm, Video Out
< IPC523-F255-NR025		1/2.8" Thermal	2.0MP 400×300	55x 25mm Fixed Lens	-	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	Wiper O-sensor Thermal	Micro SD Card (optional) Audio, Alarm, Video Out
< IPC523-F255-NR050		1/2.8" Thermal	2.0MP 400×300	55x 50mm Fixed Lens	-	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	Wiper O-sensor Thermal	Micro SD Card (optional) Audio, Alarm, Video Out
< IPC523-F255-NR150		1/2.8" Thermal	2.0MP 800×600	55x 50mm Fixed Lens	-	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.003lux	Wiper O-sensor Thermal	Micro SD Card (optional) Audio, Alarm, Video Out
< IPC525-F132-NL2		1/1.9"	2.0MP	32x	2000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm
< IPC525-F160-NL3		1/1.9"	2.0MP	60x 2x Barlow lens	3000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm
< IPC525-F260-NL5		1/1.9"	2.0MP	60x 2x Barlow lens	5000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm
< IPC525-F132-NL3-R75		1/1.9" Thermal	2.0MP 800×600	32x 75mm Fixed Lens	3000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Thermal Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm
< IPC525-F160-NL5-R100		1/1.9" Thermal	2.0MP 800×600	62x 100mm Fixed Lens	5000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Thermal Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm
< IPC528-F360-NL5-R150Z		1/1.8" Thermal	2.0MP 800×600	60x & 10x	5000m	H.265/H.264	Ultra WDR	IP66	Basic Intelligent II	0.001lux	Laser Thermal Optical Defog AR & AF glass O-sensor	Micro SD Card Slot Audio, Alarm

Intelligent Products

Model	Picture	Description	Image Sensor	Resolution	Compression	WDR	Intelligent	Starlight	Specialty	Interface
< IPC123-FI4N		Recognitive Box Camera	1/2"	2.0MP	H.265/H.264	Ultra WDR	Face Recognition	Starlight 2.0	Basic Intelligent II	PoE, Micro SD Card Slot Audio, Alarm, RS485 Video Out
< IPC2241-GI4NW-SIR15		Human Recognitive Camera	1/2.8"	2.0MP	H.265/H.264	Ultra WDR	Face and body Recognition	0.002lux	IP67 IK10 EN50155 Wi-Fi supported	Micro SD Card Slot Audio, Alarm, RS485
< IPC2241-GI4NG-SIR15		Human Recognitive Camera	1/2.8"	2.0MP	H.265/H.264	Ultra WDR	Face and body Recognition	0.002lux	IP67 IK10 EN50155 Wi-Fi supported 3G / 4G supported	Micro SD Card Slot Audio, Alarm, RS485
< IPC2241-FI4N-C1/C2		Human Recognitive Camera	1/2.8"	2.0MP	H.265/H.264	Ultra WDR	Face Recognition	0.001lux	Support face anti-spoofing, Face intelligence exposure	-C1:SD Card Slot, Built-in Mic & Speaker, RS485 Door contact, Lock NO / NC -C2: Speaker
< IPC2655-GI4N		Human Recognitive Camera	1/1.8"	6.0MP	H.265/H.264	Digital WDR	Face and body Recognition	-	IP66 GPS	Micro SD Card Slot Audio Alarm, RS485
< IPC2855-GI4N		Human Recognitive Camera	1/1.8"	8.0MP	H.265/H.264	Ultra WDR	Face and body Recognition	0.0005lux	IP66 GPS Basic Intelligent II	Micro SD Card Slot Audio, Alarm, RS485
< IPC2655-GI7N		Recognitive Bullet Camera	1/1.8"	6.0MP	H.265/H.264	Digital WDR	Body and vehicle Recognition	-	IP66 GPS	Micro SD Card Slot Audio, Alarm, RS485
< IPC2451-FI4N&FI4NB-SIR50		Recognitive Bullet Camera	1/1.8"	4.0MP	H.265/H.264	Digital WDR	Face and body Recognition	0.0005lux	IP67 Basic Intelligent II	Micro SD Card Slot Audio, Alarm, RS485
< IPC2852-FI4N&FI4NB-SIR50-Z6022		Recognitive Bullet Camera	1/2.8"	8.0MP	H.265/H.264	Ultra WDR	Face and body Recognition	0.0005lux	IP67 Basic Intelligent II	Micro SD Card Slot Audio, Alarm, RS485
< IPC2833-FI4N-SIR50-Z6022		Recognitive Bullet Camera	1/2.8"	8.0MP	H.265/H.264	Ultra WDR	Face and body Recognition	0.0005lux	IP67 Basic Intelligent II	Micro SD Card Slot Audio, Alarm, RS485
< IPC442-i405-NP		Recognitive Bullet Camera	1/1.8"	4.0MP	H.265/H.264	Digital WDR	Face and body Recognition	0.0001lux	IP66 Basic Intelligent II	Micro SD Card Slot Audio, Alarm, RS485 Video Out
< IPC2855-FI5N		Recognitive Tracking System 2.0	1/1.8"	8.0MP	H.265/H.264	Ultra WDR	Auto Tracking	0.0002lux	IP66 Basic Intelligent II	SD Card Slot, Audio Alarm, RS485, RS232
< IPC445-i033-N			1/1.8"	4.0MP	H.265/H.264	Ultra WDR	Recognition Auto Tracking	0.001lux	IP66 Basic Intelligent II	SD Card Slot, Audio Alarm, RS485, Video Out

Face Recognition Terminal

Model	Picture	Description	Image Sensor	Resolution	Compression	WDR	Intelligent	Starlight	Specialty	Interface
< KSCA121-ANW-FC		Face Recognition Terminal	1/2.8"	2.0MP	H.264	Digital WDR	Face Recognition	0.001lux	IP66 Support face anti-spoofing Face intelligence exposure	SD Card Slot, Built-in Mic & Speaker, 8" touchscreen, RS485 Card Reader, Door contact, Lock NO / NC Tamper, Wigand
< KSCA121-ANW-FMC		Face Recognition Terminal	1/2.8"	2.0MP	H.264	Digital WDR	Face Recognition	0.001lux	Support face anti-spoofing Face intelligence exposure	SD Card Slot, Built-in Mic & Speaker, 8" touchscreen, RS485 Card Reader, Fingerprint, Door contact Lock NO / NC, Tamper Wigand
< KSCA120-ANW-TFC		Face Recognition & Temperature Screening Terminal	1/2.8"x 2 & Thermal	2.0MP & 265 x 192	H.265/H.264	Ultra WDR	Face Recognition / RFID	0.001lux	Qualcomm Face Anti-Spoofing Temperature Screening	SD Card Slot, Built-in Mic & Speaker, 5" touchscreen, RS485 Card Reader, Door contact, Lock NO / NC, Tamper

Falcon System

Model	Picture	Features
< Falcon Human Recognition System		- up to 500,000 cameras in one system - up to 10,000,000 Face / Human Detection Comparison Library - Real-time multiple face matching, matching speed low to 2s - Up to 98% face recognition accuracy - Deep learning algorithm, Human attributes analysis - Different types of camera: Kedacom human recognitive camera - Kedacom standard IP camera, Third-party IP camera - Recognizing and capturing the human side and back picture - Searching picture by picture or attributes
< Falcon Human Recognition All in one System		- up to 32 cameras in one system 300,000 Face / Human Detection Comparison Library - Real-time multiple face matching, matching speed low to 2s - Up to 98% face recognition accuracy - Deep learning algorithm, Human attributes analysis - Different types of camera: Kedacom human recognitive camera - Kedacom standard IP camera, Third-party IP camera - Recognizing and capturing the human side and back picture - Searching picture by picture or attributes

Network Video Recorder

Model	Picture	IP Camera Input	Storage	RAID	Com-pression	Video Out	Audio	Alarm	Control	Ethernet	USB	Decoding Capability	Specialty
< NVR1829-01B		4/9/16 channel	1 × SATA	-	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	-	-	1 × 10/100M or 1 × Gigabit	2 × USB 2.0	Up to 1 × 4K@30fps / 4 × 1080p@30fps	PoE, Long Term Recording
< NVR1828-01B		9/16 channel	1 × SATA	-	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	4 × Inputs 2 × Outputs	1 × RS485	1 × Gigabit	2 × USB 2.0	Up to 1 × 4K@30fps / 4 × 1080p@30fps	PoE, Long Term Recording
< NVR1828-02B		4/9/16/32 channel	2 × SATA	-	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	4 × Inputs 2 × Outputs	1 × RS485	1 × Gigabit	2 × USB 2.0	Up to 1 × 4K@30fps / 4 × 1080p@30fps	PoE, Long Term Recording
< NVR1827-04B		9/16/32 channel	4 × SATA	-	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	4 × Inputs 2 × Outputs	1 × RS485	1 × Gigabit	2 × USB 2.0	Up to 1 × 4K@30fps / 4 × 1080p@30fps	PoE, Long Term Recording
< NVR1821-04A		9/16/32 channel	4 × SATA 1 × eSATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	2 × Inputs 2 × Outputs	2 × RS485	2 × Gigabit	2 × USB 2.0 1 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	N+1 Backup Mobile Front-end Access
< NVR1821-08A		9/16/32/64 channel	8 × SATA 1 × eSATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	2 × Inputs 2 × Outputs	2 × RS485	2 × Gigabit	2 × USB 2.0 1 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	N+1 Backup Mobile Front-end Access
< NVR2821-04B/LI		9/16/32 channel	4 × SATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	-	1 × RS485 1 × RS232	3 × Gigabit	2 × USB 2.0 2 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	Mobile Front-end Access Human Recognition Camera Access People Counting Sensor Access Face & LPR Matching N+1 Backup
< NVR2821-04B/HI		9/16/32 channel	4 × SATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	-	1 × RS485 1 × RS232	3 × Gigabit	2 × USB 2.0 2 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	Mobile Front-end Access Human Recognition Camera Access People Counting Sensor Access Face & LPR Matching N+1 Backup
< NVR2881-16B/HI		16/32/64 channel	16 × SATA	RAID 0/1/5/6/10	H.265/ H.264	2 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	2 × Inputs 2 × Outputs	1 × RS485 1 × RS232	3 × Gigabit	2 × USB 2.0 2 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	Mobile Front-end Access Human Recognition Camera Access People Counting Sensor Access Face & LPR Matching N+1 Backup
< NVR2860E-08A		16/32/48/64 channel	8 × SATA 1 × eSATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	2 × Inputs 2 × Outputs	2 × RS485	2 × Gigabit	2 × USB 2.0 1 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	HDD Hot Swap N+1 Backup Mobile Front-end Access
< NVR2882-16A		16/32/64 channel	16 × SATA 1 × eSATA	RAID 0/1/5/6/10	H.265/ H.264	1 × HDMI (4K) 1 × VGA	1 × Audio in 1 × Audio out	2 × Inputs 2 × Outputs	2 × RS485	2 × Gigabit	2 × USB 2.0 1 × USB 3.0	Up to 4 × 4K@30fps / 16 × 1080p@30fps	HDD Hot Swap N+1 Backup Mobile Front-end Access
< PC4		People Counting Support shopping cart and baggage filtering Region people counting, two-way Flow detection Up to 92% detection accuracy											

Video Management System

Model	Picture	Features
< KDM2801H-G2		VMS - Video Management System Up to 1000 channel per unit Max. 640Mbps incoming bandwidth Max. 640Mbps output bandwidth Up to 300 users access simultaneously 8-level cascade 32 devices stack per level N+1 Hot Backup
< KDM2802A-G2		VMS - Video Management System Up to 5000 channel per unit Max. 640Mbps incoming bandwidth Max. 640Mbps output bandwidth Up to 300 users access simultaneously 8-level cascade 32 devices stack per level N+1 Hot Backup
< KDM2901-S-G2		VMS All-in-one Management Software Up to 300 channel per unit 8-level cascade 32 devices stack per level N+1 Hot Backup
< KDM2901-K-G2		VMS All-in-one Management Software Up to 1000 channel per unit 8-level cascade 32 devices stack per level N+1 Hot Backup
< KDM2901-M-G2		VMS All-in-one Management Software Up to 10000 channel per unit 8-level cascade 32 devices stack per level N+1 Hot Backup

IPSAN

Model	Picture	Features
< VS200G		Max. 500Mbps recording rate Max. 16 HDDs up to 96TB storage RAID 0/1/5/6/10, RAID X HDD hot-swap Redundant Power Supply
< VS200H		Max. 1000Mbps recording rate Max. 16 HDDs up to 192TB storage RAID 0/1/5/6/10, RAID X HDD hot-swap Redundant Power Supply

Encoder & Decoder

Model	Picture	Features
< KDM201		Modular architecture, 8 slots Max. 16 x 4K@30fps / 72 x 1080p@30fps/ 144 x 720p@30fps decoder per unit H.264 / H.265
< IPA102		H.264 high profile video codec Dual-stream Micro SD Card Slot

Mobile Solutions

Model	Picture	Image Sensor	Resolution	Lens	IR	Compression	WDR	Ingress protection	Intelligent	Starlight	Storage	Specialty
IPC521-H120-N		1/2.8"	2.0MP	20x	200m	H.265/H.264	Digital WDR	IP66	Motion Detection	0.003lux	Built-in SD card (optional)	Wiper
IPC521-F233-N		1/2.8"	2.0MP	33x	200m	H.265/H.264	Ultra WDR	IP66	Motion Detection	0.003lux	Built-in SD card (optional)	Wiper
IPC523-F833-N		1/1.7"	8.0MP	23x	200m	H.265/H.264	Ultra WDR	IP66	Motion Detection	0.006lux	Built-in SD card (optional)	Wiper
IPC522-F230		1/2.8"	2.0MP	30x	80m	H.265/H.264	Digital WDR	IP66	Motion Detection	0.003lux	Built-in SD card (standard 128G)	Built-in super magnet Wi-Fi supported 3G / 4G supported Built-in battery
IPC522-G230-G		1/2.8"	2.0MP	30x	80m	H.265/H.264	Digital WDR	IP66	Motion Detection Face Recognition	0.003lux	Built-in SD card (standard 128G)	Built-in super magnet Wi-Fi supported 3G / 4G supported Built-in battery
IPC522-G230-5G		1/2.8"	2.0MP	30x	80m	H.265/H.264	Digital WDR	IP66	Motion Detection Face Recognition	0.003lux	Built-in SD card (standard 128G)	Built-in super magnet Wi-Fi supported 4G / 5G supported Built-in battery
IPC981-T230-NIR		1/1.8"	6 x 4.0MP & 1 x 2.0MP	40x	80m	H.265/H.264	Ultra WDR	IP67	Motion Detection Face Recognition Plate recognition (optional)	0.0003lux	Built-in SD card (optional)	Wi-Fi supported 4G / 5G supported
IPC2241-GICNW&GICWG-SIR		1/2.8"	2.0MP	3.6mm Fixed Lens	15m Smart IR	H.265/H.264	Ultra WDR	IP67	Driver Behavior Detection	0.002lux	Micro SD Card Slot	IP67 IK10 EN50155 Wi-Fi supported
Model	Picture	Features										
SVR2420-0204A/4P		Mobile NVR 4 x PoE Port (IEEE802.3af) 4 Channel IP camera access H.265 / H.264 8MP, 1080P, 720P, D1, CIF, QCIF Built-in Wi-Fi / GPS Built-in 3G/4G Module (optional), Supports dual SIM card bundle 2 x 2.5" HDD Bay										
SVR2420-0208A/8P		Mobile NVR 8 x PoE Port (IEEE802.3af) 8 Channel IP camera access H.265 / H.264 8MP, 1080P, 720P, D1, CIF, QCIF Built-in Wi-Fi / GPS Built-in 3G/4G Module (optional), Supports dual SIM card bundle 2 x 2.5" HDD Bay										
SVR2420-0212A/8P		Mobile NVR 8 x PoE Port (IEEE802.3af) 12 Channel IP camera access H.265 / H.264 8MP, 1080P, 720P, D1, CIF, QCIF Built-in Wi-Fi / GPS Built-in 3G/4G Module (optional), Supports dual SIM card bundle 2 x 2.5" HDD Bay										

Model	Picture	Features
IPW200-P1HD		Body Worn Surveillance Phone Android 5.0 OS 5.5" 1080p HD IPS screen display Supports location function by GPS, GLONASS, Beidou Supports dual SIM dual standby IP67, adaptive to various environments 1.5 meters drop shock protection
DSJ-U1		Body Worn Camera Deep customized Android OS Qualcomm 8 core mobile processor 2mp starlight camera 2.2" touchscreen display IR night vision, 15M Infrared Distance Wi-Fi, 3G / 4G, GPS location IP67, adaptive to various environments 2 meters drop shock protection Supports removable clip
DSJ-U3		Body Worn Camera Deep customized Android OS Qualcomm 8 core mobile processor Dual 5mp starlight camera 2.4" touchscreen display IR night vision, 15M Infrared Distance Wi-Fi, 3G / 4G, GPS location IP68, adaptive to various environments 2 meters drop shock protection
ZCS-KDCA1		Data Docking Station Supports up to 24 units of Body Worn Cameras Supports extended module 13.3" touchscreen Record downloading and camera charging 3 slots for 3.5" hard disk supports up to 24TB storage
ZCS-KDCA3		Data Docking Station with open slot design Supports up to 24 units of Body Worn Cameras Supports extended module Built-in fingerprint recognition module 13.3" touchscreen Record downloading and camera charging 3 slots for 3.5" hard disk supports up to 24TB storage
ZCS-CMT-10		Supports 10 units of Body Worn Cameras Warehouse management and camera charging
USBCAM-130-M		Button Camera 1080p Mini Size Hidden wear Built-in Mic Low power consumption
USBCAM-230-M		Ear-hook Camera 1080p Mini Size Built-in Mic Built-in earphone Low power consumption
DSJ-VB01		Vehicle Holder Strong dash mount Adjustable angle
DSJ-VB02		Vehicle Holder Dock for rear view mirror bracket Adjustable angle
DSJ-SS01		Vest Holder Single Sided Strap Holder Customized leather case Adjustable elastic
DSJ-SS02		Vest Holder Double Shoulder Strap Holder Customized leather case Adjustable elastic
MA-B1		1 x Charger Slot Constant current fast charge Trickle charge Overcurrent protection Short circuit protection 5V DC, 6W (Power Adapter Not Included)

<	MA-B2		6 x Charger Slot Constant current fast charge Trickle charge Overcurrent protection Short circuit protection AC100-240V, 50W
<	MA-B3		24 x Charger Slot Constant current fast charge Trickle charge Overcurrent protection Short circuit protection AC100-240V, 180W
Model		Features	
<	ZFS-KDCA1 Data Docking Station Management Software		Device management for Body Worn Camera and Data Docking Station ZFS-KDCA1 can help you manage the data docking station by PC. You can easily access the data docking station and all the body worn cameras and download the recordings and snapshots. ZFS-KDCA1 supports multiple device management. The software can manage up to 10,000 body worn cameras and 500 data docking stations. It supports graphical statistics, so you can get and view the operating statistics of all the body worn camera. B/S user interface
<	VLine Communication Kit		VLine is a communication Kit for Kedacom portable mobile devices such as body worn camera and body worn surveillance phone. It can provide real-time communication service, such as Push-to-Talk and message chat. VLine supports address book and contacts service, so the body worn camera and body worn surveillance phone can easily communicate with other devices. Supports up to 500 client in a group, supports up to 50,000 users supports low Message and PTT delay (< 500 ms) on 3G/4G networks

IPC2253-FNB-PIR40

2.0MP Starlight & Ultra WDR HD Network Mini IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Mini size

- 0.6 kg / 1.32lb (Gross Weight)
- 161.5 x 62 x 57mm / 6.36" x 2.44" x 2.24"

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

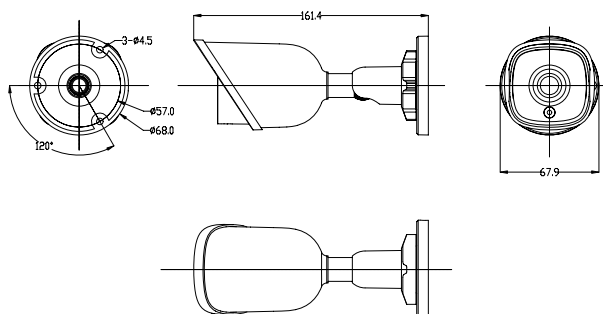
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Dual-stream (1080p + D1)
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Specifications

Camera	IPC2253-FNB-PIR40
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F2.0, AGC ON) B/W: 0.0002lux @ (F2.0, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	3.6mm (-L0360) / 6mm (-L0600)
Angle of View	78.6° (-L0360) / 53.2° (-L0600)
Infrared	
IR Distance	40m (-L0360, -L0600)
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 8Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 7W
Mechanical	
Weight	0.6 kg / 1.32lb (Gross Weight)
Dimensions	161.5 x 62 x 57mm / 6.36" x 2.44" x 2.24"
Mounting Bracket	Bracket included

Dimensions

Units:mm



IPC2252-FN-DIR

2.0MP Starlight & Ultra WDR HD Network IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 60m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

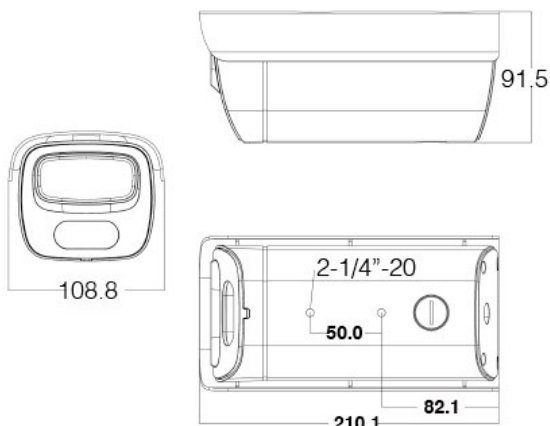
- Dual-stream (1080p + D1)
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- IP66

Specifications

IPC2252-FN-DIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800) / 12mm (-L1200) / 16mm (-L1600)
Angle of View	78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800) / 23.7° (-L1200) / 17.8° (-L1600)
Infrared	
IR Distance	60m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Alarm	
Alarm Triggers	Network disconnect
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66
Electrical	
Power	12V DC ± 10%
Power Consumption	Max. 11W
Mechanical	
Weight	1 kg / 2.2lb (Gross Weight)
Dimensions	181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87"

Dimensions

Units:mm



IPC2252-FN/FNB-PIR

2.0MP Starlight & Ultra WDR HD Network IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 60m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

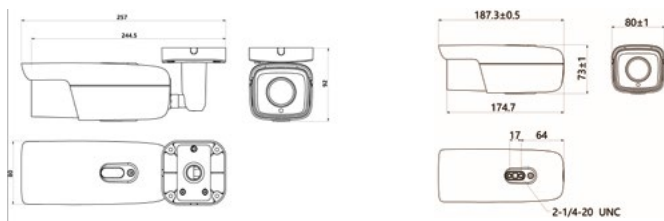
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Dual-stream (1080p + D1)
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67 (-FNB only)

Specifications

IPC2252-FN/FNB-PIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800) / 12mm (-L1200) / 16mm (-L1600)
Angle of View	78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800) / 23.7° (-L1200) / 17.8° (-L1600)
Infrared	
IR Distance	60m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network	
Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	-FN: IP66 -FNB: IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

Dimensions

Units:mm



IPC2252-FN/FNB-SIR

2.0MP Starlight & Ultra WDR HD Network IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 60m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

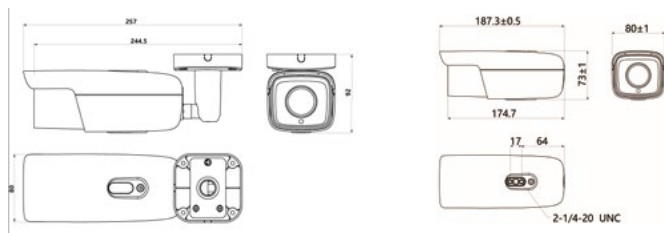
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Dual-stream (1080p + D1)
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67 (-FNB only)

Specifications

IPC2252-FN/FNB-SIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>50db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800) / 12mm (-L1200) / 16mm (-L1600)
Angle of View	78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800) / 23.7° (-L1200) / 17.8° (-L1600)
Infrared	
IR Distance	60m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	-FN: IP66 -FNB: IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

Dimensions

Units:mm



IPC2252-FN/FNB-PIR50-Z2812

2.0MP Starlight & Ultra WDR HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 50 ~ 70m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

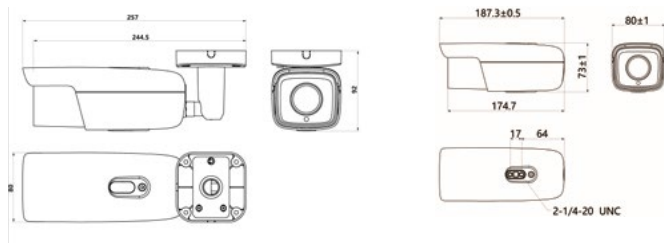
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Anti-fog with heating glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67 (-FNB only)

Specifications

IPC2252-FN/FNB-PIR50-Z2812	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	2.8-12mm @ F1.6 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	95° ~ 38°
Infrared	
IR Distance	50 ~ 70m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	FN: IP66 FNB: IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	FN: 1kg / 2.2lb (Gross Weight) FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	FN: 187.3 x 80 x 73mm / 7.37" x 3.15" x 2.87" FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	FN: Bracket not included FNB: Bracket included

Dimensions

Units:mm



IPC2252-FN/FNB-SIR50-Z2812

2.0MP Starlight & Ultra WDR HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 50 ~ 70m IR distance
- Smart IR function

A Variety of Installation Modes

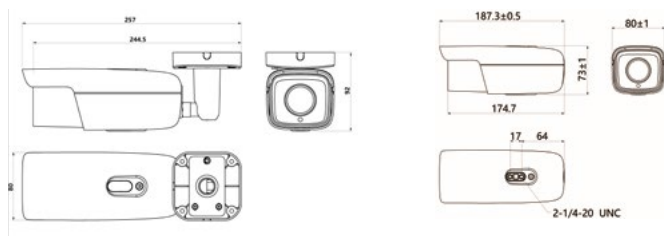
- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- Anti-fog with heating glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67 (-FNB only)

Dimensions

Units:mm

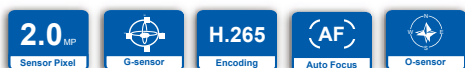


Specifications

	IPC2252-FN/FNB-SIR50-Z2812
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	2.8-12mm @ F1.6 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	95° ~ 38°
Infrared	
IR Distance	50 ~ 70m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V (p-p) / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	FN: IP66 FNB: IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	FN: 1kg / 2.2lb (Gross Weight) FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	FN: 187.3 x 80 x 73mm / 7.37" x 3.15" x 2.87" FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	FN: Bracket not included FNB: Bracket included

IPC2251-FN/FNB

2.0MP Starlight & Ultra WDR HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 120m IR distance (-SIR80-Z6048)
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Auto flip function
- Varifocal AF lens

Abundant Functions and Features

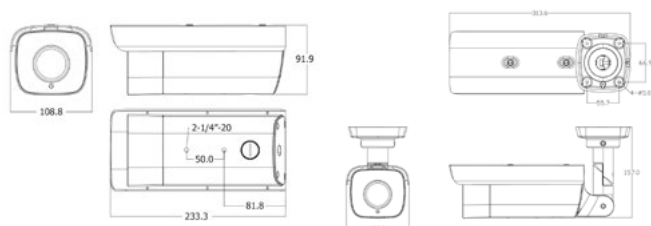
- Micro SD card slot, support Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- Anti-fog with heating glass
- Built-in O-sensor
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Specifications

	IPC2251-FN/FNB (-SIR40-Z2812, -SIR80-Z6048)
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001lux @ (F1.4, AGC ON) B/W: 0.0001lux @ (F1.4, AGC ON); 0Lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	-SIR50-Z2812: 2.8-12mm @ F1.4 motorized varifocal lens -SIR80-Z6048: 6-48mm @ F1.4 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	-SIR50-Z2812: horizontal: 90°~37°, vertical: 61°~21° -SIR80-Z6048: horizontal: 65°~7.2°, vertical: 38.6°~4.5°
Infrared	
IR Distance	-SIR50-Z2812: 50 ~ 80m -SIR80-Z6048: 80 ~ 120m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270° / Auto flip (Built-in G-sensor)
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection level	IP67
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	-SIR50-Z2812: Max. 12.5W -SIR80-Z6048: Max. 15W
Mechanical	
Weight	-FN: 2.5kg / 5.5lb (Gross Weight) -FNB: 2kg / 4.4lb (Gross Weight)
Dimensions	-FN: 313.6×108.8×157mm / 12.35" x 4.28" x 6.19" -FNB: 233.3×108.8×91.9mm / 9.19" x 4.28" x 3.62"
Mounting Bracket	-FN: Bracket included -FNB: Bracket not included

Dimensions

Units:mm



IPC2552-FN/FNB-SIR50-L

5.0MP Starlight & Ultra WDR HD Network IR Bullet Camera



Features

Excellent Image Quality

- 5.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3072x1728@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 50m IR distance
- Smart IR function

A Variety of Installation Modes

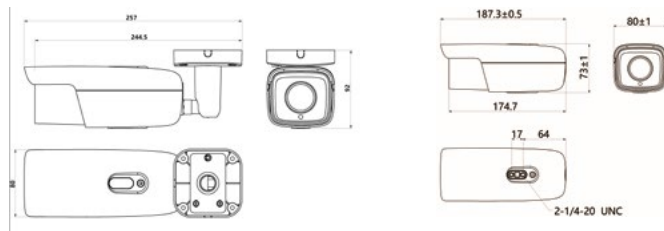
- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485
- Up to 3 Multi-stream
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Dimensions

Units:mm



Specifications

Camera	IPC2552-FN/FNB-SIR50-L
Image Sensor	1/2.8" progressive scan CMOS
Pixels	5.0 Megapixel
Min. Illumination	Color: 0.005lux@ (AGC ON) B/W: 0.0005lux@ (AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>=58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	M12
Mount Type	3.6mm@F1.4 (-L0360) / 6mm@F1.6(-L0600) / 8mm@F2.0 (-L0800)
Focal Length	-L0360:Horizontal:83.5° Vertical:44.6° -L0600:Horizontal:54.5° Vertical:29.7°
Angle of View	
Infrared	
IR Distance	50 ~70m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile / Main Profile / High Profile) / MJPEG
Image Resolution	Main stream: 3072x1728 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3072x1728@30fps / 3072x1728@25fps(with WDR on) Secondary stream: 720P@30fps Third stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP/HTTPS, DHCP, DNS/DHNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge Human & Vehicle Detection:
Deep Learning Intelligent	Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10(optional)
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

IPC2552-FN/FNB-SIR50-Z2812

5.0MP Starlight & Ultra WDR HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 5.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3072 x 1728@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 70m IR distance
- Smart IR function

A Variety of Installation Modes

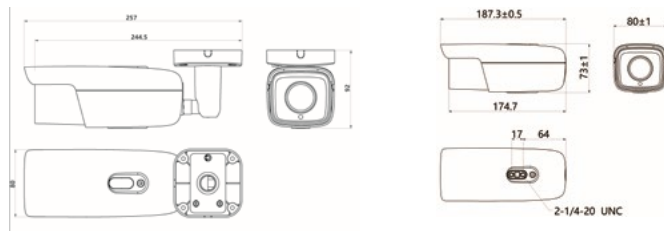
- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485
- Up to 3 Multi-stream
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Dimensions

Units:mm



Specifications

Camera	IPC2552-FN/FNB-SIR50-Z2812
Image Sensor	1/2.8" progressive scan CMOS
Pixels	5.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>=58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	-Z2812: 2.8-12mm @F1.6~F3.3 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	Horizontal : 29.4°(T)~99.6°(W); Vertical : 16.5°(T)~53.1°(W)
Infrared	
IR Distance	50 ~ 70m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile / Main Profile / High Profile) / MJPEG
Image Resolution	Main stream: 3072 x 1728 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3072 x 1728@30fps / 3072 x 1728@25fps(with WDR on) Secondary stream: 720P@30fps Third stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network	Supported
Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Deep Learning Intelligent	Human & Vehicle Detection: Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10(optional)
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max.11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

IPC2852-FN/FNB-SIR50-L

8.0MP Starlight & Ultra WDR HD Network IR Bullet Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840 x 2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 70m IR distance
- Smart IR function

A Variety of Installation Modes

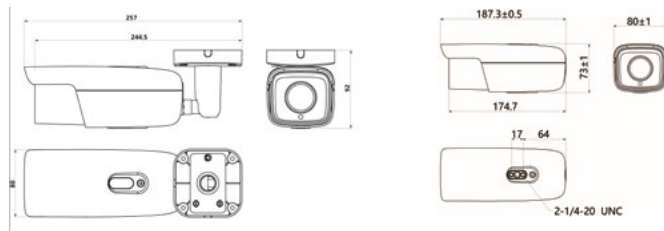
- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485
- Up to 3 Multi-stream
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Dimensions

Units:mm



Specifications

IPC2852-FN/FNB-SIR50-L	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>=58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	3.6mm @F1.4(-L0360) / 6mm@F1.6 (-L0600) / 8mm@F2.0 (-L0800)
Angle of View	-L0360:Horizontal:77.6°, Vertical:40.1° -L0600:Horizontal:53.5°, Vertical:28.9° -L0800:Horizontal:36.6°, Vertical:20.5°
Infrared	
IR Distance	50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile / Main Profile / High Profile) / MJPEG
Image Resolution	Main stream: 3840 x 2160 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3840 x 2160@20fps Secondary stream: 720P@30fps Third stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Human & Vehicle Detection:	
Deep Learning Intelligent	Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10(optional)
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max.11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

IPC2852-FN/FNB-SIR50-Z

8.0MP Starlight & Ultra WDR HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840 x 2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 70m IR distance
- Smart IR function

A Variety of Installation Modes

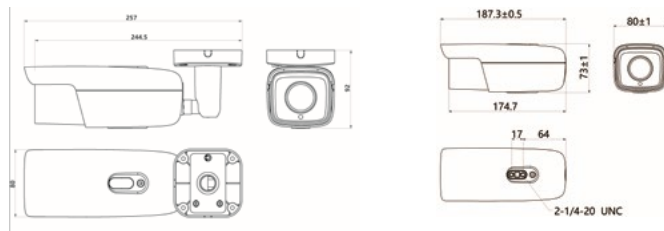
- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485
- Up to 3 Multi-stream
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Dimensions

Units:mm



Specifications

IPC2852-FN/FNB-SIR50-Z	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >= 120db
S/N Ratio	>= 58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	Φ14
Auto Iris	DC drive
Focal Length	-Z2812: 2.8-12mm @F1.6~F3.3 motorized varifocal lens -Z6022: 6.0-22mm @F1.6~F2.8 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	Z2812: Horizontal : 30.3°(T)~107°(W) Vertical : 17°(T)~56.1°(W) Z6022: Horizontal : 17.6°(T)~42.9°(W) Vertical : 9.7°(T)~23.4°(W)
Infrared	
IR Distance	50 ~ 70m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile / Main Profile / High Profile) / MJPEG
Image Resolution	Main stream: 3840 x 2160 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3840 x 2160@20fps Secondary stream: 720P@25fps Third stream: D1@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge Human & Vehicle Detection:
Deep Learning Intelligent	Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10 (optional)
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	-FN: 1kg / 2.2lb (Gross Weight) -FNB: 1.2kg / 2.65lb (Gross Weight)
Dimensions	-FN: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -FNB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Mounting Bracket	-FN: Bracket not included -FNB: Bracket included

IPC123-Fi9N

2.0MP Starlight 2.0 & Ultra WDR HD Network Box Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0005Lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Face capturing

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Auto flip function

Abundant Functions and Features

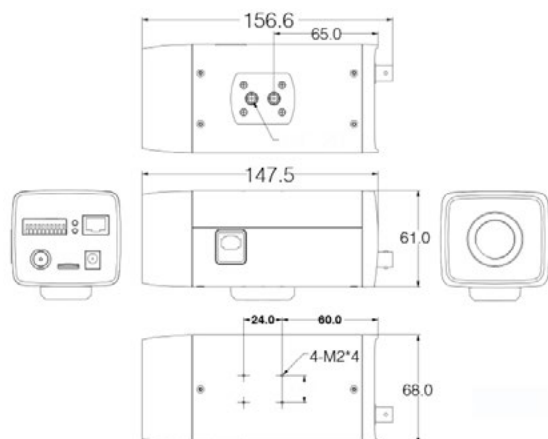
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Built-in Mic
- Built-in O-sensor
- PoE

Specifications

IPC123-Fi9N	
Camera	
Image Sensor	1/2" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.0005Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens (not included)	
Mount Type	C / CS
Auto Iris	DC drive / P-Iris
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270° / Auto flip (Built-in G-sensor)
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out / 1 x Built-in Mic
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Electrical	
Power	AC 24V ± 10% / DC 12V ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 6W
Mechanical	
Weight	0.5 kg / 1.1lb (Gross Weight)
Dimensions	147.5 x 68 x 61mm / 5.81" x 2.68" x 2.40"

Dimensions

Units:mm



IPC2211-FN-DIR

2.0MP Starlight & Ultra WDR HD Network IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

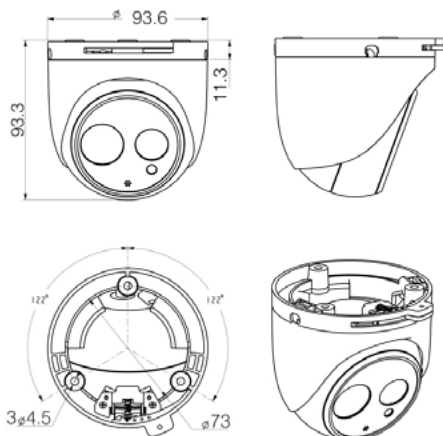
- Built-in Mic
- Dual-stream (1080p + D1)
- Anti-fog glass
- IP66

Specifications

IPC2211-FN-DIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	2.8mm (-L0280) / 3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800)
Angle of View	101.2° (-L0280) / 78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800)
Adjustment Range	Pan: 0° ~ 360° / Tilt: 0° ~ 85° / Rotation: 0° ~ 360°
Infrared	
IR Distance	40m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722
Bitrate	32kbps ~ 64kbps
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Alarm	
Alarm Triggers	Network disconnect
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio	1 x Built-in Mic
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection level	IK10 (optional), IP66
Electrical	
Power	12V DC ± 10%
Power Consumption	Max. 11W
Mechanical	
Weight	1 kg / 2.2lb (Gross Weight)
Dimensions	Φ93.6 × 93.3mm / Φ3.69" × 3.68"

Dimensions

Units:mm



IPC2211-FN-PIR

2.0MP Starlight & Ultra WDR HD Network IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

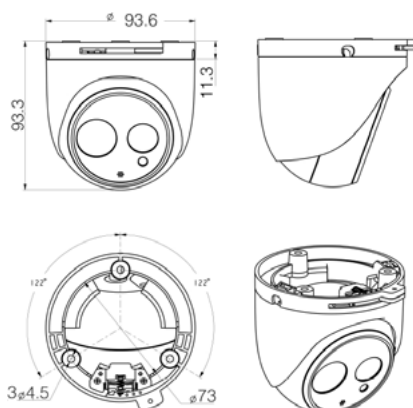
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Built-in Mic
- Dual-stream (1080p + D1)
- Anti-fog glass
- PoE
- IP66

Specifications

	IPC2211-FN-PIR
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	2.8mm (-L0280) / 3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800)
Angle of View	101.2° (-L0280) / 78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800)
Adjustment Range	Pan: 0° ~ 360° / Tilt: 0° ~ 85° / Rotation: 0° ~ 360°
Infrared	
IR Distance	40m
IR Intensity	Smart IR
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	AEC / Dump
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Built-in Mic
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection level	IK10 (optional), IP66
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	1kg / 2.2lb (Gross Weight)
Dimensions	Φ93.6 × 93.3mm / Φ3.69" × 3.68"

Dimensions

Units:mm



IPC2211-FN-SIR

2.0MP Starlight & Ultra WDR HD Network IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 40m IR distance
- Smart IR function

A Variety of Installation Modes

Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

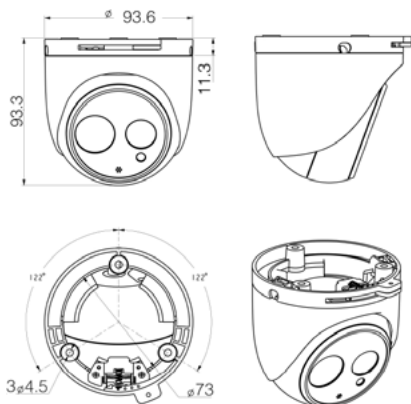
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / Built-in Mic / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Dual-stream (1080p + D1)
- Anti-fog glass
- PoE
- IP66

Specifications

IPC2211-FN-SIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, ≥120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	M12
Focal Length	2.8mm (-L0280) / 3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800)
Angle of View	101.2° (-L0280) / 78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800)
Adjustment Range	Pan: 0° ~ 360° / Tilt: 0° ~ 85° / Rotation: 0° ~ 360°
Infrared	
IR Distance	40m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Dual-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out / 1 x Built-in Mic
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection level	IK10 (optional), IP66
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	1 kg / 2.2lb (Gross Weight)
Dimensions	Φ93.6 × 93.3mm / Φ3.69" × 3.68"

Dimensions

Units:mm



IPC2241-FN/FNW-PIR

2.0MP Starlight & Ultra WDR HD Network Mini IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 15m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

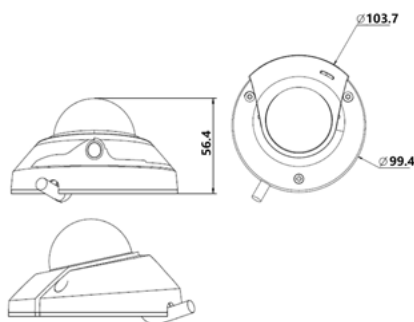
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Built-in Mic
- Wi-Fi supported (-FNW only)
- Dual-stream (1080p + D1)
- Anti-fog glass
- EN50155
- PoE
- IK10
- IP67

Specifications

	IPC2241-FN-PIR	IPC2241-FNW-PIR
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.002lux @ (F2.0, AGC ON) B/W: 0.0002lux @ (F2.0, AGC ON)	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>58dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Lens		
Mount Type	M12	
Focal Length	2.8mm (-L0280) / 3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800)	
Angle of View	101.2° (-L0280) / 78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800)	
Adjustment Range	Pan: -45° ~ 45° / Tilt: 0° ~ 90° / Rotation: 0° ~ 360°	
Infrared		
IR Distance	15m	
IR Intensity	Smart IR	
Video		
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps	
Bitrate	32kbps ~ 8Mbps	
Bitrate Control	VBR / CBR	
Dual-stream	Supported	
Caption	Date and time / Alarm / Customized	
Privacy Masking	Up to 4 zones	
Motion Detection	Up to 4 zones	
ROI	Supported	
Digital Noise Reduction	3D noise reduction	
Digital Defog	Supported	
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Wireless	/	
Wi-Fi	/ Wi-Fi 802.11b/g/n 2.4G, Wi-Fi AP	
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Alarm		
Alarm Triggers	Network disconnect / Disk full / Disk error	
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Wi-Fi	/ Built-in Wi-Fi module	
Memory Slot	Micro SD card slot, supports up to 256GB	
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection level	IK10, IP67, EN50155	
Electrical		
Power	12V DC ± 25% / PoE (IEEE802.3af)	
Power Consumption	Max. 8W	
Mechanical		
Weight	0.5 kg / 1.1lb (Gross Weight)	
Dimensions	Ø103.7 × 56.4mm / Ø4.08" x 2.22"	

Dimensions

Units:mm



IPC2241-FN/FNW-SIR

2.0MP Starlight & Ultra WDR HD Network Mini IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 15m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

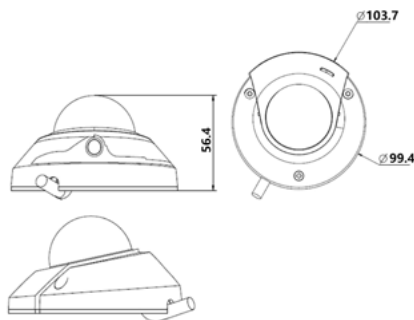
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / Built-in Mic / alarm in and out / video out / RS485
- Wi-Fi supported (-FNW only)
- Dual-stream (1080p + D1)
- Anti-fog glass
- EN50155
- PoE
- IK10
- IP67

Specifications

	IPC2241-FN-SIR	IPC2241-FNW-SIR
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.002lux @ (F2.0, AGC ON) B/W: 0.0002lux @ (F2.0, AGC ON)	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>58dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Lens		
Mount Type	M12	
Focal Length	2.8mm (-L0280) / 3.6mm (-L0360) / 6mm (-L0600) / 8mm (-L0800)	
Angle of View	101.2° (-L0280) / 78.6° (-L0360) / 53.2° (-L0600) / 36.8° (-L0800)	
Adjustment Range	Pan: -45° ~ 45° / Tilt: 0° ~ 90° / Rotation: 0° ~ 360°	
Infrared		
IR Distance	15m	
IR Intensity	Smart IR	
Video		
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps	
Bitrate	32kbps ~ 8Mbps	
Bitrate Control	VBR / CBR	
Dual-stream	Supported	
Caption	Date and time / Alarm / Customized	
Privacy Masking	Up to 4 zones	
Motion Detection	Up to 4 zones	
ROI	Supported	
Digital Noise Reduction	3D noise reduction	
Digital Defog	Supported	
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Wireless	/	
Wi-Fi	/ 802.11b/g/n 2.4G, Wi-Fi AP	
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Alarm		
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error	
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Wi-Fi	/ Built-in Wi-Fi module	
Audio In / Out	1 x Line in / 1 x Line out / 1 x Built-in Mic	
Control	1 x RS485	
Alarm In / Out	2 x Input / 1 x Output	
Video Out	1 x BNC, 1.0V [p-p] / 75Ω	
Memory Slot	Micro SD card slot, supports up to 256GB	
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection level	IK10, IP67, EN50155	
Electrical		
Power	12V DC ± 25% / PoE (IEEE802.3af)	
Power Consumption	Max. 8W	
Mechanical		
Weight	0.5 kg / 1.1lb (Gross Weight)	
Dimensions	Φ103.7 x 56.4mm / Φ4.08" x 2.22"	

Dimensions

Units:mm



IPC2233-FN-S

2.0MP Starlight & Ultra WDR HD Network Vandal-Proof Varifocal Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Vandal-Proof

- Above IK10 @ 50J collision energy

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

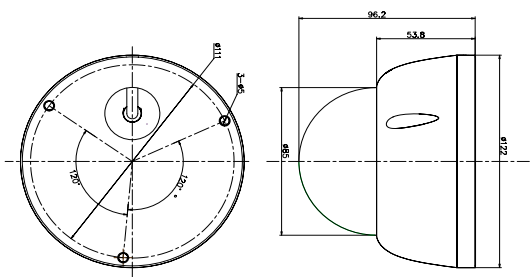
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

IPC2233-FN-S	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.8, AGC ON) B/W: 0.0002lux @ (F1.8, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	M12
Focal Length	2.1mm (-L0210)
Angle of View	132° (-L0210)
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 65° / Rotation: -90° ~ +90°
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IK10+ @50J, IP67
Electrical	
Power	DC12V ± 10%
Power Consumption	Max. 11W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Φ122x 96.13mm / Φ4.8" x 3.78"

Dimensions

Units:mm



IPC2233-FN-PIR40

2.0MP Starlight & Ultra WDR HD Network Vandal-Proof Varifocal IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 20 ~ 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

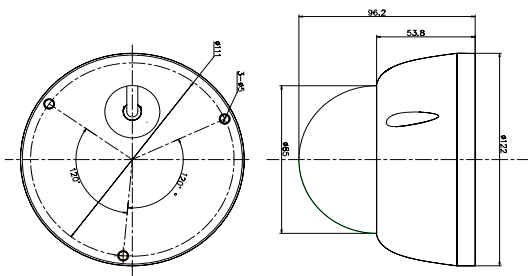
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

IPC2233-FN-PIR40	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux@ (F1.6, AGC ON)
Shutter Speed	B/W: 0.0002lux@ (F1.6, AGC ON); 0lux with IR
Day / Night	1 ~ 1/30,000s
Wide Dynamic Range	Auto (ICR) / Color / B/W
S/N Ratio	Ultra WDR, >=120dB
White Balance	>50dB
Gain Control	Auto / Manual
Backlight Compensation	Auto / Manual
Lens	
Mount Type	Off / BLC / WDR / HLC
Auto Iris	Φ14
Focal Length	DC drive
Focus Control	-Z2712: 2.7~12mm @ F1.6 motorized varifocal lens
Angle of View	Manual / Semi-Automatic / Auto
Adjustment Range	-Z2712: 106° ~ 33°
Infrared	
IR Distance	Pan: -120° ~ +120° / Tilt: 0° ~ 65° / Rotation: -90° ~ +90°
IR Intensity	20 ~ 40m
Video	
Compression	Smart IR
Image Resolution	H.265 / H.264 / MJPEG
Frame Rate	Main stream: 1080p
Bitrate	Secondary stream: D1 (1080p optional)
Bitrate Control	Main stream: 1080p@30fps
Multi-stream	Secondary stream: D1@30fps (1080@12fps (optional))
Caption	32kbps ~ 16Mbps
Privacy Masking	VBR / CBR
Motion Detection	Supported
Video Freeze	Supported
ROI	Date and time / Alarm / Customized
Digital Noise Reduction	Up to 4 zones
Digital Defog	Up to 4 zones
Image Flip	Supported
Network	
Network Protocols	3D noise reduction
User Interface	Supported
Max. User Access	Flip / Mirror / Rotation at 90°, 180°, 270°
Application Programming	HTTP/TCP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP,
Automatic Network Replenishment (ANR)	UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Alarm	
Alarm Triggers	IPC Control (IE, Firefox, Chrome)
Intelligent	Max. 10 Users (includes 2 internal)
Alarm Events	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Interfaces	
Ethernet	Supported
Memory Slot	10/100M, RJ45 interface
Environmental	
Operating Temperature	Micro SD card slot, supports up to 128GB
Operating Humidity	10/100M, RJ45 interface
Protection Level	Micro SD card slot, supports up to 128GB
Electrical	
Power	Operating Temperature: -40°C ~ 70°C / -40°F ~ 158°F
Power Consumption	Operating Humidity: 10% ~ 95%
Mechanical	
Weight	Protection Level: IK10+ @50J, IP67
Dimensions	Power: DC12V ± 10% / PoE (IEEE802.3af)
	Power Consumption: Max. 11W
	Weight: 0.71 kg / 1.57lb (Gross Weight)
	Dimensions: Φ122× 96.13mm / Φ4.8" x 3.78"

Dimensions

Units:mm



IPC2233-FN-SIR40

2.0MP Starlight & Ultra WDR HD Network Vandal-Proof Varifocal IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 20 ~ 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

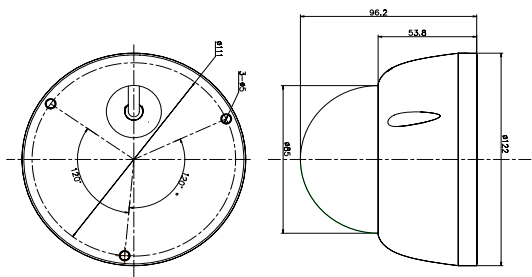
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

IPC2233-FN-SIR40	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux@ (F1.6, AGC ON) B/W: 0.0002lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Φ14
Auto Iris	DC drive
Focal Length	-Z2712: 2.7~12mm @ F1.6 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	-Z2712: 106° ~ 33°
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 65° / Rotation: -90° ~ +90°
Infrared	
IR Distance	20 ~ 40m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IK10+ @50J, IP67
Electrical	
Power	DC12V ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Φ122× 96.13mm / Φ4.8" x 3.78"

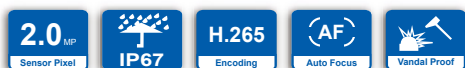
Dimensions

Units:mm



IPC2231-FN-S

2.0MP HD Network Vandal-Proof Semi Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Vandal-Proof

- Above IK10 @ 50J collision energy

A Variety of Installation Modes

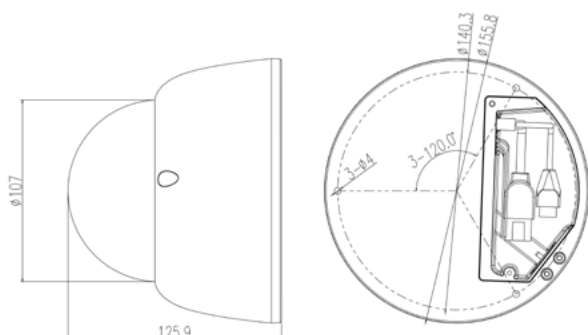
- Supports 90°, 180°, 270° image rotation
- Varifocal AF lens (-Z2812 only)

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE / Power output
- IP67

Dimensions

Units:mm

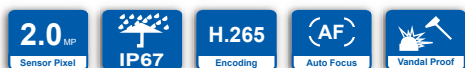


Specifications

IPC2231-FN-S	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001lux @ (F1.4, AGC ON) B/W: 0.0001lux @ (F1.4, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	-Z2812: Φ14 -L0200 / -L0220: M12
Auto Iris	-Z2812: DC drive -L0200 / -L0220: Fixed
Focal Length	-Z2812: 2.8~12mm @ F1.4 motorized varifocal lens -L0200: 2mm -L0220: 2.2mm
Focus Control	-Z2812: Manual / Semi-Automatic / Auto -L0200 / -L0220: Fixed
Angle of View	-L0200: 151° -L0220: 126° -Z2812: 108° ~ 35°
Adjustment Range	Pan: 0° ~ 355° / Tilt: 0° ~ 75° / Rotation: 0° ~ 355°
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS-485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Power Output	1 x DC12V / 0.1A Output
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IK10+ @ 50J, IP67
Electrical	
Power	AC24V±10% / DC12V ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	1 kg / 2.2lb (Gross Weight)
Dimensions	Φ155.8 × 125.9mm / Φ6.14" × 4.96"

IPC2231-FN-SIR40

2.0MP HD Network Vandal-Proof Varifocal IR Semi Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 20 ~ 40m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Varifocal AF lens

Abundant Functions and Features

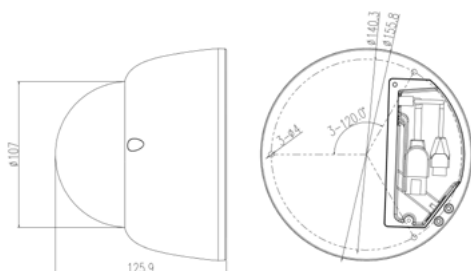
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE / Power output
- IP67

Specifications

IPC2231-FN-SIR40	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001lux @ (F1.4, AGC ON) B/W: 0.0001lux @ (F1.4, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	-Z2812: 2.8~12mm @ F1.4 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	-Z2812: 108° ~ 35°
Adjustment Range	Pan: 0° ~ 355° / Tilt: 0° ~ 75° / Rotation: 0° ~ 355°
Infrared	
IR Distance	20 ~ 40m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 128GB
Power Output	1 x DC12V / 0.1A Output
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IK10+ @50J, IP67
Electrical	
Power	AC24V±10% / DC12V ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	1 kg / 2.2lb (Gross Weight)
Dimensions	Ø155.8 × 125.9mm / Ø6.14" × 4.96"

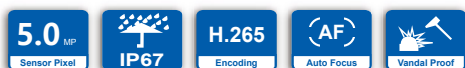
Dimensions

Units:mm



IPC2533-FN-SIR50-L

5.0MP Starlight & Ultra WDR HD Network Vandal-Proof IR Semi Dome



Features

Excellent Image Quality

- 5.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3072x1728@30fps / 3072x1728@25fps(with WDR on)
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 50m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

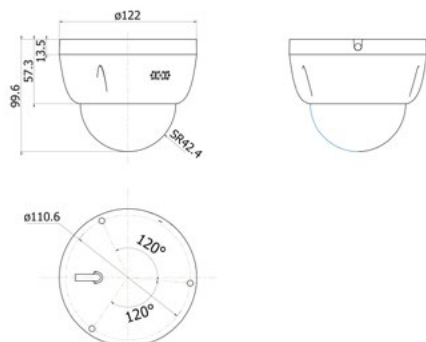
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485 / Built-in Mic & Speaker
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

IPC2533-FN-SIR50-L	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	5.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON)
Shutter Speed	B/W: 0.005lux@ (F1.6, AGC ON); 0lux with IR
Day / Night	1 ~ 1/30,000s
Wide Dynamic Range	Auto (ICR) / Color / B/W
S/N Ratio	Ultra WDR, >=120dB
White Balance	>=58db
Gain Control	Auto / Manual
Backlight Compensation	Auto / Manual
Lens	Off / BLC / WDR / HLC
Mount Type	M12
Focal Length	2.8mm@F1.0(-L0280) / 3.6mm@F1.0 (-L0360) / 6.0mm@F1.0 (-L0600)
Angle of View	-L0280: Horizontal:105.5°, Vertical:55.5°
	-L0360: Horizontal:83.5°, Vertical:44.6°
	-L0600: Horizontal:54.5°, Vertical:29.7°
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 90°
Infrared	
IR Distance	20 ~ 50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265(Main Profile) / H.264(BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3072x1728
	Secondary stream: 720P
	Third stream: D1
Frame Rate	Main stream: 3072x1728@30fps / 3072x1728@25fps(with WDR on)
	Secondary stream: 720P@30fps
	Third stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Deep Learning Intelligent	Human & Vehicle Detection: Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1xLine In, 1xLine Out, 1 x Built-in Mic in, 1 x Speaker
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 12W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Φ122× 99.6mm / Φ4.8" x 3.92"

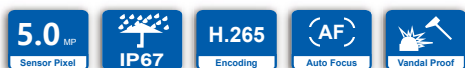
Dimensions

Units:mm



IPC2533-FN-SIR50-Z

5.0MP Starlight & Ultra WDR HD Network Vandal-Proof Varifocal IR Semi Dome



Features

Excellent Image Quality

- 5.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3072x1728@30fps / 3072x1728@25fps(with WDR on)
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 50m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

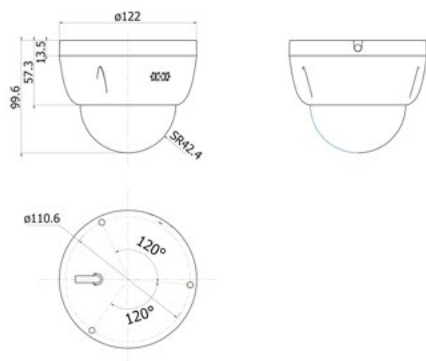
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485 / Built-in Mic & Speaker
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

IPC2533-FN-SIR50-Z	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	5.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	-Z2812: 2.8~12mm @ F1.6~F3.3 motorized varifocal lens -Z6022: 6~22mm @ F1.6~F3.3 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	-Z2812: Horizontal:29.4°(T)~95.3°(W),Vertical:16.5°(T)~49.2°(W) -Z6022: Horizontal:17.6°(T)~42.9°(W),Vertical:9.7°(T)~23.4°(W)
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 90° / Rotation: -90° ~ +90°
Infrared	
IR Distance	20 ~ 50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265(Main Profile) / H.264(BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3072x1728
	Secondary stream: 720P
	Third stream: D1
Frame Rate	Main stream: 3072x1728@30fps / 3072x1728@25fps(with WDR on)
	Secondary stream: 720P@30fps
	Third stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Human & Vehicle Detection:	
Deep Learning Intelligent	Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Alarm Events	
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line In, 1 x Line Out, 1 x Built-in Mic in, 1 x Speaker
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 12W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Ø122x 99.6mm / Ø4.8" x 3.92"

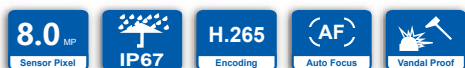
Dimensions

Units:mm



IPC2833-FN-SIR50-L

8.0MP Starlight & Ultra WDR HD Network Vandal-Proof IR Semi Dome



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840×2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 50m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation

Abundant Functions and Features

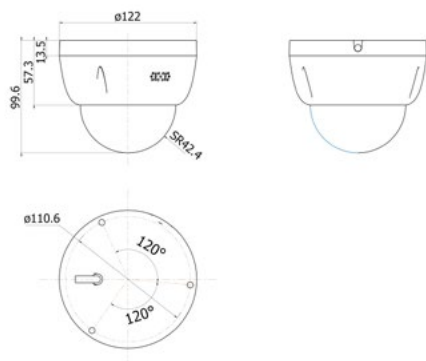
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485 / Built-in Mic & Speaker
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

Camera	IPC2833-FN-SIR50-L
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	M12
Focal Length	2.8mm@F1.0(-L0280) / 3.6mm@F1.0 (-L0360) / 6.0mm@F1.0 (-L0600)
Angle of View	-L0280: Horizontal:105.5°, Vertical:55.5° -L0360: Horizontal:83.5°, Vertical:44.6° -L0600: Horizontal:54.5°, Vertical:29.7°
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 90° / Rotation: -90° ~ +90°
Infrared	
IR Distance	50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265(Main Profile) / H.264(BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3840×2160 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3840×2160@20fps Secondary stream: 720P@20fps Third stream: D1@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Deep Learning Intelligent	Human & Vehicle Detection: Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line In, 1 x Line Out, 1 x Built-in Mic in, 1 x Speaker
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 12W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Ø122× 99.6mm / Φ4.8" x 3.92"

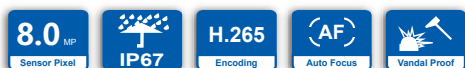
Dimensions

Units:mm



IPC2833-FN-SIR50-Z2812

8.0MP Starlight & Ultra WDR HD Network Vandal-Proof Varifocal IR Semi Dome



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840×2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
- Support Deep Learning Algorithm

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 20 ~ 50m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

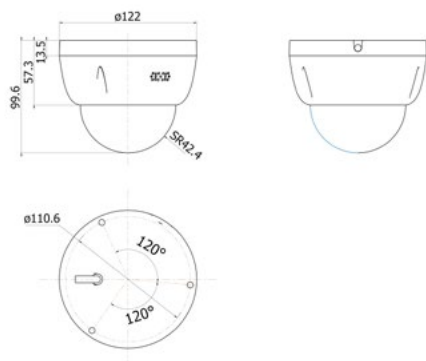
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485 / Built-in Mic & Speaker
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

Camera	IPC2833-FN-SIR50-Z2812
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Ø14
Auto Iris	DC drive
Focal Length	-Z2812: 2.8-12mm @F1.6~F3.3 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	Horizontal:30.3°(T)~107°(W);Vertical:17°(T)~56.1°(W)
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 90° / Rotation: -90° ~ +90°
Infrared	
IR Distance	20 ~ 50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265(Main Profile) / H.264(BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3840×2160 Secondary stream: 720P Third stream: D1
Frame Rate	Main stream: 3840×2160@20fps Secondary stream: 720P@20fps Third stream: D1@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Basic Intelligent	Tampering / Defocus / Scene change / Object left / Object removal / Audio surge
Deep Learning Intelligent	Human & Vehicle Detection: Motion detection / Guard line / Enter guard area / Exit guard area / People Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line In, 1 x Line Out, 1 x Built-in Mic in, 1 x Speaker
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 12W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Ø122×99.6mm / Ø4.8"×3.92"

Dimensions

Units:mm



IPC421-E230-N0

2.0MP Starlight & Ultra WDR HD 30x Network Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C

A Variety of Installation Modes

- Indoor ceiling / Indoor recessed

Abundant Functions and Features

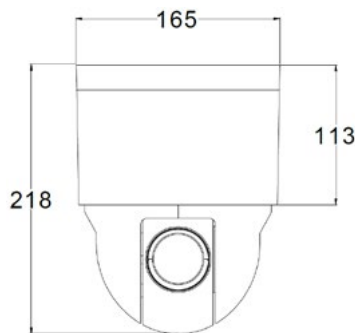
- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor

Specifications

IPC421-E230-N0	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>53dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 135mm, 30x
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.77° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Pan and Tilt	
Pan / Tilt Range	360° Endless / 0° ~ 90°
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 250°/s; Pan preset speed: 450°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 350°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Alarm Events	
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Electrical	
Power	24V AC / 3A (Power adapter included) / Hi-PoE (optional)
Power Consumption	Max. 45W
Mechanical	
Weight	3 kg / 6.6lb (Net Weight)
Dimensions	Φ165 × 220mm / Φ6.50" × 8.66"

Dimensions

Units: mm



IPC421-F120

2.0MP Starlight & Ultra WDR HD 20x Network Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP67, TVS 6000V lightning protection, surge protection and voltage transient protection (-N1)

A Variety of Installation Modes

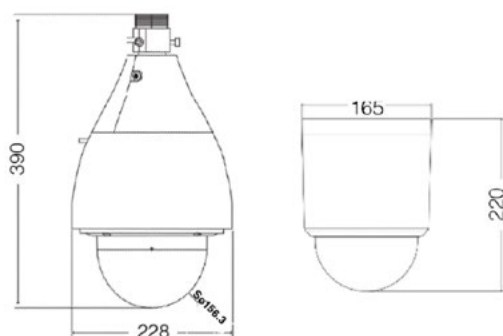
- Indoor ceiling / Indoor recessed / Outdoor

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor

Dimensions

Units: mm



Specifications

IPC421-F120 (-N0, -N1)	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, 120dB
S/N Ratio	> 53dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 3.64° (Wide~Tele)
Min. Object Distance	300 ~ 1000mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F3.5 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Pan and Tilt	
Pan / Tilt Range	360° Endless / 0° ~ 90°
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 250°/s; Pan preset speed: 450°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 350°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	-N1(Outdoor): IP67, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	-N0(Indoor): Hi-PoE (optional) Max. 45W (Heater on)
Mechanical	
Weight	-N0(Indoor): 3 kg / 6.6lb (Net Weight) -N1(Outdoor): 6 kg / 13.2lb (Net Weight)
Dimensions	-N0(Indoor): Φ165 × 220mm / Φ6.50" × 8.66" -N1(Outdoor): Φ228 × 390mm / Φ8.98" × 15.35"

IPC421-F233-N1

2.0MP Starlight & Ultra WDR HD 33x Network Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

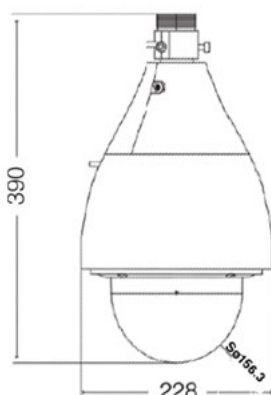
- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP67, TVS 6000V lightning protection, surge protection and voltage transient protection

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor

Dimensions

Units: mm



Specifications

IPC421-F233-N1	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.34° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Pan and Tilt	
Pan / Tilt Range	360° Endless / 0° ~ 90°
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 250°/s; Pan preset speed: 450°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 350°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	IPC421-F233-N1
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP67, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (Heater on)
Mechanical	
Weight	6 kg / 13.2lb (Net Weight)
Dimensions	Ø228 x 390mm / Ø8.98" x 15.35"

IPC427

2.0MP Starlight HD Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1920 x 1080@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.006lux with color picture
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

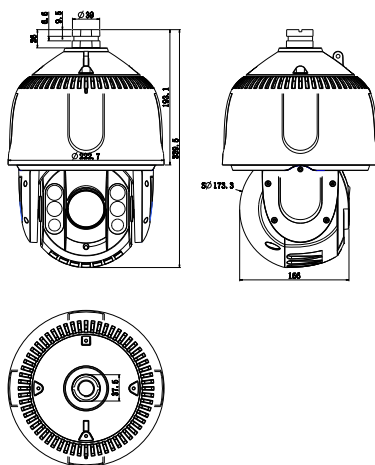
- 30x optical zoom (-F130-NP)
- IR distance up to 180m

Abundant Functions and Features

- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- PoE (-F120-NP / -F130-NP)

Dimensions

Units: mm



Specifications

	IPC427-F120-N	IPC427-F120-NP	IPC427-F130-NP
Camera			
Image Sensor	1/2.8" progressive scan CMOS		
Pixels	2.0 Megapixel		
Min. Illumination	Color: 0.006lux @ (F2.8, AGC ON) B/W: 0.0005lux @ (F2.8, AGC ON); 0lux with IR		
Shutter Speed	1 ~ 1/30,000s		
Day / Night	Auto (ICR) / Color / B/W		
Wide Dynamic Range	Digital WDR		
S/N Ratio	>57dB		
White Balance	Auto / Manual		
Gain Control	Auto / Manual		
Backlight Compensation	Off / WDR / BLC / HLC		
Lens			
Focal Length	5.2 ~ 100.4mm, 20x optical		4.7 ~ 141mm, 30x optical
Zoom Speed	Approx 3s (Optical)		
Angle of View	61°~ 3.64° (Wide~Tele)		60.8°~ 2.77° (Wide~Tele)
Min. Object Distance	1000 ~ 1500mm (Wide~Tele)		
Max. Aperture Ratio	F2.8		
Focus Control	Auto / Manual / Semi-Automatic		
Infrared			
IR LED	6 pcs IR LED Array		
IR Distance	120 ~ 180m		
IR Intensity	Automatically adjust according to zoom ratio		
Pan and Tilt			
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)		
Pan / Tilt Speed	Pan manual speed: 0.1°~160°/s; Pan preset speed:160°/s Tilt manual speed: 0.1°~120°/s ; Tilt preset speed: 120°/s		
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples		
Preset	256		
Patrol	8 Patrols scheme, up to 32 presets per patrol		
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path		
Power-off Memory	Power-off memory / Power-on recovery		
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan		
PT Limit	Manual / Scan / Pan		
3D Positioning	PTZ control with mouse click and drag		
Electronic compass	Built-in O-sensor		
Video			
Compression	H.265 / H.264 / MJPEG		
Image Resolution	Main stream: 1080p Secondary stream: 720p		
Frame Rate	Main stream: 1080p@30fps Secondary stream: 720p@30fps		
Bitrate	32~16384Kbps		
Bitrate Control	VBR / CBR		
Multi-stream	Supported		
Caption	Date and time / Alarm / Direction / Customized		
Privacy Masking	Up to 4 zones		
Motion Detection	Up to 4 zones		
Video Freeze	Supported		
ROI	Supported		
Digital Noise Reduction	3D noise reduction		
Electronic Defog	Supported		
Image Flip	Flip / Mirror		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bitrate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)		
User Interface	IPC Control (IE, Firefox, Chrome)		
Max. User Access	Max. 10 Users (includes 2 internal)		
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI		
Automatic Network Replenishment (ANR)	Supported		
Alarm			
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error		
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area		
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm		
Interfaces			
Ethernet	10/100M, RJ45 interface		
Audio In / Out	1 x Line in / 1 x Line out		
Alarm In / Out	2 x Input / 1 x Output		
Memory Slot	Built-in SD card (optional), supports up to 128GB		
Environmental			
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F		
Operating Humidity	10% ~ 95%		
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection		
Electrical			
Power	24V AC / 3A (Power adapter included) / 24V AC / 3A (Power adapter not included) / Hi-PoE (PSE module included)		
Power Consumption	Max. 35W (IR on)		
Mechanical			
Weight	6.6 kg / 14.55lb (Gross Weight)		
Dimensions	Φ222.7 × 339.5mm / Φ8.77" × 13.35"		

IPC425-G223-N

2.0MP Starlight HD 23x Network IR Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.9" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- WDR / HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Face target capturing
- Human auto tracking

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

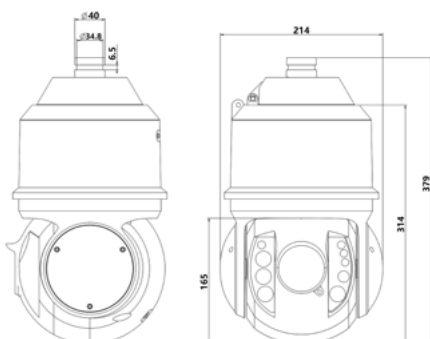
Large Scale

- 23x optical zoom
- IR distance up to 220m

Abundant Functions and Features

- Built-in EMMC (32G included), supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / RS485
- Built-in GPS

Dimensions Units: mm



Specifications

IPC425-G223-N	
Camera	
Image Sensor	1/1.9" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	6 ~ 138mm, 23x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	70° ~ 3.8° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	9pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 300°/s Tilt manual speed: 0.1° ~ 160°/s; Tilt preset speed: 240°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPy4, IPy6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Programming	
Automatic Network Replenishment (ANR)	Supported
Location Technology	GPS
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Human Auto Tracking	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Memory Slot	Built-in EMMC (32G included)
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter 24V AC / 3A (Power adapter not included) / Hi-PoE (PSE module included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214x 379mm / Φ8.43" x 14.92"

IPC425-G245-N

2.0MP Starlight & Ultra WDR HD 45x Network IR Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.9" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- WDR / HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Face target capturing
- Human auto tracking

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

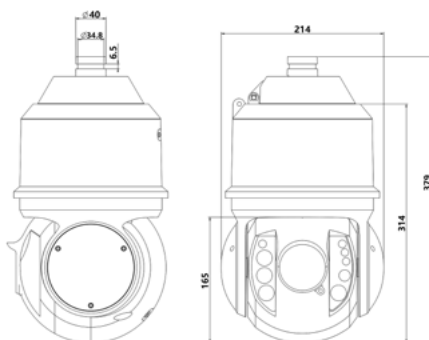
Large Scale

- 45x optical zoom
- IR distance up to 220m

Abundant Functions and Features

- Built-in EMMC (32G included), supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / RS485
- Built-in GPS

Dimensions Units: mm



Specifications

IPC425-G245-N	
Camera	
Image Sensor	1/1.9" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.002lux @ (F1.6, AGC ON) B/W: 0.0002lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.9 ~ 220.5mm, 45x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 1.8° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.2 (Wide) / F3.5 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	9pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 300°/s Tilt manual speed: 0.1° ~ 160°/s; Tilt preset speed: 240°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Presets	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Location Technology	GPS
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Human Auto Tracking	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Memory Slot	Built-in EMMC (32G included)
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214× 379mm / Φ8.43" × 14.92"

IPC425-F120-N

2.0MP Starlight & Ultra WDR HD 20x IR Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

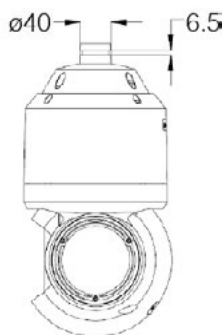
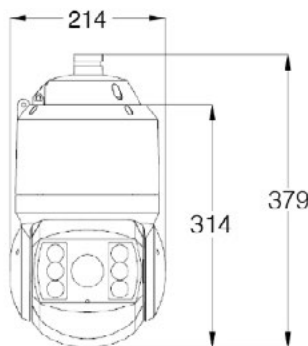
- 20x optical zoom
- IR distance up to 180m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in&out
- Built-in O-sensor

Dimensions

Units: mm



Specifications

IPC425-F120-N	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 3.64° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.6 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	6pcs IR LED Array
IR Distance	120 ~ 180m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 200°/s; Pan preset speed: 220°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 200°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Presets	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Main stream	1080p
Image Resolution	Secondary stream: D1
Main stream	1080p@30fps
Frame Rate	Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214× 379mm / Φ8.43" x 14.92"

IPC425-F233-N

2.0MP Starlight & Ultra WDR HD 33x Network IR Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

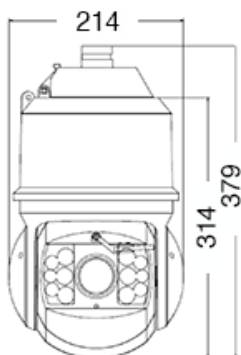
- 33x optical zoom
- IR distance up to 220m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor
- Wiper

Dimensions

Units: mm



Specifications

IPC425-F233-N	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON)
Shutter Speed	B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Day / Night	1 ~ 1/30,000s
Wide Dynamic Range	Auto (ICR) / Color / B/W
S/N Ratio	Ultra WDR, >=120dB
White Balance	>55dB
Gain Control	Auto / Manual
Backlight Compensation	Auto / Manual
Lens	
Focal Length	Off / WDR / BLC / HLC
Zoom Speed	4.5 ~ 148.5mm, 33x optical
Angle of View	Approx 3s (Optical)
Min. Object Distance	67.8° ~ 2.34° (Wide~Tele)
Max. Aperture Ratio	300 ~ 1500mm (Wide~Tele)
Focus Control	F1.6 (Wide) / F4.4 (Tele)
Infrared	
IR LED	Auto / Manual / Semi-Automatic
IR Distance	12pcs IR LED Array
IR Intensity	180 ~ 220m
Pan and Tilt	
Pan / Tilt Range	Automatically adjust according to zoom ratio
Pan / Tilt Speed	360° Endless / -15° ~ 90° (Auto Flip)
Proportional Zoom	Pan manual speed: 0.1° ~ 200°/s; Pan preset speed: 220°/s
Presets	Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 200°/s
Patrol	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Pattern Scan	256
Power-off Memory	8 Patrols scheme, up to 32 presets per patrol
Auto Guard	4 Scan paths, each path can record 10 minutes of operation path
PT Limit	Power-off memory / Power-on recovery
3D Positioning	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan /
Electronic compass	Panorama scan
Wiper	Manual / Scan / Pan
Video	
Compression	PTZ control with mouse click and drag
Image Resolution	Built-in O-sensor
Frame Rate	Supported
Bitrate	H.265 / H.264 / MJPEG
Bitrate Control	Main stream: 1080p
Multi-stream	Secondary stream: D1
Caption	Main stream: 1080p@60fps
Privacy Masking	Secondary stream: D1@30fps
Motion Detection	32kbps ~ 16Mbps
Video Freeze	VBR / CBR
ROI	Supported
Digital Noise Reduction	Supported
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (Includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214x 379mm / Φ8.43" x 14.92"

IPC425-F233-NL

2.0MP HD 33x Network Laser Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

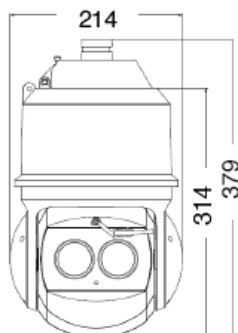
- 33x optical zoom
- Laser distance up to 500m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor
- Wiper

Dimensions

Units: mm

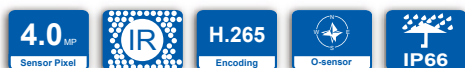


Specifications

IPC425-F233-NL	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.34° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Laser	
Laser Distance	300 ~ 500m
Laser Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 200°/s; Pan preset speed: 220°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 200°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Wiper	Supported
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (Laser on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214x 379mm / Φ8.43" x 14.92"

IPC445-H120-N

4.0MP HD 20x Speed Dome Camera



Features

Excellent Image Quality

- 4.0 Megapixel 1/3" progressive scan CMOS sensor
- High definition and smooth picture, 2592 x 1520@20fps, 2560 x 1440@25fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.02lux with color picture
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

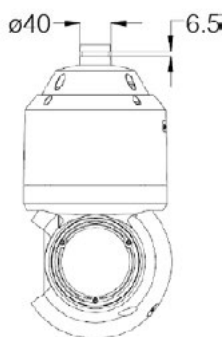
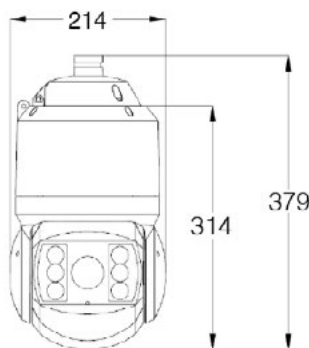
- 20x optical zoom
- IR distance up to 180m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out
- Built-in O-sensor

Dimensions

Units: mm

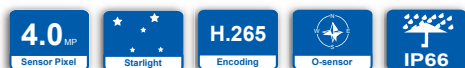


Specifications

IPC445-H120-N	
Camera	
Image Sensor	1/3" progressive scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.02lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	> 55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 3.64° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.0 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	6 pcs IR LED Array
IR Distance	120 ~ 180m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 200°/s; Pan preset speed: 220°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 200°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 2592 x 1520 Secondary stream: D1
Frame Rate	Main stream: 2592 x 1520@20fps, 2560 x 1440@25fps, 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Ø214x 379mm / Ø8.43" x 14.92"

IPC445-F233-N

4.0MP Starlight & Ultra WDR HD 33x IR Speed Dome Camera



Features

Excellent Image Quality

- 4.0 Megapixel 1/1.8" progressive scan CMOS sensor
- High definition and smooth picture, 2560 x 1440@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0005lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Face detection and capturing
- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

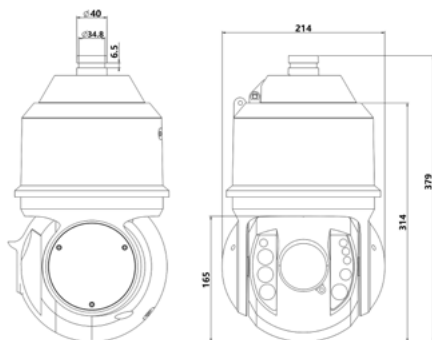
- 33x optical zoom
- IR distance up to 220m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out / RS485
- Built-in O-sensor

Dimensions

Units: mm

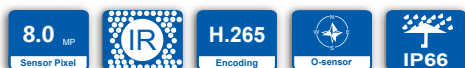


Specifications

IPC445-F233-N	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.0005lux @ (F1.5, AGC ON) B/W: 0.0001lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight	Off / WDR / BLC / HLC
Compensation	
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	70° ~ 3.8° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	9 pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 300°/s Tilt manual speed: 0.1° ~ 160°/s; Tilt preset speed: 240°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	512
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 2560 x 1440 Secondary stream: D1
Frame Rate	Main stream: 2560 x 1440@30fps, 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise	3D noise reduction
Reduction	
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Programming	
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V (p-p) / 75Ω
Memory Slot	SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214x 379mm / Φ8.43" x 14.92"

IPC485-H233-N

8.0MP Ultra WDR HD 33x Network IR Speed Dome Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/1.7" progressive scan CMOS sensor
- High definition and smooth picture, 4096 x 2160@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.02lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

- 33x optical zoom
- IR distance up to 220m

Abundant Functions and Features

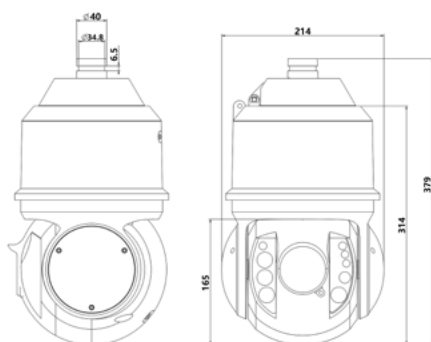
- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out
- Built-in O-sensor

Specifications

IPC485-H233-N	
Camera	
Image Sensor	1/1.7" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.02lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	70° ~ 3.8° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	9 pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan manual speed	0.1° ~ 240°/s; Pan preset speed: 300°/s
Tilt manual speed	0.1° ~ 160°/s; Tilt preset speed: 240°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Presets	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Main stream	4K (4096x2160)
Image Resolution	Secondary stream: D1
Main stream	4K@30fps
Frame Rate	Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V (p-p) / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214x 379mm / Φ8.43" x 14.92"

Dimensions

Units: mm



IPC489-F240-N

8.0MP Starlight & Ultra WDR HD 40x IR Speed Dome Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/1.8" progressive scan CMOS sensor
- UHD 4K@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0005lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Face detection and capturing
- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

- 40x optical zoom
- IR distance up to 220m

Abundant Functions and Features

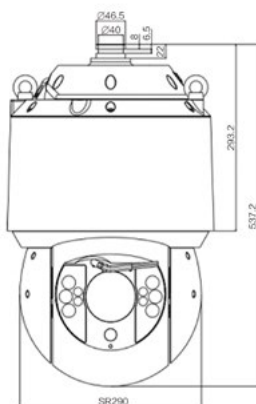
- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / RS485
- Built-in O-sensor

Specifications

IPC489-F240-N	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.0005lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	B/W: 0.0001lux @ (F1.5, AGC ON); 0lux with IR
Day / Night	1 ~ 1/30,000s
Wide Dynamic Range	Auto (ICR) / Color / B/W
S/N Ratio	Ultra WDR, >=120dB
White Balance	>=55dB
Gain Control	Auto / Manual
Backlight Compensation	Auto / Manual
Lens	Off / WDR / BLC / HLC
Focal Length	6.5 ~ 260mm, 40x optical
Zoom Speed	Approx 4s (Optical)
Angle of View	58.3° ~ 2.6° (Wide~Tele)
Min. Object Distance	1000 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F5.3 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	10 pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 240°/s
Proportional Zoom	Tilt manual speed: 0.1° ~ 200°/s; Tilt preset speed: 200°/s
Preset	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Patrol	512
Pattern Scan	8 Patrols scheme, up to 32 presets per patrol
Power-off Memory	4 Scan paths, each path can record 10 minutes of operation path
Auto Guard	Power-off memory / Power-on recovery
PT Limit	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan /
3D Positioning	Panorama scan
Electronic compass	Manual / Scan / Pan
Video	PTZ control with mouse click and drag
Compression	Built-in O-sensor
Image Resolution	H.265 / H.264 / MJPEG
Frame Rate	Main stream: 4K (3840x2160)
Bitrate	Secondary stream: D1
Bitrate Control	Main stream: 3840 x 2160@30fps, 1080p@60fps
Multi-stream	Secondary stream: D1@60fps
Caption	256kbps ~ 32Mbps
Privacy Masking	VBR / CBR
Motion Detection	Supported
Video Freeze	Up to 4 zones
ROI	Up to 4 zones
Digital Noise Reduction	Supported
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface, 1 x FC
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	8 x Input / 2 x Output
Memory Slot	2 x SD card slot, supports up to 256GB / slot
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 50W (IR on)
Mechanical	
Weight	18 kg / 39.7lb (Gross Weight)
Dimensions	Ø290 x 529mm / Ø11.42" x 20.83"

Dimensions

Units: mm



IPC489-F250-NL

8.0MP Starlight & Ultra WDR HD 50x Laser Speed Dome Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/1.8" progressive scan CMOS sensor
- UHD 4K@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0005lux with color picture
- 120dB Ultra WDR
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Face detection and capturing
- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

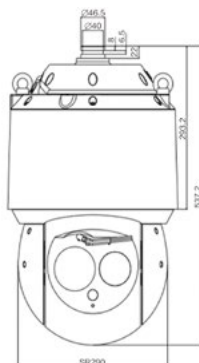
- 50x optical zoom
- Laser distance up to 500m

Abundant Functions and Features

- SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / RS485
- Built-in O-sensor

Dimensions

Units: mm



Specifications

IPC489-F250-NL	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.0005lux @ (F1.5, AGC ON) B/W: 0.0001lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	5.7 ~ 285mm, 50x optical
Zoom Speed	Approx 4s (Optical)
Angle of View	65.3° ~ 1.6° (Wide~Tele)
Min. Object Distance	300 ~ 2000mm (Wide~Tele)
Max. Aperture Ratio	F1.4 (Wide) / F4.2 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Laser	
Laser Distance	300 ~ 500m
Laser Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 240°/s Tilt manual speed: 0.1° ~ 200°/s; Tilt preset speed: 200°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	512
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 4K (3840x2160) Secondary stream: D1
Frame Rate	Main stream: 3840 x 2160@30fps, 1080p@60fps Secondary stream: D1@60fps
Bitrate	256kbps ~ 32Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Face
Captured Picture	Face
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface, 1 x FC
Audio In / Out	1 x Line In / 1 x Line out
Control	1 x RS485
Alarm In / Out	8 x Input / 2 x Output
Memory Slot	2 x SD card slot, supports up to 256GB / slot
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 50W (Laser on)
Mechanical	
Weight	18 kg / 39.7lb (Gross Weight)
Dimensions	Φ290 × 529mm / Φ11.42" × 20.83"

IPC422

2.0MP Mini Ultra WDR & Starlight Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.8" progressive scan CMOS sensor
- High definition and smooth picture, 1920 x 1080@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP67, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

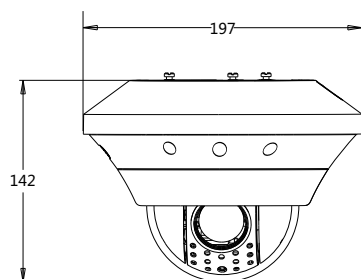
- 12x optical zoom (-F112)
- 5x optical zoom (-F105)
- IR distance up to 50m

Abundant Functions and Features

- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- PoE (-F105-NP / -F112-NP)
- IK10
- IP67

Dimensions

Units: mm



Specifications

	IPC422-F105-N	IPC422-F105-NP	IPC422-F112-N	IPC422-F112-NP
Camera				
Image Sensor	1/1.8" progressive scan CMOS			
Pixels	2.0 Megapixel			
Min. Illumination	Color: 0.001lux @ (F1.6, AGC ON)			
Shutter Speed	B/W: 0.0001lux @ (F1.6, AGC ON); 0lux with IR			
Day / Night	1 ~ 1/30,000s			
Wide Dynamic Range	Auto (ICR) / Color / B/W			
S/N Ratio	Ultra WDR, >=120dB			
White Balance	>57dB			
Gain Control	Auto / Manual			
Backlight Compensation	Off / WDR / BLC / HLC			
Lens				
Focal Length	2.7 ~ 13.5mm, 5x optical		5.3 ~ 63.6mm, 12x optical	
Zoom Speed	Approx 3s (Optical)			
Angle of View	113.06°~ 30.61° (Wide~Tele)		58.2°~ 4.83° (Wide~Tele)	
Min. Object Distance	10 ~ 1500mm (Wide~Tele)			
Max. Aperture Ratio	F1.6 ~ F2.8			
Focus Control	Auto / Manual / Semi-Automatic			
Infrared				
IR LED	4 pcs IR LED Array			
IR Distance	30m		50m	
IR Intensity	Automatically adjust according to zoom ratio			
Pan and Tilt				
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)			
Pan / Tilt Speed	Pan manual speed: 0.1°~220°/s; Pan preset speed:220°/s Tilt manual speed: 0.1°~160°/s ; Tilt preset speed: 160°/s			
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples			
Preset	256			
Patrol	8 Patrols scheme, up to 32 presets per patrol			
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path			
Power-off Memory	Power-off memory / Power-on recovery			
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan			
PT Limit	Manual / Scan / Pan			
3D Positioning	PTZ control with mouse click and drag			
Electronic compass	Built-in O-sensor			
Video				
Compression	H.265 / H.264 / MJPEG			
Image Resolution	Main stream: 1080p Secondary stream: D1			
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps			
Bitrate	32~16384Kbps			
Bitrate Control	VBR / CBR			
Multi-stream	Supported			
Caption	Date and time / Alarm / Direction / Customized			
Privacy Masking	Up to 4 zones			
Motion Detection	Up to 4 zones			
Video Freeze	Supported			
ROI	Supported			
Digital Noise Reduction	3D noise reduction			
Digital Defog	Supported			
Image Flip	Flip / Mirror			
Audio				
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726			
Bitrate	32kbps ~ 64kbps			
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute			
Network				
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)			
User Interface	IPC Control (IE, Firefox, Chrome)			
Max. User Access	Max. 10 Users (includes 2 internal)			
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI			
Automatic Network Replenishment (ANR)	Supported			
Alarm				
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error			
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge			
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm			
Interfaces				
Ethernet	10/100M, RJ45 interface			
Audio In / Out	1 x Line in / 1 x Line out			
Control	1 x Input / 1 x Output			
Alarm In / Out	1 x BNC, 1.0V [p-p] / 75Ω			
Video Out	Built-in SD card (optional), supports up to 256GB			
Memory Slot	SD card slot, supports up to 128GB			
Environmental				
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F			
Operating Humidity	10% ~ 95%			
Protection Level	IK10, IP67, TVS 6000V lightning protection, surge protection and voltage transient protection			
Electrical				
Power	12V DC ± 25% (Power Adapter Not Included)	12V DC ± 25% / PoE (IEEE802.3af)	12V DC ± 25% (Power Adapter Not Included)	12V DC ± 25% / PoE (IEEE802.3af)
Power Consumption	Max. 30W (IR on)			
Mechanical				
Weight	2 kg / 4.4lb (Gross Weight)			
Dimensions	Φ197 × 142mm / Φ7.76" × 5.59"			

IPC980

Panoramic + Laser PTZ Speed Dome Camera



Features

Excellent Image Quality

- 360° Panoramic + PTZ Camera (-T850)
- 180° Panoramic + PTZ Camera (-U850)
- 16 Megapixel 12 x 1/1.8" progressive scan CMOS sensor (-T850)
- 8.0 Megapixel 6 x 1/1.8" progressive scan CMOS sensor (-U850)
- UHD 2 x 4096x1800@30fps (-T850)
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- Laser automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

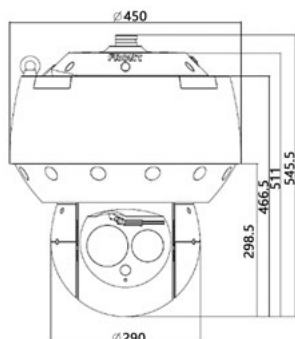
- 50x optical zoom
- Laser distance up to 1500m (-T850)

Abundant Functions and Features

- 2 x Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- Built-in GPS module

Dimensions

Units: mm



Specifications

	IPC980-T850-NL	IPC980-U850-NL
Panoramic Camera		
Image Sensor	12 x 1/1.8" progressive scan CMOS	6 x 1/1.8" progressive scan CMOS
Pixels	16 Megapixel	8.0 Megapixel
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 2 x 4096×1800	Main stream: 4096×1800
	Secondary stream: D1	
Frame Rate	Main stream: 2 x 4096×1800@30fps	Main stream: 4096×1800@30fps
	Secondary stream: D1@30fps	
Bitrate	32~16384Kbps	
Min. Illumination	Color: 0.005lux @ (F1.6, AGC ON) B/W: 0.0005lux @ (F1.6, AGC ON); 0lux with IR	
Focal Length	4mm	
Angle of View	360°	180°
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>57dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
PTZ Camera		
Image Sensor	1/1.8" progressive scan CMOS	
Pixels	8.0 Megapixel	
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 4K (4096×2160)	
	Secondary stream: D1	
Frame Rate	Main stream: 4K@30fps / 1080p@60fps	
	Secondary stream: D1@30fps	
Bitrate	32~16384Kbps	
Min. Illumination	Color: 0.005lux @ (F1.2, AGC ON) B/W: 0.0005lux @ (F1.2, AGC ON); 0lux with IR	
Focal Length	5.7 ~ 285mm, 50x optical	
Zoom Speed	Approx 3s (Optical)	
Angle of View	42°~ 1.0° (Wide~Tele)	
Min. Object Distance	10 ~ 1500mm (Wide~Tele)	
Focus Control	Auto / Manual / Semi-Automatic	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>57dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Laser		
Laser Distance	1500m	1000m
Laser Intensity	Automatically adjust according to zoom ratio	
PTZ Camera Pan and Tilt		
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)	
Pan / Tilt Speed	Pan manual speed: 0.1°~240°/s; Pan preset speed:240°/s Tilt manual speed: 0.1°~200°/s ; Tilt preset speed: 200°/s	
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples	
Preset	256	
Patrol	8 Patrols scheme, up to 32 presets per patrol	
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path	
Power-off Memory	Power-off memory / Power-on recovery	
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan	
PT Limit	Manual / Scan / Pan	
3D Positioning	PTZ control with mouse click and drag	
Electronic compass	Built-in O-sensor	
Video		
Bitrate Control	VBR / CBR	
Multi-stream	Supported	
Caption	Date and time / Alarm / Direction / Customized	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 20 Users (includes 2 internal)	
Location Technology	GPS	
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Alarm		
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error	
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Fiber	1000M, FC interface, Single-mode	
GPS	Build-in GPS module	
Audio In / Out	1 x Line in / 1 x Line out	
Control	1 x RS485	
Alarm In / Out	8 x Input / 2 x Output	
Memory Slot	Built-in 2 x SD card (optional), supports up to 256GB/slot	
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection	
Electrical		
Power	48V DC ± 25% (Power Adapter Included)	
Power Consumption	Max. 120W (IR on)	
Mechanical		
Weight	40 kg / 88.2lb (Gross Weight)	
Dimensions	Φ290 × 545.5mm / Φ11.4" × 21.47"	

IPC820-FB

2.0MP Explosion-Proof HD 20x Network Zoom Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Explosion-Proof

- Stainless steel enclosure with explosion-proof of Exd II CT6 / DIP A20 TA,T6
- Withstands operation temperatures of -30°C ~ 60°C
- IP68, TVS 6000V lightning protection, surge protection and voltage transient protection

Abundant Functions and Features

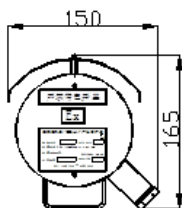
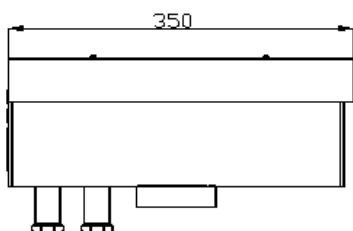
- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream

Specifications

IPC820-FB	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>53dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 3.64° (Wide~Tele)
Min. Object Distance	300 ~ 1000mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F3.5 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent Alarm Events	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Built-in Micro SD card (optional), up to 128GB
Environmental	
Operating Temperature	-30°C ~ 60°C / -22°F ~ 140°F
Operating Humidity	10% ~ 90%
Protection Level	IP68, TVS 6000V lightning protection, surge protection and voltage transient protection
Explosion-proof mark	Exd II CT6 / DIP A20 TA,T6
Electrical	
Power	-220: 220V AC ± 10% -110: 110V AC ± 10%
Power Consumption	Max. 5W
Mechanical	
Weight	12 kg / 24.46lb (Gross Weight)
Dimensions	150 x 165 x 350mm / 5.91" x 6.5" x 13.78"
Mounting Bracket	Bracket included

Dimensions

Units: mm



IPC421-FB

2.0MP Explosion-Proof HD 20x Network Speed Dome Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- HLC / 3D noise reduction

Intelligent Functions

- Intelligent Functions
- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

Explosion-Proof

- Stainless steel enclosure with explosion-proof of Exd II CT6 / DIP A20 TA,T6
- Withstands operation temperatures of -40°C ~ 60°C
- IP68, TVS 6000V lightning protection, surge protection and voltage transient protection

Abundant Functions and Features

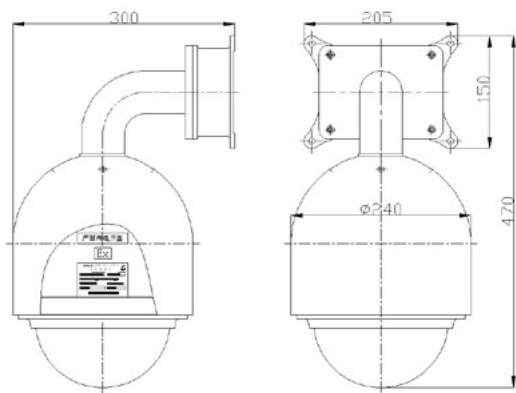
- SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream

Specifications

IPC421-FB	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>53dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	61° ~ 3.64° (Wide~Tele)
Min. Object Distance	300 ~ 1000mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F3.5 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Pan and Tilt	
Pan / Tilt Range	360° Endless / 0° ~ 90°
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 250°/s; Pan preset speed: 450°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 350°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent Alarm Events	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Built-in SD card (optional), supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP68, TVS 6000V lightning protection, surge protection and voltage transient protection
Explosion-proof mark	Exd II CT6 / DIP A20 TA,T6
Electrical	
Power	-220: 220V AC ± 10% -110: 110V AC ± 10%
Power Consumption	Max. 55W (Heater on)
Mechanical	
Weight	20 kg / 44.09lb (Gross Weight)
Dimensions	Φ240 × 470mm / Φ9.45" × 18.5"
Mounting Bracket	Bracket included

Dimensions

Units: mm



IPC520-F233-FBIR

2.0MP Explosion-Proof HD 20x Network IR PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- 120dB Ultra WDR
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering

Large Scale

- 33x optical zoom
- IR distance up to 220m

Explosion-Proof

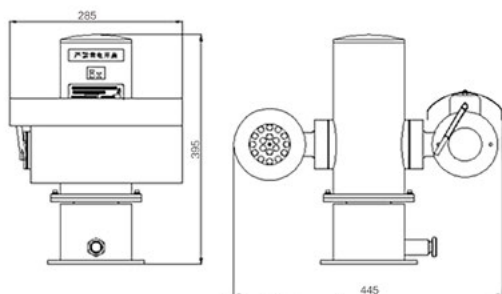
- Stainless steel enclosure with explosion-proof of Exd CT6 / DIP A20 TA,T6
- Withstands operation temperatures of -40°C ~ 70°C
- IP68, TVS 6000V lightning protection, surge protection and voltage transient protection

Abundant Functions and Features

- SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream

Dimensions

Units: mm



Specifications

IPC520-F233-FBIR	
Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.34° (Wide~Tele)
Min. Object Distance	100 ~ 1000mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -90° ~ 90°
Pan / Tilt Speed	Pan manual speed: 1° ~ 40°/s; Pan preset speed: 40°/s Tilt manual speed: 0.1° ~ 40°/s; Tilt preset speed: 40°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPV4, IPV6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Built-in SD card (optional), supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP68, TVS 6000V lightning protection, surge protection and voltage transient protection
Explosion-proof mark	Exdr II CT6 / DIP A20 TA,T6
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 55W (IR on)
Mechanical	
Weight	11 kg / 24.25lb (Gross Weight)
Dimensions	285 x 395 x 445mm / 11.2" x 15.55" x 17.52"
Mounting Bracket	Bracket included

IPC523-F255-NL

2.0MP HD 55x Network Laser PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

- 55x optical zoom
- Laser distance up to 1500m

Abundant Functions and Features

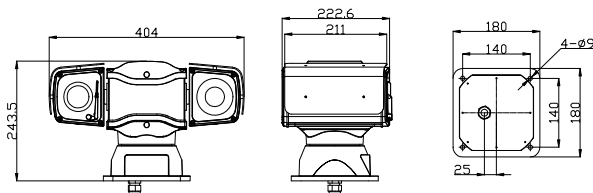
- SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out
- Wiper supported

Specifications

IPC523-F255-NL	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON); 0Lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	6.6 ~ 363mm, 55x optical
Zoom Speed	Approx 4s (Optical)
Angle of View	43.8° ~ 1° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F6.0 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Laser	
Laser Distance	1500m
Laser Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / - 85° ~ 85° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 120°/s; Pan preset speed: 120°/s Tilt manual speed: 0.1° ~ 30°/s; Tilt preset speed: 100°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Pan scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Wiper	Supported
Wiper	Supported
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (include 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supports
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Built-in Micro SD card (optional), up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 70W (Laser on)
Mechanical	
Weight	10kg / 22lb (Gross Weight)
Dimensions	404 × 222.6 × 243.5mm / 15.9" × 8.76" × 9.59"

Dimensions

Units: mm



IPC523-F255-NR

2.0MP HD 55x Optical & Thermal Bi-spectrum PTZ Camera



Features

Excellent Image Quality

- Vanadium oxide uncooled focal plane arrays Thermal Sensor
- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps (Optical)
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Thermal Module

- High sensitivity thermal module, 800 x 600@30fps (IPC523-F255-NR150)
- Up to 9 palettes of adjustable color

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

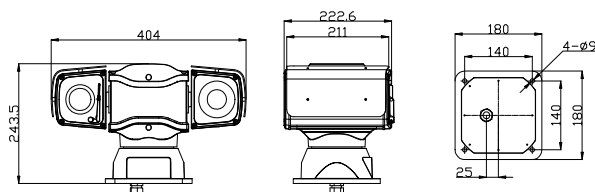
- 55x optical zoom

Abundant Functions and Features

- SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 video streams
- Bi-directional audio / alarm in and out / video out
- Wiper supported

Dimensions

Units: mm



Specifications

	IPC523-F255-NR025	IPC523-F255-NR050	IPC523-F255-NR150
Thermal Module			
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
Resolution	400 x 300		800x600
Lens	25mm	50mm	
Detector Pitch	17μm		
NETD	< 40mk (@25°C, F#=1.0)		
Response Waveband	8μm ~ 14μm		
Color mode	up to 9 modes		
Optical Camera			
Image Sensor	1/2.8" Progressive Scan CMOS		
Pixels	2.0 Megapixel		
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON); 0Lux with IR		
Shutter Speed	1 ~ 1/30,000S		
Day / Night	Auto (ICR) / Color / B/W		
Wide Dynamic Range	Ultra WDR, >=120dB		
S/N Ratio	>55dB		
White Balance	Auto / Manual		
Gain Control	Auto / Manual		
Backlight Compensation	Off / WDR / BLC / HLC		
Lens			
Focal Length	6.6 ~ 363mm, 55x optical		
Zoom Speed	Approx 4s (Optical)		
Angle of View	43.8°~ 1° (Wide~Tele)		
Min. Object Distance	300 ~ 1500mm (Wide~Tele)		
Max. Aperture Ratio	F1.6 (Wide) / F6.0(Tele)		
Focus Control	Auto / Manual / Semi-Automatic		
Pan and Tilt			
Pan / Tilt Range	360° Endless / - 85° ~ 85° (Auto Flip)		
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 120°/s; Pan preset speed: 120°/s Tilt manual speed: 0.1° ~ 30°/s; Tilt preset speed: 100°/s		
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples		
Preset	256		
Patrol	8 Patrols scheme, up to 32 presets per patrol		
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path		
Power-off Memory	Power-off memory / Power-on recovery		
Auto Guard	Path / Preset / Pan scan		
PT Limit	Manual / Scan / Pan		
3D Positioning	PTZ control with mouse click and drag		
Wiper	Supported		
Video			
Compression Format	H.265 / H.264 / MJPEG		
Image Resolution	Main stream: 1080p Secondary stream: D1		
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps		
Bitrate	32kbps ~ 16Mbps		
Bitrate Control	VBR / CBR		
Multi stream	Supported		
Caption	Date and time / Alarm / Direction / Customized		
Privacy Masking	Up to 4 zones		
Motion Detection	Up to 4 zones		
Video Freeze	Supported		
ROI	Supported		
Digital Noise Reduction	3D noise reduction		
Digital Defog	Supported		
Image Flip	Flip / Mirror		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bitrate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)		
User Interface	IPC Control (IE, Firefox, Chrome)		
Max. User Access	Max. 10 Users (include 2 internal)		
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI		
Automatic Network Replenishment (ANR)	Supported		
Alarm			
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error		
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge		
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm		
Interfaces			
Ethernet	10/100M, RJ45 interface		
Audio In / Out	1 x Line in / 1 x Line out		
Alarm In / Out	1 x Input / 1 x Output		
Video Out	1 x BNC, 1.0V [p-p] / 75Ω		
Memory Slot	Built-in Micro SD card (optional), up to 128GB		
Environmental			
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F		
Operating Humidity	10% ~ 95%		
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection		
Electrical			
Power	24V AC / 3A (Power adapter included)		
Power Consumption	Max. 70W (Laser on)		
Mechanical			
Weight	10kg / 22lb (Gross Weight)		
Dimensions	404 x 222.6 x 243.5mm / 15.9" x 8.76" x 9.59"		

IPC525-NL

2.0MP HD Long Range Laser PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.9" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 60°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
- More than 30,000 hours operational lifespan of the laser illuminator

Large Scale

- 60x optical zoom (-F160-NL3, -F260-NL5)
- Barlow lens supported (-F160-NL3, -F260-NL5)
- Long range night vision up to 5Km (-F260-NL5)

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Strong PT structure has smooth movements even with a 100kg carry-on load
- Optical defog
- Built-in O-sensor
- AR and AF housing glass
- Aviation connector

Specifications

IPC525-NL	
Camera	
Image Sensor	1/1.9" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON); 0Lux with Laser
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	-F132-NL2: 15.6 ~ 500mm, 32x optical -F160-NL3: 12.5 ~ 750mm, 60x optical, 2x Barlow lens supported -F260-NL5: 16.7 ~ 1000mm, 60x optical, 2x Barlow lens supported
Zoom Speed	Approx 3 ~ 10s (Optical)
Angle of View	-F132-NL2: 26.73° ~ 0.75° (Wide~Tele) -F160-NL3: 28.71° ~ 0.49° (Wide~Tele) -F260-NL5: 23.01° ~ 0.41° (Wide~Tele)
Min. Object Distance	5000mm (Wide)
Max. Aperture Ratio	F3.5 (Wide) / F16 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Auto Back Focus	Auto
Optical Defog	Supported
Laser	
Wave Length	808nm
Power Consumption	-F132-NL2: 15W, -F160-NL3: 20W, -F260-NL5: 25W
Laser Distance	-F132-NL2: 2Km, -F160-NL3: 3Km, -F260-NL5: 5Km
Laser Intensity	Automatically adjust according to zoom ratio
Illuminating Angle	0.3° ~ 30° continuous change
Vision	
Day	-F132-NL2: 3Km, -F160-NL3: 5Km, -F260-NL5: 10Km
Night	-F132-NL2: 2Km, -F160-NL3: 3Km, -F260-NL5: 5Km
Pan and Tilt	
Pan / Tilt Range	360° Endless / - 60° ~ 60° (Auto Flip)
Pan manual speed	0.01° ~ 15°/s; Pan preset speed: 15°/s
Tilt manual speed	0.01° ~ 10°/s; Tilt preset speed: 10°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Path / Preset / Pan scan	Path / Preset / Pan scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Location Sensor	GPS
Shield	
Housing Glass	AR & AF glass
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (include 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Alarm	1 x Output
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V DC ± 25% (Power adapter included)
Power Consumption	-F132-NL2: Max. 110W (Laser on) -F160-NL3: Max. 115W (Laser on) -F260-NL5: Max. 120W (Laser on)
Mechanical	
Weight	65kg / 143.3lb (Gross Weight)
Dimensions	775 x 424 x 691mm / 30.51" x 16.69" x 27.2"

Dimensions

Units: mm



IPC525-NL-R

2.0MP HD Thermal & Optical Bi-spectrum Laser PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.9" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps (Optical), 800 x 600@30fps (Thermal)
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.001lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Thermal Module

- High sensitivity thermal module, 800 x 600@30fps
- Up to 9 palettes of adjustable color

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 60°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
- More than 30,000 hours operational lifespan of the laser illuminator

Large Scale

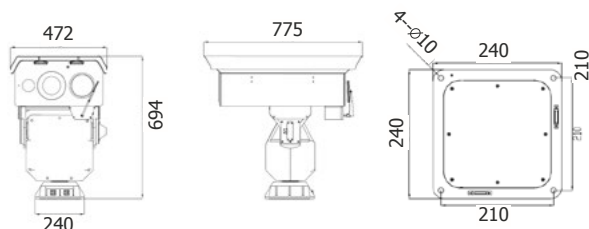
- 62x optical zoom (-F160-NL5)
- Long range night vision up to 5Km (-F160-NL5)

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Strong PT structure has smooth movements even with a 100kg carry-on load
- Optical defog
- Built-in O-sensor
- AR and AF housing glass
- Aviation connector

Dimensions

Units: mm



Specifications

Thermal Module	IPC525-NL-R
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	800 x 600
Lens	-F132-NL3-R75: 75mm -F160-NL5-R100: 100mm
Detector Pitch	17um
NETD	< 40mk (@25°C, F#=1.0)
Response Waveband	8um ~ 14um
Color mode	up to 9 modes
Optical Camera	
Image Sensor	1/1.9" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON); 0Lux with Laser
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	-F132-NL3-R75: 15.6 ~ 500mm, 32x optical -F160-NL5-R100: 12.5 ~ 775mm, 62x optical
Zoom Speed	Approx 3 ~ 10s (Optical)
Angle of View	-F132-NL3-R75: 26.73° ~ 0.75° (Wide~Tele) -F160-NL5-R100: 28.71° ~ 0.49° (Wide~Tele)
Min. Object Distance	5000mm (Wide)
Max. Aperture Ratio	F3.5 (Wide) / F16 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Auto Back Focus	Auto
Optical Defog	Supported
Laser	
Wave Length	808nm
Power Consumption	-F132-NL3-R75: 20W -F160-NL5-R100: 25W
Laser Distance	-F132-NL3-R75: 3Km -F160-NL5-R100: 5Km
Laser Intensity	Automatically adjust according to zoom ratio
Illuminating Angle	0.3° ~ 30° continuous change
Vision	
Day	-F132-NL3-R75: 5Km -F160-NL5-R100: 10Km
Night	-F132-NL3-R75: 3Km -F160-NL5-R100: 5Km
Pan and Tilt	
Pan / Tilt Range	360° Endless / - 60° ~ 60° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.01° ~ 15°/s; Pan preset speed: 15°/s Tilt manual speed: 0.01° ~ 10°/s; Tilt preset speed: 10°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Patrol	256
Pattern Scan	8 Patrols scheme, up to 32 presets per patrol
Power-off Memory	4 Scan paths, each path can record 10 minutes of operation path
Auto Guard	Power-off memory / Power-on recovery
PT Limit	Path / Preset / Pan scan
3D Positioning	Manual / Scan / Pan
Electronic compass	PTZ control with mouse click and drag
Location Sensor	Built-in O-sensor
Shield	GPS
Housing Glass	AR & AF glass
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (include 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line In / 1 x Line out
Alarm	1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	48V DC ± 25% (Power adapter included)
Power Consumption	Max. 160W (Laser on)
Mechanical	
Weight	70kg / 154.3lb (Gross Weight)
Dimensions	775 x 424 x 694mm / 30.51" x 16.69" x 27.32"

IPC528-F360-NL5-R150Z

2.0MP HD Varifocal Thermal + Optical Bi-spectrum Laser PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/1.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps (Optical), 800 x 600@30fps (Thermal)
- H.265 video codec, saves up to 50% bandwidth and storage
- Low illumination, 0.005Lux with color picture
- 120dB Ultra WDR
- Laser automatically adjusts
- HLC / 3D noise reduction

Thermal Module

- High sensitivity thermal module, 800 x 600@30fps
- Up to 9 palettes of adjustable color

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 60°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
- More than 30,000 hours operational lifespan of the laser illuminator

Large Scale

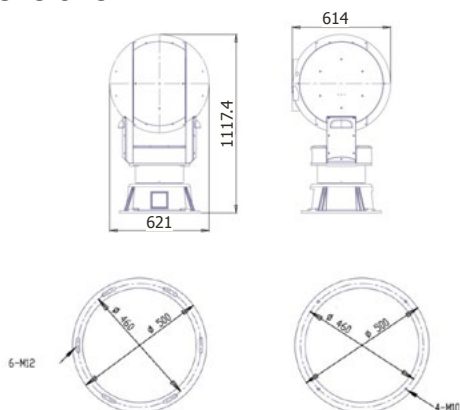
- 60x optical zoom
- Long range night vision up to 5Km

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Strong PT structure has smooth movements even with a 100kg carry-on load
- Optical defog
- Built-in O-sensor
- AR and AF housing glass
- Aviation connector

Dimensions

Units: mm

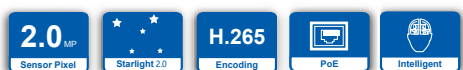


Specifications

IPC528-F360-NL5-R150Z	
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	800 x 600
Lens	15 ~ 150mm, 10x thermal
Pixel Interval	17μm
NETD	< 40mk (@25°C, F#=1.0)
Response Waveband	8μm ~ 14μm
Color mode	up to 9 modes
Optical Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.005Lux @ (F3.0, AGC ON) B/W: 0.0005Lux @ (F3.0, AGC ON); 0Lux with Laser
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	> 57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	16.7 ~ 1000mm, 60x optical
Zoom Speed	Approx 3 ~ 10s (Optical)
Angle of View	28.43° ~ 0.29° (Wide~Tele)
Min. Object Distance	5000mm (Wide)
Max. Aperture Ratio	F3.5 (Wide) / F16 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Auto Back Focus	Auto
Optical Defog	Supported
Laser	
Wave Length	808nm
Power Consumption	25W
Laser Distance	5Km
Laser Intensity	Automatically adjust according to zoom ratio
Illuminating Angle	0.3° ~ 30° continuous change
Vision	
Day	10Km
Night	5Km
Pan and Tilt	
Pan / Tilt Range	360° Endless / - 60° ~ 60° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.01° ~ 180°/s; Pan preset speed: 180°/s Tilt manual speed: 0.01° ~ 90°/s; Tilt preset speed: 90°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Pan scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Location Sensor	GPS
Shield	
Housing Glass	AR & AF glass
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (include 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Alarm	4 x Input / 2 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	48V DC ± 25% (Power adapter included)
Power Consumption	Max. 180W (Laser on)
Mechanical	
Weight	150kg / 330.69lb (Gross Weight)
Dimensions	614 × 621 × 1117.4mm / 24.17" × 24.45" × 43.99"

IPC123-Fi4N

2.0MP Human Recognitive HD Network Box Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Up to 36 targets simultaneously
- Target capturing and characters recognizing
- Bi-directional people counting
- Built-in picture comparison algorithm, best picture selection
- Face Intelligence Exposure

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Auto flip function

Abundant Functions and Features

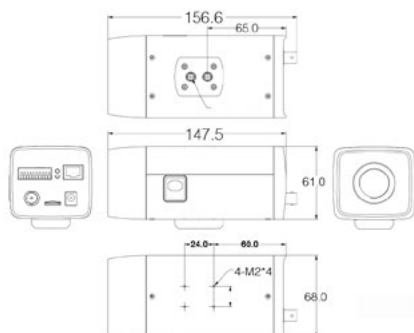
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Built-in Mic
- Built-in O-sensor
- PoE

Specifications

IPC123-Fi4N	
Camera	
Image Sensor	1/2" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.0005Lux @ (F1.2, AGC ON) B/W: 0.0001Lux @ (F1.2, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens (not included)	
Mount Type	C / CS
Auto Iris	DC drive / P-Iris
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270° / Auto flip (Built-in G-sensor)
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face up to 36 targets simultaneously
Captured Picture	Person, Face, Full view Built-in picture comparison algorithm, best picture selection
Target Characters	Direction / Speed level
People Counting	Bi-directional
Face Enhancement	Face Intelligence Exposure
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Intelligent	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line In / 1 x Line out / 1 x Built-in Mic
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Electrical	
Power	AC 24V ± 10% / DC 12V ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 6W
Mechanical	
Weight	0.5 kg / 1.1lb (Gross Weight)
Dimensions	147.5 x 68 x 61mm / 5.81" x 2.68" x 2.40"

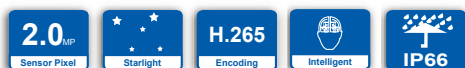
Dimensions

Units:mm



IPC2241-Gi4NW/Gi4WN-SIR

2.0MP Human Recognitive HD Network Mini IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- WDR / HLC / 3D noise reduction

Recognitive Functions

- Up to 36 targets simultaneously
- Target capturing and characters recognizing
- Built-in picture comparison algorithm, best picture selection

Integrated High Efficiency IR

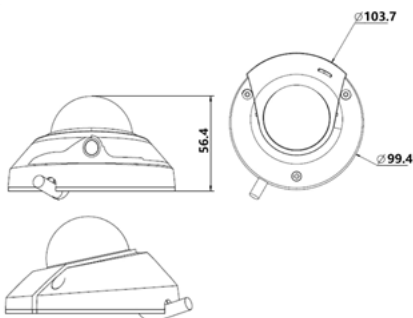
- Industrial IR LED with long operational lifespan
- 15m IR distance
- Smart IR function

Abundant Functions and Features

- Abundant Functions and Features
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / Built-in Mic / alarm in and out / RS485
- Wi-Fi supported
- 3G / 4G supported (-Gi4WG only)
- Dual-stream (1080p + D1)
- Anti-fog glass
- EN50155
- PoE
- IK10
- IP67

Dimensions

Units:mm

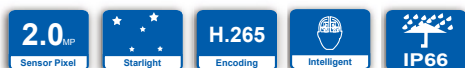


Specifications

	IPC2241-Gi4NW-SIR15	IPC2241-Gi4WG-SIR15
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.002lux @ (F2.0, AGC ON) B/W: 0.0002lux @ (F2.0, AGC ON)	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>58dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Lens		
Mount Type	M12	
Focal Length	3.6mm (-L0360) / 6mm (-L0600)	
Angle of View	78.6° (-L0360) / 53.2° (-L0600)	
Adjustment Range	Pan: -45° ~ 45° / Tilt: 0° ~ 90° / Rotation: 0° ~ 360°	
Infrared		
IR Distance	15m	
IR Intensity	Smart IR	
Video		
Compression	Smart H.265 / H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps	
Bitrate	32kbps ~ 8Mbps	
Bitrate Control	VBR / CBR	
Dual-stream	Supported	
Caption	Date and time / Alarm / Customized	
Privacy Masking	Up to 4 zones	
Motion Detection	Up to 4 zones	
ROI	Supported	
Digital Noise Reduction	3D noise reduction	
Image Flip	Flip / Mirror	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Network Protocols	TC/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Wireless	Wi-Fi	
Wi-Fi	802.11b/g/n 2.4G, Wi-Fi AP	
3G / 4G Frequency Band	/	FDD-LTE: B1 / B3 / B5 / B8 TDD-LTE: B38 / B39 / B40 / B41 WCDMA: B1 / B8 GSM / GPRS / EDGE: 900 / 1800MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BCO
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Recognitive Functions		
Target Detection	Person, Face up to 36 targets simultaneously	
Captured Picture	Person, Face, Full view	
Target Characters	Built-in picture comparison algorithm, best picture selection Direction / Speed level	
Alarm		
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error	
Intelligent	Motion detection	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Interfaces		
Ethernet	10/100M, RJ45 interface	/
Wi-Fi	Built-in Wi-Fi module	
GPS	Built-in GPS module	
3G / 4G Frequency Band	Built-in 3G / 4G module	
Audio In / Out	1 x Line in / 1 x Line out / 1 x Built-in Mic	
Control	1 x RS485	
Alarm In / Out	2 x Input / 1 x Output	
Memory Slot	Micro SD card slot, supports up to 256GB	
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection level	IK10, IP67, EN50155	
Electrical		
Power	12V DC ± 25% / PoE (IEEE802.3af)	
Power Consumption	Max. 14W	
Mechanical		
Weight	0.5 kg / 1.1lb (Gross Weight)	
Dimensions	Φ103.7 x 56.4mm / Φ4.08" x 2.22"	

IPC2241-Fi4N

2.0MP Human Recognitive HD Network Mini Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@25fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- Ultra WDR / HLC

Recognitive Functions

- Built-in deep learning face recognition algorithm
- Support face anti-spoofing
- Face intelligence exposure
- Support compare while wearing mask

Integrated High Efficiency IR

- Support Face Recognition
- Support up to 5,000 face library, up to 1,000,000 event records

Abundant Functions and Features

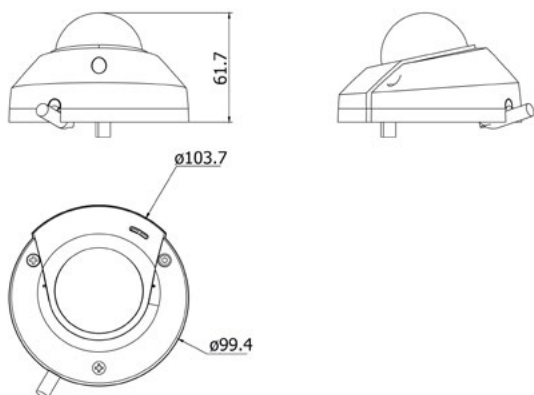
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / Built-in Mic / alarm in and out / RS485
- Dual-stream (1080p + D1)
- Anti-fog glass
- PoE
- IK10
- IP67 (optional)

Specifications

	IPC2241-Fi4N-C1	IPC2241-Fi4N-C2
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.001lux @ (F1.6, AGC ON) B/W: 0.0001lux @ (F1.6, AGC ON);	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>=58dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Night View	White LED, 5m	
Lens		
Mount Type	M12	
Focal Length	3.6mm	
Angle of View	Horizontal: 83.8°, Vertical: 45°	
Adjustment Range	Pan: -45° ~ 45° / Tilt: 0° ~ 90°	
Video		
Compression	Smart H.265 / H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@25fps Secondary stream: D1@25fps	
Bitrate	32kbps ~ 8Mbps	
Bitrate Control	VBR / CBR	
Dual-stream	Supported	
Caption	Date and time / Alarm / Customized	
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°	
Audio		
Compression	G.711a / G.711u / ADPCM	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Face Detection Comparison Library	5000	/
Event Capacity	1,000,000 (Depends on the capacity of Micro SD card)	
1:N Face Recognition	Supported	
Accuracy Rate	>= 99.5%	
Face Recognition Duration (1:N)	<= 0.5s	
Face Detection Distance	0.5 ~ 2m	
Face Anti-Spoofing	Supported	
Match with mask	Supported	
Face Exposure	Supported	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI, COI	
Automatic Network Replenishment (ANR)	Supported	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Audio In / Out	1 x Built-in Mic / 1 x Speaker	1 x Speaker
Control	1 x RS485, 1 x Exit button, 1 x Lock NO / NC, 1 x Door contact	/
Alarm In / Out	2 x Input / 1 x Output	/
Memory Slot	Micro SD card slot, supports up to 256GB	
Extension Interfaces	1 x USB3.0 Female Connector	1 x USB3.0 Male Connector
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection level	IK10, IP67 (optional)	
Electrical		
Power	12V DC ± 25%	
Power Consumption	Max. 20W	
Mechanical		
Weight	1.2 kg / 2.65 lb (Gross Weight)	
Dimensions	Φ103.7 × 99.4 × 61.7 mm / Φ4.08" × 3.91" × 2.43"	

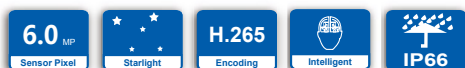
Dimensions

Units:mm



IPC2655-Gi4N

6.0MP Human Recognitive HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 6.0 Megapixel 1/1.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 3072 x 2048@30fps
- WDR / HLC / 3D noise reduction

Recognitive Functions

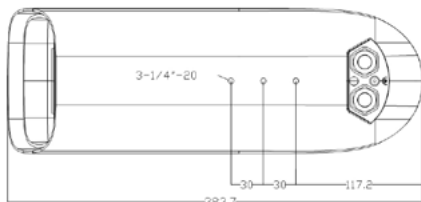
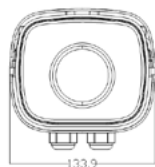
- Up to 100 targets simultaneously
- Target capturing and characters recognizing
- Bi-directional people counting
- Built-in picture comparison algorithm, best picture selection
- Face Intelligence Exposure

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in/out / RS485
- -40°C ~ 60°C operation temperature
- IP66

Dimensions

Units:mm



Specifications

IPC2655-Gi4N	
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	6.0 Megapixel
Min. Illumination	Color: 0.01Lux @ (F1.4, AGC ON) B/W: 0.001Lux @ (F1.4, AGC ON)
Shutter Speed	1/7.5 ~ 1/16,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Auto Iris	DC drive
Focal Length	15 ~ 50mm @ F1.4 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Infrared	
IR Distance	100m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 3072 x 2048 Secondary stream: D1
Frame Rate	Main stream: 3072 x 2048@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
Digital Noise Reduction	3D noise reduction
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face up to 100 targets simultaneously
Captured Picture	Person, Face, Full view Built-in picture comparison algorithm, best picture selection
Target Characters	Direction / Speed level
People Counting	Bi-directional
Face Enhancement	Face Intelligence Exposure
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
GPS	Built-in GPS module
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP66
Electrical	
Power	AC 24V ± 10%
Power Consumption	Max. 25W
Mechanical	
Weight	2.8kg / 6.17lb (Gross Weight)
Dimensions	98.3 x 129.9 x 133mm / 3.91" x 5.11" x 5.24"

IPC2855-Gi4N

8.0MP Human Recognitive HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/1.8" Progressive Scan CMOS Sensor
- UHD 4K@30fps
- Ultra low illumination, 0.0005lux with color picture
- WDR / HLC / 3D noise reduction

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Up to 100 targets simultaneously
- Target capturing and characters recognizing
- Bi-directional people counting
- Built-in picture comparison algorithm, best picture selection
- Face Intelligence Exposure

Abundant Functions and Features

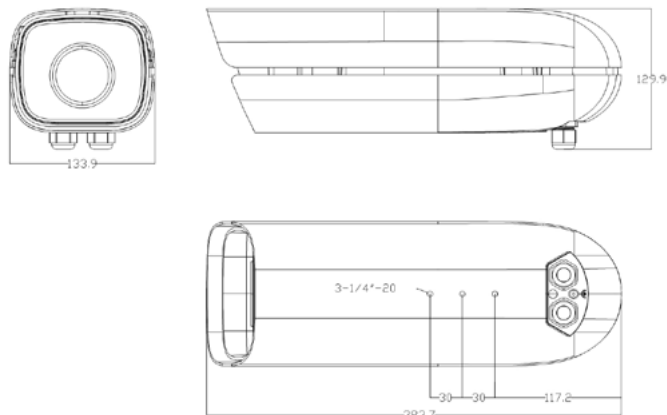
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in/out / RS485
- -40°C ~ 70°C operation temperature
- IP66

Specifications

IPC2855-Gi4N	
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.0005Lux @ (F1.4, AGC ON) B/W: 0.0002Lux @ (F1.4, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Auto Iris	DC drive / P-Iris
Focal Length	10 ~ 50mm @ F1.4 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Infrared	
IR Distance	80 ~ 100m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 4K (3840x2160) Secondary stream: D1
Frame Rate	Main stream: 3840x2160@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 32Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
Digital Noise Reduction	3D noise reduction
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face up to 100 targets simultaneously
Captured Picture	Person, Face, Full view Built-in picture comparison algorithm, best picture selection
Target Characters	Direction / Speed level
People Counting	Bi-directional
Face Enhancement	Face Intelligence Exposure
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Intelligent	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M/1000M, RJ45 interface
GPS	Built-in GPS module
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66
Electrical	
Power	AC 24V ± 20%
Power Consumption	Max. 36W
Mechanical	
Weight	2.8kg / 6.17lb (Gross Weight)
Dimensions	383 x 129.9 x 133mm / 15.05" x 5.11" x 5.24"

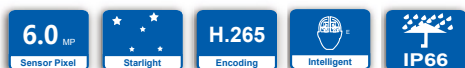
Dimensions

Units:mm



IPC2655-Gi7N

6.0MP Recognitive HD Network Varifocal Bullet Camera



Features

Excellent Image Quality

- 6.0 Megapixel 1/1.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 3072 x 2048@30fps
- WDR / HLC / 3D noise reduction

Recognitive Functions

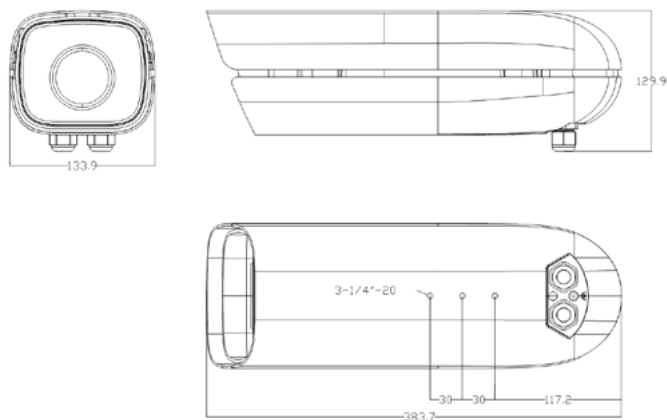
- Human Silhouette and Vehicle capturing
- Built-in picture comparison algorithm, best picture selection

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in/out / RS485
- -40°C ~ 60°C operation temperature
- IP66

Dimensions

Units:mm

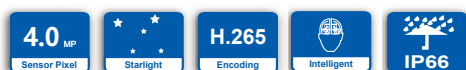


Specifications

IPC2655-Gi7N	
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	6.0 Megapixel
Min. Illumination	Color: 0.01Lux @ (F1.4, AGC ON) B/W: 0.001Lux @ (F1.4, AGC ON)
Shutter Speed	1/7.5 ~ 1/16,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	52dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Auto Iris	DC drive
Focal Length	15 ~ 50mm @ F1.4 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Night View	
White LED Distance	20m ~ 30m
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 3072 x 2048 Secondary stream: D1
Frame Rate	Main stream: 3072 x 2048@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
Digital Noise Reduction	3D noise reduction
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Human silhouette, Vehicle
Captured Picture	Human silhouette, Vehicle Built-in picture comparison algorithm, best picture selection
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
GPS	Build-in GPS module
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS-485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F
Operating Humidity	10% ~ 95%
Protection Level	IP66
Electrical	
Power	AC 24V ± 10%
Power Consumption	Max. 36W
Mechanical	
Weight	2.8kg / 6.17lb (Gross Weight)
Dimensions	383 x 129.9 x 133mm / 15.05" x 5.11" x 5.24"

IPC2451-Fi4N&Fi4NB-SIR50

4.0MP Human Recognitive HD Network Varifocal IR Bullet



Features

Excellent Image Quality

- 4.0 Megapixel 1/1.8" progressive scan CMOS sensor
- High definition and smooth picture, 2688 x 1520@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- 3D noise reduction / Auto Iris / HLC

Integrated High Efficiency IR

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Up to 36 targets simultaneously
- Target capturing
- Bi-directional people counting
- Built-in picture comparison algorithm, best picture selection
- Face Intelligence Exposure

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 50m IR distance
- Smart IR function

A Variety of Installation Modes

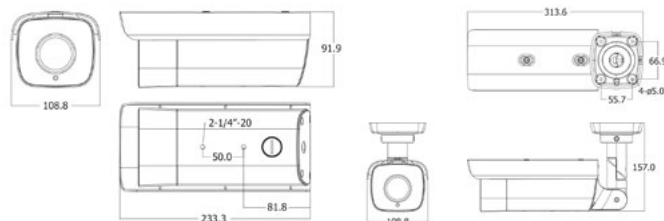
- Supports 90°, 180°, 270° image rotation
- Varifocal AF lens

Abundant Functions and Features

- Micro SD card slot, support Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / video out / RS485
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Dimensions

Units:mm



Specifications

IPC2451-Fi4N&Fi4NB-SIR50	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.005lux @ (F1.2, AGC ON)
Shutter Speed	B/W: 0.0005lux @ (F1.2, AGC ON); 0Lux with IR
Day / Night	1 ~ 1/30,000s
Wide Dynamic Range	Auto (ICR) / Color / B/W
S/N Ratio	Digital WDR
White Balance	>=58dB
Gain Control	Auto / Manual
Backlight Compensation	Auto / Manual
Lens	Off / BLC / WDR / HLC
Auto Iris	DC drive
Focal Length	-Z2812: 2.8-12mm @ F1.2 motorized varifocal AF lens
Focus Control	-Z8032: 8-32mm @ F1.2 motorized varifocal AF lens
Angle of View	Manual / Semi-Automatic / Auto
	-Z2812: 45.5°~ 91°
	-Z8032: 15°~ 38°
Infrared	
IR Distance	50m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 2688 x 1520
	Secondary stream: D1
Frame Rate	Main stream: 2688 x 1520@25fps
	Secondary stream: D1@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 /
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI, COI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face
Captured Picture	Person, Face
Target Characters	Built-in picture comparison algorithm, best picture selection
People Counting	Direction / Speed level
Face Enhancement	Bi-directional
Alarm	Face Intelligence Exposure
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	2 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection level	IP67
Electrical	
Power	DC 12V ± 10% / AC 24V ± 10% / PoE (IEEE802.3at)
Power Consumption	Max. 15W
Mechanical	
Weight	-FNB: 2.5kg / 5.5lb (Gross Weight)
	-FN: 2kg / 4.4lb (Gross Weight)
Dimensions	-FNB: 313.6 x 108.8 x 157mm / 12.35" x 4.28" x 6.19"
	-FN: 233.3 x 108.8 x 91.9mm / 9.19" x 4.28" x 3.62"
Mounting Bracket	-FNB: Bracket included
	-FN: Bracket not included

IPC2852-Fi4N&Fi4NB-SIR50-Z6022

8.0MP Human Recognitive HD Network Varifocal IR Bullet Camera



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840 x 2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Target capturing
- Bi-directional people counting
- Face Intelligence Exposure

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- Up to 70m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

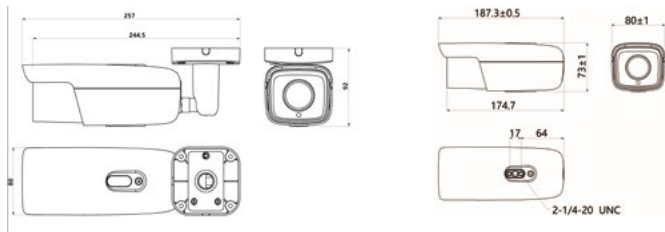
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485
- Up to 3 Multi-stream
- Anti-fog glass
- -40°C ~ 70°C operation temperature
- PoE
- IP67

Specifications

Camera	IPC2852-Fi4N&Fi4NB-SIR50-Z6022
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>=58db
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Mount Type	Φ14
Auto Iris	DC drive
Focal Length	-Z6022: 6-22mm @F1.6~F3.3 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	Horizontal : 29.4°(T)~99.6°(W) Vertical : 16.5°(T)~53.1°(W)
Infrared	
IR Distance	50 ~ 70m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3840 x 2160 Secondary stream: 720P
Frame Rate	Main stream: 3840 x 2160@20fps Secondary stream: 720P@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face
Captured Picture	Person, Face, Full view
Target Characters	Direction / Speed level
People Counting	Bi-directional
Face Enhancement	Face Intelligence Exposure
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10(optional)
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 11W
Mechanical	
Weight	-Fi4N: 1kg / 2.2lb (Gross Weight) -Fi4NB: 1.2kg / 2.65lb (Gross Weight) -Fi4N: 181.5 x 80 x 73mm / 7.15" x 3.15" x 2.87" -Fi4NB: 271.3 x 80 x 87.8mm / 10.68" x 3.15" x 3.46"
Dimensions	
Mounting Bracket	-Fi4N: Bracket not included -Fi4NB: Bracket included

Dimensions

Units:mm



IPC2833-Fi4N-SIR50-Z6022

8.0MP Human Recognitive HD Network Vandal-Proof Varifocal IR Semi Dome



Features

Excellent Image Quality

- 8.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 3840 x 2160@20fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.005lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Auto Iris / HLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Recognitive Functions

- Target capturing
- Bi-directional people counting
- Face Intelligence Exposure

Vandal-Proof

- Above IK10 @ 50J collision energy

Integrated High Efficiency IR

- Industrial IR LED with long operational lifespan
- 20 ~ 50m IR distance
- Smart IR function

A Variety of Installation Modes

- Supports 90°, 180°, 270° image rotation
- Motorized varifocal lens

Abundant Functions and Features

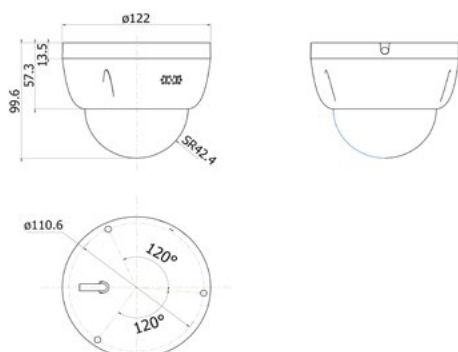
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485 / Built-in Mic & Speaker
- 2 channel audio input simultaneously
- Up to 3 Multi-stream
- PoE
- IP67

Specifications

Camera	IPC2833-Fi4N-SIR50-Z6022
Image Sensor	1/2.8" progressive scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.005lux@ (F1.6, AGC ON) B/W: 0.0005lux@ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / WDR / HLC
Lens	
Mount Type	Φ14
Auto Iris	DC drive
Focal Length	~Z6022: 6-22mm @F1.6~F2.8 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Angle of View	Horizontal: 17.6°(T)~42.9°(W), Vertical: 9.7°(T)~23.4°(W)
Adjustment Range	Pan: -120° ~ +120° / Tilt: 0° ~ 90°
Infrared	
IR Distance	20 ~ 50m
IR Intensity	Smart IR
Video	
Compression	Smart 265 / H.265 (Main Profile) / H.264 (BaseLine Profile/Main Profile/High Profile) / MJPEG
Image Resolution	Main stream: 3840 x 2160 Secondary stream: 720P
Frame Rate	Main stream: 3840 x 2160@20fps Secondary stream: 720P@25fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, IGMP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2016, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face
Captured Picture	Person, Face
People Counting	Bi-directional
Face Enhancement	Face Intelligence Exposure
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line In, 1 x Line Out, 1 x Built-in Mic in, 1 x Speaker
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%, No condensation
Protection Level	IP67, IK10
Electrical	
Power	12V DC ± 10% / PoE (IEEE802.3af)
Power Consumption	Max. 12W
Mechanical	
Weight	0.71 kg / 1.57lb (Gross Weight)
Dimensions	Φ122× 96.13mm / Φ4.8" x 3.78"

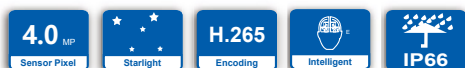
Dimensions

Units:mm



IPC442-i405-NP

4.0MP Mini Ultra WDR & Starlight Speed Dome Camera



Features

Excellent Image Quality

- 4.0 Megapixel 1/1.8" progressive scan CMOS sensor
- High definition and smooth picture, 1920 x 1080@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- IR automatically adjusts
- 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Recognitive Functions

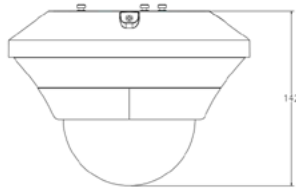
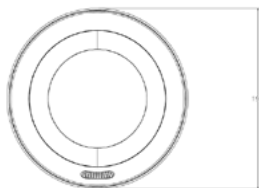
- Target capturing
- Bi-directional people counting
- Built-in picture comparison algorithm, best picture selection

Abundant Functions and Features

- Micro SD card, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- PoE
- IP66

Dimensions

Units:mm



Specifications

IPC442-i405-NP	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.0002Lux @ (F1.5, AGC ON) B/W: 0.0001Lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	>58dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	2.7 ~ 13.5mm, 5x optical, 16x digital
Zoom Speed	Approx 3s (Optical)
Angle of View	108.1° ~ 46.6° (Wide~Tele)
Min. Object Distance	10 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 ~ F2.7
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR Distance	30m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / 0° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1°~180°/s Tilt manual speed: 0.1°~120°/s
Preset	512
Patrol	8 Patrols scheme, up to 32 presets per patrol
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan /
PT Limit	Panorama scan
3D Positioning	Manual / Scan / Pan
Electronic compass	PTZ control with mouse click and drag Built-in O-sensor
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@25fps Secondary stream: D1@25fps
Bitrate	32~16384Kbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Electronic Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32Kbps ~ 64Kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Recognitive Functions	
Target Detection	Person, Face
Captured Picture	Person, Face
Target Tracking	Built-in picture comparison algorithm, best picture selection
People Counting	Support to tracking by face Bi-directional
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Control	1 x RS485
Audio In / Out	1 x Line in / 1 x Line out
Alarm In / Out	2 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	12V DC ± 10% (Power Adapter Not Included) / PoE (802.3at)
Power Consumption	Max. 30W (IR on)
Mechanical	
Weight	2 kg / 4.4lb (Gross Weight)
Dimensions	Ø197 × 142mm / Ø7.76" × 5.59"

Intelligent Tracking System 2.0



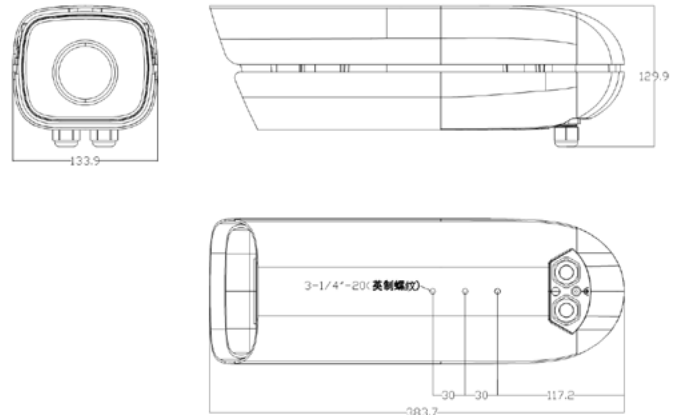
Features

- 1 bullet camera for panoramic view mode and to locate targets
- Up to 3 PTZ cameras to track and zoom-in on individual targets
- Camera built-in tracking algorithm
- PTZ track for large open space
- High accuracy multi target tracking
- High security virtual fencing zone
- Up to 60 moving targets
- Up to 10000 M² coverage
- High-speed target switching
- Target capturing and characters recognizing
- SDK support

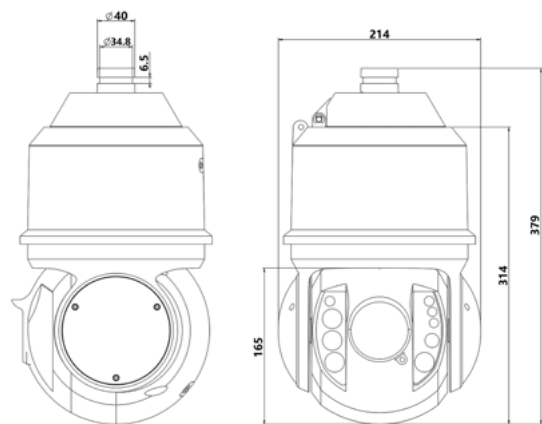
Dimensions

Units: mm

IPC2855-FI5N



IPC445-i033-N



Specifications

	IPC2855-F15N
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	8.0 Megapixel
Min. Illumination	Color: 0.0002Lux @ (F1.0, AGC ON) B/W: 0.0001Lux @ (F1.0, AGC ON)
Shutter Speed	1/7.5 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	5mm @ F1.0 motorized varifocal lens
Focus Control	Manual / Semi-Automatic / Auto
Infrared	
IR Distance	60 ~ 80m
IR Intensity	Smart IR
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 4K (3840×2160) Secondary stream: D1
Frame Rate	Main stream: 3840×2160@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 32Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
Digital Noise Reduction	3D noise reduction
Image Flip	Flip / Mirror
Guard Zone	
Guard Zone Level	up to 3 level, up 8 zones per level
Regional Shield	up to 8 shield areas
Guard Scheme	Disable / Always / Scheduled
Alarm Caption	customized alarm caption supported
Intelligent Tracking	
Distance	up to 120m (Lock target)
Target Number	up to 60 simultaneously
Tracking Mode	Automatic / Semi-automatic
PTZ Camera Model	IPC445-i033-N supported
PTZ Camera Number	up to 3 PTZ cameras supported
Tracking Target Number	up to 3 simultaneously depending on the number of PTZ cameras
Target Tracked Time	Min. 5s / customized
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	
	Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Alarm Events	
Interfaces	
Ethernet	10/100M/1000M, RJ45 interface
GPS	Build-in GPS module
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	2 x Input / 1 x Output
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66
Electrical	
Power	AC 24V ± 20%
Power Consumption	Max. 36W
Mechanical	
Weight	2.8kg / 6.17lb (Gross Weight)
Dimensions	383 x 129.9 x 133mm / 15.05" x 5.11" x 5.24"

	IPC445-i033-N
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.001lux @ (F1.5, AGC ON) B/W: 0.0001lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>=55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	70° ~ 3.8° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	8 pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 300°/s Tilt manual speed: 0.1° ~ 160°/s; Tilt preset speed: 240°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	512
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 2560 x 1440 Secondary stream: D1
Frame Rate	Main stream: 2560 x 1440@30fps, 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Intelligent Tracking	
Target Capturing Mode	Automatic
Target Detection	Human silhouette, Vehicle
Captured Picture No.	1 ~ 5
Target Characters	Type / Time of appear / Time of left / Direction / Color / Speed level / Size level / Face
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	
	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Alarm Events	
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214× 379mm / Φ8.43" x 14.92"

Specifications

	CM-W15
Mechanical	
Weight	0.5Kg
Dimensions	270mm
	

	DM-W43
Mechanical	
Weight	0.5Kg
Dimensions	353mm
	

KSCA121-ANW

Face Recognition Terminal



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@25fps
- 0.0001lux, ultra low illumination
- 4mm ultra wide angle dual-lens

Recognitive Functions

- Built-in deep learning face recognition algorithm
- Support face anti-spoofing
- Face intelligence exposure

Flexible Access Control

- Face Recognition \ Card \ Fingerprint \ Face Recognition and Card \ Face Recognition or Card \ Face Recognition and Fingerprint \ Face Recognition or Fingerprint \ Face Recognition or Card \ Remote Control
- Support up to 20,000 face library, up to 100,000 card capacity, 50,000 fingerprint and 1,000,000 event records

Abundant Functions and Features

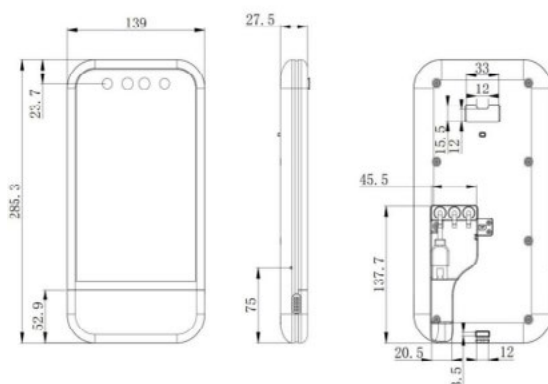
- 8" Capacitive touchscreen
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Built-in Mic and speaker / Bi-directional audio / alarm in/out / RS485 / Wiegand / exit button / lock NO NC / door contact / tamper button
- -40°C ~ 60°C operation temperature
- IP66 (-FC)

Specifications

	KSCA121-ANW-FC	KSCA121-ANW-FMC
Camera		
Image Sensor	2 x 1/2.8" Progressive Scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.001lux	
Focal Length	4mm dual-lens	
Compression	H.264	
Image Resolution	1080p@25fps	
Bitrate	32kbps ~ 16Mbps	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / G.726	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Display		
Size	8"	
Type	LCD	
Resolution	800 x 1280	
Operation Method	Capacitive touchscreen	
Screen Hardness	≥ 6H	
Access Control		
Card Reader	IC / M1 / CPU card	
Card Capacity	100,000	
Face Detection Comparison Library	20,000, 50,000 (optional)	
Fingerprint Capacity	/ 50000	
Unlock Mode	Face Recognition \ Card \ Face Recognition and Card \ Face Recognition or Card \ Remote Control	Face Recognition \ Card \ Fingerprint \ Face Recognition and Card \ Face Recognition or Card \ Face Recognition and Fingerprint \ Face Recognition and Fingerprint \ Face Recognition and Card and Fingerprint \ Face Recognition or Card or Fingerprint \ Remote Control
Event Capacity	1000000	
1:N Face Recognition	Supported	
Face Recognition Duration (1:N)	≤ 0.5s	
Accuracy Rate	≥ 99.5%	
Face Detection Distance	0.3 ~ 2m	
Face Anti-Spoofing	Supported	
Face Exposure	Supported	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Audio In / Out	1 x Built-in Mic, 1 x Speaker	
Control	1 x Wiegand, 1 x RS485, 1 x Exit button, 1 x Lock NO / NC, 1 x Door contact, 1 x Tamper	
Alarm In / Out	2 x Input / 1 x Output	
Memory Slot	Micro SD card slot, supports up to 256GB	
Environmental		
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F	
Operating Humidity	0% ~ 95%, No condensation	
Protection Level	IP66	
Electrical		
Power	12V DC ± 10%	
Power Consumption	Max. 25W	
Mechanical		
Weight	1.7kg / 3.75 lb (Gross Weight)	
Dimensions	215 x 94.2 x 54.2mm / 8.46" x 3.71" x 2.13"	

Dimensions

Units:mm



KSCA120-ANW-TFC

Face Recognition & Temperature Screening Terminal



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- 0.001lux, ultra low illumination
- 4mm ultra wide angle dual-lens

Recognitive Functions

- Built-in deeplearning face recognition algorithm
- Support face anti-spoofing
- Face intelligence exposure

Flexible Access Control

- Support Face Recognition \ Card \ Face Recognition and Card \ Face Recognition or Card \ Face Recognition and Fever Screening \ Remote Control
- Support up to 20,000 face library, up to 100,000 card capacity and 1,000,000 event records

Temperature Measurement

- Support fever screening
- Measurement accuracy $\pm 0.5^{\circ}\text{C}$

Abundant Functions and Features

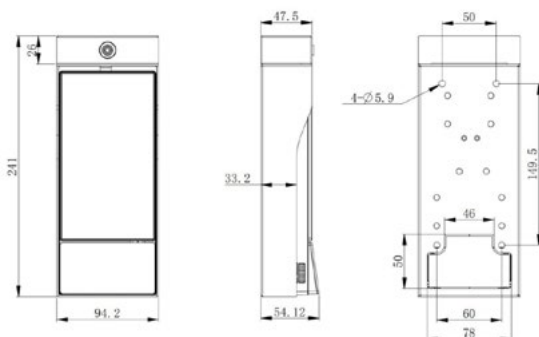
- 5" Capacitive touchscreen
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Built-in Mic and speaker / Bi-directional audio / alarm in&out / RS485 / exit button / lock NO NC / door contact / tamper button

Specifications

	KSCA120-ANW-TFC
Camera	
Image Sensor	2 x 1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001lux
Focal Length	4mm dual-lens
Compression	H.265 / H.264
Image Resolution	1080p@30fps
Bitrate	32kbps ~ 32Mbps
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	265 x 192
Detector Pitch	12 μm
NETD	$\leq 50\text{mk @ F1.0}$
Response Waveband	8 $\mu\text{m} \sim 14\mu\text{m}$
Angle of View	42° x 32°
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Display	
Size	5"
Type	LCD
Resolution	480 x 800
Operation Method	Capacitive touchscreen
Screen Hardness	$\geq 6\text{H}$
Temperature Measurement	
Temperature Measurement Range	30°C ~ 45°C
Temperature Measurement Accuracy	$\pm 0.5^{\circ}\text{C}$
Temperature Measurement Distance	0.5 ~ 0.8m
Access Control	
Card Reader	1C / M1 / CPU card
Card Capacity	100,000
Face Detection Comparison Library	20,000
Unlock Mode	Face Recognition \ Card \ Fever Screening \ Face Recognition and Card \ Face Recognition or Card \ Face Recognition and Fever Screening \ Remote Control
Event Capacity	1,000,000
1:N Face Recognition	Supported
Face Recognition Duration (1:N)	$\leq 0.5\text{s}$
Accuracy Rate	$\geq 99\%$
Face Detection Distance	0.3 ~ 2m
Face Anti-Spoofing	Supported
Face Exposure	Supported
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6
Wi-Fi	802.11 b/g/n 2.4G
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Built-in Mic, 1 x Speaker
Control	1x RS485, 1 x Exit button, 1 x Lock NO / NC, 1 x Door contact, 1 x Tamper
Memory Slot	Micro SD card slot, supports up to 256GB
Environmental	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Operating Humidity	10% ~ 95%
Electrical	
Power	12V DC $\pm 10\%$
Power Consumption	Max. 30W
Mechanical	
Weight	2kg / 4.4lb (Gross Weight)
Dimensions	241 x 94.2 x 54.2mm / 9.49" x 3.71" x 2.13"

Dimensions

Units:mm



Falcon

Human Recognition System



Features

High-performance, High-capacity

- Supports up to 500,000 cameras in one system
- Supports up to 10,000,000 Face / Human Detection Comparison Library
- Real-time multiple face matching, matching speed low to 2s
- Up to 98% face recognition accuracy

Deep Analysis

- Supports deep learning algorithm
- Supports human attributes analysis

Good Compatibility

- Supports different types of camera: Kedacom human recognitive camera, Kedacom standard IP camera, Third-party IP camera

Abundant Functions and Features

- Three types of snapshot: face, head and shoulder, person
- Supports recognizing and capturing the human side and back picture
- Supports searching picture by picture or attributes

Specifications

Falcon Human Recognition System	
KProServer3 CPU Server	High density server chassis
CPU Server Chassis	19" 2U standard blade rack server chassis, able to insert 4 computing nodes, each computing node configuration 6 slot of 3.5 inch / 2.5 inch compatible hard drive slot, a total of 24 hard disk slot can be placed Include 2 unit of 2150W redundant platinum power supply
Computing Nodes	Computing Nodes for KProServer3-B01 2 x Intel Xeon Silver 4110 (8 core, 16 thread, up to 3.0GHz, 11MB Cache), 32GB RAM (KProServer3-N100-E01-32G) / 64GB RAM KProServer3-N100-E01-64G) / 128GB RAM (KProServer3-N100-E02-128G) 1 x 2.4TB SAS, 1x 960GB SSD, 2 x SFP OS license not included
Functions	Compares the attributes of each face Calculates the similarity percentage between faces
Operating Temperature	10°C ~ 40°C / 50°F ~ 104°F
Operating Humidity	50% ~ 90%
Power	100 ~ 127V AC, 50 ~ 60Hz / 200 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 2150W (4 computing nodes included)
Weight	38kg / 83.78lb (including 4 x nodes)
Chassis Dimensions	733 x 438 x 86.9mm / 28.86" x 17.24" x 3.42"
DeepEngine-1000 GPU Server	High density server chassis
GPU Server Chassis	19" 4U standard blade rack server chassis, able to insert 6 computing nodes Include 4 unit of 1200W redundant platinum power supply
Computing Nodes	Computing Nodes for DeepEngine-1000 1 x 64 bit multi-core CPU, 2 x GPU, 32GB RAM 2 x 1000M RJ45, 240GB SSD OS license not included
Functions	Identifies the faces and persons in the video streaming Grabs the attributes of each face and person
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Operating Humidity	50% ~ 90%
Power	100 ~ 127V AC, 50 ~ 60Hz / 200 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 3000W (6 computing nodes included)
Weight	58kg / 127.87lb (including 6 x nodes)
Chassis Dimensions	820 x 440 x 177.8mm / 32.28" x 17.32" x 7"
System	Windows10 Professional 64-bit / Windows 10 Enterprise 64-bit
Supported Operating System	Windows 7 Professional 64-bit / Windows 7 Enterprise 64-bit / Windows 7 Ultimate 64-bit
Database	Elastic Search
Application System	Falcon Human Recognition System
User Management	Admin / User
Maximum Number Of Camera / Video Stream Access	Up to 500,000
Face / Human Detection Comparison Library	Up to 10,000,000
Camera Access Type	Kedacom human recognitive camera Kedacom standard IPC (by Kedacom VMS) Third-party IPC (by Kedacom VMS and NVR) RTSP Video Stream (Optional) Face and human pictures (By IPSAN)
Storage	
Recognitive Functions	
Target Detection	Identifies the faces and persons in the video streaming
Captured Picture	Person, Face, Full view
Face Matching	Real-time / Post-event
Analysis	Analyzes attributes of human and face image, grabs the gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level
Search Mode	Date and time / Camera / Face image / Person image / Attributes (gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level)
People Counting	Bi-directional
Alarm	
Alarm Triggers	Face matching
Alarm Events	Alarm report / Snapshot / Acoustic alarm
Video	
Compression	H.265 / H.264
Live View	1080p@30fps
Network	
Network Protocols	TCP/IP, UDP, RTSP, VSIP, 802.1x, IPv4
User Interface	EPAS Client

Falcon

All In One System



Features

High-performance, High-capacity

- Supports up to 32 cameras in one system
- Supports 300,000 Face / Human Detection Comparison Library
- Real-time multiple face matching, matching speed low to 2s
- Up to 98% face recognition accuracy

Deep Analysis

- Supports deep learning algorithm
- Supports human attributes analysis

Abundant Functions and Features

- Three types of snapshot: face, head and shoulder, person
- Supports recognizing and capturing the human side and back picture
- Supports searching picture by picture or attributes

Specifications

Hardware	EPAS300-W01	EPAS300-W02	EPAS300-W03
CPU	1 x Intel Xeon processor E5-1620V3 (4 core, 8 thread, 3.5GHz, 10MB Cache)		2 x Intel Xeon processor E5-2620V3 6 core, 16 thread, 2.4GHz, 20MB Cache)
Memory	32G	64G	128G
GPU	1 x GPU		2 x GPU
HDD	Enterprise Class SATA HDD		
Operating Temperature	2 x 4TB, 3.5", 7200 RPM, 6Gb/s, 64MB cache		
Operating Humidity	5°C ~ 40°C / 41°F ~ 104°F		
Power	20% ~ 90%		
Weight	100 ~ 242V AC, 50 ~ 60Hz		
Power Consumption	38kg / 83.78lb (including 4 x nodes)		Max. 1490W (included 2 x HDD)
Weight	Max. 1250W (included 2 x HDD)		21.6kg / 47.6lb (including 2 x HDD)
Chassis Dimensions	176 x 445 x 590mm / 6.92" x 17.52" x 23.23"		
System			
Supported Operating System	Windows Server 2012		
Database	Oracle		
Application System	Falcon Human Recognition System		
User Management	Admin / User		
Maximum Number Of Camera	8	16	32
Face / Human Detection Comparison Library	300,000		
Camera Access Type	Kedacom human recognitive camera		
Recognitive Functions			
Target Detection	Identifies the faces and persons in the video streaming		
Captured Picture	Person, Face, Full view		
Face Matching	Real-time / Post-event		
Analysis	Analyzes attributes of human and face image, grabs the gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level		
Search Mode	Date and time / Camera / Face image / Person image / Attributes (gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level)		
People Counting	Bi-directional		
Alarm			
Alarm Triggers	Face matching		
Alarm Events	Alarm report / Snapshot / Acoustic alarm		
Video			
Compression	H.265 / H.264		
Live View	1080p@30fps		
Network			
Network Protocols	TCP/IP, UDP, RTSP, VSIP, 802.1x, IPv4		
User Interface	EPAS Client		

NVR1829-01B

1 Bay Commercial Network Video Recorder



Features

High-performance

- H.265 supported
- 1 x 4K@30fps / 4 x 1080p@30fps video decoding capability
- Up to 16 channels and 4K supported
- Up to 80Mbps incoming bandwidth
- Up to 64Mbps output bandwidth

Small size

- 0.7kg / 1.54lb
- 254 x 194 x 33mm / 10" x 7.64" x 1.3"

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

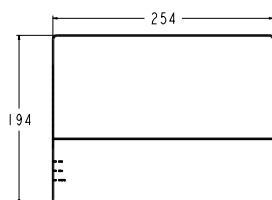
- Embedded Linux
- Low power consumption
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- Long term recording
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR1829 -01004B/4P	NVR1829 -01009B/4P	NVR1829 -01016B/4P	NVR1829 -01004B	NVR1829 -01009B	NVR1829 -01016B
Video/Audio Input						
IP Camera Input	4 channel	9 channel	16 channel	4 channel	9 channel	16 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF					
Compression	H.265 / H.264					
Protocols	Onvif, RTSP, KEDACOM					
Incoming Bandwidth	20Mbps	45Mbps	80Mbps	20Mbps	45Mbps	80Mbps
Live Viewing						
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content					
Multi Screen Display	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16					
Local monitor	Up to 4 screen simultaneously:					
Multi Screen Display	1 ~ 64 Multiple Layouts					
Client	Live Viewing in E-Map (V Station)					
E-Map Function	E-PTZ / Scheme (V Station) / Virtual channel					
Recording						
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF					
Mode	Manual / Continuous / Schedule / Event (Pre / Post) / Long term recording					
Event Trigger	Supported					
Tag	Supported					
Search & Playback						
Search Mode	Date and time (Calendar) / Event					
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF					
Playback	1 x 4K@30fps	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps		1 x 4K@30fps	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps	
(Local Monitor)	/ 4 x 1080p@30fps			/ 4 x 1080p@30fps		
Playback (Client)	up to 16 x 4K@30fps					
Synchronize	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps					
Playback (Local Monitor)	up to 16 x 4K@30fps					
Synchronize	Slow forward / Fast forward / Loop / Single frame / E-PTZ					
Function						
Storage						
Max. Internal HDDs	1 x 3.5" HDD Max. 8TB (up to 8TB/each)					
Audio						
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c					
Bit rate	32kbps ~ 64kbps					
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting					
Alarm						
Service Alarm	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge					
Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space					
System Alarm	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing					
Triggers						
Alarm Events						
System						
Operating System	Embedded Linux					
User Management	Admin / User					
Log Management	User login / User operation / Alarm / Backup / Update					
Application	V Station SDK					
Programming						
Network						
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)					
Viewer Software	CMS (V Station) / Web / iOS app / Android app					
Max. User Access	16 Users					
Output Bandwidth	64Mbps					
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing					
Network Test	Supported					
Interfaces						
Ethernet	1 x 10/100M, RJ45 interface	1 x Gigabit network port, RJ45 interface		1 x 10/100M, RJ45 interface	1 x Gigabit network port, RJ45 interface	
PoE	4 x 10/100M PoE port, RJ45 interface, 15W / each port				/	
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)					
Audio In / Out	1 x RCA Line in / 1 x RCA Line out					
USB	2 x USB 2.0					
Environmental						
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F					
Operating Humidity	10% ~ 90%					
Electrical						
Power	48V DC ± 10%					
Power Consumption	Max. 40W (HDD not included)					
	Max. 10W (HDD not included)					
Mechanical						
Weight	0.7kg / 1.54lb (HDD not included)					
Dimensions	254 x 194 x 33mm / 10" x 7.64" x 1.3"					
	0.6kg / 1.32lb (HDD not included)					

NVR1828-01B

1 Bay Commercial Network Video Recorder



Features

High-performance

- H.265 supported
- 1 x 4K@30fps / 4 x 1080p@30fps video decoding capability
- Up to 16 channels and 4K supported
- Up to 80Mbps incoming bandwidth
- Up to 64Mbps output bandwidth

Small size

- 1.2kg / 2.65lb
- 384 x 199 x 33mm / 15.1" x 7.83" x 1.3"

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

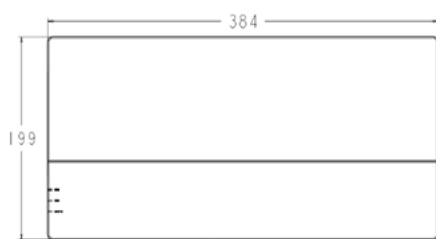
- Embedded Linux
- Low power consumption
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- Long term recording
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR1828-01009B/8P	NVR1828-01016B/8P
Video/Audio Input		
IP Camera Input	9 channel	16 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Compression	H.265 / H.264	
Protocols	Onvif, RTSP, KEDACOM	
Incoming Bandwidth	45Mbps	80Mbps
Live Viewing		
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content	
Multi Screen Display Local monitor	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	
Multi Screen Display Client	up to 4 screen simultaneously; 1 ~ 64 Multiple Layouts	
E-Map Function	Live Viewing in E-Map (V Station) E-PTZ / Scheme (V Station) / Virtual channel	
Recording		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Mode	Manual / Continuous / Schedule / Event (Pre / Post) / Long term	
Event Trigger	recording	
Tag	Supported	
Search & Playback		
Search Mode	Date and time (Calendar) / Event	
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Playback (Local Monitor)	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps	
Playback (Client)	up to 16 x 4K@30fps	
Synchronize Playback (Local Monitor)	4 x 1080p@30fps	
Synchronize Playback (Client)	up to 16 x 4K@30fps	
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ	
Storage		
Max. Internal HDDs	1 x 3.5" HDD	
	Max. 8TB (up to 8TB/each)	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c	
Bit rate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting	
Alarm		
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge	
	Device disconnected / No disk / Disk error / IP Address conflict /	
System Alarm Triggers	Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space	
	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client /	
Alarm Events	Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing	
System		
Operating System	Embedded Linux	
User Management	Admin / User	
Log Management	User login / User operation / Alarm / Backup / Update	
Application Programming	V Station SDK	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)	
Viewer Software	CMS (V Station) / Web / iOS app / Android app	
Max. User Access	16 Users	
Output Bandwidth	64Mbps	
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing	
Network Test	Supported	
Interfaces		
Ethernet	1 x 10/100M, RJ45 interface	1 x Gigabit network port, RJ45 interface
PoE	8 x 10/100M PoE port, RJ45 interface, 15W / each port	
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)	
Audio In / Out	1 x RCA Line in / 1 x RCA Line out	
Alarm In / Out	4 x Inputs / 2 x Outputs	
Control	1 x RS485	
USB	2 x USB 2.0	
Environmental		
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F	
Operating Humidity	10% ~ 90%	
Electrical		
Power	48V DC ± 10%	
Power Consumption	Max. 40W (HDD not included)	
Mechanical		
Weight	1.2kg / 2.65lb (HDD not included)	
Dimensions	384 x 199 x 33mm / 15.1" x 7.83" x 1.3"	

NVR1828-02B

2 Bay Commercial Network Video Recorder



Features

High-performance

- H.265 supported
- 1 x 4K@30fps / 4 x 1080p@30fps video decoding capability
- Up to 16 channels and 4K supported
- Up to 80Mbps incoming bandwidth
- Up to 64Mbps output bandwidth

Small size

- 1.2kg / 2.65lb
- 384 x 199 x 33mm / 15.1" x 7.83" x 1.3"

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

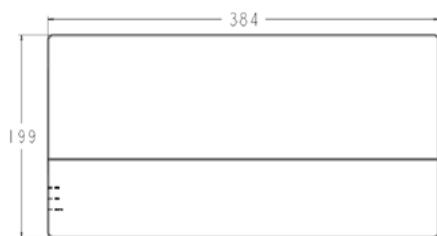
- Embedded Linux
- Low power consumption
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- Long term recording
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

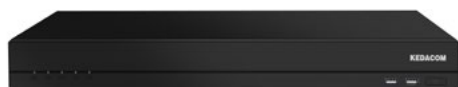


Specifications

	NVR1828-02009B/8P	NVR1828-020016B/8P	NVR1828-02004B	NVR1828-02009B	NVR1828-02016B
Video/Audio Input					
IP Camera Input	9channel	16 channel	4 channel	9 channel	16 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Compression	H.265 / H.264				
Protocols	Onvif, RTSP, KEDACOM				
Incoming Bandwidth	45Mbps	80Mbps	20Mbps	45Mbps	80Mbps
Live Viewing					
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content				
Multi Screen					
Display Local monitor	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16				
(Main / Secondary)					
Multi Screen	up to 4 screen simultaneously:				
Display Client	1 ~ 64 Multiple Layouts				
E-Map	Live Viewing in E-Map (NVR Station)				
Function	E-PTZ / Scheme (V Station) / Virtual channel				
Recording					
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Mode	Manual / Continuous / Schedule / Event (Pre / Post) / Long term recording				
Event Trigger	Supported				
Tag	Supported				
Search & Playback					
Search Mode	Date and time (Calendar) / Event				
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Playback	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps		1 x 4K@30fps / 4 x 1080p@30fps	1 x 4K@30fps / 4 x 1080p@30fps	
(Local Monitor)					
Playback (Client)	up to 16 x 4K@30fps				
Synchronize					
Playback (Local Monitor)	4 x 1080p@30fps				
Synchronize					
Playback (Client)	up to 16 x 4K@30fps				
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ				
Storage					
Max. Internal HDDs	2 x 3.5" HDD				
	Max. 16TB (up to 8TB/each)				
Audio					
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c				
Bit rate	32kbps ~ 64kbps				
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting				
Alarm					
Service Alarm	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge				
Triggers					
System Alarm	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space				
Triggers					
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing				
System					
Operating System	Embedded Linux				
User Management	Admin / User				
Log Management	User login / User operation / Alarm / Backup / Update				
Application	V Station SDK				
Programming					
Network					
Network Protocols	CMS (V Station) / Web / iOS app / Android app				
Viewer Software	16 Users				
Max. User Access	64Mbps				
Output Bandwidth	NAT / Multiple network access / Packet loss recovery / Auto network organizing				
Function	Supported				
Network Test	Supported				
Interfaces					
Ethernet	1 x 10/100M, RJ45 interface	1 x Gigabyte network port, RJ45 interface	1 x 10/100M, RJ45 interface		1 x Gigabyte network port, RJ45 interface
PoE	8 x 10/100M PoE port, RJ45 interface, 15W / each port		/		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)				
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)				
Alarm In / Out	1 x RCA Line in / 1 x RCA Line out				
Control	4 x Inputs / 2 x Outputs				
USB	1 x RS485				
USB	2 x USB 2.0				
Environmental					
Operating					
Temperature	-10°C ~ 55°C / 14°F ~ 131°F				
Operating Humidity	10% ~ 90%				
Electrical					
Power	48V DC ± 10%		12V DC ± 10%		
Power					
Consumption	Max. 80W (HDD not included)		Max. 15W (HDD not included)		
Mechanical					
Weight	1.2kg / 2.65lb (HDD not included)		1kg / 2.2lb (HDD not included)		
Dimensions	384 x 199 x 33mm / 15.1" x 7.83" x 1.3"				

NVR1827-04B

4 Bay Commercial Network Video Recorder



Features

High-performance

- H.265 supported
- 1 x 4K@30fps / 4 x 1080p@30fps video decoding capability
- Up to 32 channels and 4K supported
- Up to 90Mbps incoming bandwidth
- Up to 64Mbps output bandwidth

Small size

- 1.2kg / 2.65lb
- 384 x 199 x 44mm / 15.1" x 7.83" x 1.73"

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

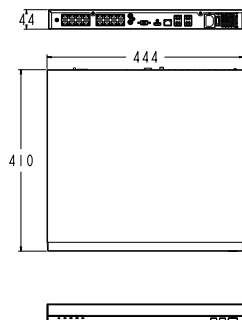
- Embedded Linux
- Low power consumption
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- Long term recording
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

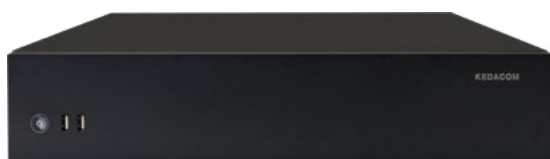


Specifications

	NVR1827-04016B/16P	NVR1827-040032B/16P	NVR1827-04009B	NVR1827-04016B	NVR1827-04032B
Video/Audio Input					
IP Camera Input	16channel	32 channel	9 channel	16 channel	32 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Compression	H.265 / H.264				
Protocols	Onvif, RTSP, KEDACOM				
Incoming Bandwidth	80Mbps	90Mbps	45Mbps	80Mbps	90Mbps
Live Viewing					
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content				
Multi Screen					
Display Local monitor (Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/1	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/1	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
Multi Screen	up to 4 screen simultaneously:				
Display Client	1 ~ 64 Multiple Layouts				
E-Map	Live Viewing in E-Map (V Station)				
Function	E-PTZ / Scheme (V Station) / Virtual channel				
Recording					
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Mode	Manual / Continuous / Schedule / Event (Pre / Post) / Long term recording				
Event Trigger	Supported				
Tag	Supported				
Search & Playback					
Search Mode	Date and time (Calendar) / Event				
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF				
Playback	1 x 4K@30fps / 4 x 1080p@30fps / 9 x 720p@30fps				
(Local Monitor)					
Playback(Client)	up to 16 x 4K@30fps				
Synchronize					
Playback (Local Monitor)	4 x 1080p@30fps				
Synchronize					
Playback (Client)	up to 16 x 4K@30fps				
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ				
Storage					
Max. Internal HDDs	4 x 3.5" HDD				
	Max. 32TB (up to 8TB/each)				
Audio					
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c				
Bit rate	32kbps ~ 64kbps				
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting				
Alarm					
Service Alarm	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge				
Triggers					
System Alarm	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space				
Triggers	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing				
Alarm Events					
System					
Operating System	Embedded Linux				
User Management	Admin / User				
Log Management	User login / User operation / Alarm / Backup / Update				
Application	V Station SDK				
Programming					
Network					
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)				
Viewer Software	CMS (V Station) / Web / iOS app / Android app				
Max. User Access	16 Users				
Output Bandwidth	64Mbps				
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing				
Network Test	Supported				
Interfaces					
Ethernet	1 x Gigabit network port, RJ45 interface	1 x Gigabit network port, RJ45 interface	1 x 10/100M, RJ45 interface	1 x Gigabit network port, RJ45 interface	
PoE	16 x 10/100M PoE port, RJ45 interface, 15W / each port			/	
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)				
Audio In / Out	1 x RCA Line in / 1 x RCA Line out				
Alarm In / Out	4 x Inputs / 2 x Outputs				
Control	1 x RS485				
USB	2 x USB 2.0				
Environmental					
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F				
Operating Humidity	10% ~ 90%				
Electrical					
Power	100 ~ 240V AC, 50 ~ 60Hz				
Power Consumption	Max. 280W (HDD not included)			Max. 15W (HDD not included)	
Mechanical					
Weight	5kg / 11lb (HDD not included)			4.5kg / 9.9lb (HDD not included)	
Dimensions	444 x 410 x 44mm / 17.48" x 16.14" x 1.73"				

NVR1821-04A

4 Bay Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channels
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 64 user access simultaneously
- Max. 4 HDDs up to 32TB storage
- e-SATA storage supported

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

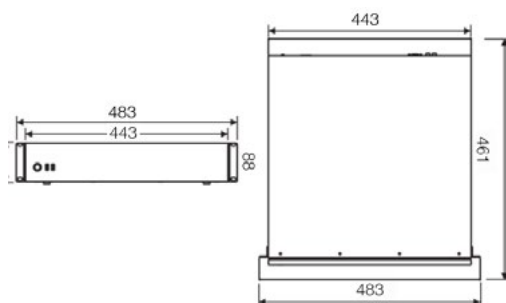
- Embedded Linux
- Low power consumption
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT, Socks5
- Alarm management
- Free CMS (NVR Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

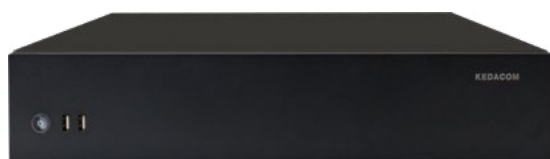


Specifications

	NVR1821-04009A	NVR1821-04016A	NVR1821-04032A
Video/Audio Input			
IP Camera Input	9 channel	16 channel	32 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bitrate	64kbps ~ 16384kbps		
Incoming Bandwidth	90Mbps	160Mbps	320Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor (Main / Secondary):	1, 3, 4, 9, 1+4, 1+8, 1/1, 2/1, 4/1, 1+4/1	1, 3, 4, 9, 15, 16, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/9	1, 3, 4, 9, 15, 16, 25, 36, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16
Multi Screen Display Client	up to 4 screens simultaneously: 1, 3, 4, 9, 12, 16, 20, 25, 30, 36, 42, 49, 56, 63, 64 1+5, 1+7, 1+8, 1+9, 1+11, 1+12, 1+13, 1+15, 1+16, 1+33, 1+47, 1+48		
E-Map Function	Live Viewing in E-Map (NVR Station) E-PTZ / Scheme / Polling / TV-Wall (optional with decoder) / Virtual channel		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback (Local Monitor)	4 x 4K@30fps / 9 x 1080p@30fps	4 x 4K@30fps / 16 x 1080p@30fps	
Playback (Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 9 x 1080p@30fps	4 x 4K@30fps / 16 x 1080p@30fps	
Synchronize Playback (Client)	4 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	4 x 3.5" HDD Max. 32TB (up to 8TB/each)		
RAID	RAID 0/1/5/6/10		
External	iPSAN (iSCSI), up to 10 x iPSAN, Max. 100T (optional) e-SATA		
Function	Disk group / Quota / Disk dormancy		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	NVR Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNTp, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	64 Users		
Output Bandwidth	256Mbps		
Function	NAT / Socks5 / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Hot Backup	N+1		
Interfaces			
Ethernet	2 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Alarm In / Out	2 x Inputs / 2 x Outputs		
Control	2 x RS485		
USB	2 x USB 2.0 1x USB3.0		
e-SATA	1 x e-SATA		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 90%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 15W (HDD not included)		
Mechanical			
Weight	7.6kg / 16.72lb (HDD not included)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		

NVR1821-08A

8 Bay Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channels
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 64 user access simultaneously
- Max. 8 HDDs up to 64TB storage
- e-SATA storage supported

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

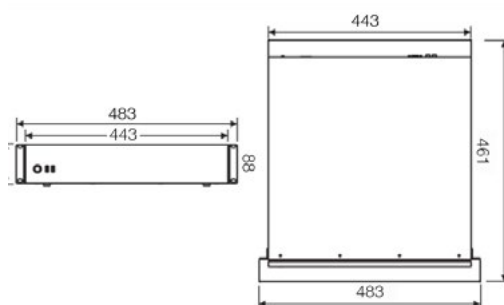
- Embedded Linux
- Low power consumption
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT, Socks5
- Alarm management
- Free CMS (NVR Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

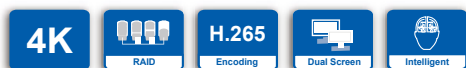


Specifications

	NVR1821-08009A	NVR1821-08016A	NVR1821-08032A	NVR1821-08064A
Video/Audio Input				
IP Camera Input	9 channel	16 channel	32 channel	64 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Compression	H.265 / H.264			
Protocols	Onvif, RTSP, KEDACOM			
Bitrate	64kbps ~ 16384kbps			
Incoming Bandwidth	90Mbps	160Mbps	320Mbps	320Mbps
Live Viewing				
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content			
Multi Screen Display Local monitor (Main / Secondary):	1, 3, 4, 9, 1+4, 1+8, 1/1, 2/1, 4/1, 1+4/1	1, 3, 4, 9, 15, 16, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9	1, 3, 4, 9, 15, 16, 25, 36, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16	1, 3, 4, 9, 15, 16, 25, 36, 48, 64, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 48/1, 64/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9
Multi Screen Display Client	up to 4 screens simultaneously: 1, 3, 4, 9, 12, 16, 20, 25, 30, 36, 42, 49, 56, 63, 64 1+5, 1+7, 1+8, 1+9, 1+11, 1+12, 1+13, 1+15, 1+16, 1+33, 1+47, 1+48			
E-Map Function	Live Viewing in E-Map (NVR Station)			
Recording	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder) / Virtual channel			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Mode	Manual / Continuous / Schedule / Event (Pre / Post)			
Event Trigger	Supported			
Tag	Supported			
Reliability	Automatic Network Replenishment (ANR)			
Search & Playback				
Search Mode	Date and time (Calendar) / Event			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Playback (Local Monitor)	4 x 4K@30fps / 9 x 1080p@30fps			
Playback (Client)	up to 16 x 4K@30fps			
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 9 x 1080p@30fps			
Synchronize Playback (Client)	4 x 4K@30fps			
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback			
Storage				
Max. Internal HDDs	8 x 3.5" HDD			
RAID	Max. 64TB (up to 8TB/each) RAID 0/1/5/6/10			
External	e-SATA			
Function	Disk group / Quota / Disk dormancy			
Audio				
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c			
Bit rate	32kbps ~ 64kbps			
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting			
Alarm				
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge			
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space			
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing			
System				
Operating System	Embedded Linux			
User Management	Admin / User			
Log Management	User login / User operation / Alarm / Backup / Update			
Application Programming	NVR Station SDK			
Network				
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)			
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app			
Max. User Access	64 Users			
Output Bandwidth	256Mbps			
Function	NAT / Socks5 / Multiple network access / Packet loss recovery / Auto network organizing			
Network Test	Supported			
Hot Backup	N+1			
Interfaces				
Ethernet	2 x Gigabyte network port, RJ45 interface			
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)			
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)			
Alarm In / Out	1 x RCA Line in / 1 x RCA Line out			
Control	2 x Inputs / 2 x Outputs			
USB	2 x RS485			
e-SATA	2 x USB 2.0 1x USB3.0			
Environmental				
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F			
Operating Humidity	10% ~ 90%			
Electrical				
Power	100 ~ 240V AC, 50 ~ 60Hz			
Power Consumption	Max. 15W (HDD not included)			
Mechanical				
Weight	7.6kg / 16.72lb (HDD not included)			
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"			

NVR2821-04B/2LI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 6,000 face detection comparison library
- Supports up to 12,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

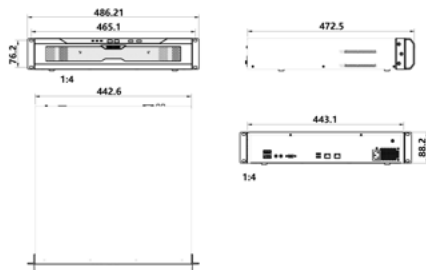
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2821-04009B/2LI	NVR2821-04016B/2LI	NVR2821-04032B/2LI
Video/Audio Input			
IP Camera Input	9 channel	16 channel	32 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	90Mbps	160Mbps	320Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
(Main / Secondary): Multi Screen Display	up to 4 screen simultaneously:		
Client	1 ~ 64 Multiple Layouts		
E-Map	Live Viewing in E-Map (V Station)		
Function	E-PTZ / Scheme (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback (Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	up to 16 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	4 x 3.5" HDD		
RAID	Max. 32TB (up to 8TB/each)		
External	RAID 0/1/5/6/10		
Function	IP SAN (iSCSI), up to 10 x IP SAN, Max. 100T (optional)		
Function	Disk group / Quota / Disk dormancy / Face pictures storage		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Recognitive Camera Channel	Up to 2		
Face Recognition Access	Up to 9	Up to 16	Up to 32
Control Terminal Channel	Up to 9	Up to 16	Up to 32
People Counting Sensor Channel	Up to 2		
LPR Camera Channel	Up to 2		
Face picture Library	64 libraries		
LPR Library	Up to 1,000 (6000 face comparison library optional)		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	256Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 Interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)		
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)		
Control	1 x RCA Line in / 1 x RCA Line out		
USB	1 x RS485, 1 x RS232		
USB	2 x USB2.0, 2 x USB3.0		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	13kg / 28.66lb (Gross Weight)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		

NVR2821-04B/8LI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 6,000 face detection comparison library
- Supports up to 12,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

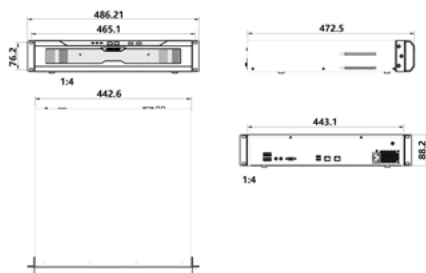
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2821-04009B/8LI	NVR2821-04016B/8LI	NVR2821-04032B/8LI
Video/Audio Input	9 channel	16 channel	32 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Resolution	H.265 / H.264		
Compression	Onvif, RTSP, KEDACOM		
Protocols	64kbps ~ 16384kbps		
Bit rate	90Mbps	160Mbps	320Mbps
Incoming Bandwidth			
Live Viewing	1 x HDMI, 1 x VGA, simultaneously output different content		
Local Display	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
Multi Screen Display Local monitor			
(Main / Secondary):			
Multi Screen Display	up to 4 screen simultaneously:		
Client	1 ~ 64 Multiple Layouts		
E-Map	Live Viewing In E-Map (V Station)		
Function	E-PTZ / Scheme (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback(Client)	up to 16 x 4K@30fps		
Synchronize Playback	4 x 4K@30fps / 16 x 1080p@30fps		
(Local Monitor)	up to 16 x 4K@30fps		
Synchronize Playback (Client)	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Function			
Storage			
Max. Internal HDDs	4 x 3.5" HDD		
RAID	Max. 32TB (up to 8TB/each)		
External	RAID 0/1/5/6/10		
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
Disk group / Quota / Disk dormancy / Face pictures storage			
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Up to 8			
Recognitive Camera Channel			
Face Recognition Access	Up to 9	Up to 16	Up to 32
Control Terminal Channel			
People Counting Sensor Channel	Up to 9	Up to 16	Up to 32
LPR Camera Channel	Up to 4		
Face picture Library	64 libraries		
Up to 1,000 (6000 face comparison library optional)			
LPR Library	Up to 12,000		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	256Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)		
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)		
Control	1 x RCA Line in / 1 x RCA Line out		
USB	1 x RS485, 1 x RS232		
Environmental	2 x USB2.0, 2 x USB3.0		
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	13kg / 28.66lb (Gross Weight)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		

NVR2821-04B/16LI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 6,000 face detection comparison library
- Supports up to 12,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

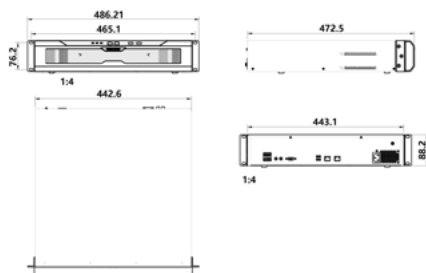
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

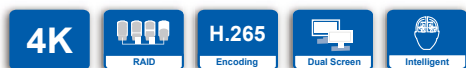


Specifications

	NVR2821-04016B/16LI	NVR2821-04032B/16LI
Video/Audio Input	16 channel	32 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Resolution	H.265 / H.264	
Compression	Onvif, RTSP, KEDACOM	
Protocols	64kbps ~ 16384kbps	
Bit rate	160Mbps	320Mbps
Incoming Bandwidth		
Live Viewing	1 x HDMI, 1 x VGA, simultaneously output different content	
Local Display	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
Multi Screen Display Local monitor		
(Main / Secondary):		
Multi Screen Display	up to 4 screen simultaneously:	
Client	1 ~ 64 Multiple Layouts	
E-Map	Live Viewing In E-Map (V Station)	
Function	E-PTZ / Scheme (V Station)	
Recording		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)	
Event Trigger	Supported	
Tag	Supported	
Reliability	Automatic Network Replenishment (ANR)	
Search & Playback		
Search Mode	Date and time (Calendar) / Event	
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps	
Playback(Client)	up to 16 x 4K@30fps	
Synchronize Playback	4 x 4K@30fps / 16 x 1080p@30fps	
(Local Monitor)	up to 16 x 4K@30fps	
Synchronize Playback (Client)	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback	
Function		
Storage		
Max. Internal HDDs	4 x 3.5" HDD	
RAID	Max. 32TB (up to 8TB/each)	
External	RAID 0/1/5/6/10	
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)	
Disk group / Quota / Disk dormancy / Face pictures storage		
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726	
Bit rate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting	
Alarm		
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching	
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space	
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing	
AI		
Face Matching	Real-time / Post-event	
Search Mode	Date and time / Camera / Face image	
Recognitive Camera Channel	Up to 16	
Face Recognition Access	Up to 16	Up to 32
Control Terminal Channel		
People Counting Sensor Channel	Up to 16	Up to 32
LPR Camera Channel	Up to 4	
Face picture Library	64 libraries	
LPR Library	Up to 1,000 (6000 face comparison library optional)	
System		
Operating System	Embedded Linux	
User Management	Admin / User	
Log Management	User login / User operation / Alarm / Backup / Update	
Application Programming	V Station SDK	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)	
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app	
Max. User Access	16 Users	
Output Bandwidth	256Mbps	
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing	
Network Test	Supported	
Interfaces		
Ethernet	3 x Gigabit network port, RJ45 interface	
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)	
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)	
Control	1 x RCA Line in / 1 x RCA Line out	
USB	1 x RS485, 1 x RS232	
Environmental	2 x USB2.0, 2 x USB3.0	
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F	
Operating Humidity	10% ~ 85%	
Electrical		
Power	100 ~ 240V AC, 50 ~ 60Hz	
Power Consumption	Max. 150W (HDD not included)	
Mechanical		
Weight	13kg / 28.66lb (Gross Weight)	
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"	

NVR2821-04B/4HI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

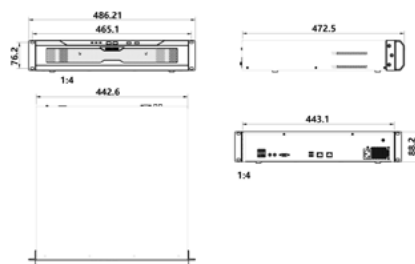
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

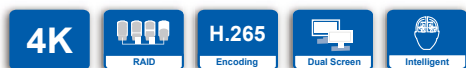


Specifications

	NVR2821-04009B/4HI	NVR2821-04016B/4HI	NVR2821-04032B/4HI
Video/Audio Input			
IP Camera Input	9 channel	16 channel	32 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	90Mbps	160Mbps	320Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor(Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
Multi Screen Display Client	up to 4 screen simultaneously: 1 ~ 64 Multiple Layouts		
E-Map Function	Live Viewing in E-Map (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback(Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	up to 16 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	4 x 3.5" HDD		
RAID	Max. 32TB (up to 8TB/each) RAID 0/1/5/6/10		
External	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
Function	Disk group / Quota / Disk dormancy / Face pictures storage		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Recognitive Camera Channel	Up to 4		
Face Recognition Access	Up to 9	Up to 16	Up to 32
Control Terminal Channel	Up to 9	Up to 16	Up to 32
People Counting Sensor	Up to 9	Up to 16	Up to 32
Channel	Up to 4		
LPR Camera Channel	64 libraries		
Face Picture Library	Up to 50,000		
LPR Library	Up to 100,000		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	256Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Control	1 x RS485, 1 x RS232		
USB	2 x USB2.0, 2 x USB3.0		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	13kg / 28.66lb (Gross Weight)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		

NVR2821-04B/8HI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

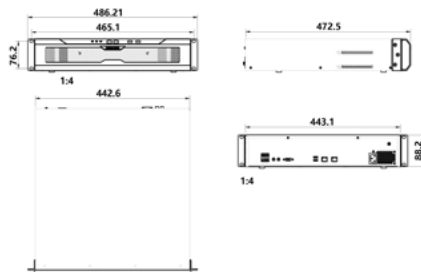
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2821-04009B/8HI	NVR2821-04016B/8HI	NVR2821-04032B/8HI
Video/Audio Input			
IP Camera Input	9 channel	16 channel	32 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	90Mbps	160Mbps	320Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor(Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
Multi Screen Display Client	up to 4 screen simultaneously: 1 ~ 64 Multiple Layouts		
E-Map Function	Live Viewing in E-Map (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback(Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	up to 16 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	4 x 3.5" HDD		
RAID	Max. 32TB (up to 8TB/each) RAID 0/1/5/6/10		
External	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
Function	Disk group / Quota / Disk dormancy / Face pictures storage		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Recognitive Camera Channel	Up to 8		
Face Recognition Access	Up to 9	Up to 16	Up to 32
Control Terminal Channel	Up to 9	Up to 16	Up to 32
People Counting Sensor	Up to 9	Up to 16	Up to 32
Channel	Up to 8		
LPR Camera Channel	64 libraries		
Face Picture Library	Up to 50,000		
LPR Library	Up to 100,000		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	256Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Control	1 x RS485, 1 x RS232		
USB	2 x USB2.0, 2 x USB3.0		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	13kg / 28.66lb (Gross Weight)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		

NVR2821-04B/16HI

4-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

AI

- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

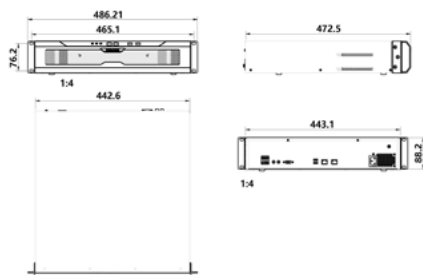
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm

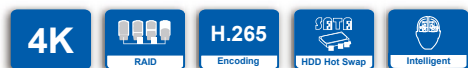


Specifications

	NVR2821-04016B/16HI	NVR2821-04032B/16HI
Video/Audio Input	16 channel	32 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Resolution	H.265 / H.264	
Compression	Onvif, RTSP, KEDACOM	
Protocols	64kbps ~ 16384kbps	
Bit rate	160Mbps	320Mbps
Incoming Bandwidth		
Live Viewing		
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content	
Multi Screen Display Local	1/1, 4/4, 1+5/1+5, 1/1, 4/4, 1+5/1+5,	
monitor(Main / Secondary):	1+7/1+7, 9/9, 16/16	1+7/1+7, 9/9, 16/16
Multi Screen Display Client	up to 4 screen simultaneously:	
	1 ~ 64 Multiple Layouts	
E-Map	Live Viewing in E-Map (V Station)	
Function	E-PTZ / Scheme (V Station)	
Recording		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)	
Event Trigger	Supported	
Tag	Supported	
Reliability	Automatic Network Replenishment (ANR)	
Search & Playback		
Search Mode	Date and time (Calendar) / Event	
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps	
Playback(Client)	up to 16 x 4K@30fps	
Synchronize Playback	4 x 4K@30fps / 16 x 1080p@30fps	
(Local Monitor)		
Synchronize Playback (Client)	up to 16 x 4K@30fps	
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback	
Storage		
Max. Internal HDDs	4 x 3.5" HDD	
RAID	Max. 32TB (up to 8TB/each)	
External	RAID 0/1/5/6/10	
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)	
Audio	Disk group / Quota / Disk dormancy / Face pictures storage	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726	
Bit rate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting	
Alarm		
Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus /		
Service Alarm Triggers	Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching	
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space	
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing	
AI		
Face Matching	Real-time / Post-event	
Search Mode	Date and time / Camera / Face image	
Recognitive Camera Channel	Up to 16	
Face Recognition Access	Up to 16	Up to 32
Control Terminal Channel		
People Counting Sensor	Up to 16	Up to 32
Channel		
LPR Camera Channel	Up to 16	
Face Picture Library	64 libraries	
LPR Library	Up to 50,000	
System		
Operating System	Embedded Linux	
User Management	Admin / User	
Log Management	User login / User operation / Alarm / Backup / Update	
Application Programming	V Station SDK	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)	
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app	
Max. User Access	16 Users	
Output Bandwidth	256Mbps	
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing	
Network Test	Supported	
Interfaces		
Ethernet	3 x Gigabit network port, RJ45 interface	
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)	
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)	
Control	1 x RCA Line in / 1 x RCA Line out	
USB	1 x RS485, 1 x RS232	
Environmental	2 x USB2.0, 2 x USB3.0	
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F	
Operating Humidity	10% ~ 85%	
Electrical		
Power	100 ~ 240V AC, 50 ~ 60Hz	
Power Consumption	Max. 150W (HDD not included)	
Mechanical		
Weight	13kg / 28.66lb (Gross Weight)	
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"	

NVR2881-16B/4HI

16-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channel
- Up to 420Mbps incoming bandwidth
- 384Mbps output bandwidth
- 16 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- IPSAN storage supported

AI

- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

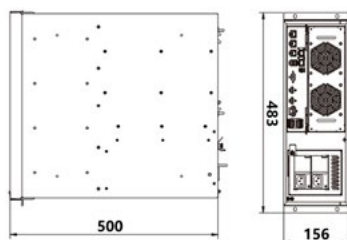
- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2881-16016B/4HI	NVR2881-16032B/4HI	NVR2881-16064B/4HI	NVR2881-16128B/4HI
Video/Audio Input				
IP Camera Input	16 channel	32 channel	64 channel	128 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Compression	H.265 / H.264			
Protocols	Onvif, RTSP, KEDACOM			
Bit rate	64kbps ~ 16384kbps			
Incoming Bandwidth	160Mbps	320Mbps	420Mbps	512Mbps
Live Viewing				
Local Display	2 x HDMI, 1 x VGA, simultaneously output different content			
Multi Screen Display Local monitor(Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16			
Multi Screen Display Client	up to 4 screen simultaneously:			
E-Map	1 ~ 64 Multiple Layouts			
Function	Live Viewing in E-Map (V Station)			
Recording				
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Mode	Manual / Continuous / Schedule / Event (Pre / Post)			
Event Trigger	Supported			
Tag	Supported			
Reliability	Automatic Network Replenishment (ANR)			
Search & Playback				
Search Mode	Date and time (Calendar) / Event			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps			
Playback(Client)	up to 16 x 4K@30fps			
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps			
Synchronize Playback (Client)	up to 16 x 4K@30fps			
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback			
Storage				
Max. Internal HDDs	16x 3.5" HDD			
RAID	Max. 128TB (up to 8TB/each)			
External	RAID 0/1/5/6/10			
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)			
	Disk group / Quota / Disk dormancy			
Audio				
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726			
Bit rate	32kbps ~ 64kbps			
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting			
Alarm				
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching			
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space			
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing			
AI				
Face Matching	Real-time / Post-event			
Search Mode	Date and time / Camera / Face image			
People Counting	Supported			
Recognitive Camera Channel	Up to 4			
Face Recognition Access	Up to 16	Up to 32		
Control Terminal Channel	Up to 16	Up to 32		
People Counting Sensor Channel	Up to 16	Up to 32		
LPR Camera Channel	Up to 4			
Face Picture Library	64 libraries			
LPR Library	Up to 50,000			
System				
Operating System	Embedded Linux			
User Management	Admin / User			
Log Management	User login / User operation / Alarm / Backup / Update			
Application Programming	V Station SDK			
Network				
Network Protocols	TCP/IP, UDP, HTTP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)			
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app			
Max. User Access	16 Users			
Output Bandwidth	384Mbps			
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing			
Network Test	Supported			
Interfaces				
Ethernet	3 x Gigabit network port, RJ45 interface			
Video Out	2 x HDMI (up to 3840 x 2160@60Hz)			
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)			
Alarm In / Out	1 x RCA Line in / 1 x RCA Line out			
Control	2 x Inputs / 2 x Outputs			
USB	1 x RS485, 1 x RS232			
	2 x USB2.0, 2 x USB3.0			
Environmental				
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F			
Operating Humidity	10% ~ 85%			
Electrical				
Power	100 ~ 240V AC, 50 ~ 60Hz			
Power Consumption	Max. 150W (HDD not included)			
Mechanical				
Weight	20kg / 44lb (HDD not included)			
Dimensions	483 x 500 x 156mm / 19.02" x 19.69" x 6.14"			

NVR2881-16B/8HI

16-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channel
- Up to 420Mbps incoming bandwidth
- 384Mbps output bandwidth
- 16 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- IPSAN storage supported

AI

- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

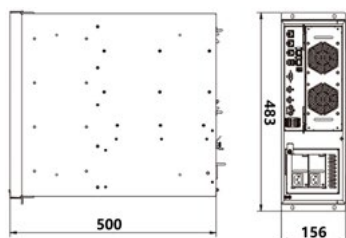
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Specifications

	NVR2881-16016B/8HI	NVR2881-16032B/8HI	NVR2881-16064B/8HI
Video/Audio Input			
IP Camera Input	16 channel	32 channel	64 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	160Mbps	320Mbps	420Mbps
Live Viewing			
Local Display	2 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor(Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16		
Multi Screen Display Client	up to 4 screen simultaneously: 1 ~ 64 Multiple Layouts		
E-Map Function	Live Viewing in E-Map (V Station) E-PTZ / Scheme (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback(Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	up to 16 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	16x 3.5" HDD		
RAID	Max. 128TB (up to 8TB/each) RAID 0/1/5/6/10		
External	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
Function	Disk group / Quota / Disk dormancy		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Recognitive Camera Channel	Up to 8		
Face Recognition Access	Up to 16	Up to 32	
Control Terminal Channel			
People Counting Sensor	Up to 16	Up to 32	
Channel	Up to 8		
LPR Camera Channel	64 libraries		
Face Picture Library	Up to 50,000		
LPR Library	Up to 100,000		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	384Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	2 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Alarm In / Out	2 x Inputs / 2 x Outputs		
Control	1 x RS485, 1 x RS232		
USB	2 x USB2.0, 2 x USB3.0		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	20kg / 44lb (HDD not included)		
Dimensions	483 x 500 x 156mm / 19.02" x 19.69" x 6.14"		

Dimensions

Units:mm



NVR2881-16B/16HI

16-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channel
- Up to 420Mbps incoming bandwidth
- 384Mbps output bandwidth
- 16 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- IPSAN storage supported

AI

- Supports deep learning algorithm
- Supports up to 50,000 Face Detection Comparison Library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

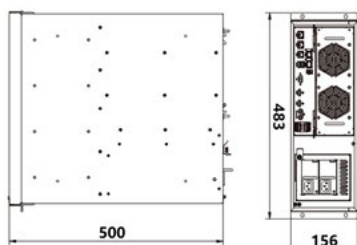
- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2881-16016B/16HI	NVR2881-16032B/16HI	NVR2881-16064B/16HI
Video/Audio Input			
IP Camera Input	16 channel	32 channel	64 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	160Mbps	320Mbps	420Mbps
Live Viewing			
Local Display	2 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor(Main / Secondary):	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16		
Multi Screen Display Client	up to 4 screen simultaneously: 1 ~ 64 Multiple Layouts		
E-Map	Live Viewing in E-Map (V Station)		
Function	E-PTZ / Scheme (V Station)		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback(Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	up to 16 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	16x 3.5" HDD		
RAID	Max. 128TB (up to 8TB/each)		
External	RAID 0/1/5/6/10		
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
Audio	Disk group / Quota / Disk dormancy		
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
AI			
Face Matching	Real-time / Post-event		
Search Mode	Date and time / Camera / Face image		
Recognitive Camera Channel	Up to 16		
Face Recognition Access	Up to 16	Up to 32	
Control Terminal Channel	Up to 16		
People Counting Sensor	Up to 16	Up to 32	
Channel	Up to 16		
LPR Camera Channel	Up to 16		
Face Picture Library	64 libraries		
LPR Library	Up to 50,000		
LPR Library	Up to 100,000		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	V Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	16 Users		
Output Bandwidth	384Mbps		
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Interfaces			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	2 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Alarm In / Out	2 x Inputs / 2 x Outputs		
Control	1 x RS485, 1 x RS232		
USB	2 x USB2.0, 2 x USB3.0		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 150W (HDD not included)		
Mechanical			
Weight	20kg / 44lb (HDD not included)		
Dimensions	483 x 500 x 156mm / 19.02" x 19.69" x 6.14"		

NVR2881-16B/32HI

16-Bay H.265 4K AI Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channel
- Up to 420Mbps incoming bandwidth
- 384Mbps output bandwidth
- 16 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- IPSAN storage supported

AI

- Supports deep learning algorithm
- Supports up to 50,000 Face Detection Comparison Library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

Easy to install

- Auto network organizing
- Built-in DHCP server

High reliability

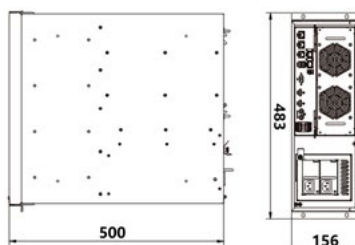
- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

Abundant functions and features

- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Dimensions

Units:mm



Specifications

	NVR2881-16032B/32HI	NVR2881-16064B/32HI
Video/Audio Input		
IP Camera Input	32 channel	64 channel
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Compression	H.265 / H.264	
Protocols	Onvif, RTSP, KEDACOM	
Bit rate	64kbps ~ 16384kbps	
Incoming Bandwidth	320Mbps	420Mbps
Live Viewing		
Local Display	2 x HDMI, 1 x VGA, simultaneously output different content	
Multi Screen Display Local monitor	1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16	
(Main / Secondary): Multi Screen Display	up to 4 screen simultaneously:	
Client	1 ~ 64 Multiple Layouts	
E-Map	Live Viewing in E-Map (V Station)	
Function	E-PTZ / Scheme (V Station)	
Recording		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)	
Event Trigger	Supported	
Tag	Supported	
Reliability	Automatic Network Replenishment (ANR)	
Search & Playback		
Search Mode	Date and time (Calendar) / Event	
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps	
Playback(Client)	up to 16 x 4K@30fps	
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps	
Synchronize Playback (Client)	up to 16 x 4K@30fps	
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback	
Storage		
Max. Internal HDDs	16 x 3.5" HDD	
RAID	Max. 128TB (up to 8TB/each)	
External	RAID 0/1/5/6/10	
Function	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)	
	Disk group / Quota / Disk dormancy / Face pictures storage	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726	
Bit rate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting	
Alarm		
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching	
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space	
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing	
AI		
Face Matching	Real-time / Post-event	
Search Mode	Date and time / Camera / Face image	
Recognitive Camera Channel	Up to 32	
Face Recognition Access	Up to 32	
Control Terminal Channel		
People Counting Sensor Channel	Up to 32	
LPR Camera Channel	Up to 16	
Face Picture Library	64 libraries	
LPR Library	Up to 50,000	
System		
Operating System	Embedded Linux	
User Management	Admin / User	
Log Management	User login / User operation / Alarm / Backup / Update	
Application Programming	V Station SDK	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)	
Viewer Software	CMS (V Station) / Web / iOS app / Android app	
Max. User Access	16 Users	
Output Bandwidth	384Mbps	
Function	NAT / Multiple network access / Packet loss recovery / Auto network organizing	
Network Test	Supported	
Interfaces		
Ethernet	3 x Gigabit network port, RJ45 interface	
Video Out	2 x HDMI (up to 3840 x 2160@60Hz)	
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)	
Alarm In / Out	1 x RCA Line in / 1 x RCA Line out	
Control	2 x Inputs / 2 x Outputs	
USB	1 x RS485, 1 x RS232	
	2 x USB2.0, 2 x USB3.0	
Environmental		
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F	
Operating Humidity	10% ~ 85%	
Electrical		
Power	100 ~ 240V AC, 50 ~ 60Hz	
Power Consumption	Redundant Power Supply (the second power is optional)	
	Max. 150W (HDD not included)	
Mechanical		
Weight	20kg / 44lb (HDD not included)	
Dimensions	483 x 500 x 156mm / 19.02" x 19.69" x 6.14"	

NVR2860E-08A

8 Bay RAID Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channels
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 64 user access simultaneously
- Max. 8 HDDs up to 64TB storage
- e-SATA storage supported

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

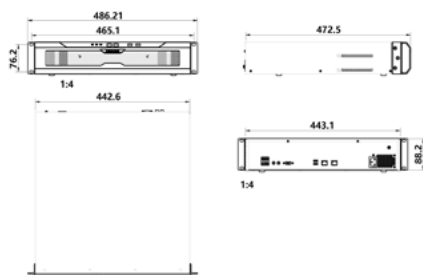
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT, Socks5
- Alarm management
- Free CMS (NVR Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Specifications

	NVR2860E-08016A	NVR2860E-08032A	NVR2860E-08048A	NVR2860E-08064A
Video/Audio Input	16 channel	32 channel	48 channel	64 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Resolution	H.265 / H.264			
Compression	Onvif, RTSP, KEDACOM			
Protocols	64kbps ~ 16384kbps			
Bit rate	160Mbps	320Mbps	320Mbps	320Mbps
Incoming Bandwidth				
Live Viewing	1 x HDMI, 1 x VGA, simultaneously output different content			
Local Display	1, 3, 4, 9, 15, 16, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9	1, 3, 4, 9, 15, 16, 25, 36, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 16/1, 36/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9	1, 3, 4, 9, 15, 16, 25, 36, 48, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 48/1, 64/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16	1, 3, 4, 9, 15, 16, 25, 36, 48, 64, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 48/1, 64/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16
"Multi Screen Display Local monitor (Main / Secondary):"				
Multi Screen Display	up to 4 screens simultaneously:			
Client	1, 3, 4, 9, 12, 16, 20, 25, 30, 36, 42, 49, 56, 63, 64			
E-Map	1+5, 1+7, 1+8, 1+9, 1+11, 1+12, 1+13, 1+15, 1+16, 1+33, 1+47, 1+48			
Function	Live Viewing in E-Map (NVR Station)			
Recording	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder) / Virtual channel			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Mode	Manual / Continuous / Schedule / Event (Pre / Post)			
Event Trigger	Supported			
Tag	Supported			
Reliability	Automatic Network Replenishment (ANR)			
Search & Playback				
Search Mode	Date and time (Calendar) / Event			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF			
Playback(Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps			
Playback(Client)	up to 16 x 4K@30fps			
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps			
Synchronize Playback (Client)	4 x 4K@30fps			
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback			
Storage				
Max. Internal HDDs	8 x 3.5" HDD			
RAID	Max. 64TB (up to 8TB/each)			
External	RAID 0/1/5/6/10			
Function	IP SAN (iSCSI), up to 10 x IP SAN, Max. 100T (optional)			
Audio				
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726			
Bit rate	32kbps ~ 64kbps			
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting			
Alarm				
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge			
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space			
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing			
System				
Operating System	Embedded Linux			
User Management	Admin / User			
Log Management	User login / User operation / Alarm / Backup / Update			
Application Programming	NVR Station SDK			
Network				
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)			
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app			
Max. User Access	64 Users			
Output Bandwidth	256Mbps			
Function	NAT / Socks5 / Multiple network access / Packet loss recovery / Auto network organizing			
Network Test	Supported			
Interfaces				
Ethernet	2 x Gigabit network port, RJ45 interface			
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)			
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz)			
Alarm In / Out	1 x RCA Line in / 1 x RCA Line out			
Control	2 x RS485			
USB	2 x USB2.0, 1 x USB3.0			
e-SATA	1 x e-SATA			
Environmental				
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F			
Operating Humidity	10% ~ 85%			
Electrical				
Power	100 ~ 240V AC, 50 ~ 60Hz			
Power Consumption	Max. 20W (HDD not included)			
Mechanical				
Weight	12.5kg / 27.5lb (HDD not included)			
Dimensions	443 x 561 x 88mm / 16.93" x 22.09" x 3.46"			

Dimensions

Units:mm



NVR2882-16A

16 Bay RAID Professional Network Video Recorder



Features

High-performance, High-capacity

- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 64 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 64 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- e-SATA storage supported

Easy to install

- Automatic network organizing
- Built-in DHCP server

High reliability

- Embedded Linux
- RAID 0/1/5/6/10/X
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

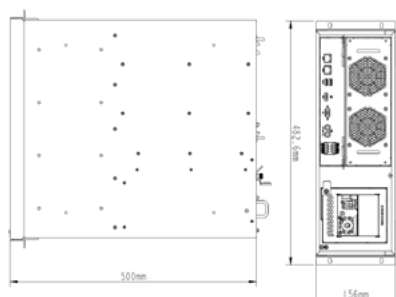
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT, Socks5
- Alarm management
- Free CMS (NVR Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

Specifications

	NVR2882-16016A	NVR2882-16032A	NVR2882-16064A
Video/Audio Input	16 channel	32 channel	64 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Resolution			
Compression	H.265 / H.264		
Protocols	Onvif, RTSP, KEDACOM		
Bit rate	64kbps ~ 16384kbps		
Incoming Bandwidth	160Mbps	320Mbps	320Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, simultaneously output different content		
Multi Screen Display Local monitor (Main / Secondary):	1, 3, 4, 9, 15, 16, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9	1, 3, 4, 9, 15, 16, 25, 36, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16	1, 3, 4, 9, 15, 16, 25, 36, 48, 64, 1+4, 1+8, 1+9, 1+15, 1/1, 2/1, 4/1, 9/1, 15/1, 16/1, 36/1, 48/1, 64/1, 1+4/1, 1+8/1, 1+9/1, 1+15/1, 4/9, 9/4, 9/9, 16/16
Multi Screen Display Client	up to 4 screens simultaneously: 1, 3, 4, 9, 12, 16, 20, 25, 30, 36, 42, 49, 56, 63, 64 1+5, 1+7, 1+8, 1+9, 1+11, 1+12, 1+13, 1+15, 1+16, 1+33, 1+47, 1+48		
E-Map Function	Live Viewing in E-Map (NVR Station) E-PTZ / Scheme / Polling / TV-Wall (optional with decoder) / Virtual channel		
Recording			
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Reliability	Automatic Network Replenishment (ANR)		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Playback (Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	4 x 4K@30fps / 16 x 1080p@30fps		
Synchronize Playback (Client)	4 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback		
Storage			
Max. Internal HDDs	16x 3.5" HDD		
Max. Internal HDDs	Max. 128TB (up to 8TB/each)		
RAID	RAID 0/1/5/6/10		
External	IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)		
e-SATA	e-SATA		
Function	Disk group / Quota / Disk dormancy		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge			
Service Alarm Triggers			
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient snapshot space		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	NVR Station SDK		
Network			
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SMTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional)		
Viewer Software	CMS (NVR Station) / Web / iOS app / Android app		
Max. User Access	64 Users		
Output Bandwidth	256Mbps		
Function	NAT / Socks5 / Multiple network access / Packet loss recovery / Auto network organizing		
Network Test	Supported		
Hot Backup	N+1		
Interfaces			
Ethernet	2 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
Audio In / Out	1 x RCA Line in / 1 x RCA Line out		
Alarm In / Out	2 x Inputs / 2 x Outputs		
Control	2 x RS485		
USB	2 x USB2.0, 1 x USB3.0		
e-SATA	1 x e-SATA		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 85%		
Electrical			
Power	100 ~ 240V AC, 50 ~ 60Hz		
Power Consumption	Max. 50W (HDD not included)		
Mechanical			
Weight	20kg / 44lb (HDD not included)		
Dimensions	483 x 500 x 156mm / 19.02" x 19.69" x 6.14"		

Dimensions

Units:mm



PC4

Single-Lens People Counting Sensor



Specifications

PC4	
Basic Parameter	
Image Sensor	1/4" progressive scan CMOS
Pixels	5.0 Megapixel
Focal Length	3.15mm
Angle of View	Diagonal 160°, Horizontal 120°
Installation Height	2.8m ~ 4.5m
Intelligent Features	
Target Detection	Head and shoulders
Target Filter	Shopping cart / Baggage
Statistical Method	Counts people entering and exiting separately
Detection Region	1 zone
API	CGI, SDK
Detection Accuracy	Up to 92% (Laboratory data)
Network	
Wi-Fi	802.11 a/b/g/n 2.4G
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, FTP, IGMP, IPv4
User Interface	Web (IE, Firefox, Chrome)
Interfaces	
Ethernet	10/100M, RJ45 interface
USB	1 x Micro USB2.0
Environmental	
Operating Temperature	-30°C ~ 60°C / -22°F ~ 140°F
Operating Humidity	20% ~ 80%
Electrical	
Power	5V DC ± 10%
Power Consumption	Max. 10W
Mechanical	
Weight	0.15 kg / 0.33lb (Gross Weight)
Dimensions	13.1 x 7.3 x 3.7mm / 0.52" x 2.87" x 0.15"

Features

Intelligent Functions

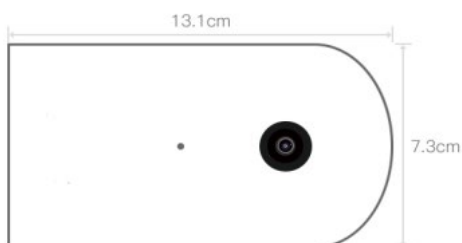
- Support shopping cart and baggage filtering
- Region people counting, two-way Flow detection
- Up to 92% detection accuracy

Dimensions

Units:mm



13.1cm x 7.3cm x 3.7cm



KDM2801H-G2

VMS - Video Management System



Features

High-performance, High-capacity

- Up to 1000 channel per unit
- Max. 640Mbps incoming bandwidth
- Max. 640Mbps output bandwidth
- Up to 300 users access simultaneously
- 8-level cascade
- 32 devices stack per level

High reliability

- Embedded Linux
- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

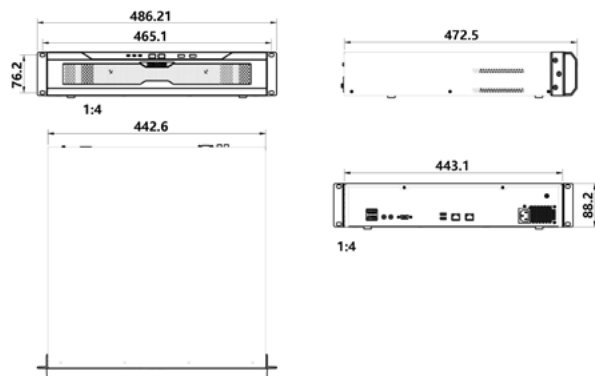
- E-Map, TV-Wall supported
- Bi-directional audio
- NAT, Socks5
- Alarm management
- Free Client (CU client)

Specifications

	KDM2801H-G2
Capacity	
Access	1000 Channel
Stack	32 devices per level, up to 3000 Channel
Cascade	8-level, up to 20000 Channel
Incoming Bandwidth	Max. 640Mbps
Output Bandwidth	Max. 640Mbps
Live Viewing	
Multi Screen Display	up to 64 multi-window
E-Map	Live Viewing in E-Map
Function	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder)
Recording	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Alarm input / Video lost / Motion Detection
Search & Playback	
Search Mode	Date and time (Calendar) / Event
Playback Mode	Single Playback / Multi Playback / Synchronize Playback
Function	Slow forward / Fast forward / Loop / Single Frame / E-PTZ
Storage	
External	IPSAN (iSCSI), up to 31 x IPSAN
Video	
Compression	H.265 / H.264 / MPEG4
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Frame Rate	1 ~ 30fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Alarm	
Alarm Triggers	Alarm input / Video lost / Motion Detection / Disk alarm
Alarm Events	Snapshot / Recording / PTZ preset / Alarm out / Buzzer / Link to Client / Alarm caption
System	
Operating System	Embedded Linux
User Management	Super admin / Admin / User
Log Management	User login / User operation / Device / Alarm / Backup
Network	
Network Protocols	SIP, TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, FTP, SNMP, VSIP
Viewer Software	CU Client
Max. User Access	300 Users
Protocols	ONVIF, GB/T 28181-2011
Application Programming	CU SDK
Function	NAT / Socks5 / Multiple network access / Packet loss recovery
Hot Backup	N+1
Interfaces	
Ethernet	2 x Gigabit network port, RJ45 interface
USB	4 x USB2.0
Control	1 x RS485
Video Out	1 x VGA, for debug only
Internal	2 x USB2.0, for USB license dongle
Environmental	
Operating Temperature	0°C ~ 55°C / 32°F ~ 131°F
Operating Humidity	10% ~ 90%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 25W
Mechanical	
Weight	13kg / 28.66lb (Gross Weight)
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"

Dimensions

Units:mm



KDM2802A-G2

High-capacity VMS - Video Management System



Features

High-performance, High-capacity

- Up to 5000 channel per unit
- Max. 640Mbps incoming bandwidth
- Max. 640Mbps output bandwidth
- Up to 300 users access simultaneously
- 8-level cascade
- 32 devices stack per level

High reliability

- Embedded Linux
- Supports Packet Loss Recovery (PLR)
- Redundant Power Supply
- N+1 Hot Backup

Abundant functions and features

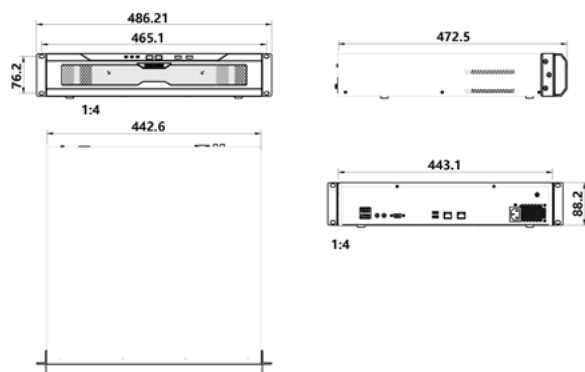
- E-Map, TV-Wall supported
- Bi-directional audio
- NAT, Socks5
- Alarm management
- Free Client (CU client)

Specifications

	KDM2802A-G2
Capacity	
Access	5000 Channel
Stack	32 devices per level, up to 15000 Channel
Cascade	8-level, up to 50000 Channel
Incoming Bandwidth	Max. 640Mbps
Output Bandwidth	Max. 640Mbps
Live Viewing	
Multi Screen Display	Up to 64 multi-window
E-Map	Live Viewing in E-Map
Function	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder)
Recording	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Alarm input / Video lost / Motion Detection
Search & Playback	
Search Mode	Date and time (Calendar) / Event
Playback Mode	Single Playback / Multi Playback / Synchronize Playback
Function	Slow forward / Fast forward / Loop / Single Frame / E-PTZ
Storage	
External	IPSAN (iSCSI), up to 31 x IPSAN
Video	
Compression	H.265 / H.264 / MPEG4
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Frame Rate	1 ~ 30fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Alarm	
Alarm Triggers	Alarm input / Video lost / Motion Detection / Disk alarm
Alarm Events	Snapshot / Recording / PTZ preset / Alarm out / Buzzer / Link to Client / Alarm caption
System	
Operating System	Embedded Linux
User Management	Super admin / Admin / User
Log Management	User login / User operation / Device / Alarm / Backup
Network	
Network Protocols	SIP, TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, FTP, SNTp, VSIP
Viewer Software	CU Client
Max. User Access	300 Users
Protocols	ONVIF, GB/T 28181-2011
Application Programming	CU SDK
Function	NAT / Socks5 / Multiple network access / Packet loss recovery
Hot Backup	N+1
Interfaces	
Ethernet	3 x Gigabit network port, RJ45 interface
USB	4 x USB2.0
Control	1 x RS485
Video Out	1 x VGA, for debug only
Internal	2 x USB2.0, for USB license dongle
Environmental	
Operating Temperature	0°C ~ 55°C / 32°F ~ 131°F
Operating Humidity	10% ~ 90%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Redundant Power Supply Max. 80W
Mechanical	
Weight	15kg / 33.07lb (Gross Weight)
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"

Dimensions

Units:mm



KDM2901-S-G2

VMS - Video Management System



Features

High-performance, High-capacity

- Up to 300 channel per unit
- Up to 300 users access simultaneously
- 8-level cascade
- 32 devices stack per level

High reliability

- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

- E-Map, TV-Wall supported
- Bi-directional audio
- NAT, Socks5
- Alarm management
- Free Client (CU client)

Specifications

	KDM2901-S-G2
Capacity	
Access	300 Channel
Stack	32 devices per level, up to 3000 Channel (depend on root vms)
Cascade	8-level, up to 20000 Channel (depend on root vms)
Live Viewing	
Multi-Screen Display	Up to 64 multi-window
E-Map	Live Viewing in E-Map
Function	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder)
Recording	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Alarm input / Video lost / Motion Detection
Search & Playback	
Search Mode	Date and time (Calendar) / Event
Playback Mode	Single Playback / Multi Playback / Synchronize Playback
Function	Slow forward / Fast forward / Loop / Single Frame / E-PTZ
Storage	
External	IP SAN (iSCSI), up to 31 x IP SAN
Video	
Compression	H.265 / H.264 / MPEG4
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Frame Rate	1 ~ 30fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Alarm	
Alarm Triggers	Alarm input / Video lost / Motion Detection / Disk alarm
Alarm Events	Snapshot / Recording / PTZ preset / Alarm out / Buzzer / Link to Client / Alarm caption
System	
User Management	Super admin / Admin / User
Log Management	User login / User operation / Device / Alarm / Backup
System Requirements (Hardware)	
CPU	Min: Intel Core i3 Recommended: Intel Core i5
RAM	Min: 8GB Recommended: 16GB
HDD	1TB
System Requirements (Software)	
Supported Operating System	Centos 6.5 64-bit

KDM2901-K-G2

VMS - Video Management System



Features

High-performance, High-capacity

- Up to 1,000 channel per unit
- Up to 300 users access simultaneously
- 8-level cascade
- 32 devices stack per level

High reliability

- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

- E-Map, TV-Wall supported
- Bi-directional audio
- NAT, Socks5
- Alarm management
- Free Client (CU client)

Specifications

	KDM2901-K-G2
Capacity	
Access	1,000 Channel
Stack	32 devices per level, up to 3000 Channel (depend on root vms)
Cascade	8-level, up to 20000 Channel (depend on root vms)
Live Viewing	
Multi Screen Display	Up to 64 multi-window
E-Map	Live Viewing in E-Map
Function	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder)
Recording	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Alarm input / Video lost / Motion Detection
Search & Playback	
Search Mode	Date and time (Calendar) / Event
Playback Mode	Single Playback / Multi Playback / Synchronize Playback
Function	Slow forward / Fast forward / Loop / Single Frame / E-PTZ
Storage	
External	IP SAN (iSCSI), up to 31 x IP SAN
Video	
Compression	H.265 / H.264 / MPEG4
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Frame Rate	1 ~ 30fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Alarm	
Alarm Triggers	Alarm input / Video lost / Motion Detection / Disk alarm
Alarm Events	Snapshot / Recording / PTZ preset / Alarm out / Buzzer / Link to Client / Alarm caption
System	
User Management	Super admin / Admin / User
Log Management	User login / User operation / Device / Alarm / Backup
System Requirements (Hardware)	
CPU	Min: Intel Core i3 Recommended: Intel Core i7
RAM	Min: 16GB Recommended: 32GB
HDD	1TB
System Requirements (Software)	
Supported Operating System	Centos 6.5 64-bit

KDM2901-M-G2

VMS - Video Management System



Features

High-performance, High-capacity

- Up to 10,000 channel per unit
- Up to 300 users access simultaneously
- 8-level cascade
- 32 devices stack per level

High reliability

- Supports Packet Loss Recovery (PLR)
- N+1 Hot Backup

Abundant functions and features

- E-Map, TV-Wall supported
- Bi-directional audio
- NAT, Socks5
- Alarm management
- Free Client (CU client)

Specifications

	KDM2901-M-G2
Capacity	
Access	10,000 Channel
Stack	32 devices per level, up to 15000 Channel (rely on root vms)
Cascade	8-level, up to 50000 Channel (rely on root vms)
Live Viewing	
Multi Screen Display	Up to 64 multi-window
E-Map	Live Viewing in E-Map
Function	E-PTZ / Scheme / Polling / TV-Wall (optional with decoder)
Recording	
Mode	Manual / Continuous / Schedule / Event (Pre / Post)
Event Trigger	Alarm input / Video lost / Motion Detection
Search & Playback	
Search Mode	Date and time (Calendar) / Event
Playback Mode	Single Playback / Multi Playback / Synchronize Playback
Function	Slow forward / Fast forward / Loop / Single Frame / E-PTZ
Storage	
External	IP SAN (iSCSI), up to 31 x IP SAN
Video	
Compression	H.265 / H.264 / MPEG4
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Frame Rate	1 ~ 30fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c
Bitrate	32kbps ~ 64kbps
Alarm	
Alarm Triggers	Alarm input / Video lost / Motion Detection / Disk alarm
Alarm Events	Snapshot / Recording / PTZ preset / Alarm out / Buzzer / Link to Client / Alarm caption
System	
User Management	Super admin / Admin / User
Log Management	User login / User operation / Device / Alarm / Backup
System Requirements (Hardware)	
CPU	Min: Intel Core i7 Recommended: Intel Core i7 * 4
RAM	Min: 32GB Recommended: 128GB
HDD	1TB
System Requirements (Software)	
Supported Operating System	Centos 6.5 64-bit

VS200G

16 Bay IPSAN



Features

High-performance, High-capacity

- Max. 500Mbps recording rate
- Max. 16 HDDs up to 96TB storage

High reliability

- Embedded Linux
- RAID 0/1/5/6/10, RAID X
- HDD hot spare
- Redundant Power Supply
- HDD hot-swap
- Ethernet trunk

Abundant functions and features

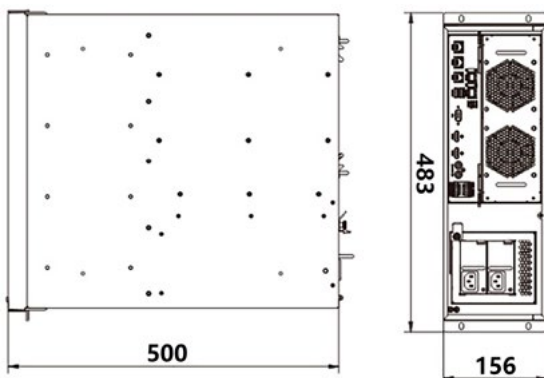
- Multiple units management
- Alarm management
- Modular architecture

Specifications

	VS200G
General	
Disk Interface	SATA: 1TB, 2TB, 3TB, 4TB, 6TB
RAID	RAID0,1,5,6,10, RAID X
HDD Hot-swap	Supported
Max. Internal HDDs	16 x 3.5" HDD
	Max. 96TB (up to 6TB/each)
Storage Management	
Recording rate	500Mbps
Disk management	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting)
Device Management	
Management	Web-based GUI, Multiple units management
Alarm	Sound, LED, Email, GUI Warning
Network	
Network Protocols	TCP/IP, UDP, HTTP, FTP, IPv4, iSCSI, NAS, NRU
Trunk	Supported
Interfaces	
Ethernet	3 x Gigabit network port, RJ45 interface
Output	VGA output for debugging
USB	2 x USB3.0, for keyboard or user data backup
Environmental	
Operating Temperature	10°C ~ 35°C / 50°F ~ 95°F
Operating Humidity	10% ~ 90%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Redundant Power Supply
	Max. 216W (HDD not included)
Mechanical	
Weight	Approx.20kg (HDD not included, redundant power supply)
Dimensions	156 x 483 x 500mm / 6.14" x 19.02" x 19.69"

Dimensions

Units:mm



VS200H

24 Bay IP SAN



Features

High-performance, High-capacity

- Max. 1000Mbps recording rate
- Max. 24 HDDs up to 192TB storage

High reliability

- Embedded Linux
- RAID 0/1/5/6/10, RAID X
- HDD hot spare
- Redundant Power Supply
- HDD hot-swap
- Ethernet trunk

Abundant functions and features

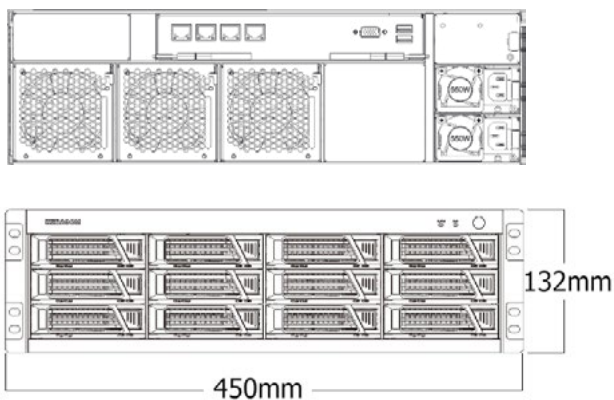
- Multiple units management
- Alarm management
- Modular architecture

Specifications

	VS200H
General	
Disk Interface	SATA: 1TB, 2TB, 3TB, 4TB, 6TB, 8TB
RAID	RAID0,1,5,6,10, RAID X
HDD Hot-swap	Supported
Max. Internal HDDs	24 x 3.5" HDD Max. 192TB (up to 8TB / each)
Storage Management	
Recording rate	500 x 2Mbps
Disk management:	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting)
Device Management	
Management	Web-based GUI, Multiple units management
Alarm	Sound, LED, Email, GUI Warning
Network	
Network Protocols	TCP/IP, UDP, HTTP, FTP, IPv4, iSCSI, NAS, NRU
Trunk	Supported
Interfaces	
Ethernet	4 x Gigabit network port, RJ45 interface
Output	VGA output for debugging
USB	2 x USB3.0, for keyboard or user data backup
Environmental	
Operating Temperature	10°C ~ 35°C / 50°F ~ 95°F
Operating Humidity	10% ~ 90%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Redundant Power Supply Max. 216W (HDD not included)
Mechanical	
Weight	Approx.20kg (HDD not included, redundant power supply)
Dimensions	132 x 450 x 695mm / 5.2" x 17.7" x 27.36"

Dimensions

Units:mm



KDM201

Video Decoder Unit



Features

High-performance, High-capacity

- Max. 16 x 4K@30fps / 72 x 1080p@30fps / 144 x 720p@30fps decoder per unit
- H.264 / H.265

Easy to deploy

- Modular architecture, 8 slots
- Rack-mounted
- Different decoder modules supported

Easy to install

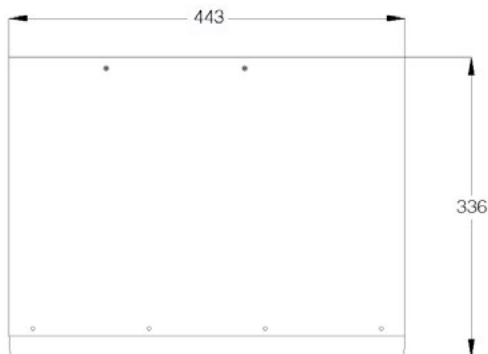
- Built-in Web Server, easy to manage and configure

Abundant functions and features

- Bi-directional audio

Dimensions

Units:mm



Specifications

	KDM201 Decoder Module Chassis
Interfaces	
Slots	8
Ethernet	2 x Gigabit network port, RJ45 interface
Environmental	
Operating Temperature	-10°C ~ 40°C / 14°F ~ 104°F
Operating Humidity	10% ~ 90%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 250W
Mechanical	
Weight	8kg / 21.43lb (Gross Weight)
Dimensions	443 x 336 x 88mm / 17.44" x 13.23" x 3.46"
	KDM201-D02E UHD Decoder Module
Video	
Compression	H.264 / H.265
Image Resolution	8MP(4K), 4MP, QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF
	2 channel output:
Multichannel	1 x 4K / 2 x 4MP / 4 x 1080p / 9 x 720p / 16 x D1 by each channel
	1 channel output (disable other video output):
	2 x 4K / 4 x 4MP / 9 x 1080p / 16 x 720p
Layout	1, 2, 3, 4, 9, 16
Frame Rate	1 ~ 60fps
Bitrate	64kbps ~ 36Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / AMR
Bitrate	8kbps ~ 64kbps
Interfaces	
Video Out	2 x HDMI (up to 3840 x 2160)
Audio In / Out	1 x VGA (up to 1920 x 1080)
Control	1 x RS485
User Interface	Web / NVR / NVR Station client / VMS client
	KDM201-D01F HD Decoder Module
Video	
Compression	H.264
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Multichannel	1 x QXGA / 2 x 1080p / 4 x 720p / 9 x D1 / 16 x CIF
Layout	1, 2, 4, 9, 16
Frame Rate	1 ~ 60fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / AMR
Bitrate	32kbps ~ 64kbps
Interfaces	
Video Out	1 x HDMI, 1 x VGA, 1 x BNC
Audio In / Out	1 x 3.5mm Mic in, 1 x 3.5mm Line in, 1 x 3.5mm Line out
Control	1 x RS232, 1 x RS485
User Interface	Web / NVR / NVR Station client / VMS client
	KDM201-D04F HD Decoder Module
Video	
Compression	H.264
Image Resolution	QXGA, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Multichannel	2 x QXGA / 4 x 1080p / 8 x 720p / 16 x D1 / 64 x CIF
Layout	1, 2, 4, 9, 16
Frame Rate	1 ~ 60fps
Bitrate	64kbps ~ 8Mbps
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / AMR
Bitrate	32kbps ~ 64kbps
Interfaces	
Video Out	4 x HDMI
Audio In / Out	1 x 3.5mm Line in, 1 x 3.5mm Line out
Control	1 x RS232, 1 x RS485
User Interface	Web / NVR / NVR Station client / VMS client

IPA102

Network Video Adapter



Features

Mini size

- 0.2kg / 0.54lb
- 120 x 64 x 24mm / 4.72" x 2.52" x 0.94"

Easy to install

- Built-in Web Server, easy to manage and configure

Abundant functions and features

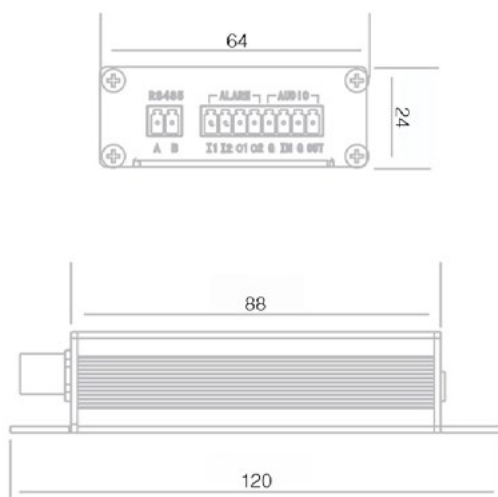
- H.264 high profile video codec, saves up to 30% bandwidth and storage
- Dual-stream
- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / alarm in and out / RS485

Specifications

	IPA102
Video	
Compression	H.264
Image Resolution	D1, CIF, QCIF
Frame Rate	1 ~ 25fps
Bitrate	64kbps ~ 4Mbps
Audio	
Compression	G.711 / ADPCM
Bitrate	32kbps ~ 64kbps
Network	
Network Protocols	TCP/IP, ARP, ICMP, FTP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, NTP, SNMP
User Interface	Web
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	1 x Input / 1 x Output
Video In	1 x BNC
Memory Slot	Micro SD card slot
Environmental	
Operating Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	10% ~ 90%
Electrical	
Power	12V DC
Power Consumption	Max. 4W
Mechanical	
Weight	0.2kg / 0.54lb (Gross Weight)
Dimensions	120 x 64 x 24mm / 4.72" x 2.52" x 0.94"

Dimensions

Units:mm



IPC521-H120-N

2.0MP 20x Vehicle PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjust
- 3D noise reduction / HLC / BLC

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

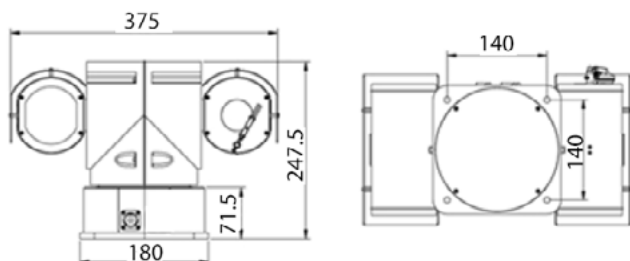
- 20x optical zoom
- IR distance up to 200m

Abundant functions and features

- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Wiper supported
- Vehicle based PT structure

Dimensions

Units:mm



Specifications

IPC521-H120-N	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.7 ~ 94mm, 20x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	54.1° ~ 2.9° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F3.5 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	8pcs IR LED Array
IR Distance	150 ~ 200m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -85° ~ 85° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 80°/s; Pan preset speed: 120°/s Tilt manual speed: 0.1° ~ 60°/s; Tilt preset speed: 100°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Wiper	Supported
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date&Time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocol	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Built-in Micro SD card (optional), up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	9 ~ 36V DC, wide range voltage input
Power Consumption	Max. 60W (IR on)
Mechanical	
Weight	7Kg / 15.44lb (Gross Weight)
Dimensions	180 x 375 x 247.5mm / 7.09" x 14.77" x 9.75"

IPC521-F233-N

2.0MP 33x Vehicle PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjusts
- 120dB Ultra WDR
- 3D noise reduction / HLC / BLC

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

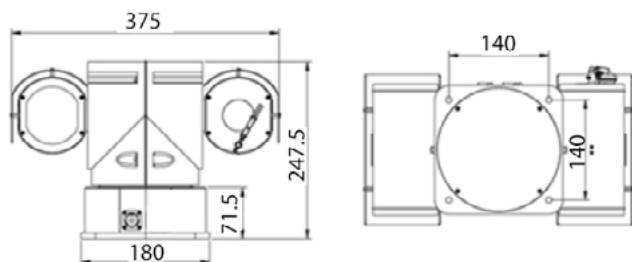
- 33x optical zoom
- IR distance up to 200m

Abundant functions and features

- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Wiper supported
- Vehicle based PT structure

Dimensions

Units:mm



Specifications

IPC521-F233-N	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120db
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.34° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	8pcs IR LED Array
IR Distance	150 ~ 200m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -85° ~ 85° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 80°/s; Pan preset speed: 120°/s Tilt manual speed: 0.1° ~ 60°/s; Tilt preset speed: 100°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Wiper	Supported
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date&Time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocol	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	10 Users (include 2 internal access)
Application Program	Onvif (Profile S, Profile G), GB/T 28181-2011, API, CGI
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Memory Slot	Built-in Micro SD card (optional), up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	9 ~ 36V DC, wide range voltage input
Power Consumption	Max. 60W (IR on)
Mechanical	
Weight	7Kg / 15.44lb (Gross Weight)
Dimensions	180 x 375 x 247.5mm / 7.09" x 14.77" x 9.75"

IPC523-F833-N

4K 23x Vehicle PTZ Camera



Features

Excellent Image Quality

- 4K Megapixel 1/1.7" Progressive Scan CMOS Sensor
- High definition and smooth picture, 4K@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.006lux with color picture
- IR automatically adjust
- 120dB Ultra WDR
- 3D noise reduction / HLC / BLC

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

- 23x optical zoom
- IR distance up to 200m

Abundant Functions and Features

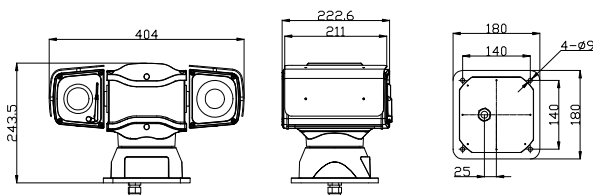
- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Wiper supported
- Vehicle based PT structure

Specifications

	IPC523-F255-NL
Camera	
Image Sensor	1/1.7" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.006lux @ (F1.6, AGC ON) B/W: 0.006lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, 120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	6 ~ 138mm, 23x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	60° ~ 3.8° (Wide~Tele)
Min. Object Distance	10 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	7pcs IR LED Array
IR Distance	150 ~ 200m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / - 85° ~ 85° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 60°/s; Pan preset speed: 100°/s Tilt manual speed: 0.1° ~ 40°/s; Tilt preset speed: 80°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Wiper	Supported
Video	
Compression Format	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 4K Secondary stream: 1080P Third stream: 720P
Frame Rate	Main stream: 4K@30fps Secondary stream: 1080P@30fps Third stream: 720P@60fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (include 2 internal)
Application Programming	Onvif (Profile S, Profile G), GB/T 28181-2016, API, CGI
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Ethernet	10/100M, RJ45 interface
Control	1 x RS485
Video Out	1 x BNC
Memory Slot	Built-in Micro SD card (optional), up to 256GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	9 ~ 36V DC, wide range voltage input
Power Consumption	Max. 50W (IR on)
Mechanical	
Weight	11.2kg / 24.69lb (Gross Weight)
Dimensions	398 x 212 x 244mm / 15.67" x 8.35" x 9.61"

Dimensions

Units: mm



IPC522-F230-G

2.0MP 30x Vehicle PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjust
- 3D noise reduction / HLC / BLC

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

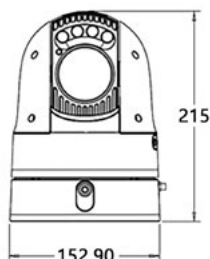
- 30x optical zoom
- IR distance up to 80m

Abundant functions and features

- Built-in Micro SD card, supports Automatic Network Replenishment (ANR)
- Built-in super magnet
- 3G / 4G / Wi-Fi / Blue tooth supported
- Up to 8 hours continuous working with battery in 4G (IPC522-F230-G only)
- Up to 10 hours continuous working with battery in Wi-Fi
- Vehicle based PT structure

Dimensions

Units:mm



Specifications

Camera	IPC522-F230-G
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.5, AGC ON) B/W: 0.0003lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 135mm, 30x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.77° (Wide~Tele)
Min. Object Distance	1000 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6(Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	4pcs IR LED Array
IR Distance	40 ~ 80m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan manual speed	0.1° ~ 30°/s; Pan preset speed: 50°/s
Tilt manual speed	0.1° ~ 30°/s; Tilt preset speed: 50°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Pan scan / Tilt scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 1080p Secondary stream: 720
Frame Rate	Main stream: 1080p@30fps Secondary stream: 720@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Wireless	3G / 4G / Wi-Fi / Bluetooth
	FDD-LTE: B1 / B3 / B5 / B8 TDD-LTE: B38 / B39 / B40 / B41 WCDMA: B1 / B8 GSM / GPRS / EDGE: 900 / 1800MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BC0 Customizable network spectrum
3G / 4G Frequency Band	802.11ac/b/g/n 2.4G / 5G, Wi-Fi AP
Wi-Fi	BT 4.1
Blue Tooth	GPS, GLONASS (optional)
Location Technology	Onvif (Profile S, Profile G), API, CGI
Application Programming	
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Interfaces	
Aviation Port	4-Pin 10/100M interface, 2-Pin Charge interface
Wi-Fi	Built-in Wi-Fi module
GPS	Built-in GPS module
3G / 4G	Built-in 3G / 4G module
Blue Tooth	Built-in Blue Tooth module
Memory Slot	Built-in 128G Micro SD card
Environmental	
Operating Temperature	Power supplied by built-in battery : -20°C ~ 60°C / -4°F ~ 140°F Power supplied by DC: -40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	Built-in 13600mAh normal temperature rechargeable lithium battery Up to 8 hours continuous working with battery in 4G Up to 10 hours continuous working with battery in Wi-Fi
Power Consumption	12V DC ± 10% Max. 20W (IR on)
Mechanical	
Magnet	Built-in super magnet
Weight	4kg / 8.82lb (Gross Weight)
Dimensions	Φ215 × 153mm / Φ8.47" × 6.03
Colour	White Customizable Black
Accessories	
Optional	Three-proof Suitcase
* All battery claims depend on network configuration and many other factors, actual results will vary.	

IPC522-G230-G

Recognitive 2.0MP 30x Vehicle 4G PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjust
- 3D noise reduction / HLC / BLC

Recognitive Functions

- Up to 5 targets simultaneously
- Target capturing and characters recognizing
- Built-in picture comparison algorithm, best picture selection

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

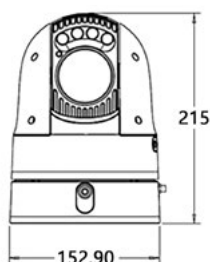
- 30x optical zoom
- IR distance up to 80m

Abundant functions and features

- Built-in Micro SD card, supports Automatic Network Replenishment (ANR)
- Built-in super magnet
- 3G / 4G / Wi-Fi / Blue tooth supported
- Up to 8 hours continuous working with battery in 4G
- Vehicle based PT structure

Dimensions

Units:mm



Specifications

Camera	IPC522-G230-G
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.5, AGC ON) B/W: 0.0003lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 135mm, 30x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8° ~ 2.77° (Wide~Tele)
Min. Object Distance	1000 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6(Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	4pcs IR LED Array
IR Distance	40 ~ 80m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 30°/s; Pan preset speed: 50°/s Tilt manual speed: 0.1° ~ 30°/s; Tilt preset speed: 50°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Pan scan / Tilt scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 1080p Secondary stream: 720
Frame Rate	Main stream: 1080p@30fps Secondary stream: 720@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Wireless	3G / 4G / Wi-Fi / Blue tooth
	FDD-LTE: B1 / B3 / B5 / B8 TDD-LTE: B38 / B39 / B40 / B41 WCDMA: B1 / B8 GSM / GPRS / EDGE: 900 / 1800MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BC0 Customizable network spectrum 802.11a/b/g/n 2.4G / 5G, Wi-Fi AP
Wi-Fi	BT 4.1
Blue Tooth	BT 4.1
Location Technology	GPS, GLONASS (optional)
Application Programming	Onvif (Profile S, Profile G), API, CGI
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Recognitive Functions	
Target Detection	Face up to 5 targets simultaneously
Captured Picture	Face, Full view
Target Characters	Built-in picture comparison algorithm, best picture selection Direction / Speed level
Interfaces	
Aviation Port	4-Pin 10/100M interface, 2-Pin Charge interface
Wi-Fi	Built-in Wi-Fi module
GPS	Built-in GPS module
3G / 4G	Built-in 3G / 4G module
Blue Tooth	Built-in Blue Tooth module
Memory Slot	Built-in 128G Micro SD card
Environmental	
Operating Temperature	Power supplied by built-in battery : -20°C ~ 60°C / -4°F ~ 140°F Power supplied by DC: -40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	Built-in 13600mAh normal temperature rechargeable lithium battery Up to 8 hours continuous working with battery in 4G
Power Consumption	12V DC ± 10% Max. 25W (IR and 4G on)
Mechanical	
Magnet	Built-in super magnet
Weight	4kg / 8.82lb (Gross Weight)
Dimensions	Ø215 × 153mm / Ø8.47" × 6.03"
Colour	White
	Customizable Black
Accessories	
Optional	Three-proof Suitcase

* All battery claims depend on network configuration and many other factors, actual results will vary.

IPC522-G230-5G

Recognitive 2.0MP 30x Vehicle 5G PTZ Camera



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjust
- 3D noise reduction / HLC / BLC

Recognitive Functions

- Up to 5 targets simultaneously
- Target capturing and characters recognizing
- Built-in picture comparison algorithm, best picture selection

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

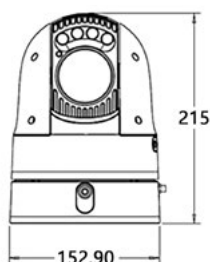
- 30x optical zoom
- IR distance up to 80m

Abundant Functions and Features

- Built-in Micro SD card, supports Automatic Network Replenishment (ANR)
- Built-in super magnet
- 4G / 5G / Wi-Fi / Blue tooth supported
- Up to 8 hours continuous working with battery in 4G / 5G
- Vehicle based PT structure

Dimensions

Units:mm



Specifications

IPC522-G230-5G	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.3, AGC ON) B/W: 0.0003lux @ (F1.3, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	5 ~ 150mm, 30x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	58.3° ~ 2.12° (Wide~Tele)
Min. Object Distance	1000 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.3(Wide) / F4.6 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	4pcs IR LED Array
IR Distance	40 ~ 80m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 60°/s; Pan preset speed: 60°/s Tilt manual speed: 0.1° ~ 50°/s; Tilt preset speed: 50°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Pan scan / Tilt scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Video	
Compression	H.265 / H.264
Image Resolution	Main stream: 1080p Secondary stream: 720
Frame Rate	Main stream: 1080p@60fps Secondary stream: 720@60fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Wireless	4G / 5G / Wi-Fi / Bluetooth
	5G NR: n1 / n41 / n77 / n78 / n79 FDD-LTE: B1 / B3 / B5 / B8 TDD-LTE: B38 / B39 / B40 / B41 WCDMA: B1 / B8 GSM / GPRS / EDGE: 900 / 1800MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BC0 Customizable network spectrum
Wi-Fi	802.11ac/b/g/n 2.4G / 5G, Wi-Fi AP
Blue Tooth	BT 4.1
Location Technology	GPS, GLONASS (optional)
Application Programming	Onvif (Profile S, Profile G), API, CGI
Alarm	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
Recognitive Functions	
Target Detection	Face up to 5 targets simultaneously
Captured Picture	Face, Full view
Target Characters	Built-in picture comparison algorithm, best picture selection Direction / Speed level
Interfaces	
Aviation Port	4-Pin 10/100M interface, 2-Pin Charge interface
Wi-Fi	Built-in Wi-Fi module
GPS	Built-in GPS module
4G / 5G	Built-in 4G / 5G module
Blue Tooth	Built-in Blue Tooth module
Memory Slot	Built-in 128G Micro SD card
Environmental	
Operating Temperature	Power supplied by built-in battery: -20°C ~ 60°C / -4°F ~ 140°F Power supplied by DC: -40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
	Built-in 13600mAh normal temperature rechargeable lithium battery Up to 8 hours continuously working with battery in 5G / 4G Up to 10 hours continuously working with battery in Wi-Fi
Power	12V DC ± 10%
Power Consumption	Max. 25W (IR and 4G / 5G on)
Mechanical	
Magnet	Built-in super magnet
Weight	3.8kg / 8.38lb (Gross Weight)
Dimensions	Ø215 × 153mm / Ø8.47" × 6.03"
Colour	Black
Accessories	
Optional	Three-proof Suitcase

* All battery claims depend on network configuration and many other factors, actual results will vary.

IPC981-T230-NIR

Recognitive 360° Panoramic Vehicle 5G PTZ Camera



Features

Excellent Image Quality

- 6 x 4.0 Megapixel + 1 x 2.0 Megapixel 1/1.8" Progressive Scan CMOS Sensor
- 2 x 180° panoramic stitching
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.0003lux with color picture
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area
- Object left / Object removal / Gathering / Audio surge
- Auto tracking / Facial recognition / Plate recognition / Offline comparison

Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP67, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

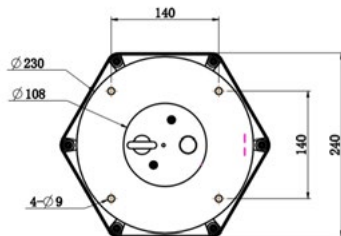
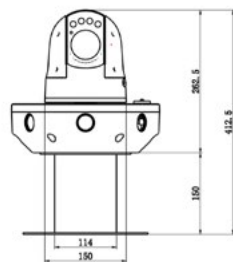
- 40x optical zoom
- IR distance up to 80m

Abundant Functions and Features

- 3 x Micro SD card slots, supports Automatic Network Replenishment (ANR)
- 4G / 5G / Wi-Fi / Blue tooth supported
- Built-in O-sensor
- Built-in GPS module

Dimensions

Units:mm



Specifications

IPC981-T230-NIR	
Panoramic Camera	
Image Sensor	6 x 1/1.8" Progressive Scan CMOS
Pixels	4.0 Megapixel
Min. Illumination	Color: 0.0003lux @ (F1.0, AGC ON) B/W: 0.0001lux @ (F1.0, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Focal Length	5mm
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 6000*2160, stitching picture
	Secondary stream: 2048 x 600
	Third stream: 704 x 200
Frame Rate	Main stream: 1 ~ 30fps
	Secondary stream: 1 ~ 30fps
	Third stream: 1 ~ 30fps
Bitrate	256~ 32768Kbps
PTZ Camera	
Image Sensor	1/1.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001lux @ (F1.2, AGC ON) B/W: 0.0005lux @ (F1.2, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Focal Length	4.3 ~ 172mm, 40x optical
Angle of View	60° ~ 2.4° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Focus Control	Auto / Manual / Semi-Automatic
IR Distance	40~80m
IR Intensity	Automatically adjust according to zoom ratio
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080P
	Secondary stream: 1080P
	Third stream: D1
Frame Rate	Main stream: 1 ~ 60fps
	Secondary stream: 1 ~ 60fps
	Third stream: 1 ~ 30fps
Bitrate	32Kbps ~ 16Mbps
IR Distance	80
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90°
Pan / Tilt Speed	Pan manual speed: 0.1 ~ 80°/s; Pan preset speed: 120°/s Tilt manual speed: 0.1 ~ 60°/s; Tilt preset speed: 100°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	8 scan paths, each path has 32 presets
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Audio	
Compression	PCMA, PCMU, G.722.1,C, ADPCM, G.722,G.726
Bitrate	32Kbps ~ 64Kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 20 Users (includes 2 internal)
Wireless	4G / 5G / Wi-Fi / Blue tooth
4G / 5G Frequency Band	5G NR: n1 / n41 / n77 / n78 / n79
	FDD-LTE: B1 / B3 / B5 / B8
	TDD-LTE: B38 / B39 / B40 / B41
Wi-Fi	Customizable network spectrum
	802.11ac/b/g/n 2.4G / 5G, Wi-Fi AP
	BT 4.1
Location Technology	GPS / GLONASS
Application Programming	ONVIF (Profile S, Profile G), API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error PTZ Camera: Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Facial recognition / Plate recognition (Optional) / Offline comparison
Intelligent	Panoramic Camera: Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Auto tracking
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
GPS	Built-in GPS module
Audio In / Out	1 x Line in / 1 x Line out
Memory Slot	3 x Micro SD card slot, supports up to 256GB / slot
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP67, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	DC9 ~ 36V
Power Consumption	Max. 36W (IR on)
Mechanical	
Weight	7 kg / 15.4lb (Gross Weight)
Dimensions	Φ245 x 412.5 mm / Φ9.6" x 16.2"

IPC2241-GiCNW&GiCWG-SIR-L0360

2.0MP Human Recognitive HD Network Mini IR Semi Dome



Features

Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.002lux with color picture
- WDR / HLC / 3D noise reduction

Recognitive Functions

- Driver behavior detection of fatigue driving, yawning, smoking, inattention, calling and absence

Integrated High Efficiency IR

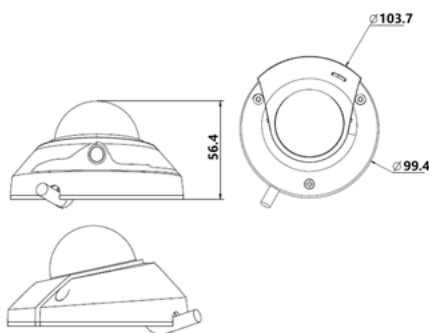
- Industrial IR LED with long operational lifespan
- 15m IR distance
- Smart IR function

Abundant Functions and Features

- Micro SD card slot, supports Automatic Network Replenishment (ANR)
- Bi-directional audio / Built-in Mic / alarm in and out / RS485
- Wi-Fi supported
- 3G / 4G supported (-GiCWG only)
- Dual-stream (1080p + D1)
- Anti-fog glass
- EN50155
- PoE
- IK10
- IP67

Dimensions

Units:mm



Specifications

	IPC2241-GICNW-SIR15-L0360	IPC2241-GICWG-SIR15-L0360
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.002lux @ (F2.0, AGC ON) B/W: 0.0002lux @ (F2.0, AGC ON)	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>58dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
Lens		
Mount Type	M12	
Focal Length	3.6mm (-L0360)	
Angle of View	78.6° (-L0360)	
Adjustment Range	Pan: -45° ~ 45° / Tilt: 0° ~ 90° / Rotation: 0° ~ 360°	
Infrared		
IR Distance	15m	
IR Intensity	Smart IR	
Video		
Compression	Smart H.265 / H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps	
Bitrate	32kbps ~ 8Mbps	
Bitrate Control	VBR / CBR	
Dual-stream	Supported	
Caption	Date and time / Alarm / Customized	
Privacy Masking	Up to 4 zones	
Motion Detection	Up to 4 zones	
ROI	Supported	
Digital Noise Reduction	3D noise reduction	
Image Flip	Flip / Mirror	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
Network		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Wireless	Wi-Fi	
Wi-Fi	802.11b/g/n 2.4G, Wi-Fi AP	
3G / 4G Frequency Band	/	FDD-LTE: B1 / B3 / B5 / B8 TDD-LTE: B38 / B39 / B40 / B41 WCDMA: B1 / B8 GSM / GPRS / EDGE: 900 / 1800MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BCO
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Recognitive Functions		
Driver behavior detection	Fatigue driving, yawning, smoking, inattention, calling and absence	
Alarm		
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error	
Intelligent	Motion detection	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
Interfaces		
Ethernet	10/100M, RJ45 interface	/
Wi-Fi	Built-in Wi-Fi module	
GPS	Built-in GPS module	
3G / 4G Frequency Band	/	Built-in 3G / 4G module
Audio In / Out	1 x Line in / 1 x Line out / 1 x Built-in Mic	
Control	1 x RS485	
Alarm In / Out	2 x Input / 1 x Output	
Memory Slot	Micro SD card slot, supports up to 256GB	
Environmental		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection level	IK10, IP67, EN50155	
Electrical		
Power	12V DC ± 25% / PoE (IEEE802.3af)	
Power Consumption	Max. 14W	
Mechanical		
Weight	0.5 kg / 1.1lb (Gross Weight)	
Dimensions	Φ103.7 x 56.4mm / Φ4.08" x 2.22"	

SVR2420

Mobile PoE NVR



Features

Excellent Video Transmission

- KWTP protocol for 3G / 4G transmission, improves the video stream continuity under unstable network conditions
- H.265 video codec, saves up to 50% bandwidth and storage

High-performance

- 1 x 4K@30fps video decoding capability
- Up to 12 channel and 4K H.265 supported

High reliability

- Embedded Linux
- Low power consumption
- Aviation plug design for Ethernet, video, audio, control signal and power supply
- Fan-less design with heat dissipation shell
- Shock-proof design, protects the HDD while vehicle is being driven

Easy to install and Use

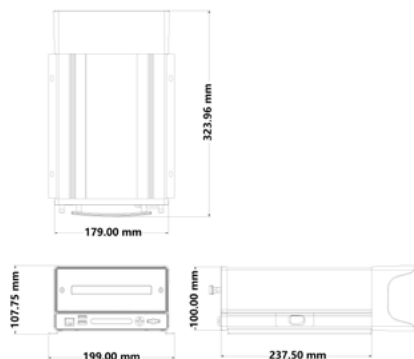
- Automatic network organizing
- Built-in DHCP server
- Pluggable HDD drawer, easy to change HDD module
- HDD module supports USB interface, easy to backup record

Abundant functions and features

- Up to 12 IP Camera access
- Built-in Wi-Fi AP module, can access Wi-Fi IP camera
- All mobile networks supported
- Supports dual SIM card bundle
- Built-in GPS module

Dimensions

Units:mm



Specifications

	SVR2420-0204A/4P	SVR2420-0208A/8P	SVR2420-0212A/8P
Video/Audio Input			
Camera Input	4 channel	8 channel	12 channel
Resolution	8MP(4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Compression	H.264 / H.265		
Protocols	Onvif, RTSP, KEDACOM		
Bitrate	64kbps ~ 16384kbps		
Incoming Bandwidth	20Mbps	40Mbps	60Mbps
Live Viewing			
Local Display	1 x HDMI, 1 x VGA, 2 x CVBS, simultaneously output same content		
Layout	1, 4, 9, 16		
Function	E-PTZ / Scheme / Polling		
Recording			
Resolution	8MP(4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Mode	Manual / Continuous / Schedule / Event (Pre / Post)		
Event Trigger	Supported		
Tag	Supported		
Search & Playback			
Search Mode	Date and time (Calendar) / Event		
Resolution	8MP (4K), 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
Playback (Local Monitor)	1 x 4K@30fps / 4 x 1080p@30fps		
Playback (Client)	up to 16 x 4K@30fps		
Synchronize Playback (Local Monitor)	1 x 4K@30fps / 4 x 1080p@30fps		
Synchronize Playback (Client)	4 x 4K@30fps		
Function	Slow forward / Fast forward / Loop / Single frame / E-PTZ		
Storage			
Max. Internal HDDs	2 x 2.5" HDD		
Max. 8TB (up to 4TB / each)			
Built-in Storage	-GH: 1 x 1TB HDD		
Audio			
Compression	G.711a / G.711u / ADPCM / G.722 / G.722.1c / G.726		
Bit rate	32kbps ~ 64kbps		
Audio Function	Bi-directional audio / Dumb / Mute / Broadcasting		
Alarm			
Service Alarm Triggers	Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge		
System Alarm Triggers	Device disconnected / No disk / Disk error / IP Address conflict / Network fault / Insufficient recording space / MAC address conflict / Insufficient snapshot space / Unauthorized access		
Alarm Events	Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Full screen viewing		
System			
Operating System	Embedded Linux		
User Management	Admin / User		
Log Management	User login / User operation / Alarm / Backup / Update		
Application Programming	CGI		
Network			
Network Protocols	TCP / IP, UDP, HTTP, DHCP, DNS / DDNS, RTP / RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTIP, IPv4, IPv6 (optional)		
Viewer Software	Web		
Max. User Access	16 Users		
Function	NAT / Socks5 / Multiple network access / Packet loss recovery		
Network Test	Supported		
Wireless	-S: Wi-Fi -G / -GH: Wi-Fi, 3G / 4G		
Number of Simcard Slots	-G / -GH: default 1, up to 2		
3G / 4G Frequency Band	FDD-LTE: B1 / B2 / B3 / B5 / B7 / B8 / B20 TDD-LTE: B38 / B39 / B40 / B41 HSPA / UMTS: 850 / 900 / 1800 / 1900 / 2100MHz GSM / GPRS / EDGE: 850 / 900 / 1800 / 1900MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BCD / BC1 Customizable network spectrum		
Wi-Fi	802.11 b/g/n/a/ac 2.4G / 5G, Wi-Fi AP		
Location Technology	GPS, GLONASS		
Application Programming	Onvif (Profile S, Profile G), API, CGI		
Interfaces			
Ethernet	1 x 10 / 100M, RJ45 interface		
Audio In / Out	1 x Line in / 1 x Mic in / 1 x Line out		
Aviation Plug	2 x 10 pin: 4 x PoE RJ45 interface 1 x 4 pin: 2 x CVBS output 1 x 4 pin: Power supply for PTZ camera 1 x 9 pin: Power input 9 ~ 36V DC	4 x 10 pin: 8 x PoE RJ45 interface 1 x 4 pin: 2 x CVBS output 1 x 4 pin: Power supply for PTZ camera 1 x 9 pin: Power input 9 ~ 36V DC	4 x 10 pin: 8 x PoE RJ45 interface 1 x 4 pin: 2 x CVBS output 1 x 4 pin: Power supply for PTZ camera 1 x 9 pin: Power input 9 ~ 36V DC
Video Out	1 x HDMI (up to 4K@30Hz) 1 x VGA (up to 1920 x 1080@60Hz)		
PoE Camera Input	4 channel	8 channel	8 channel
Alarm In / Out	8 x Input / 4 x Output		
Antenna	2 x Wi-Fi Antenna interface, 1 x GNSS Antenna interface, 1 x 4G Antenna interface (up to 2)		
Control	1 x RS485, 1 x RS232		
Environmental			
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F		
Operating Humidity	10% ~ 90%		
Electrical			
Power	DC 9 ~ 36V		
Power Consumption	max. 96W		
Mechanical			
Weight	5.6kg / 12.35lb		
Dimensions	280 x 180 x 98mm / 11.02" x 7.09" x 3.86"		
Accessories			
Standard	1 x Cable Housing 1 x 18 pin Wire Harness Connector 1 x 20 pin Harness Connector 5 x Aviation plug connector cable 2 x Wi-Fi Antenna 1 x GNSS Antenna -G / GH: 1 x 4G Antenna (up to 2)	1 x Cable Housing 1 x 18 pin Wire Harness Connector 1 x 20 pin Harness Connector 7 x Aviation plug connector cable 2 x Wi-Fi Antenna 1 x GNSS Antenna -G / GH: 1 x 4G Antenna (up to 2)	1 x Cable Housing 1 x 18 pin Wire Harness Connector 1 x 20 pin Harness Connector 7 x Aviation plug connector cable 2 x Wi-Fi Antenna 1 x GNSS Antenna -G / GH: 1 x 4G Antenna (up to 2)
Optional	HDMI adapter cable (Type-E male to type-A male)		

IPW200-P1HD

Body Worn Surveillance Phone



Features

High Level Protection

- IP67, adaptive to various environments
- 1.5 meters drop protection

Excellent Video Transmission

- KWTP protocol for 3G / 4G / Wi-Fi transmission, improve the video stream continuity under unstable network conditions
- H.264 high profile video codec, saves up to 30% bandwidth and storage

Various Camera

- 13MP main camera + 8MP front camera
- Optional extendable camera types (button, badge, ear-hook)
- Optional DV adaptor, supports HDMI video input

High Performance

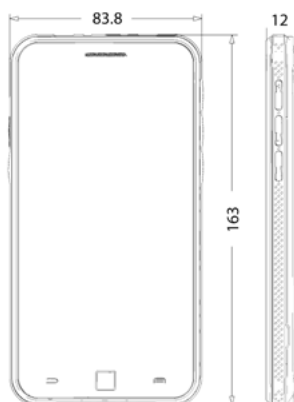
- Qualcomm 8 core 1.5GHz processor
- High definition and smooth picture, 1080p@30fps
- Supports all types of mobile network
- Supports dual SIM dual standby

Abundant Functions and Features

- Android 5.0 OS, supports third party app
- 5.5" 1080p HD IPS screen display
- Supports location function by GPS, GLONASS, Beidou

Dimensions

Units:mm



Specifications

	IPW200-P1HD
System	
Operating System	Android 5.0 64bit OS
Processor	Qualcomm 8 core 1.5GHz
RAM	2GB
Video	
Compression Format	H.264
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@25fps
Bitrate	64Kbps ~ 8Mbps
Dual-stream	Supported
Caption	Date and time / Customized
Audio	
Compression	G.711a / G.7221c / ADPCM / AMR
Coding Rate	12Kbps ~ 64Kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Display	
Size	5.5"
Resolution	1920 x 1080
Technology	IPS screen, visible under the sun
Touchscreen	5 point touch, supports gloves mode
Camera	
Main Camera	13MP, Auto focus, Flashlight, Snapshot
Front Camera	8MP
Network	
2G	GSM: B2 / B3 / B5 / B8 CDMA: BC0
3G	WCDMA: B1 / B2 / B5 / B8 TD-SCDMA: B34 / B39 EVDO: BC0
4G	FDD-LTE: B1 / B3 / B7 TD-LTE: B38 / B39 / B40 / B41
Wi-Fi	802.11 b/g/n 2.4G
Bluetooth	Bluetooth 4.0
NFC	Supported
Location Technology	GPS, GLONASS
Storage	
ROM	16G
External Memory	MicroSD (up to 128G)
Interface	
Shortcut Button	PTT, Alarm
Audio In / Out	Built-in Mic, Built-in Speaker, 1 x 3.5mm Stereo Earjack
SIM	2 x Micro SIM slot
Extension	1 x Private extension interface
USB	1 x Micro USB2.0
Protection	
Protection Level	IP67
Drop Protection	1.5 meters drop
Battery	
Capacity	4000mAh
Replaceable	Supported
Built-in Camera Usage Time (Hours)	4G (on) Screen on: Up to 5h Screen off: Up to 8h Wi-Fi (on) Screen on: Up to 4h Screen off: Up to 7h 4G (off) / Wi-Fi (off) Screen on: Up to 6h Screen off: Up to 10.5h
External Camera (720p) Usage Time (Hours)	4G (on) Screen on: Up to 2.3h Screen off: Up to 2.8h Wi-Fi (on) Screen on: Up to 2.1h Screen off: Up to 2.5h 4G (off) / Wi-Fi (off) Screen on: Up to 2.4h Screen off: Up to 2.9h
External Camera (1080p) Usage Time (Hours)	4G (on) Screen on: Up to 1.1h Screen off: Up to 1.4h Wi-Fi (on) Screen on: Up to 1h Screen off: Up to 1.3h 4G (off) / Wi-Fi (off) Screen on: Up to 1.2h Screen off: Up to 1.4h
Mechanical	
Weight	237.7g / 0.524lb (including battery)
Dimensions	163 x 83.8 x 12mm / 6.42" x 3.3" x 0.47"
Accessories	
Standard	Power adapter, USB cable, Battery, Headset
Optional	Additional battery, External battery module, Button / Badge camera, Ear-hook camera, DV adaptor

* All battery claims depend on network configuration and many other factors, actual results will vary.

DSJ-U1

Body Worn Camera



Features

High Level Protection

- IP67, adaptive to various environments
- 2 meters drop protection

Excellent Video Transmission

- KWTP protocol for 3G / 4G / Wi-Fi transmission, improves the video stream continuity under unstable network conditions
- H.264 / H.265 video codec, saves up to 50% bandwidth and storage

High Quality Image

- Night view with LED and IR
- High definition and smooth picture, 1080p@30fps
- Optional extendable camera types (button, badge, ear-hook)

High Performance

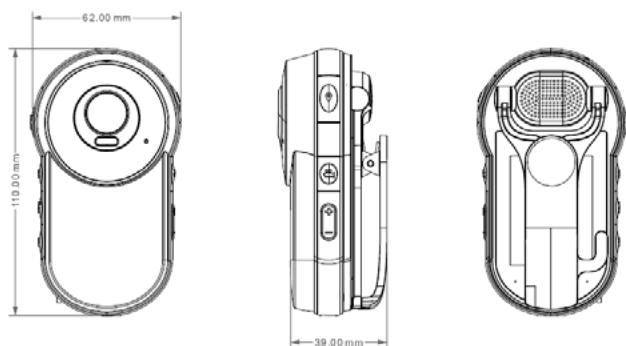
- Qualcomm 8 core processor
- Supports types of 3G / 4G network

Abundant Functions and Features

- 2.2" touchscreen display
- Various shortcut button
- Supports location function by GPS, GLONASS
- Supports external memory
- Supports removable clip

Dimensions

Units:mm



Specifications

	DSJ-U1-S	DSJ-U1-LPN
System		
Operating System	Deep customized Android OS	
Processor	Qualcomm 8 core 2GHz	
Application System	Customized law-enforcing recording software system	
RAM	3GB	
Video		
Compression	H.264 / H.265	
Image Resolution	Main stream: 1080p Secondary stream: 720p	
Frame Rate	Main stream: 1080p@30fps Secondary stream: 720p@30fps	
Bitrate	64Kbps ~ 8Mbps	
Dual-stream	Supported	
Caption	Date and time / Customized	
Watermark	Supported	
Audio		
Compression	G.711a / G.7221c / ADPCM	
Coding Rate	32Kbps ~ 64Kbps	
Audio Function	Bi-directional audio / AEC / Dumb / Mute	
Display		
Size	2.2"	
Technology	Visible under the sun	
Touchscreen	Supported	
Camera		
Image Sensor	1/2.8" progressive scan CMOS	
Focal Length	2.55mm	
Angle of View	Diagonal 140°, Horizontal 110°	
Snapshot Resolution	20MP	20MP (upscaled resolution)
Night View	2 white LED, 2 IR LED, 15M Infrared Distance	
Network		
3G	Not supported	WCDMA: B1 / B2 / B5 / B8 TD-SCDMA: B34 / B39 EVDO: BC0
4G	Not supported	FDD-LTE: B1 / B3 / B7 TD-LTE: B38 / B39 / B40 / B41
Wi-Fi	Not supported	802.11 a/b/g/n 2.4G+5GHz
Bluetooth	Not supported	Bluetooth 4.0
NFC	Not supported	Supported (optional)
Location Technology	GPS, GLONASS	
Storage		
ROM	32G	
External Memory	Micro SD (up to 128G)	
Interface		
Shortcut Button	Power on/off, Video recording, Audio recording, Snapshot, Event tag	PTT (optional), Power on/off, Video recording, Audio recording, Snapshot, Event tag
SIM	Not supported	1 x Micro SIM slot
USB	1 x Micro USB2.0	
Protection		
Protection Level	IP67	
Drop Protection	2 meters drop	
Battery		
Capacity	2700mAh	
Replaceable	Supported	
Built-in Camera Usage Time (Hours)	Up to 9h	3G / 4G (on): Up to 7h Wi-Fi (on): Up to 7h 3G / 4G (off) and Wi-Fi (off): Up to 9h
External Camera (720p) Usage Time (Hours)	Up to 3.8h	3G / 4G (on): Up to 3.5h Wi-Fi (on): Up to 3.5h
External Camera (1080p) Usage Time (Hours)	Up to 3.5h	3G / 4G (off) and Wi-Fi (off): Up to 3.8h 3G / 4G (on): Up to 3.2h Wi-Fi (on): Up to 3.2h 3G / 4G (off) and Wi-Fi (off): Up to 3.5h
Environmental		
Operating Temperature	-30°C ~ 70°C / -22°F ~ 158°F	
Mechanical		
Weight	199g / 0.439lb (including battery & clip) 190g / 0.418lb (including battery)	199g / 0.439lb (including battery & clip) 190g / 0.418lb (including battery)
Dimensions	110× 62× 39mm / 4.33" x 2.44" x 1.54"	
Accessories		
Standard	Power adapter, USB cable, Battery	
Optional	Additional battery, Button / Badge camera, Ear-hook camera	

* All battery claims depend on network configuration and many other factors, actual results will vary.

DSJ-U3

Body Worn Camera



Features

High Level Protection

- IP68, adaptive to various environments
- 2 meters drop protection

Excellent Video Transmission

- KWTP protocol for 3G / 4G / Wi-Fi transmission, improves the video stream continuity under unstable network conditions
- H.264 / H.265 video codec, saves up to 50% bandwidth and storage

High Quality Image

- Night view with LED and IR
- High definition and smooth picture, 1080p@30fps
- EIS function, ensures stable image quality during walking patrol
- Optional extendable camera types (button, badge, ear-hook)

Recognitive Functions

- Supports face recognition
- Built-in face comparison algorithm, offline alarm

Abundant Functions and Features

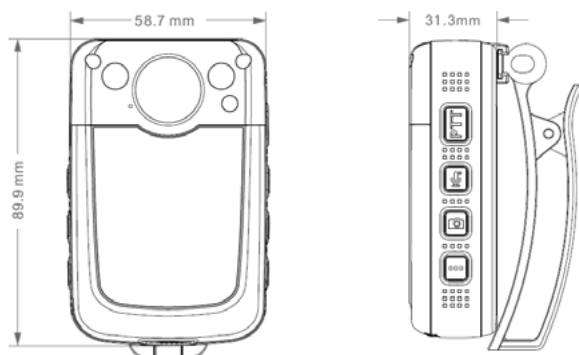
- 2.4" touchscreen display
- Various shortcut button, additional customized function button
- Supports location function by GPS, GLONASS
- Supports external memory
- Supports removable clips

Specifications

	DSJ-U3-LPN
System	
Operating System	Deep customized Android OS
Processor	Qualcomm 8 core 2GHz
Application System	Customized law-enforcing recording software system
RAM	4GB
Video	
Compression	H.264 / H.265
Image Resolution	Main stream: 1080p Secondary stream: 720p
Frame Rate	Main stream: 1080p@30fps Secondary stream: 720p@30fps
Bitrate	64Kbps ~ 8Mbps
Dual-stream	Supported
Caption	Date and time / Customized
Watermark	Supported
Audio	
Compression	G.711a / G.7221c / ADPCM
Coding Rate	32Kbps ~ 64Kbps
Audio Function	Bi-directional audio / AEC / Dumb / Mute
Display	
Size	2.4"
Technology	Visible under the sun
Touchscreen	Supported
Rear Camera	
Image Sensor	5MP 1/2.7" progressive scan CMOS
Focal Length	2.52mm
Angle of View	Diagonal 120°, Horizontal 106°
Snapshot Resolution	40MP
Night View	1 white LED, 2 IR LED, 15M Infrared Distance
Front Camera	
Image Sensor	5MP 1/5" progressive scan CMOS
Focal Length	2.26mm
Angle of View	Diagonal 76.8°, Horizontal 46°
Snapshot Resolution	40MP
Network	
3G	WCDMA: B1 / B2 / B5 / B8 TD-SCDMA: B34 / B39 EVDO: BC0
4G	FDD-LTE: B1 / B3 / B7 / B20 / B26 / B28 TD-LTE: B38 / B39 / B40 / B41 802.11 a/b/g/n/ac 2.4G+5GHz
Wi-Fi	802.11 a/b/g/n/ac 2.4G+5GHz
Bluetooth	Bluetooth 5.0
NFC	Supported (optional)
Location Technology	GPS, GLONASS
Storage	
ROM	64G
External Memory	MicroSD (up to 256G)
Interface	
Shortcut Button	PTT, Power on/off, Video recording, Audio recording, Snapshot, Event tag, Customized function
SIM	1 x Micro SIM slot
USB	1 x Type C
Protection	
Protection Level	IP68
Shock Protection	2 meters drop
Battery	
Capacity	2600mAh
Replaceable	Supported, continuous work during battery replacing
Built-in Camera Usage Time (Hours) *	3G / 4G (on): Up to 8h Wi-Fi (on) : Up to 8h 3G / 4G (off) and Wi-Fi (off): Up to 10h
External Camera (720p) Usage Time (Hours) *	3G / 4G (on): Up to 3.5h Wi-Fi (on) : Up to 3.5h 3G / 4G (off) and Wi-Fi (off): Up to 3.8h
External Camera (1080p) Usage Time (Hours) *	3G / 4G (on): Up to 3.2h Wi-Fi (on) : Up to 3.2h 3G / 4G (off) and Wi-Fi (off): Up to 3.5h
Environmental	
Operating Temperature	-30°C ~ 70°C / -22°F ~ 158°F
Mechanical	
Weight	188g / 0.414lb (including battery & clip) 169g / 0.37lb (including battery)
Dimensions	89.9×58.7×31.3mm / 3.54" x 2.31" x 1.23"
Accessories	
Standard	Power adapter, USB cable, Battery
Optional	Additional battery, Button / Badge camera, Ear-hook camera
* All battery claims depend on network configuration and many other factors, actual results will vary.	

Dimensions

Units:mm



ZCS-KDCA1

Data Docking Station



Features

High Performance

- 13.3" color LCD with resolution of 1920 x 1080
- Supports up to 24 units of body worn camera
- Supports up to 24TB storage

Easy to Use

- Wall-mounted and desktop designed, easy to install
- Modular design, easy to upgrade system capacity
- Plug and play, auto charging and data transmission
- Touch screen operation

Abundant Functions and Features

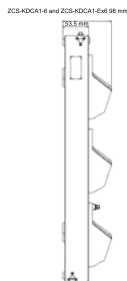
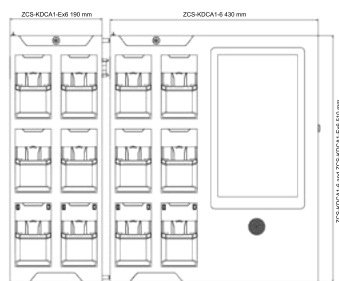
- Record searching and playback
- Auto lock after device plugged in
- Use the password to unlock device
- Priority slot for high speed data transmission
- Built-in battery protection for sudden power-off / shut down

Specifications

	ZCS-KDCA1
System	
Operating System	Windows10
Processor	Intel N3710
Application System	Data Docking Station Management Software
RAM	4GB
User Management	Admin / User
Log Management	User login / User operation / Alarm / Update
Display	
Size	13.3"
Resolution	1920 x 1080
Touch Screen	Supported
Search & Playback	
File Type	Video, Audio, Pic, Log
Search Mode	Duration filter / Tag
Playback Resolution	1 x 1080p@30fp
Functions	Querying, Viewing, Downloading, Removing
Slot	
Default Slot	ZCS-KDCA1-6: 6 Slots by default, supports 6 units of Body Worn Camera Supports up to 3 extended modules (6 slots per module) Applies to DSJ-U1-W, DSJ-U1-L and DSJ-U1-LP ZCS-KDCA1-6N: 6 Slots by default, supports 6 units of Body Worn Camera Supports up to 3 extended modules (6 slots per module) Applies to DSJ-U1-WN, DSJ-U1-LPN ZCS-KDCA1-EX6: Extended module of ZCS-KDCA1-6, 6 slots per module, supports 6 units of Body Worn Cameras Applies to DSJ-U1-W, DSJ-U1-L and DSJ-U1-LP ZCS-KDCA1-EX6N: Extended module of ZCS-KDCA1-6N, 6 slots per module, supports 6 units of Body Worn Cameras Applies to DSJ-U1-WN, DSJ-U1-LPN
Extended Module	
Slot Functions	Battery charging, Data transmission, Lock, Priority slot, Automatic upgrade, Time correction
Data Loading Speed	Full load: up to 4.6MB/s per slot For priority slot: up to 15MB/s
Alarm	
System Alarm Triggers	No disk / Insufficient recording space / Network disconnected
Alarm Events	Buzzer / Alarm text
Storage	
Max. Internal HDDs	3 x 3.5" hard disk drawer (1 x 4TB Hard disk included) Max. 24TB (up to 8TB/each)
RAID	RAID 1
Interfaces	
Ethernet	1 x Gigabyte network port, RJ45 interface
Audio Out	Built-in speaker
Point lock	1 x Point lock (Unlock all devices at the same time bye key)
USB	1 x USB 2.0: for extended device 2 x Mini USB: for thirdparty device charging 2 x Micro USB: for thirdparty device charging
Environmental	
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F
Operating Humidity	10% ~ 95%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz ZCS-KDCA1-6/6N: Max. 105W ZCS-KDCA1-6/6N + 1 x ZCS-KDCA1-EX6/6N: Max. 135W ZCS-KDCA1-6/6N + 2 x ZCS-KDCA1-EX6/6N: Max. 165W ZCS-KDCA1-6/6N + 3 x ZCS-KDCA1-EX6/6N: Max. 195W
Emergency Power	Built-in battery: 2150mAh
Mechanical	
Weight	ZCS-KDCA1-6/6N: 10.3Kg / 22.7lb (HDD not included) ZCS-KDCA1-EX6/6N: 3.68Kg/8.11lb
Dimensions	ZCS-KDCA1-6/6N: 430 x 510 x 98mm / 16.92" x 20.08" x 3.86" ZCS-KDCA1-EX6/6N: 190 x 510 x 98mm / 7.48" x 20.08" x 3.86"

Dimensions

Units:mm



ZCS-KDCA3

Data Docking Station



Features

High Performance

- 13.3" color LCD with resolution of 1920 x 1080
- Supports up to 24 units of body worn camera
- Supports up to 24TB storage

Easy to Use

- Wall-mounted and desktop design, easy to install
- Modular design, easy to upgrade system capacity
- Open slot design, compatible with all kinds of portable cameras
- Plug and play, auto charging and data transmission
- Touch screen operation

Abundant Functions and Features

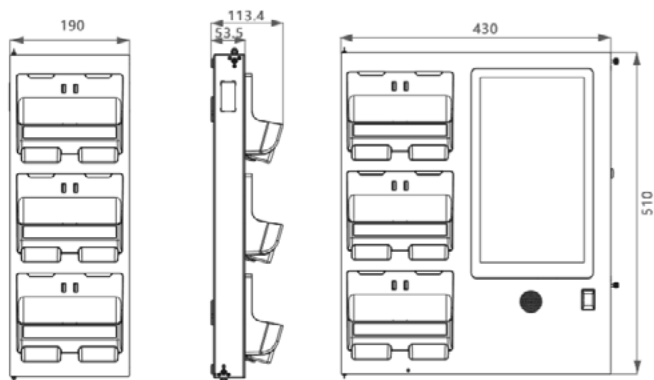
- Record searching and playback
- Use password / fingerprint to request device
- Priority slot for high speed data transmission
- Built-in battery protection for sudden power-off / shut down

Specifications

	ZCS-KDCA3
System	
Operating System	Windows10
Processor	Intel N3710
Application System	Data Docking Station Management Software
RAM	4GB
User Management	Admin / User
Log Management	User login / User operation / Alarm / Update
Display	
Size	13.3"
Resolution	1920 x 1080
Touch Screen	Supported
Search & Playback	
File Type	Video, Audio, Pic, Log
Search Mode	Duration filter / Tag
Playback Resolution	1 x 1080p@30fp
Functions	Querying, Viewing, Downloading, Removing
Slot	
Default Slot	ZCS-KDCA3-6N: 6 Slots by default, supports 6 units of Body Worn Camera Supports up to 3 extended modules (6 slots per module) Applies to DSJ-U1-S, DSJ-U1-LPN and DSJ-U3-LPN
Extended Module	ZCS-KDCA1-EX6N: Extended module of ZCS-KDCA3-6N, 6 slots per module, supports 6 units of Body Worn Cameras Applies to DSJ-U1-S, DSJ-U1-LPN and DSJ-U3-LPN
Slot Functions	Battery charging, Data transmission, Lock, Priority slot, Automatic upgrade, Time correction
Data Loading Speed	Full load: up to 4.6MB/s per slot For priority slot: up to 15MB/s
Alarm	
System Alarm Triggers	No disk / Insufficient recording space / Network disconnected
Alarm Events	Buzzer / Alarm text
Storage	
Max. Internal HDDs	3 x 3.5" hard disk drawer (1 x 4TB Hard disk included) Max. 24TB (up to 8TB/each)
Interfaces	
Ethernet	1 x Gigabite network port, RJ45 interface
Audio Out	Build-in speaker
Point lock	1 x Point lock (Unlock all devices at the same time by key)
USB	2 x USB 2.0
Environmental	
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F
Operating Humidity	10% ~ 95%
Electrical	
Power	100 ~ 240V AC, 50 ~ 60Hz ZCS-KDCA3-6N: Max. 105W ZCS-KDCA3-6N + 1 x ZCS-KDCA3-EX6N: Max. 135W ZCS-KDCA3-6N + 2 x ZCS-KDCA3-EX6N: Max. 165W ZCS-KDCA3-6N + 3 x ZCS-KDCA3-EX6N: Max. 195W
Power Consumption	
Emergency Power	Built-in battery: 2150mAh
Mechanical	
Weight	ZCS-KDCA3-6N: 10.3Kg / 22.7lb (HDD not included) ZCS-KDCA3-EX6N: 3.68Kg/8.11lb
Dimensions	ZCS-KDCA3-6N: 430 x 510 x 113mm / 16.92" x 20.08" x 4.45" ZCS-KDCA3-EX6N: 190 x 510 x 113mm / 7.48" x 20.08" x 4.45"

Dimensions

Units:mm



ZCS-CMT-10

Body Worn Camera Multichannel Charger



Specifications

	ZCS-CMT-10
Slot	
Interface	USB3.0
Charger Slot(s)	10
Charging time	Fully charged within 3 hours
Environmental	
Operating Temperature	0°C ~ 45°C / 32°F ~ 113°F
Operating Humidity	10% ~ 90%
Electrical	
Power	110V ~ 220V AC, 50~60Hz
Power Consumption	Max. 50W
Electric Current	1000mA (each slot)
Mechanical	
Weight	6.2kg / 13.67lb
Dimensions	570 × 201 × 306mm / 22.44" × 7.91" × 12.05"

Features

High-efficiency

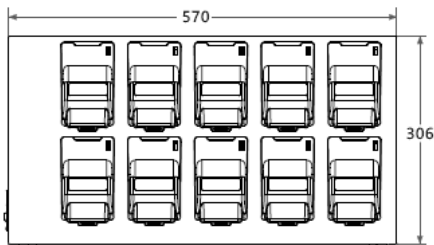
- Constant current fast charge
- Trickle charge

High Reliability

- Overcurrent protection
- Short circuit protection

Dimensions

Units:mm



USBCAM-130-M

Button Camera



Specifications

Standard	USBCAM-130-M
Interface	Micro USB2.0
Resolution	1080p@30fps
Audio	Built-in Mic
Lens	
Iris	F2.0
Focal Length	6.2mm
Angle of View	Diagonal 88°, Horizontal 74.2°, Vertical 39.8°
Protection	
Ingress Protection Rating	IP66
Mechanical	
Weight	24g / 0.053lb
Dimensions	75.6 × 24.5 × 21.4mm / 2.98" × 0.96" × 0.84"

Features

Mini Size

- 24g / 0.053lb weight
- 75.6 × 24.5 × 21.4mm / 2.98" × 0.96" × 0.84"

Abundant Functions and Features

- Hidden wear
- Built-in Mic

USBCAM-230-M

Ear-hook Camera



Specifications

Standard	USBCAM-230-M
Interface	Micro USB2.0
Resolution	1080p@30fps
Audio	Built-in Mic and earphone
Lens	
Iris	F2.2
Focal Length	4.9mm
Angle of View	Diagonal 84°, Horizontal 68°, Vertical 35°
Protection	
Ingress Protection Rating	IP54 (optional)
Mechanical	
Weight	33g / 0.073lb
Dimensions	103 × 75 × 18mm / 4.06" × 2.95" × 0.71"

Features

Mini Size

- 33g / 0.073lb weight
- 103 × 75 × 18mm / 4.06" × 2.95" × 0.71"

Abundant Functions and Features

- Built-in Mic
- Built-in earphone

MA-B

Body Worn Camera Battery Charger



MA-B1



MA-B2



MA-B3

Specifications

	MA-B1	MA-B2	MA-B3
Standard			
Interface	Micro USB2.0	AC input socket	AC input socket
Charger Slot (s)	1	6	24
Charging time	Fully charged within 3 hours		
Environmental			
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F		
Operating Humidity	10% ~ 95%		
Electrical			
Power	5V DC	100 ~ 240V AC, 50 ~ 60Hz	
Power Consumption	Max. 6W	Max. 50W	Max. 180W
Electric Current	Max.1.2A (each slot)		
Mechanical			
Weight	97g / 0.21lb	1.3kg / 2.87lb	4kg / 8.82lb
Dimensions	75 × 47 × 24.5mm / 2.96" × 1.86" × 0.97"	230 × 160 × 37mm / 9.06" × 6.30" × 1.46"	630 × 230 × 45mm / 24.81" × 6.30" × 1.78"

Features

High-efficiency

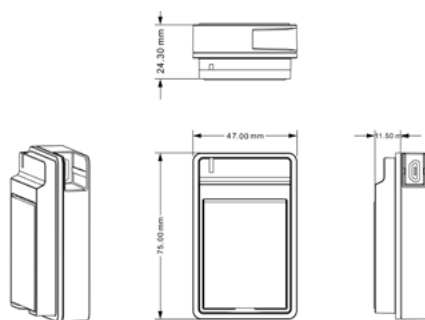
- Constant current fast charge
- Trickle charge

High Reliability

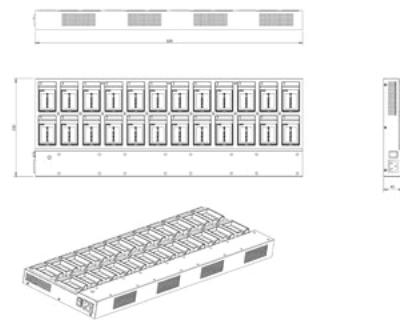
- Overcurrent protection
- Short circuit protection

Dimensions

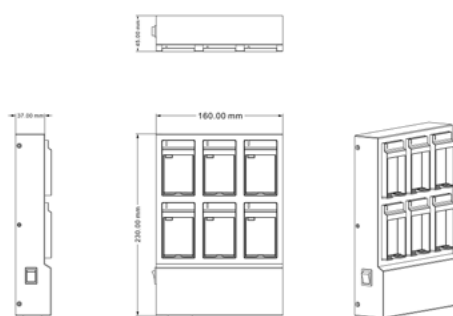
Units:mm



MA-B1



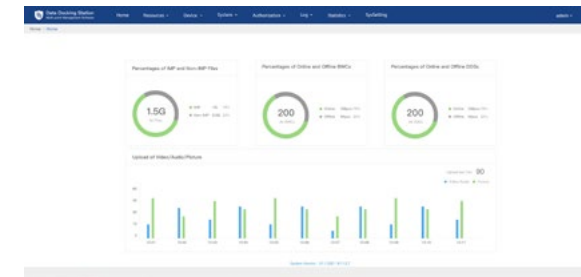
MA-B3



MA-B2

ZFS-KDCA1

Data Docking Station Management Software



Specifications

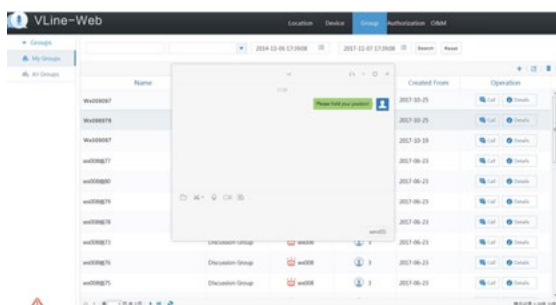
	ZFS-KDCA1 Data Docking Station Management Software
System Access	
Device Access	up to 10,000 body worn cameras access
	up to 500 data docking stations access
User Access	up to 50 users
Management Functions	
Devices Registering	Kedacom body worn camera, Kedacom data docking station
Resource Access	Video recording, Audio recording, Snapshot, Log
User Management	Admin / User
User Authorization	Layered authorization
Statistics	Dash Board, Graphical statistics
Application Programming	SDK
Browser	Kedacom Chrome
Network	
Network Protocols	TCP/IP, UDP, HTTP, XML, IPv4
User Interface	Web Client
System Requirements	
CPU	I6-core CPU or above
RAM	32GB or above
HDD	Enterprise Class SATA HDD, 1TB, 7200 RPM, 6Gb/s, 64MB cache, or above
Ethernet	1 x Gigabit network port
Operating System	Centos 7.4

Features

- Manage The Data Docking Station by PC**
- ZFS-KDCA1 can help you manage the data docking station by PC. You can easily access the data docking station and all the body worn cameras, download the recordings and snapshots.
- Multiple Device Management**
- ZFS-KDCA1 supports multiple device management. The software can manage up to 10,000 body worn cameras and 500 data docking stations. It support gaphical statistics, so you can get and view the operating statistics of all the body worn camera.
- High-performance, High-capacity**
- Average response for web page loading: ≤ 5s
 - Maximum delay for searching response: ≤ 5s
- High Security**
- Supports layered authorization
 - Supports full and accurate user logs

VLine

Communication Kit



Features

Real-time Communication Service

- VLine is a communication Kit for Kedacom portable mobile devices (such as body worn camera and body worn surveillance phone). It can provide real-time communication service, such as Push-to-Talk and message chat. VLine supports address book and contacts service, so all the body worn camera and body worn surveillance phone can easily communicate with other devices.

Group Communication

- VLine can build up many groups, each groups can have internal PTT or chat. VLine PC client also can join in the PTT or chat group, In addition, the VLine PC client can support broadcast and bulletin function, so you can send alarm or any message to all the body worn camera and body worn surveillance phone in the same time.

Map Interface

- VLine support map interface by Google offline map. You can view the position all the body worn camera and body worn surveillance phone on the map in real-time.

Powerful Management Functions

- Authorization of multi-group listening, forcible group joining
- Forcible talking assigned to high-ranking users
- Chat copying, favorites, deletion, forwarding, and history searching

High-performance, High-capacity

- Supports up to 500 clients in a group
- Supports up to 50,000 users
- Supports low Message and PTT delay (< 500 ms) on 3G/4G networks
- Supports clear voice processing

Specifications

	VLine Communication Kit
Capacity	
Maximum Number of MSG / PTT Access	Up to 50,000
Basic Functions	
Address book and contacts service	Organization architecture and real-time user status
Group service	Build up groups, supports up to 500 client in a group
Broadcast message and bulletin service	Notifications from the VLine PC Client to Body Worn Camera with alerts
Map	Google offline map
User Management	Admin / User
Message Functions	
Chat service	Text, Picture, Short video, Short audio
Push-to-Talk Functions	
P2P	Real-time person-to-person communication service
Group	Real-time group communication service
Network	
Network Protocols	TCP/IP, UDP, HTTP, XML, IPv4
User Interface	VLine PC Client, Kedacom Body Worn Camera, Kedacom Body Worn Surveillance Phone
System Requirements (Hardware)	
CPU	Min. Intel XEON E5, 4 core (20 client access)to Max. 6 x Inter XEON E5, 8 core (50,000 client access)
RAM	Min. 4GB (20 client access)to Max. 6 x 16GB (50,000 client access)
HDD	Min. 1TB (20 client access)to Max. 6 x 1TB (50,000 client access)
System Requirements (Software)	
Supported Operating System	Centos 6.5 64-bit
Database	Oracle 11g / Redis 3.0



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