

# 8MP WDR Ultra Starlight IR Network Bullet Camera

IPW-23280V-IQ2-5XSP



**Wise-ISP**



## Features

- High quality image with 8 MP, 1/1.8" CMOS sensor
- 3840 × 2160@30 fps in the main stream, delivers ultra high definition live video
- Motorized lens with P-iris, supports accurate control of exposure
- Ultra 265, H.265, H.264, MJPEG
- Smart intrusion prevention, supports false alarm filtering, including cross line, intrusion, enter area, leave area detection
- People counting, supports people flow counting and crowd density monitoring, suitable for different statistical scenarios
- Traffic monitoring, supports capturing license plate and collecting car information when the car passes tripwire
- Wise-ISP technology, comprehensive improvement in image quality
- Up to 130 dB optical WDR (wide dynamic range)
- Built-in heater, supports normal startup at temperatures as low as -40°C
- DC 12 V, PoE (IEEE 802.3af) power supply
- Alarm I/O: 1/1, audio I/O: 1/1
- IP67, IK10

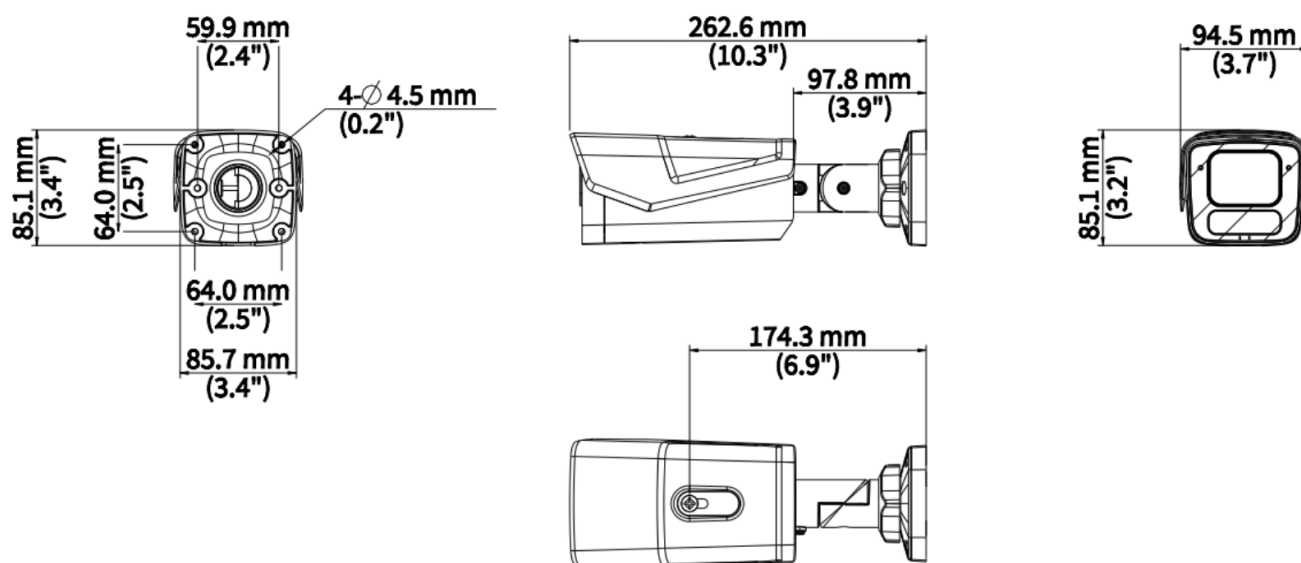
### Specifications

|                            |                                                                                                                                                     |            |             |               |              |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---------------|--------------|
| Model                      | IPW-23280V-IQ2-5XSP                                                                                                                                 |            |             |               |              |
| Camera                     |                                                                                                                                                     |            |             |               |              |
| Max Resolution             | 8 MP                                                                                                                                                |            |             |               |              |
| Sensor                     | 1/1.8" CMOS                                                                                                                                         |            |             |               |              |
| Min. Illumination          | Color: 0.001 Lux (F1.2, AGC ON), 0 Lux with IR                                                                                                      |            |             |               |              |
| Day/Night                  | IR-cut filter with auto switch (ICR)                                                                                                                |            |             |               |              |
| Shutter                    | Auto/Manual, 1 to 1/100000 s                                                                                                                        |            |             |               |              |
| WDR                        | 130 dB                                                                                                                                              |            |             |               |              |
| S/N                        | > 56 dB                                                                                                                                             |            |             |               |              |
| Lens                       |                                                                                                                                                     |            |             |               |              |
| Focal Length               | 2.7 to 13.5 mm                                                                                                                                      |            |             |               |              |
| Optical Zoom               | 5X                                                                                                                                                  |            |             |               |              |
| Iris                       | F1.2, P-iris                                                                                                                                        |            |             |               |              |
| Field of View (H)          | 107.4° to 49.1°                                                                                                                                     |            |             |               |              |
| Field of View (V)          | 56.4° to 27.9°                                                                                                                                      |            |             |               |              |
| Field of View (D)          | 128.8° to 60.4°                                                                                                                                     |            |             |               |              |
| DORI                       |                                                                                                                                                     |            |             |               |              |
| DORI Distance              | Lens (mm)                                                                                                                                           | Detect (m) | Observe (m) | Recognize (m) | Identify (m) |
|                            | 2.7                                                                                                                                                 | 98.6       | 39.4        | 19.7          | 9.9          |
|                            | 13.5                                                                                                                                                | 209.9      | 84          | 42            | 21           |
| Illuminator                |                                                                                                                                                     |            |             |               |              |
| Illumination Distance (IR) | 80 m                                                                                                                                                |            |             |               |              |
| Wavelength                 | 850 nm                                                                                                                                              |            |             |               |              |
| IR On/Off Control          | Auto/Manual                                                                                                                                         |            |             |               |              |
| Video                      |                                                                                                                                                     |            |             |               |              |
| Video Compression          | Ultra 265, H.265, H.264, MJPEG                                                                                                                      |            |             |               |              |
| Video Stream               | Triple streams                                                                                                                                      |            |             |               |              |
| Frame Rate                 | Main Stream: max. 8 MP (3840 × 2160), max. 30 fps<br>Sub Stream: max. 1080P (1920 × 1080), max. 25 fps<br>Third Stream: D1 (720 × 576), max. 25 fps |            |             |               |              |
| Video Bit Rate             | 128 kbps to 16 Mbps                                                                                                                                 |            |             |               |              |
| OSD                        | Up to 8 OSDs                                                                                                                                        |            |             |               |              |
| Privacy Mask               | Up to 8 areas (8 blacks/ 8 mosaics)                                                                                                                 |            |             |               |              |
| ROI                        | Up to 8 areas                                                                                                                                       |            |             |               |              |
| Image                      |                                                                                                                                                     |            |             |               |              |
| White Balance              | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2, Area white balance                                                                            |            |             |               |              |
| Digital Noise Reduction    | 2D/3D DNR                                                                                                                                           |            |             |               |              |
| Flip                       | Normal, Flip vertical, Flip horizontal, 180°, 90° Clockwise, 90° Anti-clockwise                                                                     |            |             |               |              |
| EIS                        | Support                                                                                                                                             |            |             |               |              |
| Defog                      | Digital defog                                                                                                                                       |            |             |               |              |
| Intelligent                |                                                                                                                                                     |            |             |               |              |
| People Counting            | Support people flow counting and crowd density monitoring                                                                                           |            |             |               |              |
| Exception Detection        | Object removed, Object Left Behind, Scene change, Defocus detection                                                                                 |            |             |               |              |

|                            |                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Traffic Monitoring         | Support capturing car license picture and collect other car information when the car passes tripwire, Up to 4 lanes can be set, Two types of application mode available: High/Low pole                              |
| Smart Intrusion Prevention | Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)                                |
| <b>Events</b>              |                                                                                                                                                                                                                     |
| Basic Detection            | Motion detection, IQ motion detection, Tampering alarm, Audio detection                                                                                                                                             |
| General Function           | Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output                                                            |
| <b>Audio</b>               |                                                                                                                                                                                                                     |
| Audio Compression          | G.711U, G.711A                                                                                                                                                                                                      |
| Audio Bitrate              | 128 kbps                                                                                                                                                                                                            |
| Two-way Audio              | Support                                                                                                                                                                                                             |
| Suppression                | Support                                                                                                                                                                                                             |
| Sampling Rate              | 8 kHz, 16 kHz                                                                                                                                                                                                       |
| <b>Storage</b>             |                                                                                                                                                                                                                     |
| Edge Storage               | MicroSD, up to 512 GB                                                                                                                                                                                               |
| Network Storage            | ANR, NAS (NFS)                                                                                                                                                                                                      |
| <b>Network</b>             |                                                                                                                                                                                                                     |
| Protocols                  | IGMP, SMTP, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, DNS, DDNS, NTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH, IPv4, RTP, RTCP, RTMP                                                                 |
| Compatible Integration     | ONVIF (Profile S, Profile G, Profile T, Profile M), API, SDK                                                                                                                                                        |
| User/Host                  | Up to 32 users. 3 user levels: administrator, common user and operator                                                                                                                                              |
| Security                   | TLS 1.3, Password Protection, Strong Password, HTTPS Encryption, Export Operation Logs, Basic and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2, WSSE and Digest Authentication for ONVIF |
| Client                     | Guard Live, Guard Live Pro, Guard Station                                                                                                                                                                           |
| Web Browser                | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+                                                                                                                                               |
| <b>Interface</b>           |                                                                                                                                                                                                                     |
| Audio I/O                  | 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V [p-p]                                                                                                                    |
| Alarm I/O                  | 1/1                                                                                                                                                                                                                 |
| Serial Port                | 1x RS485                                                                                                                                                                                                            |
| Built-in Mic               | Built-in dual-mic                                                                                                                                                                                                   |
| Network                    | 1 × RJ45 10 M/100 M Base-TX Ethernet                                                                                                                                                                                |
| <b>Certification</b>       |                                                                                                                                                                                                                     |
| EMC                        | CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130)<br>FCC-SDoC (47 CFR Part15, Subpart B)                                                                                                                  |
| Safety                     | CE-LVD (EN IEC 62368-1)<br>UL/CUL (UL 62368-1, CAN/CSA C22.2 No. 62368-1)                                                                                                                                           |
| Environment                | CE-RoHS (2011/65/EU;(EU)2015/863)<br>WEEE (2012/19/EU)                                                                                                                                                              |
| Protection                 | IP67 (IEC 60529)<br>IK10 (IEC 62262)                                                                                                                                                                                |
| <b>General</b>             |                                                                                                                                                                                                                     |
| Power                      | DC 12 V (±25%), PoE (IEEE 802.3af)                                                                                                                                                                                  |

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| Power Consumption   | 12W                                                   |
| Power Interface     | Ø5.5 mm coaxial power plug                            |
| Dimensions          | 262.6 × 94.5 × 85.1 mm (L × W × H)                    |
| Weight              | 1 kg                                                  |
| Working Environment | -40 °C to +60 °C, Humidity: ≤ 95% RH (non-condensing) |
| Storage Environment | -40 °C to +70 °C, Humidity: ≤ 95% RH (non-condensing) |
| Surge Protection    | 6 kV                                                  |
| Heater              | Support                                               |

## Size



## Accessories

### TR-JB07-D-IN-V2

Bullet Junction Box  
(Support wiring from behind)



### TR-JB06-A-IN

Middle Bullet Junction Box



### TR-A01-IN

NPT 3/4" Waterproof Cable Gland



### TR-UP06-C-IN

Pole Mounting Bracket  
for Bullet Junction Box Only



### TR-UC08-C

Corner Mounting Bracket

