SN-IPR8052BZAN-Z

5MP IR Varifocal Bullet Network Camera



Key Features

- 1/2.8” STARVIS™ CMOS, up to 5MP (2592 × 1944) @ 25/30 fps
- 2.7–13.5 mm motorized focal lens
- 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 illumination up to 50 m
- 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
- IP67-rated housing

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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	2.7–13.5 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 94.4°–29.9°, V: 68.3°–22.4°
Iris	Fixed Iris
Focus Control	Motorized
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
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

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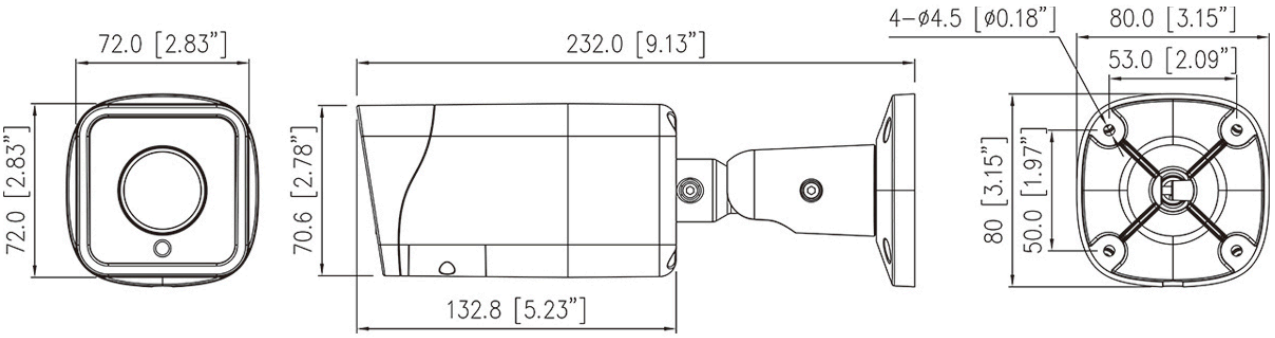
Bit Rate	Stream 1: 200 Kbps to 12 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Up to 8 zones
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, 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
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 2.2 W, Max. 5.8 W; PoE: Approx. 2.8 W (Typical), Max. 7.3 W (Max.)
Operating Temperature	-35 ℃ to 60 ℃ (-31 ℉ to 140 ℉)
Operating Humidity	≤ 95% RH (Non-condensing)
Ingress Protection	IP67 (housing)
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
Dimensions	232 × 80 × 80 mm (9.13 × 3.15 × 3.15 inch)
Net Weight	Approx. 0.79 kg (1.74 lb)
DORI Distance (EN 62676-4 standard)	
Detect	68–204 m (223.1–669.3 ft)
Observe	27.2–81.6 m (89.2–267.7 ft)
Recognize	13.6–40.8 m (44.6–133.9 ft)
Identify	6.8–20.4 m (22.3–66.9 ft)

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Dimensions (mm)



Accessories

Optional:



SN-CBK656A

Junction Box



SN-CBK627D

Pole Mount Bracket

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