

# SN-IPR8080DQAN-Z

8MP IR Motorized Varifocal Bullet Network Camera



## Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 8MP(3840 × 2160) @25/30 fps resolution
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- 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 60 m
- Built-in mic and speaker, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- IP66 protection

## 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: 0.01 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           |                                                                                                                                                                                                                                                                                                    |
| Type                  | IR                                                                                                                                                                                                                                                                                                 |
| IR wavelength         | 850 nm                                                                                                                                                                                                                                                                                             |
| Distance              | Up to 60m (196.9 ft)                                                                                                                                                                                                                                                                               |
| Control               | Auto/Manual                                                                                                                                                                                                                                                                                        |
| Intelligent Analytics |                                                                                                                                                                                                                                                                                                    |
| AI Multi-Target       | <ul style="list-style-type: none"> <li>- Supports face, human, and vehicle detection &amp; capture.</li> <li>- Supports human and vehicle attribute detection.</li> <li>- Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic.</li> </ul>                                         |
| Attribute Extraction  | 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, fight detection.<br>- Supports accurate target classification (human/vehicle) |
| 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                                                                                                                                                            |

|                                   |                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 $\mu$ -law, RAW_PCM                                                                                                            |
| Audio Bit Rate                    | 64 Kbps (G.711), 128 Kbps (RAW_PCM)                                                                                                               |
| <b>Image</b>                      |                                                                                                                                                   |
| 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                                                                                                                                           |
| <b>Event</b>                      |                                                                                                                                                   |
| 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                                                               |
| <b>Network</b>                    |                                                                                                                                                   |
| Protocols                         | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, 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                                                                                                            |
| <b>Security</b>                   |                                                                                                                                                   |
| OS / Firmware Protect             | Encrypted firmware, Signed firmware                                                                                                               |
| User Authentication               | Digest authentication, Prevent brute-force attack                                                                                                 |
| 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 / Event Log management            |
| Secure Storage        | SDcard partition encrypt(AES-256), Secure element |
| 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                                     |

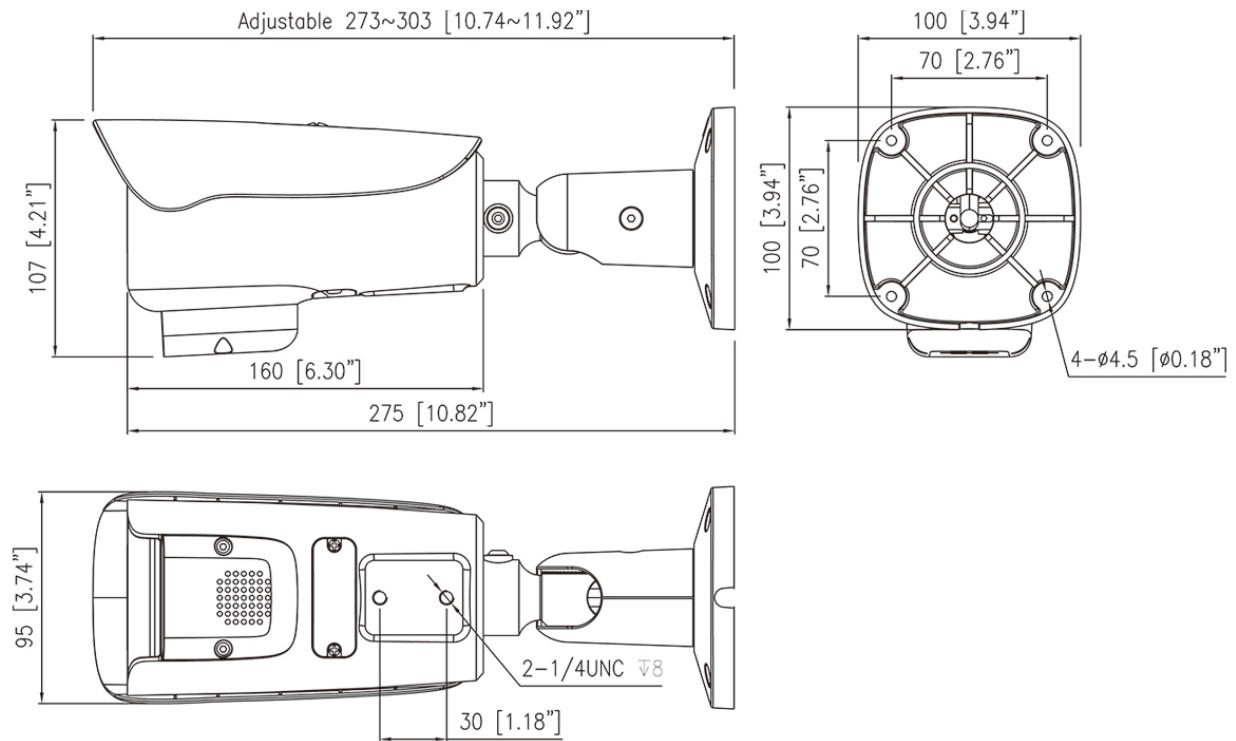
## General

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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     | Basic: Max 3.4 W (without light)<br>Max. (Focus + WDR + Speaker + IR on): 13.5 W                                                                   |
| Operating Temperature | -40°C to 55°C (-40°F to 131°F )                                                                                                                    |
| Operating Humidity    | Less than 95% RH                                                                                                                                   |
| 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 + plastic                                                                                                                           |
| Dimensions            | 303 × 100 × 107 mm (11.9 × 3.94 × 4.21 inch)                                                                                                       |
| Net Weight            | Approx. 1.25 kg (2.76 lb)                                                                                                                          |

## DORI Distance (EN62676-4 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)     |

## Dimensions (mm)



## Accessories

### Optional:



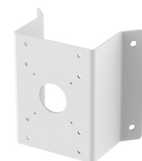
SN-CBK645G  
Junction Box



SN-CBK627D  
Pole Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount