

SN-IPV7281MFAC-B

8MP Smart Dual Light Active Deterrence Turret Network Camera



Key Features

- 1/1.8" progressive scan CMOS
- Max. 8MP(3840×2160) @25/30fps resolution
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- Intelligent analytics: Intrusion, line-crossing, loitering, wrong-way detection, illegal parking, perimeter detection, smart motion detection, people counting, and human behavior analysis (running, fall, fight).
- True WDR (120dB), 3D DNR, ROI, HLC, BLC, Defog.
- Built-in red and blue warning light, support sound-light warning.
- Built-in IR LED and warm lights, illumination distance up to 30 m.
- Built-in microphone and speaker, 1/1 audio in/out, 1/1 alarm in/out.
- Built-in microSD card slot (up to 1 TB)
- IP66 protection

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max Resolution	8MP, 3840(H) × 2160(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with illuminator on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 335°, Tilt: 0° to 75°, Rotation: 0° to 360°
Lens	
Lens Type	Fixed lens
Focal Length	2.8 mm
Max. Aperture	F1.0
Field of View (FOV)	H: 109.4°, V: 59.5°
Iris	Fixed Iris
Illuminator	
Type	IR, Warm light
IR wavelength	850 nm
Distance	IR distance up to 30 m (98.4 ft) Warm light distance up to 30 m (98.4 ft)
Control	IR mode, White mode, Intelligent mode, None
Intelligent Analytics	
AI Multi-Target	- Supports face, human, and vehicle detection & capture. - Supports human and vehicle attribute detection.
Attribute Extraction	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest. Vehicle Attributes: Type, color, brand, orientation.
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, area people limit, perimeter detection, running detection, fall detection, fight detection. - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF 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)	8 areas
Audio Compression	G.711 A-law, G.711 μ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)

Image

Image Adjustment	Brightness, Sharpness, Contrast, Saturation
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 mode, Night mode, 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, FTP upload, SMTP upload, Alarm output, Snapshot, Audible alarm output, White light alarm output, Red and blue light 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, Secure boot, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout

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

Interface

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

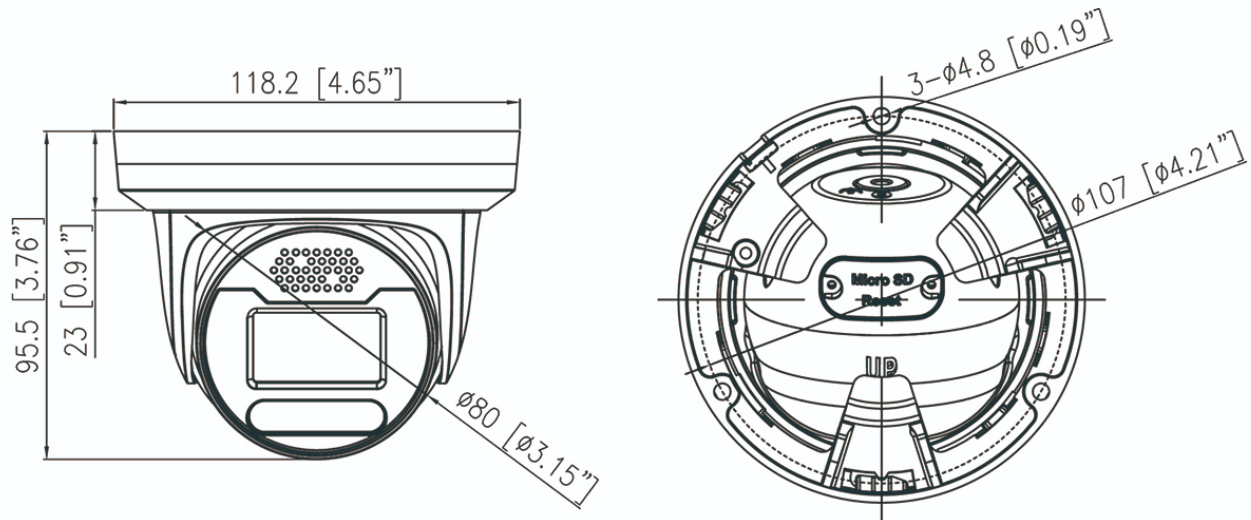
General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)
Power Consumption	Typical: 3.3 W (12VDC); approx. 4.1 W (PoE) Max (with IR/Warm Light + Speaker + Red/Blue Lights on): 8.3 W (12 VDC); approx. 10.4 W (PoE)
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, 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	φ118.2 × 95.5 mm (φ4.65 × 3.76 inch)
Net Weight	Approx. 545 g (1.2 lb)

DORI Distance (EN62676-4 standard)

Detect	80.4 m (263.8 ft)
Observe	32.2 m (105.6 ft)
Recognize	16.1 m (52.8 ft)
Identify	8.0 m (26.3 ft)

Dimensions (mm)



Accessories

Optional:



SN-CBK646M
Junction Box



SN-BK382A
Wall Mount



SN-CBK203
Pendant Cap



SN-CBK402
Ceiling Mount



SN-CBK501
Wall Mount



SN-CBK502
Wall Mount



SN-CBK101
Pole Mount



SN-CBK102
Corner Mount