

# SN-IPV7120HDAR-VZ

2MP IR Motorized Varifocal Turret Network Camera



## Key Features

- 1/2.8" progressive scan CMOS
- Max. 2MP(1920×1080) @25/30fps resolution
- 2.7 to 13.5 mm 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 microphone, 1/1 audio in/out, 1/1 alarm in/out
- Built-in SD card slot, up to 1TB microSD card
- Smart IR distance up to 40m
- IP67-rated housing

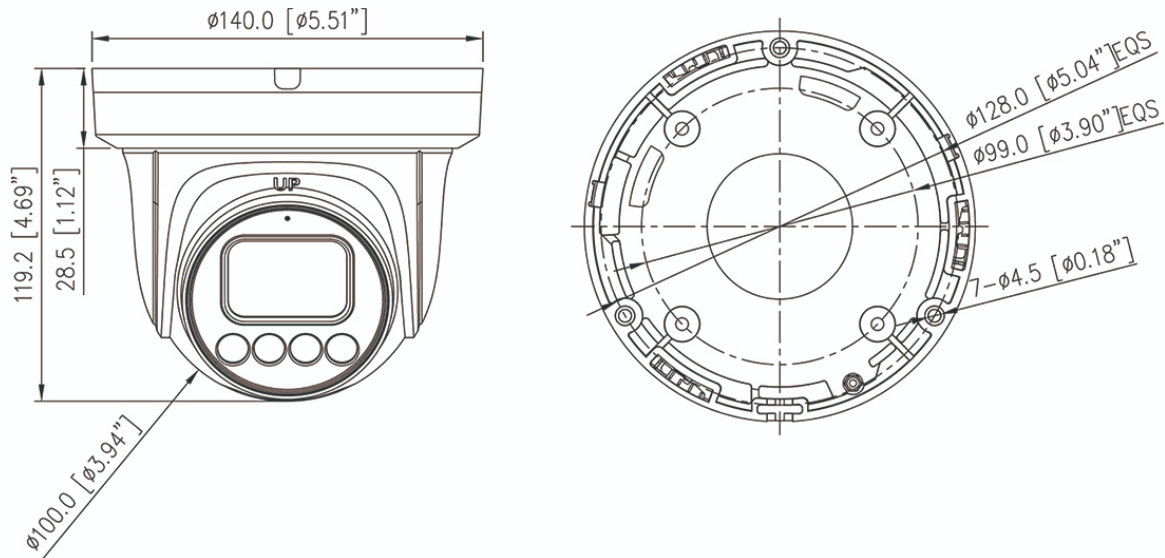
## Specifications

| Camera                |                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/2.8" Progressive Scan CMOS                                                                                                                                                                     |
| Max Resolution        | 2MP, 1920(H) × 1080(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 IR on                                                                                                           |
| Day & Night           | Auto (ICR)                                                                                                                                                                                       |
| Angle Adjustment      | Pan: 0° to 355°, Tilt: 0° to 80°, 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: 101° to 29.3°, V: 54.4° to 12.6°                                                                                                                                                              |
| Iris                  | Auto Iris                                                                                                                                                                                        |
| Illuminator           |                                                                                                                                                                                                  |
| Type                  | IR                                                                                                                                                                                               |
| IR wavelength         | 850 nm                                                                                                                                                                                           |
| Distance              | Up to 40 m (131.2 ft)                                                                                                                                                                            |
| Control               | Auto/Manual                                                                                                                                                                                      |
| 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: 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 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, FTP upload, SMTP upload, Alarm output, Audible alarm output                                                                         |
| <b>Network</b>                    |                                                                                                                                                   |
| Protocols                         | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/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 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                                                                                                                                          |
| 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: 2.5 W (IR off, 12 VDC) / approx. 3.2 W (PoE)<br>Max: 6.0 W (IR on, 12 VDC) / approx. 7.5 W (PoE)                                          |
| Operating Temperature                     | -30°C to 60°C (-22°F to 140°F)                                                                                                                     |
| Operating Humidity                        | Less than 95% RH                                                                                                                                   |
| Ingress Protection                        | IP67 (housing)                                                                                                                                     |
| 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: plastic                                                                                                      |
| Dimensions                                | φ140 × 119.2 mm (5.51 × 4.69 inch)                                                                                                                 |
| Net Weight                                | Approx. 900 g (1.98 lb)                                                                                                                            |
| <b>DORI Distance (EN62676-4 standard)</b> |                                                                                                                                                    |
| Detect                                    | 48 to 140 m (157.5 to 459.3 ft)                                                                                                                    |
| Observe                                   | 19.2 to 56 m (63 to 183.7 ft)                                                                                                                      |
| Recognize                                 | 9.6 to 28 m (31.5 to 91.9 ft)                                                                                                                      |
| Identify                                  | 4.8 to 14 m (15.7 to 45.9 ft)                                                                                                                      |

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK645G  
Junction Box



SN-CBK206  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount