

# SN-IPR8020CQAA-Z

2MP Active Deterrence Turret Network Camera



## Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 1080P(1920×1080) @25/30 fps resolution
- 2.7 to 13.5 mm motorized focal lens
- Support face, human, vehicle detection and capture
- Intelligent analysis: intrusion, single / double line crossing, loitering, wrong-way detection, smart motion detection, and people counting
- True WDR, 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 40 m
- Built-in mic and speaker, 1/1 audio input/output, 1/1 alarm input/output
- Supports strobe-light and audible alarms linkage to warn intruders off
- Built-in micro SD card slot
- IP66

## Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max Resolution	2MP, 1920H) × 1080(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 355°, Tilt: 0° to 80°, Rotation: 0° to 360°
Lens	
Lens Type	Varifocal lens, Motorized focal
Focal Length	2.7 to 13.5 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 100.9° to 28.6°, V: 54.2° to 15.2°
Iris	Fixed Iris
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 40 m (131.2 ft)
Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target	- Supports face, human, and vehicle detection & capture - Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, and Smart motion detection. - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 1920 × 1080, 1280 × 720 Stream2: D1, VGA, 640 × 360, CIF, QVGA Stream3: VGA, CIF, QVGA
Frame Rate	Up to 25/30fps
Bit Rate Control	CBR/VBR

Bit Rate	Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 A-law, G.711 $\mu$ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)

### Image

Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Mode	Indoor, Outdoor, Mirror, Corridor mode
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day, Night, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	WDR, HLC, BLC, Defog
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas

### Event

Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, SMTP upload, FTP upload, Alarm output, Snapshot, Audible alarm output, Flashlight alarm

### Network

Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 user levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge

### Security

OS / Firmware Protect	Encrypted firmware, Signed firmware	Encrypted firmware, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout	IP-based access control, Auto logout
Data Protect	Encryption credentials	Encryption credentials

Audit	Access / System / Event Log management	Access / System / Event Log management
Secure Storage	SDcard partition encrypt (AES-256), Secure element	SDcard partition encrypt (AES-256), Secure element
Supply Chain Security	SBOM	SBOM

### Interface

Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Built-in Microphone	Supported
Built-in Speaker	Supported
Audio Interface	1ch Input, 1ch Output
Alarm Interface	1ch Input, 1ch Output
SD Card Slot	Built-in, up to 256GB
Reset Button	Supported

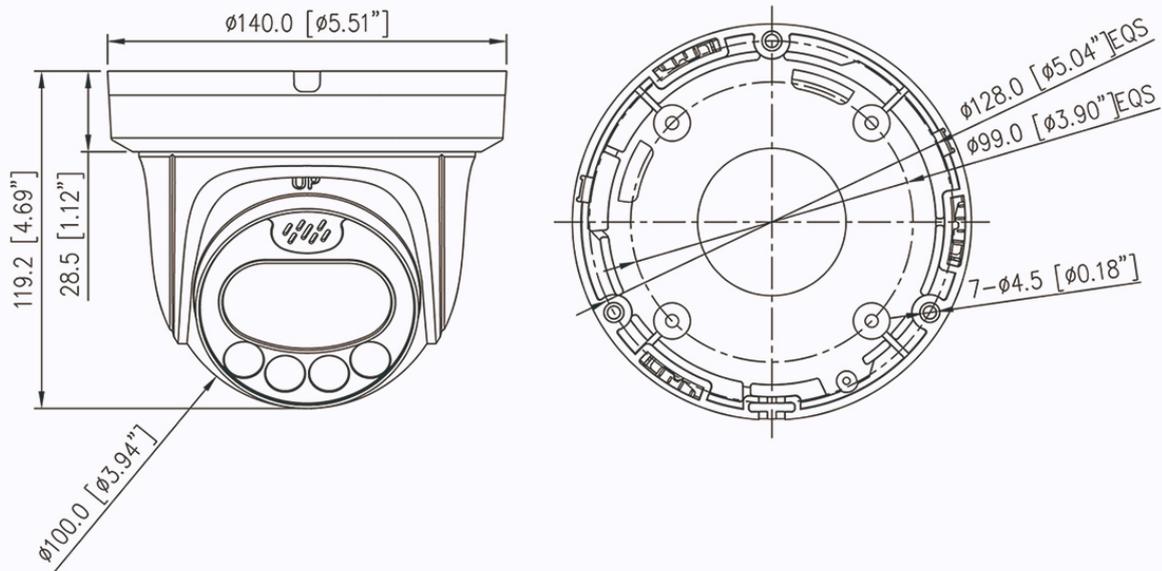
### General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-10% to +25%) / PoE (802.3af)
Power Consumption	Max 9 W
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66
Certifications	CE-EMC - EN 55032, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy body, Decoration ring: plastic
Dimensions	φ140 × 119.2 mm (5.51 × 4.69 inch)
Net Weight	Approx. 0.92 kg (2.03 lb)

### DORI Distance (EN62676-4 standard)

Detect	48 to 152 m (157.5 to 498.7 ft)
Observe	19.2 to 60.8 m (63 to 199.5 ft)
Recognize	9.6 m to 30.4 (31.5 to 99.7 ft)
Identify	4.8 to 15.2 m (15.7 to 49.9 ft)

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK645G  
Junction Box



SN-CBK206  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount