



Features

Excellent Image Quality

- 2.0 Megapixel 1/3" progressive scan CMOS Sensor
- High definition and smooth picture, 1080p@60fps
- H.264 high profile video codec, saves up to 30% bandwidth and storage
- Low illumination, 0.03lux with color picture
- 120dB Ultra WDR
- 3D noise reduction / Automatic Iris (-L1, -L2 only)

Vandal-Proof

- Above IK10 @ 50J collision energy

A Variety of Installation Modes

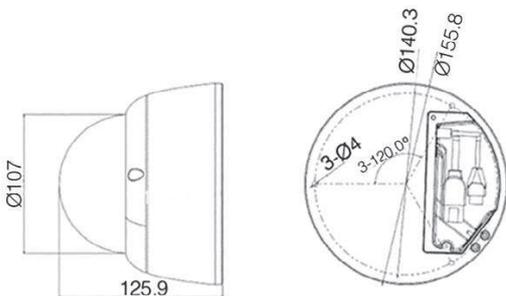
- Supports 90°, 180°, 270° image rotation
- Varifocal lens (-L1, -L2 only)

Abundant Functions and Features

- Supports Automatic Network Replenishment (ANR)
- Up to 4 video streams
- Bi-directional audio / alarm in and out / video out / RS485
- One click autofocus (-L2 only)
- PoE
- IP67

Dimensions

Units: mm



Specifications

Model		IPC2231-DN (-L1, -L2, -L3, -L4)
Camera		
Image Sensor	1/3" progressive scan CMOS	
Pixels	2.0 Megapixel	
Min. Illumination	Color: 0.03lux @ (F1.2, AGC ON) B/W: 0.003lux @ (F1.2, AGC ON)	
Shutter Speed	1/10 ~ 1/10,000s	
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	
Lens		
Mount Type	-L1, -L2: Ø14 -L3: CS -L4: M12	
Iris	-L1, -L2: Automatic Iris (DC drive) -L3: Manual Iris -L4: Fixed Iris	
Focal Length	-L1: 2.7 ~ 9mm @ F1.2 manual varifocal lens -L2: 2.7 ~ 9mm @ F1.2 motorized varifocal lens -L3: 2.2mm -L4: 2.0mm	
Focus Control	-L1: Manual -L2: Manual / Semi-Automatic	
Angle of View	-L1, -L2: 113° ~ 64° -L3: 129° -L4: 149°	
Adjustment Range	Pan: 0° ~ 355° / Tilt: 0° ~ 75° / Rotation: 0° ~ 355°	
Video		
Compression	H.264 / MJPEG	
Image Resolution	Main stream: 1080p Secondary stream: D1	
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps	
Bitrate	64kbps ~ 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	
Digital Noise Reduction	3D noise reduction	
Image Flip	Flip / Mirror / Rotation at 90°, 180°, 270°	
Audio		
Compression	G.711a / G.711u / ADPCM / G.722 / AAC-LC	
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, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE)	
Max. User Access	Max. 10 Users (includes 2 internal)	
Application Programming	ONVIF (Profile S), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
Alarm		
Alarm Triggers	Motion detection / Alarm input	
Alarm Events	Alarm caption / Snapshot / External output	
Interfaces		
Ethernet	10/100M, RJ45 interface	
Audio In / Out	1 x Line in / 1 x Line out	
Control	1 x RS485	
Alarm In / Out	3 x Input / 1 x Output	
Video Out	1 x BNC, 1.0V [p-p] / 75Ω	
Memory Slot	TF card slot, supports up to 128GB	
Environmental		
Operating Temperature	-30°C ~ 60°C / -22°F ~ 140°F	
Operating Humidity	10% ~ 95%	
Protection Level	IK10+ @50J, IP67	
Electrical		
Power	12V DC ± 10% / PoE (IEEE802.3af)	
Power Consumption	Max. 11W	
Mechanical		
Weight	1kg / 2.2lb (Gross Weight)	
Dimensions	Ø155.8 x 125.9mm / Ø6.14" x 4.96"	