

# 4MP Motorized VF Network IR Bullet Camera

IPW-2324L-28ZD



## Key Features

### Optics

- Day/night functionality
- Smart IR, up to 30 m IR distance
- IR anti-reflection window to increase the infrared transmittance
- 2D/3D DNR (Digital Noise Reduction)

### Compression

- Ultra 265, H.265, H.264, MJPEG
- Triple streams

### Smart function

- VCA Intrusion Detection Alarm
- Human Body Detection

### Network

- ONVIF Conformance

### Structure

- Wide temperature range: -30°C to 60°C
- Wide voltage range of  $\pm 25\%$
- IP67
- 3-Axis

## Specifications

| IPW-2322L-28ZD          |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
|-------------------------|--|-----------------|--------------|-----------------|--------------|-------------|-----|----|------|------|-----|----|-----|-----|----|----|
| <b>Camera</b>           |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Sensor                  | 1/3", progressive scan, 4.0megapixel, CMOS   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Lens                    | 2.8~12mm, AF automatic focusing and motorized zoom lens  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| DORI Distance           | <table border="1"> <thead> <tr> <th>Lens</th> <th>Detect(m)</th> <th>Observe(m)</th> <th>Recognize(m)</th> <th>Identify(m)</th> </tr> </thead> <tbody> <tr> <td>2.8</td> <td>63</td> <td>25.2</td> <td>12.6</td> <td>6.3</td> </tr> <tr> <td>12</td> <td>270</td> <td>108</td> <td>54</td> <td>27</td> </tr> </tbody> </table> | Lens            | Detect(m)    | Observe(m)      | Recognize(m) | Identify(m) | 2.8 | 63 | 25.2 | 12.6 | 6.3 | 12 | 270 | 108 | 54 | 27 |
|                         | Lens   | Detect(m)       | Observe(m)   | Recognize(m)    | Identify(m)  |             |     |    |      |      |     |    |     |     |    |    |
|                         | 2.8  | 63              | 25.2         | 12.6            | 6.3          |             |     |    |      |      |     |    |     |     |    |    |
| 12                      | 270  | 108             | 54           | 27              |              |             |     |    |      |      |     |    |     |     |    |    |
| Angle of View (H)       | 91.0° ~ 27°  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Angle of View (V)       | 54.4° ~ 13.7°  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Angle of View (O)       | 118.3° ~ 33.2°   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Adjustment angle        | <table border="1"> <thead> <tr> <th>Pan: 0°~360°</th> <th>Tilt: 0°~90°</th> <th>Rotate: 0°~360°</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>   | Pan: 0°~360°    | Tilt: 0°~90° | Rotate: 0°~360° |              |             |     |    |      |      |     |    |     |     |    |    |
| Pan: 0°~360°            | Tilt: 0°~90°   | Rotate: 0°~360° |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
|                         |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Shutter                 | Auto/Manual, shutter time: 1~1/100000 s  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Minimum Illumination    | Colour: 0.01Lux (F1.6, AGC ON), 0 Lux with IR on   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Day/Night               | IR-cut filter with auto switch (ICR)   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Digital noise reduction | 2D/3D DNR  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| S/N                     | >52 dB   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| IR Range                | Up to 35m IR range   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Wavelength              | 850nm  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| IR On/Off Control       | Auto/Manual  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Defog                   | Digital Defog  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| WDR                     | DWDR   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| <b>Video</b>            |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Video Compression       | Ultra 265,H.265, H.264, MJPEG  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| H.264 code profile      | Baseline profile, Main Profile   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Frame Rate              | Main Stream: 4MP (2592*1520), Max 20fps;<br>Sub Stream: 720P (1280*720), Max 20fps;<br>Third Stream: D1 (704*576), Max 20fps   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Video Bit Rate          | 128 Kbps~16 Mbps   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| OSD                     | Up to 4 OSDs   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Privacy Mask            | Up to 4 areas  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| ROI                     | Up to 2 areas  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Motion Detection        | Up to 4 areas  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| <b>Image</b>            |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| White Balance           | Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Digital noise reduction | 2D/3D DNR  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Smart IR                | Support  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Flip                    | Normal/Vertical/Horizontal/180°  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Dewarping               | Supported  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| HLC                     | Supported  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| BLC                     | Supported  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| <b>Smart</b>            |  |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |
| Behavior Detection      | Intrusion detection (1 area)<br>Human Body detection   |                 |              |                 |              |             |     |    |      |      |     |    |     |     |    |    |

|                        |  |
|------------------------|--|
| General Function       | Watermark, IP Address Filtering, Tampering, Access Policy, ARP Protection, RTSP Authentication, User Authentication            |
| <b>Storage</b>         |  |
| Edge Storage           | Micro SD, up to 256 GB   |
| Network Storage        | ANR  |
| <b>Network</b>         |  |
| Protocols              | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API   |
| Client                 | GuarStation<br>GuardView<br>GuardLive  |
| Web Browser            | Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below  |
|                        | Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  |
| <b>Interface</b>       |  |
| Network                | 1 RJ45 10M/100M Base-TX Ethernet   |
| <b>General</b>         |  |
| Power                  | 12 V DC±25%, PoE (IEEE802.3 af)  |
|                        | Power consumption: Max 7 W   |
| Dimensions (L × W × H) | 240.3 × 86.4 × 75.6mm  |
| Weight                 | 1kg  |
| Material               | Metal  |
| Working Environment    | -30°C ~ +60°C, Humidity: ≤95% RH (non-condensing)  |
| Surge Protection       | 6KV  |
| Ingress Protection     | IP67   |

## Dimensions

