

## 8MP WDR LightHunter IR Network Bullet Camera IPC2B28SA-ADZK-PI-I2A



## 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
- 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
- Face detection, automatic selection of best snapshots and face attribute collection
- People counting, supports people flow counting and crowd density detection, 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)
- DC 12 V, PoE (IEEE 802.3af) power supply
- Alarm I/O: 1/1, audio I/O: 1/1
- IP67, IK10

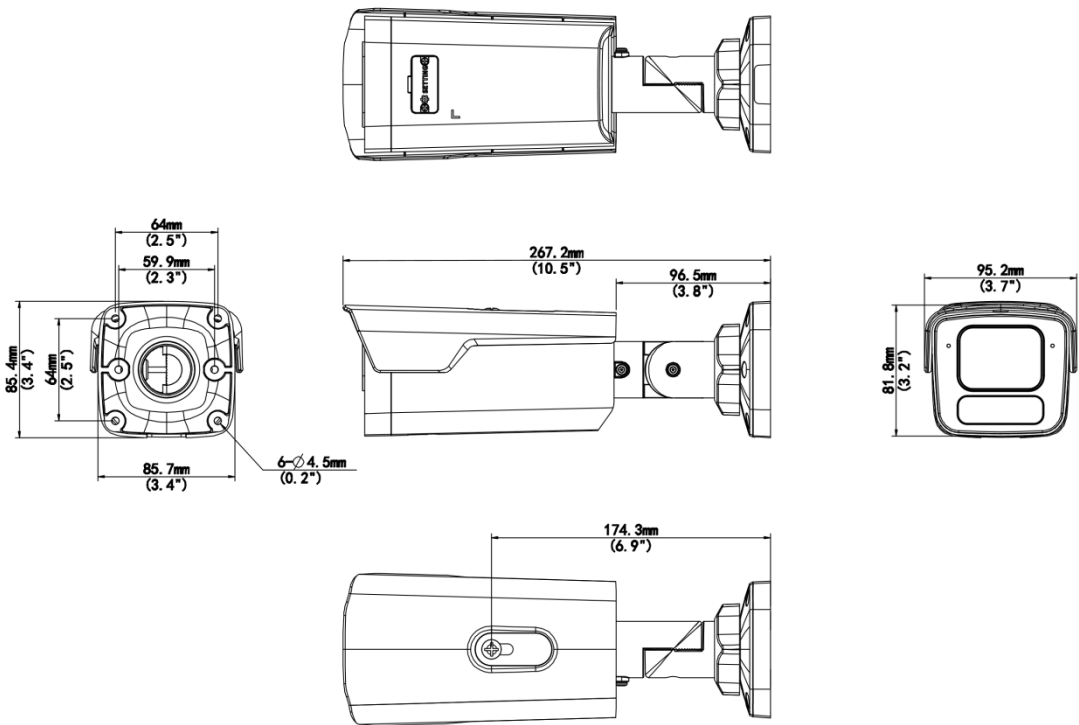
## Specifications

| Model                      | IPC2B28SA-ADZK-PI-I2A                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera</b>              |                                                                                                                                                                                      |
| 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                                                                                                                                                                              |
| <b>Lens</b>                |                                                                                                                                                                                      |
| Focal Length               | 2.7 to 13.5 mm                                                                                                                                                                       |
| Optical Zoom               | 5X                                                                                                                                                                                   |
| Iris                       | F1.2                                                                                                                                                                                 |
| Field of View (H)          | 104.7° to 49.1°                                                                                                                                                                      |
| Field of View (V)          | 56.4° to 27.9°                                                                                                                                                                       |
| Field of View (D)          | 128.8° to 60.4°                                                                                                                                                                      |
| Iris Type                  | P-iris                                                                                                                                                                               |
| <b>DORI</b>                |                                                                                                                                                                                      |
| DORI Distance (Lens)       | 2.7 to 13.5 mm                                                                                                                                                                       |
| DORI Distance (Detect)     | 98.6 m to 209.9 m (323.3 ft. to 688.7 ft.)                                                                                                                                           |
| DORI Distance (Observe)    | 39.4 m to 84.0 m (129.3 ft. to 275.5 ft.)                                                                                                                                            |
| DORI Distance (Recognize)  | 19.7 m to 42.0 m (64.7 ft. to 137.7 ft.)                                                                                                                                             |
| DORI Distance (Identify)   | 9.9 m to 21.0 m (32.3 ft. to 68.9 ft.)                                                                                                                                               |
| <b>Video</b>               |                                                                                                                                                                                      |
| Video Compression          | Ultra 265, H.265, H.264, MJPEG                                                                                                                                                       |
| Video Bit Rate             | 128 Kbps to 16 Mbps                                                                                                                                                                  |
| U-code                     | Support                                                                                                                                                                              |
| ROI                        | Up to 8 areas                                                                                                                                                                        |
| Video Stream               | Five streams                                                                                                                                                                         |
| Frame Rate-Fourth Stream   | D1 (720 × 576), max. 30 fps                                                                                                                                                          |
| Privacy Mask               | Up to 8 areas (8 blacks/ 8 mosaics)                                                                                                                                                  |
| Frame Rate-Fifth Stream    | D1 (720 × 576), max. 30 fps                                                                                                                                                          |
| OSD                        | Up to 8 OSDs                                                                                                                                                                         |
| Frame Rate-Main Stream     | 8 MP (3840 × 2160), max. 30 fps                                                                                                                                                      |
| Frame Rate-Sub Stream      | 1080P (1920 × 1080), max. 30 fps                                                                                                                                                     |
| Frame Rate-Third Stream    | D1 (720 × 576), max. 30 fps                                                                                                                                                          |
| <b>Intelligent</b>         |                                                                                                                                                                                      |
| Exception Detection        | Object removed, Object Left Behind, Scene change, Defocus detection                                                                                                                  |
| 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) |
| People Counting            | Support people flow counting and crowd density detection                                                                                                                             |

|                              |                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Road Traffic                 | 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                              |
| <b>Image</b>                 |                                                                                                                                                                                                                     |
| White Balance                | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2, Area white balance                                                                                                                                            |
| EIS                          | Support                                                                                                                                                                                                             |
| Digital Noise Reduction      | 2D/3D DNR                                                                                                                                                                                                           |
| Flip                         | Normal, Flip vertical, Flip horizontal, 180°, 90° Clockwise, 90° Anti-clockwise                                                                                                                                     |
| HLC                          | Support                                                                                                                                                                                                             |
| BLC                          | Support                                                                                                                                                                                                             |
| Defog                        | Digital defog                                                                                                                                                                                                       |
| <b>Events</b>                |                                                                                                                                                                                                                     |
| Basic Detection              | Motion detection, Ultra 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                                                            |
| UMD (Ultra Motion Detection) | Support                                                                                                                                                                                                             |
| <b>Audio</b>                 |                                                                                                                                                                                                                     |
| Audio Compression            | G.711U, G.711A, AAC-LC                                                                                                                                                                                              |
| 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, FTP                                                            |
| 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                       | UNV-Link, UNV-Link Pro, EZStation                                                                                                                                                                                   |
| Web Browser                  | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+                                                                                                                                               |
| <b>Illuminator</b>           |                                                                                                                                                                                                                     |
| Illumination Distance (IR)   | 80 m (262.5 ft.)                                                                                                                                                                                                    |
| IR On/Off Control            | Auto/Manual                                                                                                                                                                                                         |
| Wavelength                   | 850 nm                                                                                                                                                                                                              |
| Supplemental Light           | IR                                                                                                                                                                                                                  |
| <b>Interface</b>             |                                                                                                                                                                                                                     |
| Audio I/O                    | 1 Input: impedance 1 k $\Omega$ , amplitude 2.5 V [p-p], 1 Output: impedance 600 $\Omega$ , amplitude 2.5 V [p-p]                                                                                                   |
| Alarm I/O                    | 1/1                                                                                                                                                                                                                 |
| Serial Port                  | 1 $\times$ RS485                                                                                                                                                                                                    |

|                       |                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Built-in Mic          | Built-in dual-mic                                                                                                                                                                                                                                                                   |
| Network               | 1 × RJ45 10 M/100 M Base-TX Ethernet                                                                                                                                                                                                                                                |
| Certification         |                                                                                                                                                                                                                                                                                     |
| 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)                                                                                                                                                                                                                                                |
| General               |                                                                                                                                                                                                                                                                                     |
| Power                 | DC 12 V (±25%), PoE (IEEE 802.3af)                                                                                                                                                                                                                                                  |
| Power Consumption     | Max. 12.5 W                                                                                                                                                                                                                                                                         |
| Power Interface       | Ø5.5 mm coaxial power plug                                                                                                                                                                                                                                                          |
| Built-in DC12V Output | Support                                                                                                                                                                                                                                                                             |
| Dimensions            | 268 mm × 96 mm × 82 mm (10.5" × 3.7" × 3.2") (L × W × H)                                                                                                                                                                                                                            |
| Weight                | 1 kg (2.2 lb.)                                                                                                                                                                                                                                                                      |
| Working Environment   | -30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |
| Storage Environment   | -40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |
| Surge Protection      | 6 KV                                                                                                                                                                                                                                                                                |
| RTC                   | Support                                                                                                                                                                                                                                                                             |
| Material              | Metal + Plastic                                                                                                                                                                                                                                                                     |
| Web Client Language   | 22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese, Arabic, Slovak |
| Live View             |                                                                                                                                                                                                                                                                                     |
| Maximum Bitstream     | 35                                                                                                                                                                                                                                                                                  |
| Other                 |                                                                                                                                                                                                                                                                                     |
| Corridor Mode         | Support                                                                                                                                                                                                                                                                             |
| Configurable          |                                                                                                                                                                                                                                                                                     |
| P/N                   | Support                                                                                                                                                                                                                                                                             |

# Dimensions



# Accessories

| TR-JB07-D-IN                                       | TR-UP06-B-IN                 | TR-A01-IN                       |
|----------------------------------------------------|------------------------------|---------------------------------|
| Bullet Junction Box(Support wiring from behind)    | Bullet Pole Mounting Bracket | NPT 3/4" Waterproof Cable Gland |
|                                                    |                              |                                 |
| TR-UP06-C-IN-V2                                    |                              |                                 |
| Pole Mounting Bracket for Bullet Junction Box Only |                              |                                 |
|                                                    |                              |                                 |

# Unlimited New View

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