

# SN-IPR7180KFAS-Z

8MP Smart Dual Illumination Varifocal Bullet Network Camera



## Key Features

- 1/2.7" progressive scan CMOS
- Max. 8MP(3840 × 2160) @25fps resolution
- 2.7 to 13.5mm motorized varifocal lens
- Supports face, human, and vehicle detection.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, and people counting.
- True WDR(120dB), 3D DNR, ROI, HLC, BLC, Defog
- Built-in IR and warm LEDs, IR distance up to 40m, warm light distance up to 30m
- Built-in mic and speaker, 1/1 audio in/out, 1/1 alarm in/out
- Built-in microSD card slot (up to 1TB)
- IP66 protection

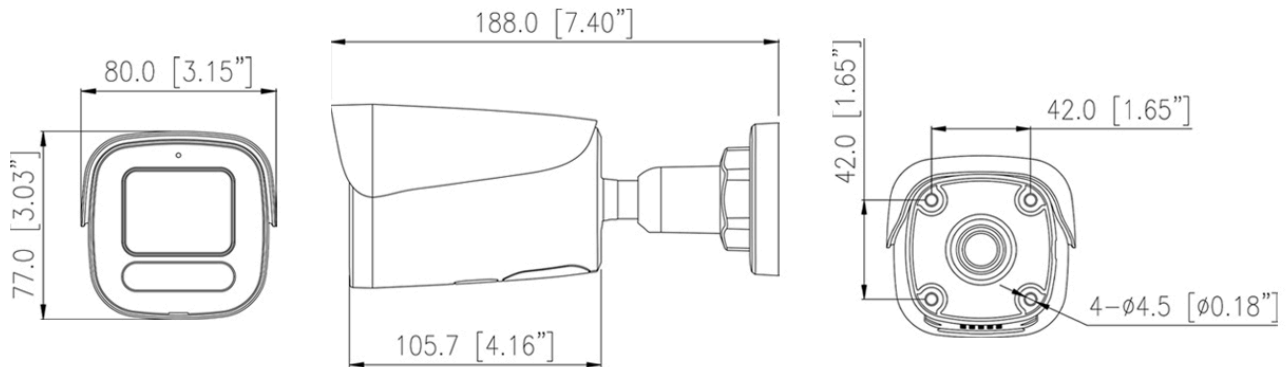
## Specifications

| Camera                |                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/2.7" 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 illuminator 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: 102.8° to 32.6°, V: 54.5° to 18.3°                                                                                                                                                            |
| Iris                  | Fixed Iris                                                                                                                                                                                       |
| Illuminator           |                                                                                                                                                                                                  |
| Type                  | IR, Warm light                                                                                                                                                                                   |
| IR wavelength         | 850 nm                                                                                                                                                                                           |
| Distance              | IR distance up to 40 m (131.2 ft)<br>Warm light distance up to 30 m (98.4 ft)                                                                                                                    |
| Control               | IR mode, White mode, Intelligent mode, None                                                                                                                                                      |
| Intelligent Analytics |                                                                                                                                                                                                  |
| AI Multi-Target       | Supports face, human, vehicle detection                                                                                                                                                          |
| Intelligent Analysis  | Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, and illegal parking.<br>- Supports accurate target classification (human/vehicle) |
| People Counting       | Supported                                                                                                                                                                                        |
| Video & Audio         |                                                                                                                                                                                                  |
| Number of Streams     | 3 Streams                                                                                                                                                                                        |
| Resolution            | Stream1: 3840×2160, 2880×1620, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720<br>Stream2: D1, VGA, CIF<br>Stream3: VGA, CIF, QVGA                                                          |
| Frame Rate            | Up to 25fps (Enable WDR is 20fps)                                                                                                                                                                |
| 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                 | 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, SMTP upload, Audible alarm output, White light 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                                                                                                                                               |
| <b>Interface</b>                          |                                                                                                                                                    |
| 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 microSD card slot, up to 1 TB                                                                                                             |
| 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                         | Typical: 2 W (IR off, 12 VDC) / approx. 2.5 W (PoE)<br>Max: 9.6 W (Light on + Speaker, 12 VDC) / approx. 12 W (PoE)                                |
| Operating Temperature                     | -30°C to 60°C (-22°F to 140°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                                                                                                                                     |
| Dimensions                                | 188 × 80 × 77 mm (7.4 × 3.15 × 3.03 inch)                                                                                                          |
| Net Weight                                | Approx. 0.58 kg (1.28 lb)                                                                                                                          |
| <b>DORI Distance (EN62676-4 standard)</b> |                                                                                                                                                    |
| Detect                                    | 96 to 272 m (282.2 to 892.4 ft)                                                                                                                    |
| Observe                                   | 38.4 to 108.8 m (126 to 357 ft)                                                                                                                    |
| Recognize                                 | 19.2 to 54.4 m (63 to 178.5 ft)                                                                                                                    |
| Identify                                  | 9.6 to 27.2 m (31.5 to 89.2 ft)                                                                                                                    |

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK656A  
Junction Box



SN-CBK627D  
Pole Mount