SN-IPV808dEEAR-VZ (Nx)

8MP Starlight IR Varifocal Dome Network Camera



Key Features

- 1/2.8” STARVIS™ CMOS, up to 8MP (3840 × 2160) @ 25/30 fps
- 2.7–12 mm motorized varifocal lens
- 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 (120 dB), 3D DNR, ROI, Defog, HLC
- Smart IR illumination up to 40 m
- 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot (up to 1 TB)
- Built-in Network Optix VMS Server for Integrated Video Management
- IP67, IK10 protection

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Specifications

Camera	
Image Sensor	1/2.8” Progressive Scan CMOS
Max. Resolution	8MP, 3840(H) × 2160(V)
Shutter Speed	1/5 to 1/20,000s
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, 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	Motorized Varifocal lens
Focal Length	2.7–12 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 100°–31.7°, V: 53°–17.8°
Iris	Auto Iris
Focus Control	Motorized
Illuminator	
Illuminator Type	IR
IR wavelength	850 nm
Illumination Distance	Up to 40 m (131.2 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

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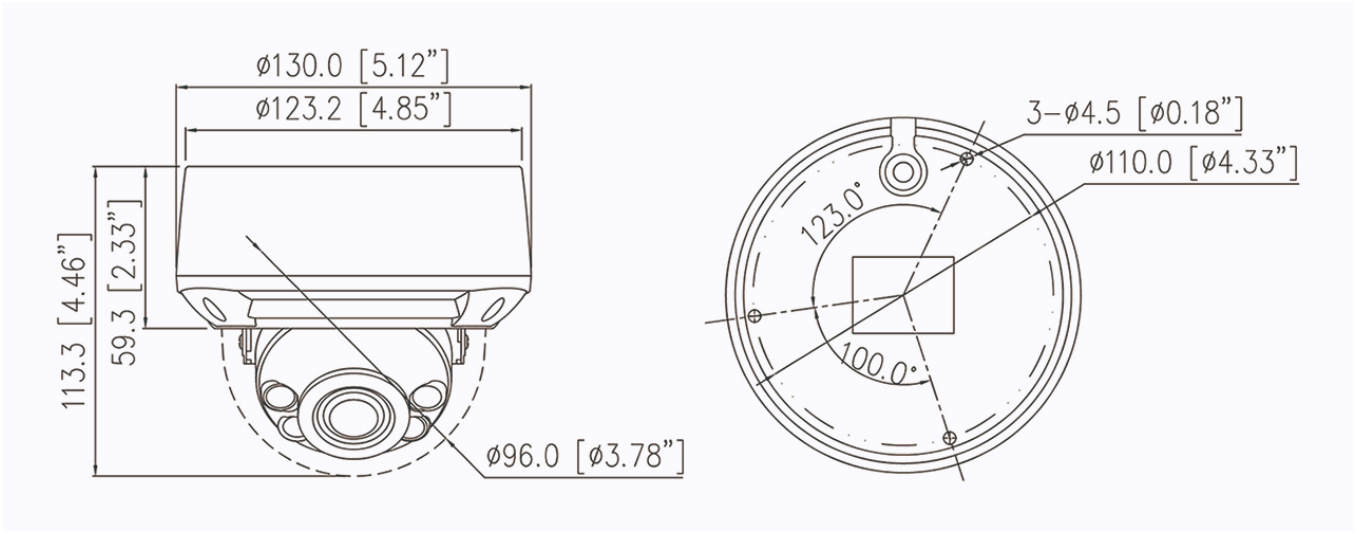
Resolution	Stream 1: 3840 × 2160, 2592 × 1944, 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream 2: D1, VGA, CIF Stream 3: VGA, CIF, QVGA
Frame Rate	Up to 25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream 1: 200 Kbps to 16 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Up to 8 zones
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 (120 dB)
Privacy Masking	Up to 4 configurable zones
Event	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm output, Alarm record, FTP upload, Email Notification, 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	Chrome, Firefox, Microsoft Edge, IE11 or earlier
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)

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Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access, system, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM
Interface	
Network Interface	1 × RJ45 10/100 Mbps Ethernet port
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
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 (-10% to +25%) / PoE (IEEE 802.3af)
Power Consumption	Typical: 3.7 W (12 VDC) / approx. 4.63 W (PoE) Max.: 7.2 W (12 VDC) / approx. 9 W (PoE)
Operating Temperature	-40 ℃ to 60 ℃ (-40 ℉ to 140 ℉)
Operating Humidity	< 95% RH, non-condensing
Ingress Protection	IP67, 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	94–274 m (308.4–899.0 ft)
Observe	37.6–109.6 m (123.4–359.6 ft)
Recognize	18.8–54.8 m (61.7–179.8 ft)
Identify	9.4–27.4 m (30.8–89.9 ft)

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Dimensions (mm)



Accessories

Optional:



SN-CBK657

Junction Box



SN-CBK201

Pendant Cap



SN-CBK402

Ceiling Mount Bracket



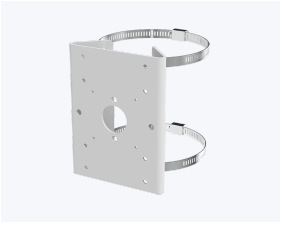
SN-CBK501

Wall Mount Bracket



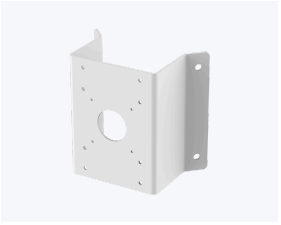
SN-CBK502

Wall Mount Bracket



SN-CBK101

Pole Mount Bracket



SN-CBK102

Corner Mount Bracket



SN-CBK901

In-ceiling Mount Bracket

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