# SN-IPR8080CBAN-Z

**8MP IR Motorized Varifocal Bullet Network Camera**

## Key Features

- 1/2.8” 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 distance up to 50 m
- Built-in mic and speaker, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- IP66 protection

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## Specifications

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|---|---|
| **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: 0.01 Lux @ (F1.6, AGC ON),<br>B/W: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on |
| Day & Night | Auto (ICR) |
| Angle Adjustment | Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360° |
| **Lens** | |
| Lens Type | Varifocal lens, Motorized focal |
| Focal Length | 2.7 to 13.5 mm |
| Max. Aperture | F1.6 |
| Field of View (FOV) | H: 102.7° to 30.2°, V: 53.8° to 16.8° |
| Iris | Fixed 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<br>- Supports human and vehicle attribute analysis<br>- 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.<br>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, and fight detection.<br>- Supports accurate human and vehicle classification |
| 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<br>Stream2: D1, VGA, CIF<br>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<br>Stream2: 100 Kbps to 6 Mbps<br>Stream3: 100 Kbps to 3 Mbps |
| Smart Encoding | Supported |
| Region of Interest (ROI) | Off/On (8 areas, 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 adjustable |
| 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, Night, Timer |
| Noise Reduction | 2D/3D DNR |
| Image Enhancement | WDR, HLC, BLC, Defog |
| 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, SMTP upload, FTP upload, Alarm output, 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, 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 log management |
| Secure Storage | AES-256 encrypted SD card storage |
| Supply Chain Security | SBOM |
| **Interface** | |
| Network Interface | 1 × Ethernet (10/100 Base-T), RJ-45 connector |
| Built-in Microphone | Supported |
| Built-in Speaker | Supported |
| Audio Interface | 1ch Input, 1ch Output |
| Alarm Interface | 1ch Input, 1ch Output |
| SD Card Slot | Built-in, up to 256GB |
| 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 (802.3af) |
| Power Consumption | Max 11.5 W |
| Operating Temperature | -40 ℃ to 55 ℃ (-40 ℉ to 131 ℉ ) |
| Operating Humidity | ≤ 95% RH (Non-condensing) |
| Ingress Protection | IP66 |
| Certifications | CE-EMC<br>- EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4<br>FCC 47 CFR Part 15 Subpart B |
| Material | Aluminum alloy housing; PC components |
| Dimensions | 242.6 × 87.7 × 97.2 mm (9.55 × 3.45 × 3.83 inch) |
| Net Weight | Approx. 0.92 kg (2.03 lb) |
| **DORI Distance (EN 62676-4 standard)** | |
| Detect | 88 to 280 m (288.7 to 918.6 ft) |
| Observe | 35.2 to 112 m (115.5 to 367.5 ft) |
| Recognize | 17.6 to 56 m (57.7 to 183.7 ft) |
| Identify | 8.8 to 28 m (28.9 to 91.9 ft) |

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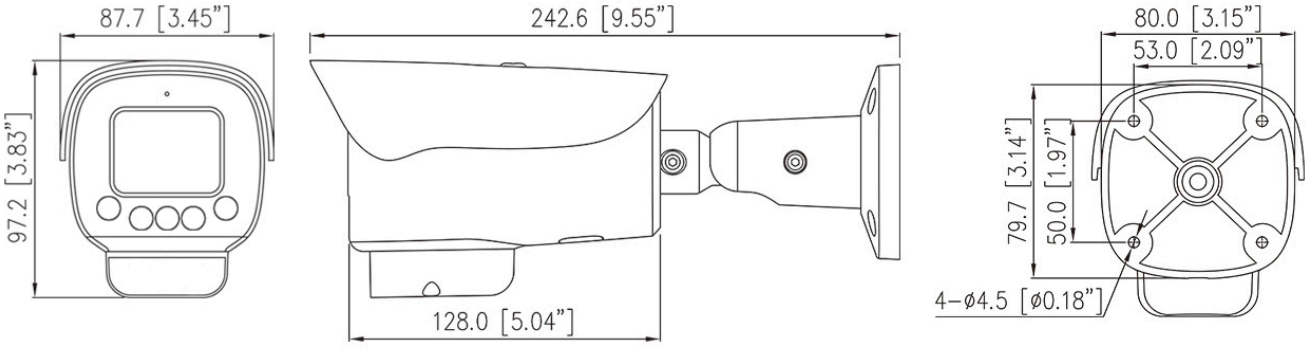
## Dimensions (mm)




## Accessories

**Optional:**

SN-CBK656A

Junction Box

SN-CBK627D

Pole Mount Bracket

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