SN-IPV808eEEAR-SZ-C

8MP Starlight IR Varifocal Dome Network Camera



Key Features

- 1/1.8” STARVIS™ CMOS, up to 8MP (3840 × 2160) @ 25/30 fps
- Supports face, human, and vehicle detection with snapshot capture
- Supports human and vehicle attribute analysis
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR illumination up to 50 m
- 1/1 audio I/O, 2/1 alarm I/O
- Built-in microSD card slot (up to 1 TB)
- Hardware Root of Trust with FIPS 140-3 Level 3 validated secure element
- IP67, IK10-rate housing

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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: 0.003 Lux @ (F1.3, AGC ON), B/W: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 355°, Tilt: 0° to 75°, Rotation: 0° to 355°
Lens	
Lens Type	Varifocal lens, Motorized focal
Focal Length	3.6 to 11 mm
Max. Aperture	F1.3
Field of View (FOV)	H: 109.8° to 47.5°, V: 57.5° to 26.6°
Iris	P-Iris
Illuminator	
Illuminator Type	IR
IR wavelength	850 nm
Illumination Distance	Up to 50 m (164.0 ft)
Illuminator Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target Detection	- Supports face, human, and vehicle detection with snapshot capture - Supports human and vehicle attribute analysis - Supports tracking display modes: Full Frame, Four-Corner Frame, and Mosaic
Attribute Analysis	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, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection - Supports alarm triggering based on specified target types (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 3840×2160, 2592×1944, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA

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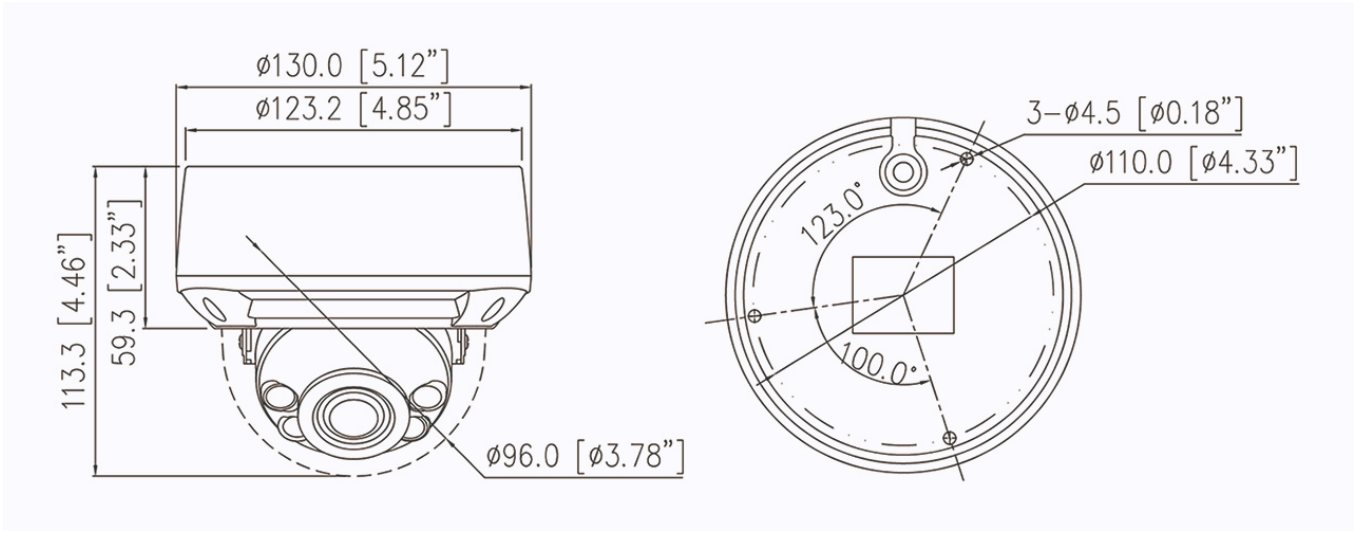
Frame Rate	Up to 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 16 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 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	HLC, BLC, Defog, WDR
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, Alarm output, FTP upload, SMTP upload, Snapshot, Audible alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, 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 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, Brute-force attack protection
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

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Audit	Access, system, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM
Hardware Security	FIPS 140-3 Level 3 validated secure element
Interface	
Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
Alarm Interface	2 inputs, 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 / 24VAC / PoE (802.3af)
Power Consumption	Typical: 3.5 W (12 VDC) / approx. 4.4 W (PoE) Max (IR on + Focusing): 7 W (12 VDC) /approx. 8.8 W (PoE)
Operating Temperature	-40 ℃ to 60 ℃ (-40 ℉ to 140 ℉)
Operating Humidity	< 95% RH, non-condensing
Ingress Protection	IP67 (housing), IK10
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 housing; PC dome cover
Dimensions	φ130 × 113.3 mm (φ5.12 × 4.46 inch)
Net Weight	Approx. 0.8 kg (1.76 lb)
DORI Distance (EN 62676-4 standard)	
Detect	84 to 185 m (275.6 to 607.0 ft)
Observe	33.6 to 74 m (110.2 to 242.8 ft)
Recognize	16.8 to 37.0 m (55.1 to 121.4 ft)
Identify	8.4 to 18.5 m (27.6 to 60.7 ft)

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Dimensions (mm)



Accessories

Optional:



SN-CBK657
Junction Box



SN-CBK201
Pendant Cap



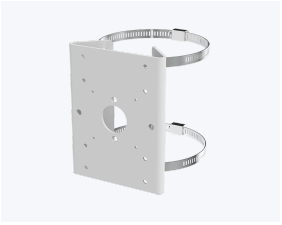
SN-CBK402
Ceiling Mount Bracket



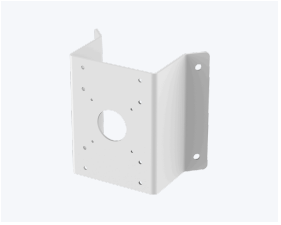
SN-CBK501
Wall Mount Bracket



SN-CBK502
Wall Mount Bracket



SN-CBK101
Pole Mount Bracket



SN-CBK102
Corner Mount Bracket



SN-CBK901
In-ceiling Mount Bracket

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