

# SN-IPV7180HNBC-B

8MP Smart Dual Light Active Deterrence Turret Network Camera



## Key Features

- 1/2.7" progressive scan CMOS
- Max. 8MP(3840×2160) @25fps resolution
- 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 red and blue warning light, support sound-light warning
- Built-in IR LED and warm lights, illumination distance up to 30 m
- Built-in mic and speaker
- Built-in microSD card slot (up to 1 TB)
- 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 355°, Tilt: 0° to 80°, Rotation: 0° to 360°                                                                                                                                                     |
| Lens                  |                                                                                                                                                                                                            |
| Lens Type             | Fixed Lens, Fixed focus                                                                                                                                                                                    |
| Focal Length          | 2.8 mm, 4 mm optional                                                                                                                                                                                      |
| Max. Aperture         | F1.6                                                                                                                                                                                                       |
| Field of View (FOV)   | 2.8 mm:<br>- H: 109.5°, V: 59.8°<br>4 mm:<br>- 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       | Supports face, human, and vehicle detection                                                                                                                                                                |
| Intelligent Analysis  | Intrusion detection, 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                 | WDR, HLC, BLC, Defog                                                                                                                              |
| Wide Dynamic Range                | True WDR (120dB)                                                                                                                                  |
| Privacy Masking                   | 4 areas                                                                                                                                           |
| <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, SMTP upload, Audible alarm output, White light alarm output, Red and blue light alarm                                   |
| <b>Network</b>                    |                                                                                                                                                   |
| Protocols                         | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTPC/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 user 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            | EEE 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                                     |
| SD Card Slot        | Built-in microSD card slot, up to 1 TB        |
| Reset Button        | Supported                                     |

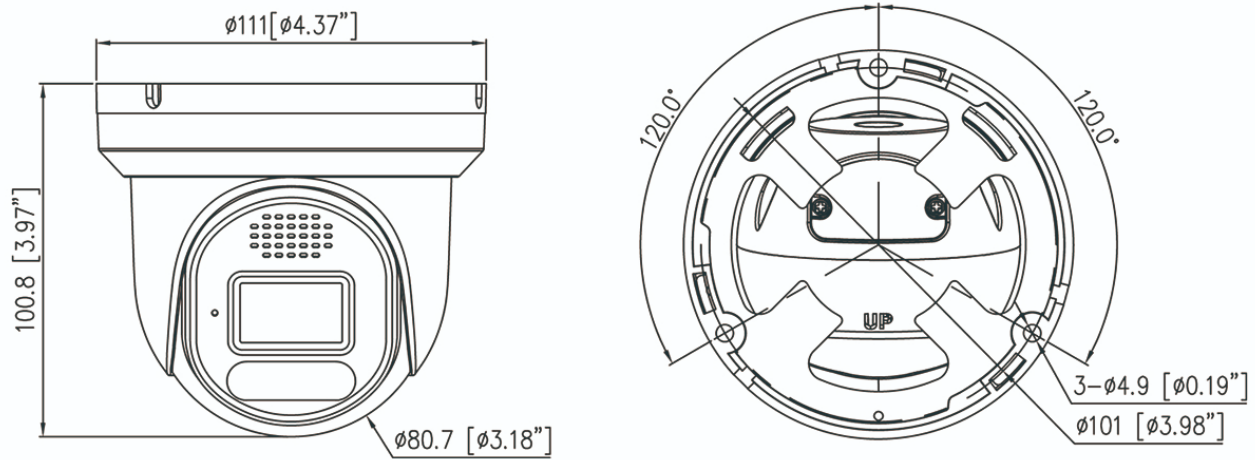
## General

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 2.2 W (12VDC); approx. 2.8 W (PoE)<br>Max (with IR or Warm Light + Speaker + Red/Blue Lights on): 10 W (12 VDC); approx. 12.5 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 body, Decoration ring: ABS                                                                                                          |
| Dimensions            | φ111 × 100.8 mm (φ4.37 × 3.97 inch)                                                                                                                |
| Net Weight            | Approx. 0.43 kg (0.95 lb)                                                                                                                          |

## DORI Distance (EN62676-4 standard)

|           |                                                      |
|-----------|------------------------------------------------------|
| Detect    | 2.8 mm: 84.2 m (276.2 ft)<br>4 mm: 113 m (370.7 ft)  |
| Observe   | 2.8 mm: 33.7 m (110.6 ft)<br>4 mm: 45.2 m (148.3 ft) |
| Recognize | 2.8 mm: 16.8 m (55.1 ft)<br>4 mm: 22.6 m (74.1 ft)   |
| Identify  | 2.8 mm: 8.4 m (27.6 ft)<br>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



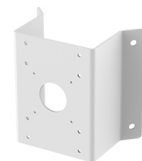
SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount