SN-IPR57/20AKDN/T/Z
1080P LPR Network Bullet Camera

- 1/2.8" Progressive Scan CMOS
- Motorized lens 2.7~12mm, 7-22mm optional
- 25fps/30fps@1080P(1920*1080)
- Supporting EU+CIS number plates
- Recognition rate of 97% or higher
- Max recognition speed of 50km/h
- 3D DNR, WDR, ICR
- ROI, Defog, HLC, DIS
- Smart IR Up to 60m
- IP67, IK10 optional

System Overview

Sunell LPR camera is capable to capture and recognize vehicle license plate automatically. It saves backend system resource, where all the process is completed on edge. It also provides local black/white list configuration to classify vehicle linking to certain action, such as FTP upload image, relay output control. License plate shall be saved on camera(500 items total),meanwhile, camera shall automatically upload license plate information including license plate number, country, license plate image to host via various interface as long as the camera capture a license plate.

For a simple application, the camera can be connected to an access gate controller to trigger access gate switch on automatically; for complicated applications, LPR camera provides real time plate number to back end system for further identification, analysis, measurement, and record. CGI and ONVIF containing license plate information is provided by Sunell.

The product is ideal for vehicle management system is following scenario: Hotel/Airport/SOHO/School/Residential Apartment and Villa/City Traffic/ Tolling Gate/Border/Government/Shopping Center

Functions

Wide Dynamic Range
Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental
With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.
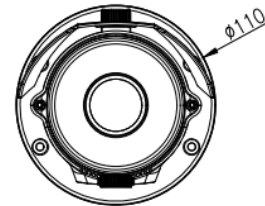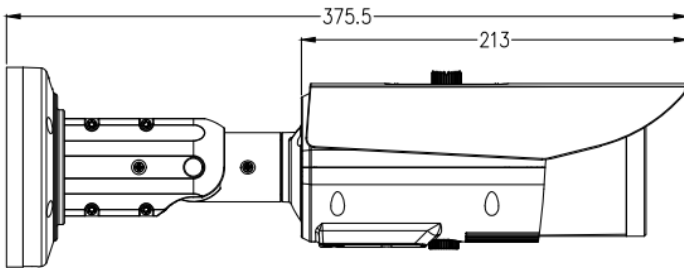
HEVC (H.265)
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity , optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity.

Technical Specification

Camera

Image Sensor	1/2.8" Progressive Scan CMOS
Effective Pixels	1920(H)×1080(V)
Scanning System	Progressive
Electronic Shutter	1/5-1/20000s
Min. illumination	Color:0.001Lux@(F1.2,AGC ON) B/W:0Lux@(IR LED ON)
S/N Ratio	55dB
IR Range	Up to 60m
IR On/Off Control	Auto/ Manual
IR LEDs	8pcs
Pan/Tilt/Rotation Range	Pan:0˚~360˚, Tilt:0˚~90˚, Rotation:0˚~360˚

Lens

Lens Type	Motorized	
Iris	Auto Iris	
Focal Length	2.7~12mm	7-22mm
F Number	F1.3	F1.4
Angle of View	105°~ 32°	40.7˚ ~16.8˚
Focus Control	Motorized	
Close Focus Distance	0.2m	1m

Video

Compression	H.265,H.264,MJPEG
Max. Resolution	1080P(1920×1080)
Streaming Capability	3 Streams
Stream / Frame Rate	Stream1:1920×1080/1280×720 @25/30fps Stream2: D1/VGA/CIF @25/30fps Stream3: 1920×1080/1280×720/D1/VGA/CIF
Bit Rate Control	CBR/VBR
Bit Rate	Main Stream: 500Kbps~12Mbps Sub Stream: 100Kbps~6Mbps
Day/Night	ICR
Image Enhancement	HLC / Defog / WDR (>120dB)
White Balance	Support
Gain Control	Auto/Manual
Noise Reduction	2D/3D DNR
Electronic Image Stabilization(EIS)	Support
Smart IR	Support
Mirror	Support
Region of Interest	Support
Motion Detection	Support
Privacy Masking	Support

Audio

Compression	G.711, RAW_PCM
Bit Rate	64kbps (G.711), 128kps (RAW_PCM)

Network

Protocols:	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP
Interoperability	ONVIF
Streaming Method	Unicast
Max. User Access	20 Users
Web Viewer	<IE11
Management Software	IMS 3.0
Smart Phone	IOS, Android

Intelligence

IVS	N/A
Intelligent Video	Embed ANPR, Marx recognition speed of 50Km/h, 1000 whitelist & black list, FTP image upload.

License Plate Recognition

LPR Setting	Recognition area & Country Configurable, Black/White List Configuration, Linkage function, Search function
Info. Overlay	Capture time, plate info.
Number Plate Recognition Area	European/CIS
Integration	ONVIF

Interface

Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio Input /Output
Alarm	1ch Alarm Output
RS485	Support
BNC Output	N/A
Reset Button	Support
Edge Storage	Micro SD ,Max 128GB

Electrical

Power Supply	DC12V/POE
Power Consumption	5W(IR LED OFF),8W（IR LED ON）
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP67 (IK10 optional)
Certifications	CE / FCC
Casing	Metal
Dimensions	φ110×375.5mm
Net Weight	1680g

Dimensions(mm)

375.5

213

⌀110

Accessories

Optional：

SN-CBK658
Junction Box

SN-CBK645A
Junction Box

SN-CBK627B
Pole Mount