

SN-IPR8052DQAN-VZ

5MP IR Varifocal Bullet Network Camera



Key Features

- 1/2.8" STARVIS™ CMOS, up to 5MP (2592 × 1944) @ 25/30 fps
- 2.7–12 mm or 5–50 mm varifocal lens options
- 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 (120 dB), 3D DNR, ROI, Defog, HLC
- Smart IR up to 60 m (2.7–12 mm) / 80 m (5–50 mm)
- 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 Certified Secure Element
- IP66 protection

Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	5MP (2592 × 1944)
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)
S/N Ratio	55 dB
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360°
Lens	
Lens Type	Varifocal lens
Focal Length	2.7–12 mm / 5–50 mm (Optional)
Max. Aperture	F1.6 / F2.0
Field of View (FOV)	2.7–12 mm: H 94.4°–29.9°, V 68.3°–22.4°; 5–50 mm: H 46.7°–7.4°, V 34.4°–5.6°
Iris	Auto Iris
Focus Control	Motorized
Illuminator	
Illuminator Type	IR
IR wavelength	850 nm
Illumination Distance	2.7–12 mm: Up to 60 m (196.9 ft) 5–50 mm: Up to 80 m (262.47 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 × 1944, 2560 × 1440, 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 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/ RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SNMP, 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
Supply Chain Security	SBOM
Hardware Security	FIPS 140-3 Level 3 certified 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

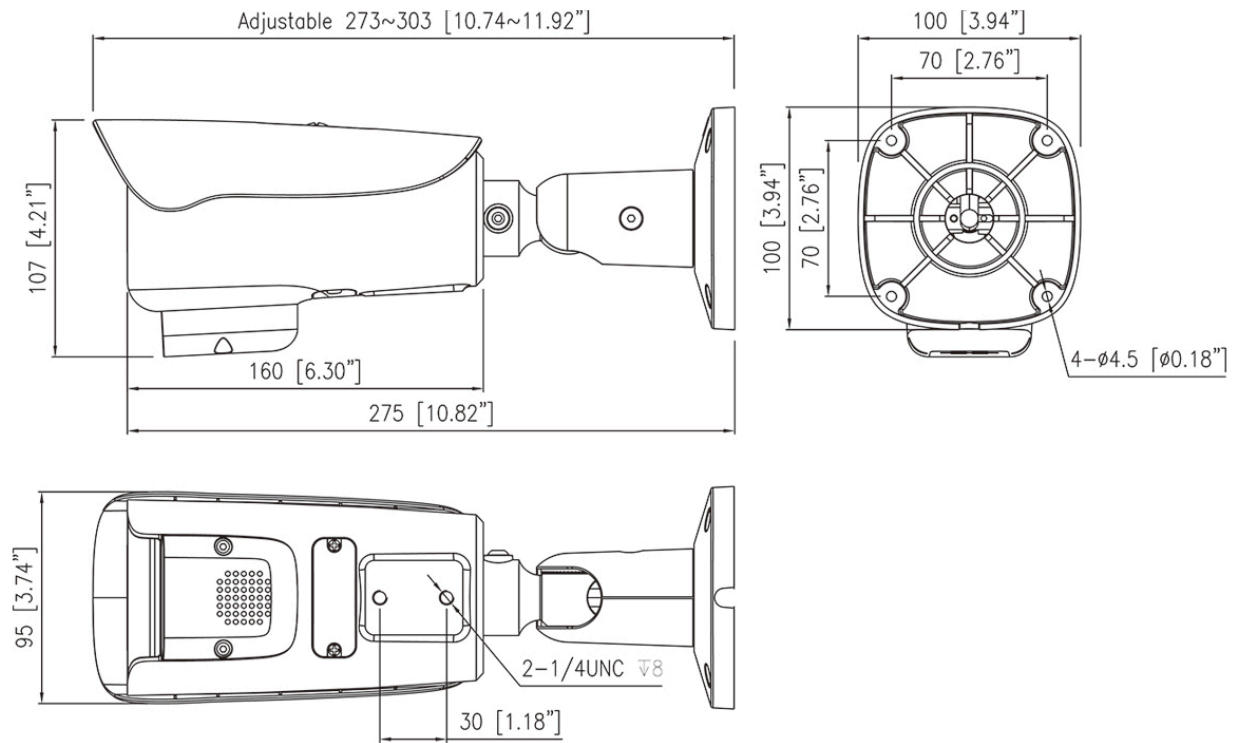
General

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. 9.5 W; PoE: Approx. 3.2 W (Typical), 11.9 W (Max.)
Operating Temperature	–35 °C to 60 °C (–31 °F to 140 °F)
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. 1.3 kg (2.87 lb)

DORI Distance (EN 62676-4 standard)

Detect	2.7–12 mm: 68–204 m (223.1–669.3 ft) 5–50 mm: 132–836 m (433.1–2,742.8 ft)
Observe	2.7–12 mm: 27.2–81.6 m (89.2–267.7 ft) 5–50 mm: 52.8–334.4 m (173.2–1,097.1 ft)
Recognize	2.7–12 mm: 13.6–40.8 m (44.6–133.9 ft) 5–50 mm: 26.4–167.2 m (86.6–548.6 ft)
Identify	2.7–12 mm: 6.8–20.4 m (22.3–66.9 ft) 5–50 mm: 13.2–83.6 m (43.3–274.3 ft)

Dimensions (mm)



Accessories

Optional:



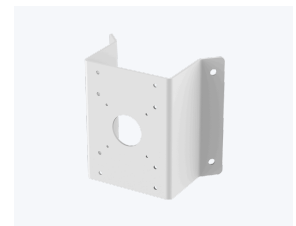
SN-CBK645G
Junction Box



SN-CBK627D
Pole Mount Bracket



SN-CBK101
Pole Mount Bracket



SN-CBK102
Corner Mount Bracket