

# 4MP WDR LightHunter IR Network Bullet Camera IPC2B24SA-AHDZK-PI-I1



## Features

- High quality image with 4 MP, 1/2.8" CMOS sensor
- 2688 × 1520@60 fps in the main stream, delivers detailed live while 60 fps keeping it smooth and closer to the real image
- 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
- LightHunter technology ensures ultra-high image quality in low-light environment
- 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
- Intelligent function supported when frame rate is below 30 fps

## Specifications

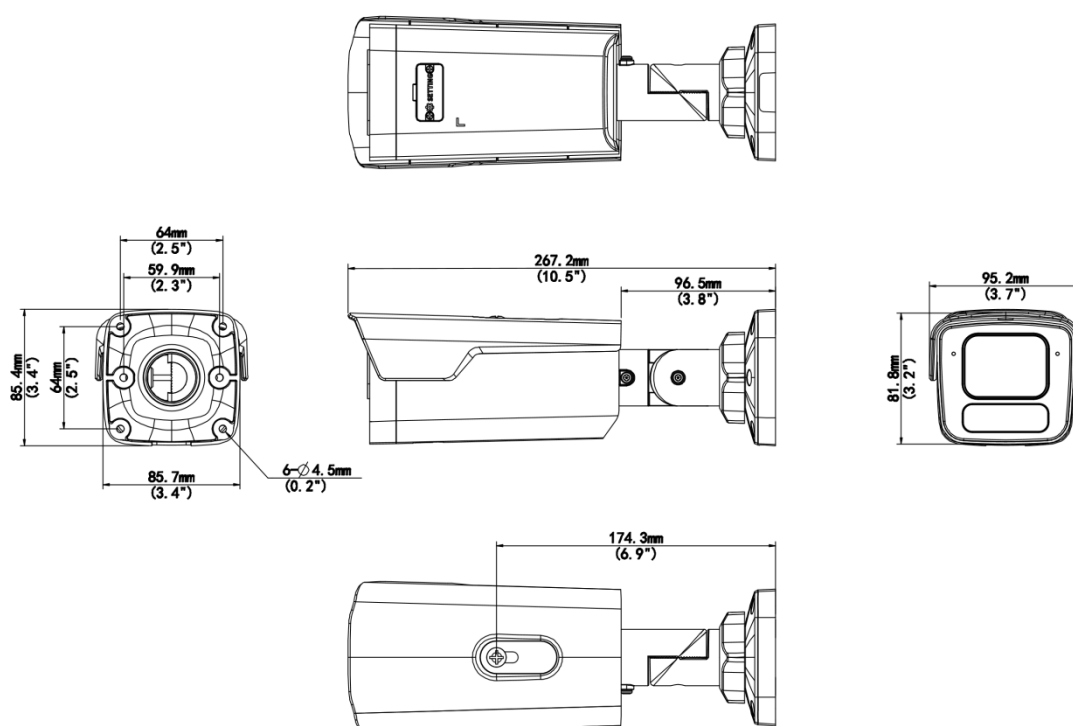
| Model             | IPC2B24SA-AHDZK-PI-I1                          |
|-------------------|------------------------------------------------|
| Camera            |                                                |
| Max Resolution    | 4 MP                                           |
| Sensor            | 1/2.8" CMOS                                    |
| Min. Illumination | Color: 0.003 Lux (F1.6, 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                                                                                                                                                                               |
| Adjustment Angle           | Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°                                                                                                                                 |
| S/N                        | >56 dB                                                                                                                                                                               |
| Lens                       |                                                                                                                                                                                      |
| Focal Length               | 2.7 to 13.5 mm                                                                                                                                                                       |
| Optical Zoom               | 5X                                                                                                                                                                                   |
| Iris                       | F1.6                                                                                                                                                                                 |
| Field of View (H)          | 98.7° to 31°                                                                                                                                                                         |
| Field of View (V)          | 52.6° to 18°                                                                                                                                                                         |
| Field of View (D)          | 116.5° to 35.8°                                                                                                                                                                      |
| Iris Type                  | P-iris                                                                                                                                                                               |
| DORI                       |                                                                                                                                                                                      |
| DORI Distance (Lens)       | 2.7 to 13.5 mm                                                                                                                                                                       |
| DORI Distance (Detect)     | 74.3 m to 229.5 m (243.6 ft. to 753.0 ft.)                                                                                                                                           |
| DORI Distance (Observe)    | 29.7 m to 91.8 m (97.4 ft. to 301.2 ft.)                                                                                                                                             |
| DORI Distance (Recognize)  | 14.9 m to 45.9 m (48.7 ft. to 150.6 ft.)                                                                                                                                             |
| DORI Distance (Identify)   | 7.4 m to 23.0 m (24.3 ft. to 75.5 ft.)                                                                                                                                               |
| Video                      |                                                                                                                                                                                      |
| 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               | Triple streams                                                                                                                                                                       |
| Privacy Mask               | Up to 8 areas (8 blacks / 8 mosaics)                                                                                                                                                 |
| OSD                        | Up to 10 OSDs                                                                                                                                                                        |
| Frame Rate-Main Stream     | 4 MP (2688 × 1520), max. 60 fps                                                                                                                                                      |
| Frame Rate-Sub Stream      | 1080P (1920 × 1080), max. 60 fps                                                                                                                                                     |
| Frame Rate-Third Stream    | D1 (720 × 576), max. 60 fps                                                                                                                                                          |
| Intelligent                |                                                                                                                                                                                      |
| 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 monitoring                                                                                                                            |
| Image                      |                                                                                                                                                                                      |
| White Balance              | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2                                                                                                                                 |
| Digital Noise Reduction    | 2D/3D DNR                                                                                                                                                                            |
| Flip                       | Flip vertical, Flip horizontal, Normal, 180°, 90° Clockwise, 90° Anti-clockwise                                                                                                      |
| HLC                        | Support                                                                                                                                                                              |
| BLC                        | Support                                                                                                                                                                              |
| Defog                      | Digital defog                                                                                                                                                                        |
| Events                     |                                                                                                                                                                                      |
| Basic Detection            | Motion detection, Audio detection, Tampering alarm, Ultra motion 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              | 16 kHz                                                                                                                                                                                                              |
| <b>Storage</b>             |                                                                                                                                                                                                                     |
| Edge Storage               | MicroSD, up to 512 GB                                                                                                                                                                                               |
| Network Storage            | ANR, NAS (NFS)                                                                                                                                                                                                      |
| <b>Network</b>             |                                                                                                                                                                                                                     |
| Protocols                  | SSH, IGMP, RTP, RTCP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS                                                            |
| 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                                                                                                                                                                                                         |
| <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                                                                                                                                                                                                   |
| Built-in Speaker           | N/A                                                                                                                                                                                                                 |
| Network                    | 1 $\times$ 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 (UL 62368-1)                                                                                                                                                                          |
| Environment                | CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU)                                                                                                                                                                |
| Protection                 | IP67 (IEC 60529)<br>IK10 (IEC 62262)                                                                                                                                                                                |
| <b>General</b>             |                                                                                                                                                                                                                     |
| Power                      | DC 12 V ( $\pm$ 25%), PoE (IEEE 802.3af)                                                                                                                                                                            |
| Power Consumption          | Max. 10 W                                                                                                                                                                                                           |
| Power Interface            | $\varnothing$ 5.5 mm coaxial power plug                                                                                                                                                                             |

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| Dimensions          | 268 mm × 96 mm × 86 mm (10.5" × 3.7" × 3.4") (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                                                                    |
| Reset Button        | Support                                                                 |
| Heater              | N/A                                                                     |
| Configurable        |                                                                         |
| P/N                 | Support                                                                 |

## Dimensions



## Accessories

### TR-JB07-D-IN

Bullet Junction Box(Support wiring from behind)



### TR-UP06-B-IN

Bullet Pole Mounting Bracket



### TR-A01-IN

NPT 3/4" Waterproof Cable Gland



TR-JB06-A-IN

Middle Bullet Junction Box(Elegant White)



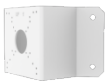
TR-UP06-C-IN-V2

Pole Mounting Bracket for Bullet Junction  
Box Only



TR-UC08-C-V2

Bullet&Dome Corner Mounting Bracket



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