SN-IPR8042DQAW-B

4MP Full Color Bullet Network Camera



Key Features

- 1/2.8” STARVIS™ CMOS, up to 4MP (2592 × 1520) @ 25/30 fps
- 2.8 mm / 4 mm fixed lens optional
- Supports face, human, and vehicle detection with snapshot capture
- Intelligent analytics: Intrusion, smart motion detection, single/double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, and people counting.
- Supports AV1 video compression
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Built-in warm light illumination up to 40 m
- Built-in mic and speaker, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot (up to 1 TB)
- Hardware Root of Trust with FIPS 140-3 Level 3 validated secure element
- IP66 protection

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Specifications

Camera	
Image Sensor	1/2.8” Progressive Scan CMOS
Max. Resolution	4MP (2592 × 1520)
Shutter Speed	1/5 to 1/20,000s
Min. Illumination	Color: 0.001 lux @ (F1.0, AGC ON); 0 lux with warm light on
Day & Night	Fixed filter
S/N Ratio	55 dB
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360°
Lens	
Lens Type	Fixed lens
Focal Length	2.8 mm / 4 mm (Optional)
Max. Aperture	F1.0
Field of View (FOV)	2.8 mm: H 95.5°, V 50.9° 4 mm: H 77.1°, V 44.2°
Iris	Fixed Iris
Focus Control	Fixed
Illuminator	
Illuminator Type	Warm Light
Illumination Distance	Up to 40m (131.2 ft)
Illuminator Control	Auto / Manual
Intelligent Analytics	
AI Multi-Target Detection	Supports face, human, and vehicle detection with snapshot capture
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, area people limit, and perimeter detection.. - Supports alarm triggering based on specified target types (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream 1: 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

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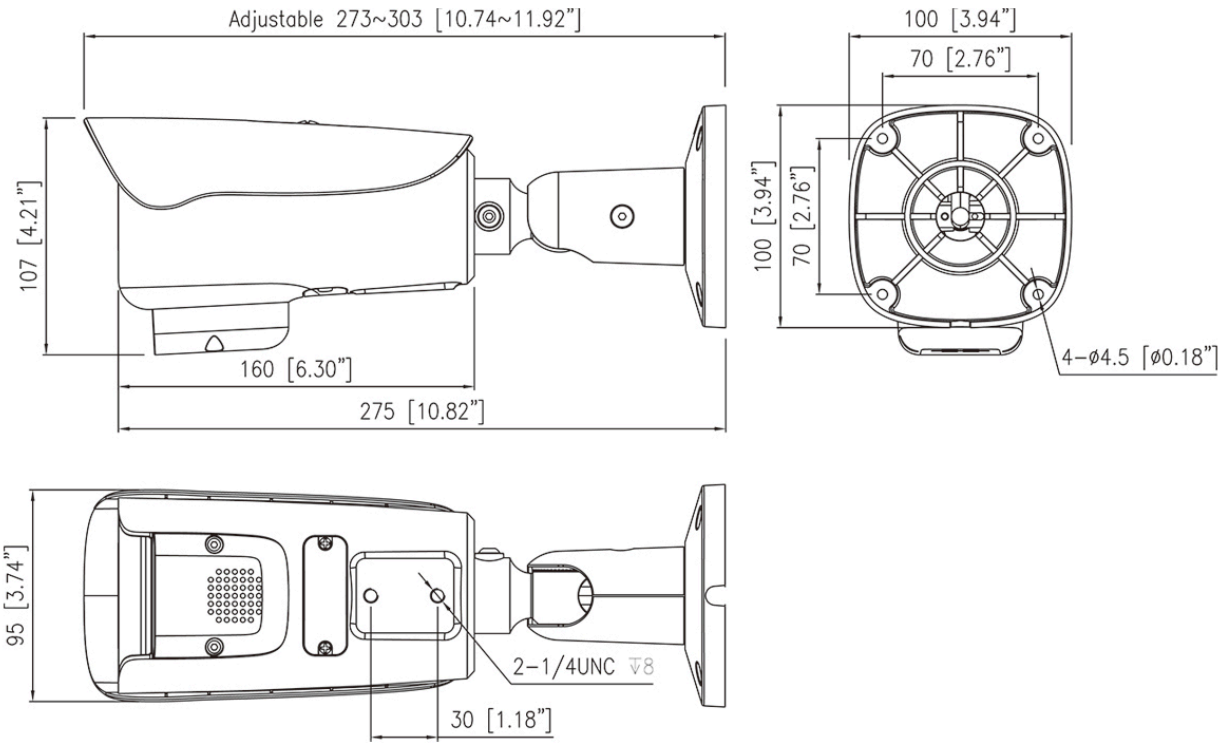
Bit Rate	Stream 1: 200 Kbps to 12 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Up to 8 zones
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, 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	WDR, HLC, BLC, Defog
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 record, Alarm output, 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)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access, system, and event log management
Secure Storage	AES-256 encrypted SD card storage

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Supply Chain Security	SBOM
Hardware Security	FIPS 140-3 Level 3 validated secure element
Interface	
Network Interface	1 × RJ45 10/100 Mbps Ethernet port
Built-in Microphone	Supported
Built-in Speaker	Supported
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 (−15% to +25%) / PoE (IEEE 802.3af)
Power Consumption	12 VDC: Typical 2.5 W, Max. 10 W; PoE: Approx. 3.2 W (Typical), 12.5 W (Max.)
Operating Temperature	-35 ℃ to 60 ℃ (-31 ℉ to 140 ℉)
Operating Humidity	≤ 95% RH (Non-condensing)
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 housing; PC components
Dimensions	303 × 100 × 107 mm (11.9 × 3.94 × 4.21 inch)
Net Weight	Approx. 1.25 kg (2.76 lb)
DORI Distance (EN 62676-4 standard)	
Detect	2.8 mm: 68 m (223.1 ft); 4 mm: 80 m (262.5 ft)
Observe	2.8 mm: 27.2 m (89.2 ft); 4 mm: 32 m (105.0 ft)
Recognize	2.8 mm: 13.6 m (44.6 ft); 4 mm: 16 m (52.5 ft)
Identify	2.8 mm: 6.8 m (22.3 ft); 4 mm: 8 m (26.3 ft)

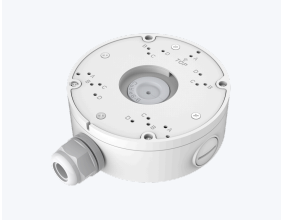
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Dimensions (mm)



Accessories

Optional:



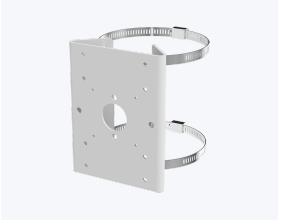
SN-CBK645G

Junction Box



SN-CBK627D

Pole Mount Bracket



SN-CBK101

Pole Mount Bracket



SN-CBK102

Corner Mount Bracket

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