

# SN-IPR8041AKAN-Z

4MP Starlight IR Varifocal Bullet Network Camera



## Key Features

- 1/1.8" progressive scan CMOS, up to 4MP (2560 × 1440) @25/30 fps
- 3.6 to 11 mm motorized focal lens
- Supports face, human, and vehicle detection with snapshot capture
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 60 m
- 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- IP67, IK10-rated housing

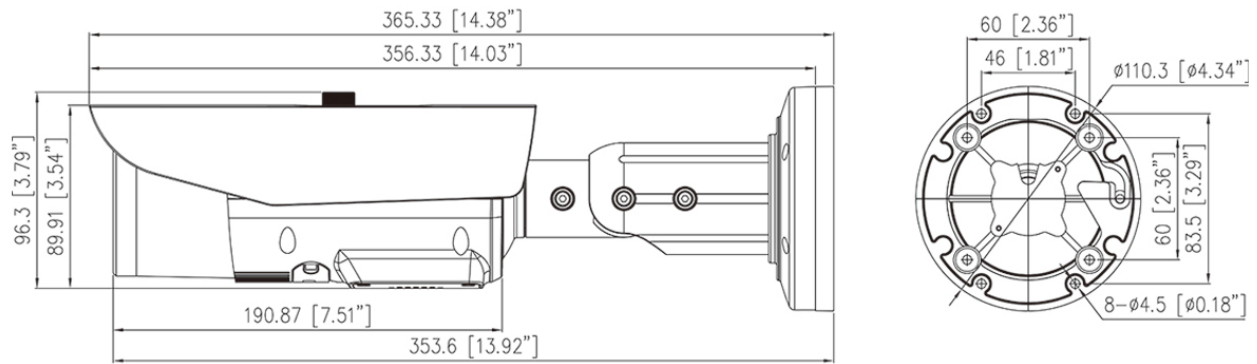
## Specifications

| Camera                    |                                                                                                                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                        |
| Max Resolution            | 4MP, 2560(H) × 1440(V)                                                                                                                                                                                                                              |
| Shutter Speed             | 1/5 to 1/20,000s                                                                                                                                                                                                                                    |
| Min Illumination          | Color: 0.0008 Lux @ (F1.3, AGC ON),<br>B/W: 0.0003 @ (F1.3, 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              | 3.6 to 11 mm                                                                                                                                                                                                                                        |
| Max. Aperture             | F1.3                                                                                                                                                                                                                                                |
| Field of View (FOV)       | H: 113.8° to 50.9°, V: 59.4° to 28.6°                                                                                                                                                                                                               |
| Iris                      | Fixed Iris                                                                                                                                                                                                                                          |
| Illuminator               |                                                                                                                                                                                                                                                     |
| Type                      | IR                                                                                                                                                                                                                                                  |
| IR wavelength             | 850 nm                                                                                                                                                                                                                                              |
| Distance                  | Up to 60 m (196.9 ft)                                                                                                                                                                                                                               |
| 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, area people limit, and perimeter detection.<br>- Supports alarm triggering based on specified target types (human/vehicle) |
| People Counting           | Supported                                                                                                                                                                                                                                           |
| Video & Audio             |                                                                                                                                                                                                                                                     |
| Number of Streams         | 3 Streams                                                                                                                                                                                                                                           |
| Resolution                | Stream1: 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 12 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 Zone, 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                 | HLC, BLC, Defog, WDR                                                                                                                              |
| 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, Alarm output, FTP upload, Email notification, Snapshot, Audible alarm output                                                        |
| <b>Network</b>                    |                                                                                                                                                   |
| 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                                                                                                            |
| <b>Security</b>                   |                                                                                                                                                   |
| 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                                                                                                                            |
| Audit                             | Access, system, and event log management                                                                                                          |
| Secure Storage                    | AES-256 encrypted SD card storage                                                                                                                 |

|                                            |                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply Chain Security                      | SBOM                                                                                                                                               |
| <b>Interface</b>                           |                                                                                                                                                    |
| Network Interface                          | 1 × Ethernet (10/100 Base-T), RJ-45 connector                                                                                                      |
| Audio Interface                            | 1ch Input, 1ch Output                                                                                                                              |
| Alarm Interface                            | 1ch Input, 1ch Output                                                                                                                              |
| SD Card Slot                               | Built-in, up to 256 GB                                                                                                                             |
| Reset Button                               | Supported                                                                                                                                          |
| <b>General</b>                             |                                                                                                                                                    |
| 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°C to 55°C (-40°F to 131°F )                                                                                                                    |
| Operating Humidity                         | < 95% RH, non-condensing                                                                                                                           |
| Ingress Protection                         | IP67 (housing), IK10                                                                                                                               |
| 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                                                                                                                                     |
| Dimensions                                 | φ110.3 × 356.33 mm (φ4.34 × 14.03 inch)                                                                                                            |
| Net Weight                                 | Approx. 1.45 kg (3.2 lb)                                                                                                                           |
| <b>DORI Distance (EN 62676-4 standard)</b> |                                                                                                                                                    |
| Detect                                     | 60 to 130 m (196.85 to 426.51 ft)                                                                                                                  |
| Observe                                    | 24 to 52 m (78.74 to 170.60 ft)                                                                                                                    |
| Recognize                                  | 12 to 26 m (39.37 to 85.30 ft)                                                                                                                     |
| Identify                                   | 6 to 13 m (19.69 to 42.65 ft)                                                                                                                      |

## Dimensions (mm)



## Accessories

### Optional:



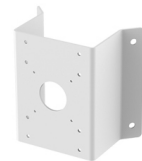
SN-CBK645G  
Junction Box



SN-CBK627D  
Pole Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount