

# SN-IPV7180HNBS-B

8MP Smart Dual Illumination Turret Network Camera



## Key Features

- 1/2.7" progressive scan CMOS, up to 8MP (3840 × 2160) @25 fps
- 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 light illumination up to 30 m
- Built-in microphone and speaker for two-way audio
- Built-in microSD card slot supporting up to 1 TB
- IP66-rated protection

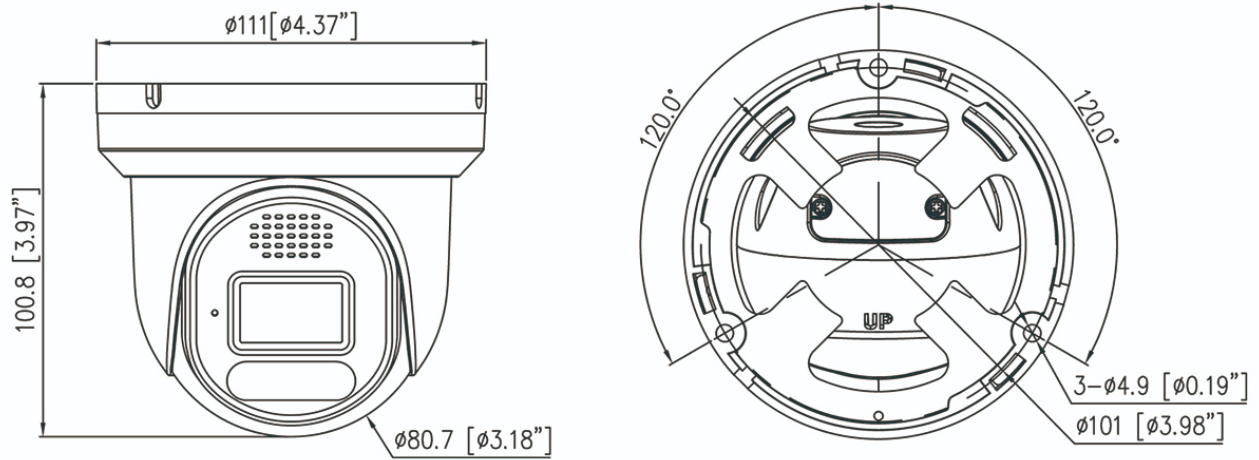
## Specifications

| 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 85°, Rotation: 0° to 360°                                                                                                                                                             |
| Lens                      |                                                                                                                                                                                                                    |
| Lens Type                 | Fixed lens, fixed focal                                                                                                                                                                                            |
| Focal Length              | 2.8 mm, 4 mm optional                                                                                                                                                                                              |
| Max. Aperture             | F1.6                                                                                                                                                                                                               |
| Field of View (FOV)       | 2.8 mm: H: 109.5°, V: 59.8°<br>4 mm: H: 91.5°, V: 46.3°                                                                                                                                                            |
| Iris                      | Fixed Iris                                                                                                                                                                                                         |
| Illuminator               |                                                                                                                                                                                                                    |
| Type                      | IR, Warm light                                                                                                                                                                                                     |
| IR wavelength             | 850 nm                                                                                                                                                                                                             |
| Distance                  | IR distance up to 30 m (98.4 ft)<br>Warm light distance up to 20 m (65.6 ft)                                                                                                                                       |
| Control                   | IR mode, White mode, Intelligent mode, None                                                                                                                                                                        |
| Intelligent Analytics     |                                                                                                                                                                                                                    |
| AI Multi-Target Detection | Supports face, human, and vehicle detection                                                                                                                                                                        |
| Intelligent Analysis      | Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, and illegal parking.<br>- Supports alarm triggering based on specified target types (human/vehicle) |
| People Counting           | Supported                                                                                                                                                                                                          |
| Video & Audio             |                                                                                                                                                                                                                    |
| Number of Streams         | 3 Streams                                                                                                                                                                                                          |
| Resolution                | Stream 1: 3840 × 2160, 2880 × 1620, 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720<br>Stream 2: D1, VGA, CIF<br>Stream 3: VGA, CIF, QVGA                                                           |
| Frame Rate                | Up to 25 fps (Enable WDR is 20 fps)                                                                                                                                                                                |
| Bit Rate Control          | CBR/VBR                                                                                                                                                                                                            |

|                                   |                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Bit Rate                          | Stream 1: 200 Kbps to 16 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                | True WDR (120 dB)                                                                                                                                 |
| Privacy Masking                   | Up to 4 configurable zones                                                                                                                        |
| <b>Event</b>                      |                                                                                                                                                   |
| Alarm Triggers                    | IVS, Motion detection, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection                                                |
| Event Actions                     | Alarm record, FTP upload, Email notification, 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 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                                                                                                                                              |

| Interface                           |                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Interface                   | 1 × RJ45 10/100 Mbps Ethernet port                                                                                                                 |
| Built-in Microphone                 | Supported                                                                                                                                          |
| Built-in Speaker                    | Supported                                                                                                                                          |
| SD Card Slot                        | Built-in microSD card slot (up to 1 TB)                                                                                                            |
| 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                   | 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                  | < 95% RH, non-condensing                                                                                                                           |
| Ingress Protection                  | IP66                                                                                                                                               |
| Certifications                      | CE-EMC: EN 55032, EN IEC 61000-6-4, 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 body, Decoration ring: ABS                                                                                                          |
| Dimensions                          | φ111 × 100.8 mm (φ4.37 × 3.97 inch)                                                                                                                |
| Net Weight                          | Approx. 435 g (0.96 lb)                                                                                                                            |
| DORI Distance (EN 62676-4 standard) |                                                                                                                                                    |
| Detect                              | 2.8 mm: 84.2 m (276.2 ft) / 4 mm: 113 m (370.7 ft)                                                                                                 |
| Observe                             | 2.8 mm: 33.7 m (110.6 ft) / 4 mm: 45.2 m (148.3 ft)                                                                                                |
| Recognize                           | 2.8 mm: 16.8 m (55.1 ft) / 4 mm: 22.6 m (74.1 ft)                                                                                                  |
| Identify                            | 2.8 mm: 8.4 m (27.6 ft) / 4 mm: 11.3 m (37.1 ft)                                                                                                   |

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK646M  
Junction Box



SN-BK382A  
Wall Mount



SN-CBK202A  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount