

# SN-IPV8056HCAW-B

5MP Full Color Turret Network Camera



## Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 5MP (2592×1944) @25/30fps resolution
- 2.8 mm / 4 mm fixed lens optional
- Supports face, human, and vehicle detection & capture.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Built-in warm lights, illumination distance up to 30 m
- Built-in microphone, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot (up to 1 TB)
- IP67-rated housing

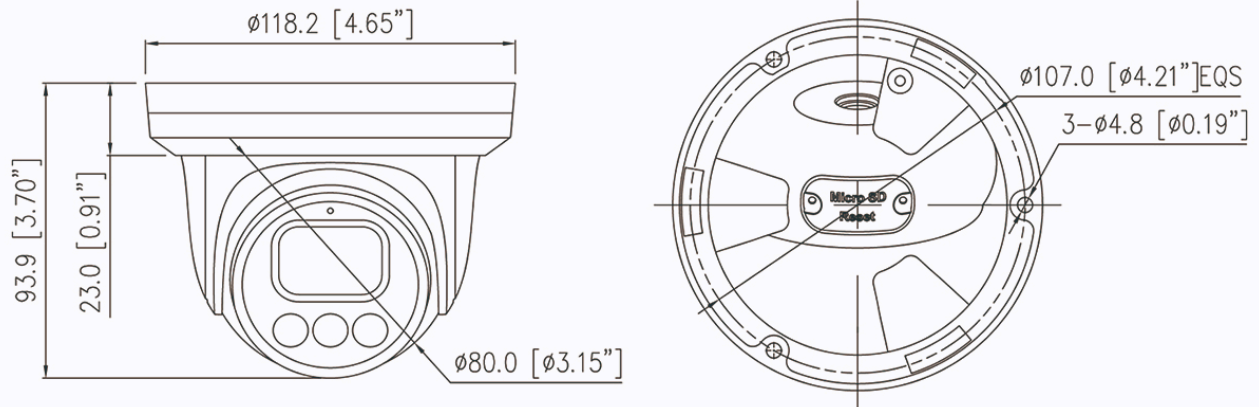
## Specifications

| Camera                |                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/2.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                 |
| Max Resolution        | 5MP, 2592(H) × 1944(V)                                                                                                                                                                                                                                                                       |
| Shutter Speed         | 1/5 to 1/20,000s                                                                                                                                                                                                                                                                             |
| Min Illumination      | Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with illuminator on                                                                                                                                                                                                                                 |
| Day & Night           | Fixed filter                                                                                                                                                                                                                                                                                 |
| Angle Adjustment      | Pan: 0° to 355°, Tilt: 0° to 80°, Rotation: 0 to 360°                                                                                                                                                                                                                                        |
| Lens                  |                                                                                                                                                                                                                                                                                              |
| Lens Type             | Fixed lens, Fixed focal                                                                                                                                                                                                                                                                      |
| Focal Length          | 2.8 mm, 4 mm optional                                                                                                                                                                                                                                                                        |
| Max. Aperture         | F1.0                                                                                                                                                                                                                                                                                         |
| Field of View (FOV)   | 2.8 mm:<br>- H: 96.9°, V: 69.7°<br>4 mm:<br>- H: 78.2°, V: 57.1°                                                                                                                                                                                                                             |
| Iris                  | Fixed Iris                                                                                                                                                                                                                                                                                   |
| Illuminator           |                                                                                                                                                                                                                                                                                              |
| Type                  | Warm light                                                                                                                                                                                                                                                                                   |
| Distance              | Up to 30 m (98.4 ft)                                                                                                                                                                                                                                                                         |
| Control               | Auto/Manual                                                                                                                                                                                                                                                                                  |
| Intelligent Analytics |                                                                                                                                                                                                                                                                                              |
| AI Multi-Target       | - Supports face, human, and vehicle detection & capture<br>- Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic                                                                                                                                                            |
| Intelligent Analysis  | Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, and fight detection.<br>- Supports accurate target classification (human/vehicle) |
| People Counting       | Supported                                                                                                                                                                                                                                                                                    |
| Video & Audio         |                                                                                                                                                                                                                                                                                              |
| Number of Streams     | 3 Streams                                                                                                                                                                                                                                                                                    |
| Resolution            | Stream1: 2592×1944, 2592×1520, 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, SMTP upload, Snapshot, Audible 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, Secure boot, 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                                                                                                                                          |
| 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 (-10% to +25%)/PoE (802.3af)                                                                                                                |
| Power Consumption                         | Typical: ≤ 2.2 W (12 VDC) / approx. 2.8 W (PoE)<br>Max (Light on): ≤ 4.1 W (12 VDC) / approx. 5.2 W (PoE)                                          |
| Operating Temperature                     | -40°C to 60°C (-40°F to 140°F)                                                                                                                     |
| Operating Humidity                        | Less than 95% RH                                                                                                                                   |
| Ingress Protection                        | IP67 (housing)                                                                                                                                     |
| Certifications                            | CE-EMC<br>- 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: plastic                                                                                                      |
| Dimensions                                | φ118.2 × 93.9 mm (4.65 × 3.7 inch)                                                                                                                 |
| Net Weight                                | Approx. 0.54 kg (1.18 lb)                                                                                                                          |
| <b>DORI Distance (EN62676-4 standard)</b> |                                                                                                                                                    |
| Detect                                    | 2.8 mm: 66 m (216.5 ft)<br>4 mm: 78 m (255.9 ft)                                                                                                   |
| Observe                                   | 2.8 mm: 26.4 m (86.6 ft)<br>4 mm: 31.2 m (102.4 ft)                                                                                                |
| Recognize                                 | 2.8 mm: 13.2 m (43.3 ft)<br>4 mm: 15.6 m (51.2 ft)                                                                                                 |
| Identify                                  | 2.8 mm: 6.6 m (21.7 ft)<br>4 mm: 7.8 m (25.6 ft)                                                                                                   |

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK646M  
Junction Box



SN-BK382A  
Wall Mount



SN-CBK203  
Pendant Cap



SN-CBK402  
Ceiling Mount



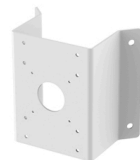
SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount