



# SN-IPV7120EEAR-VZ

2MP IR Motorized Varifocal Dome 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
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Support face, human, vehicle detection
- Intelligent analytics: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking, smart motion detection and people counting
- Built-in microphone, 1/1 audio in/out, 1/1 alarm in/out
- Built-in SD card slot, up to 1TB Micro SD card
- Smart IR distance up to 40m
- IP66, IK10 protection



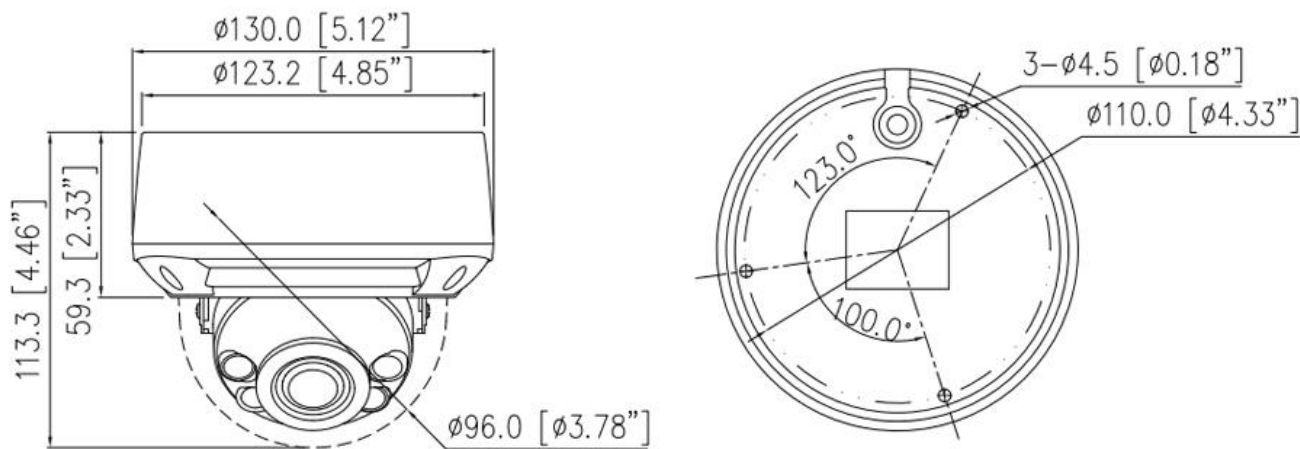
## Specification

| Camera                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                                                                                                                                                                                                                                               | 1/2.8" Progressive Scan CMOS                                                                                                                                                                      |
| Max. Resolution                                                                                                                                                                                                                                                            | 2MP, 1920(H) × 1080(V)                                                                                                                                                                            |
| Electronic Shutter                                                                                                                                                                                                                                                         | Auto/Manual, 1/5 to 1/20,000s                                                                                                                                                                     |
| Min. illumination                                                                                                                                                                                                                                                          | Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR                                                                                                                                              |
| Day & Night                                                                                                                                                                                                                                                                | IR cut filter                                                                                                                                                                                     |
| Wide Dynamic Range                                                                                                                                                                                                                                                         | True WDR                                                                                                                                                                                          |
| Angle Adjustment                                                                                                                                                                                                                                                           | Pan: 0° to 355°, Tilt: 0° to 75°, Rotation: 0° to 355°                                                                                                                                            |
| Lens                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
| Lens Type                                                                                                                                                                                                                                                                  | Motorized focal                                                                                                                                                                                   |
| Iris                                                                                                                                                                                                                                                                       | DC Iris                                                                                                                                                                                           |
| 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°                                                                                                                                                               |
| DORI Distance                                                                                                                                                                                                                                                              |                                                                                                                                                                                                   |
| 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)                                                                                                                                                                     |
| DORI (Detect, Observe, Recognize, and Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. |                                                                                                                                                                                                   |
| Illuminator                                                                                                                                                                                                                                                                |                                                                                                                                                                                                   |
| Illuminator Type                                                                                                                                                                                                                                                           | IR                                                                                                                                                                                                |
| Illumination Distance                                                                                                                                                                                                                                                      | Up to 40 m (131.2 ft)                                                                                                                                                                             |
| Illumination On/Off Control                                                                                                                                                                                                                                                | Auto/Manual                                                                                                                                                                                       |
| IR wavelength                                                                                                                                                                                                                                                              | 850 nm                                                                                                                                                                                            |
| Intelligent Analytics                                                                                                                                                                                                                                                      |                                                                                                                                                                                                   |
| Multi-Object Detection                                                                                                                                                                                                                                                     | Supports face, human, vehicle detection                                                                                                                                                           |
| Intelligent Analysis                                                                                                                                                                                                                                                       | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection<br>Support alarm triggering by specified target types (human and vehicle) |

|                        |                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| People Counting        | Support                                                                                                                                           |
| <b>Video and Audio</b> |                                                                                                                                                   |
| Streaming Capability   | 3 Streams                                                                                                                                         |
| Stream/Frame Rate      | Stream1: 1920×1080, 1280×720 @ 25/30fps<br>Stream2: D1, VGA, CIF @ 25/30fps<br>Stream3: VGA, CIF, QVGA @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                                                        |
| Region of Interest     | Off/On (8 areas, Rectangle)                                                                                                                       |
| Smart Encode           | Support                                                                                                                                           |
| Audio Compression      | G.711 A-law, G.711 μ-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                                                                                                                              |
| Privacy Masking        | 4 areas                                                                                                                                           |
| <b>Event</b>           |                                                                                                                                                   |
| Alarm Triggers         | IVS, Motion detection, Alarm input, Disk alarm, Network 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, SNMP, 802.1x, SNMP, Multicast |
| Interoperability       | ONVIF (Profile S/T/G/M), SDK, CGI                                                                                                                 |
| Max Concurrent Streams | 10 channels                                                                                                                                       |
| User/Host Level        | 32+ users, 3 levels: Administrator, Operator, Media user                                                                                          |
| Security               | IP address filter, HTTPS, Illegal login lock, IEEE 802.1x                                                                                         |
| Web Viewer             | <IE11, Chrome, Firefox, Microsoft Edge                                                                                                            |

| Interface             |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Interface     | 1 Ethernet (10/100 Base-T) RJ-45 Connector                                                                                                         |
| Built-in Microphone   | Support                                                                                                                                            |
| Audio Interface       | 1ch Input, 1ch Output                                                                                                                              |
| Alarm Interface       | 1ch Input, 1ch Output                                                                                                                              |
| SD Card Slot          | Built-in, up to 1TB                                                                                                                                |
| Reset Button          | Support                                                                                                                                            |
| 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: 2.5 W (IR off, 12 VDC) / approx. 3.2 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    | Less than 90% RH                                                                                                                                   |
| Ingress Protection    | IP66, IK10                                                                                                                                         |
| 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, bubble: plastic                                                                                                               |
| Dimensions            | φ130 × 113 mm (φ5.12 × 4.45 inch)                                                                                                                  |
| Net Weight            | 0.75 kg (1.65 lb)                                                                                                                                  |

Dimensions (mm)



Accessories

Optional:



SN-CBK657  
Junction Box



SN-CBK201  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK901  
Recessed Mount  
(Mic impact)



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount