

# SN-IPV8146EFBR-B

4MP IR Fixed Dome Network Camera



## Key Features

- 1/3" progressive scan CMOS, up to 4MP (2560 × 1440) @ 25 fps
- Supports face, human, and vehicle detection.
- Intelligent analytics: Intrusion, smart motion detection, and line crossing
- DWDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR distance up to 30 m
- Built-in microphone and microSD card slot (up to 1 TB)
- IP67, IK10-rated housing

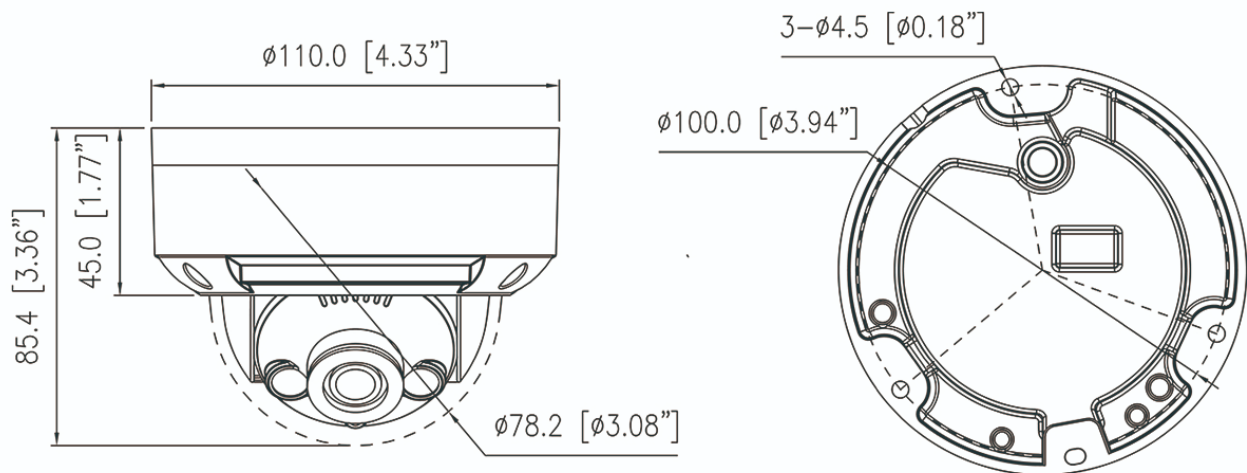
## Specifications

| Camera                    |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              | 1/3" Progressive Scan CMOS                                                                                                       |
| Max Resolution            | 4MP, 2560(H) × 1440(V)                                                                                                           |
| Shutter Speed             | 1/5 to 1/20,000s                                                                                                                 |
| Min Illumination          | Color: 0.05 Lux @ (F2.0, AGC ON),<br>B/W: 0.01 Lux @ (F2.0, AGC ON), 0 Lux with IR on                                            |
| Day & Night               | Auto (ICR)                                                                                                                       |
| Angle Adjustment          | Pan: 0° to 335°, Tilt: 0° to 75°, Rotation: 0° to 350°                                                                           |
| Lens                      |                                                                                                                                  |
| Lens Type                 | Fixed lens, fixed focal                                                                                                          |
| Focal Length              | 2.8 mm                                                                                                                           |
| Max. Aperture             | F2.0                                                                                                                             |
| Field of View (FOV)       | H: 93.6°, V: 52.3°                                                                                                               |
| Iris                      | Fixed Iris                                                                                                                       |
| Illuminator               |                                                                                                                                  |
| Type                      | IR                                                                                                                               |
| IR wavelength             | 850 nm                                                                                                                           |
| Distance                  | Up to 30 m (98.4 ft)                                                                                                             |
| Control                   | Auto / Manual                                                                                                                    |
| Intelligent Analytics     |                                                                                                                                  |
| AI Multi-Target Detection | Supports face, human, and vehicle detection                                                                                      |
| Intelligent Analysis      | Intrusion, smart motion detection, line crossing<br>- Supports alarm triggering based on specified target types (human/vehicle)  |
| Video & Audio             |                                                                                                                                  |
| Number of Streams         | 3 Streams                                                                                                                        |
| Resolution                | Stream 1: 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720<br>Stream 2: D1, VGA, 640×360, CIF, QVGA<br>Stream 3: VGA, CIF, QVGA |
| Frame Rate                | Up to 25 fps                                                                                                                     |
| Bit Rate Control          | CBR/VBR                                                                                                                          |
| Bit Rate                  | Stream 1: 100 Kbps to 6 Mbps<br>Stream 2: 100 Kbps to 6 Mbps<br>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 $\mu$ -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 mode, Night mode, Timer                                                                                                                 |
| Noise Reduction                   | 2D/3D DNR                                                                                                                                         |
| Image Enhancement                 | HLC, BLC, Defog, WDR                                                                                                                              |
| Wide Dynamic Range                | DWDR                                                                                                                                              |
| Privacy Masking                   | Up to 4 configurable zones                                                                                                                        |
| <b>Event</b>                      |                                                                                                                                                   |
| Alarm Triggers                    | IVS, Motion detection, Disk alarm, Network alarm, Day/Night switch alarm, Abnormal sound detection                                                |
| Event Actions                     | Alarm record, FTP upload, Email notification                                                                                                      |
| <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 user levels: Administrator, Operator, and Media User                                                                                 |
| Web Viewer                        | Chrome, Firefox, Microsoft Edge, IE11 or earlier                                                                                                  |
| <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 logs                                                                                                                    |
| Supply Chain Security             | SBOM                                                                                                                                              |
| <b>Interface</b>                  |                                                                                                                                                   |
| Network Interface                 | 1 $\times$ RJ45 10/100 Mbps Ethernet port                                                                                                         |
| Built-in Microphone               | Supported                                                                                                                                         |

|                                            |                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 1.8 W (IR off, 12 VDC) / approx. 2.3 W (PoE)<br>Max: 5.5 W (IR on, 12 VDC) / approx. 6.9 W (PoE)                                          |
| Operating Temperature                      | -30 °C to 60 °C (-22 °F to 140 °F )                                                                                                                |
| Operating Humidity                         | < 95% RH, non-condensing                                                                                                                           |
| Ingress Protection                         | IP67 (housing), IK10                                                                                                                               |
| Certifications                             | CE-EMC: EN 55032, EN IEC 61000-6-4, EN IEC 61000-6-2, EN 55035, EN 50130-4<br>FCC 47 CFR Part 15 Subpart B                                         |
| Material                                   | Aluminum alloy housing; PC dome cover                                                                                                              |
| Dimensions                                 | φ110 × 85.4 mm (φ4.33 × 3.36 inch)                                                                                                                 |
| Net Weight                                 | Approx. 420 g (0.93 lb)                                                                                                                            |
| <b>DORI Distance (EN 62676-4 standard)</b> |                                                                                                                                                    |
| Detect                                     | 64 m (210.0 ft)                                                                                                                                    |
| Observe                                    | 35.6 m (116.8 ft)                                                                                                                                  |
| Recognize                                  | 12.8 m (42.0 ft)                                                                                                                                   |
| Identify                                   | 6.4 m (21.0 ft)                                                                                                                                    |

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK656  
Junction Box



SN-BK382A  
Wall Mount



SN-CBK202  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount