

# 4K HD Intelligent ColorHunter Fixed Bullet Network Camera IPC2228SE-DF40(60)K-WL-IO



## Features

- High quality image with 8 MP, 1/1.8" CMOS sensor
- 8 MP (3840 × 2160)@30 (intelligent off)/25 fps; 5.3 MP (3072 × 1728)@30/25 fps; 3.6 MP (2560 × 1440)@30/25 fps; 1080P (1920 × 1080)@30/25 fps; 720P (1280 × 720)@30/25 fps
- Ultra 265, H.265, H.264, MJPEG
- Smart intrusion prevention, including cross line, intrusion, enter area, leave area detection
- Based on target classification, smart intrusion prevention significantly reduces false alarm caused by leaves, birds and lights, accurately focusing on human, motor vehicle and non-motor vehicle
- Intelligent people flow counting and crowd density monitoring
- ColorHunter technology ensures 24-hour full-color images
- 120 dB true WDR technology enables clear image in strong light scene
- Supports 9:16 corridor mode
- Alarm I/O: 1/1, audio I/O: 1/1
- MicroSD, up to 512 GB
- IK10 vandal resistant
- IP67 protection
- Supports PoE power supply

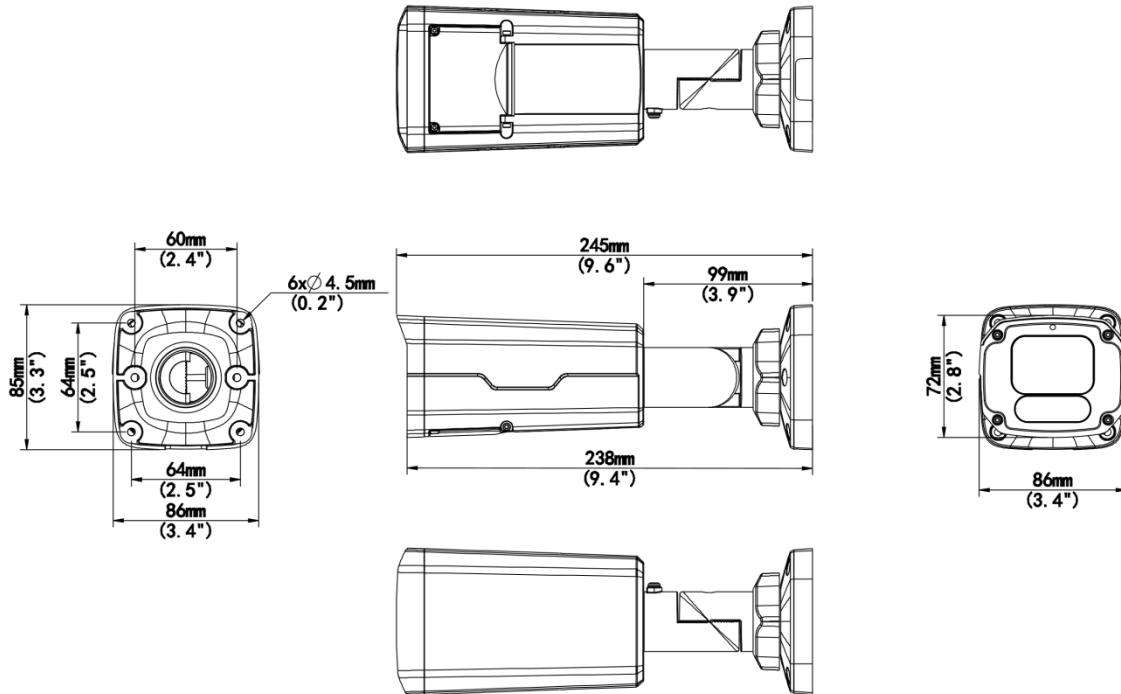
## Specifications

| Model                              | IPC2228SE-DF40K-WL-I0  | IPC2228SE-DF60K-WL-I0 |
|------------------------------------|--|-----------------------|
| <b>Camera</b>                      |  |                       |
| Max Resolution                     | 8 MP   |                       |
| Sensor                             | 1/1.8" CMOS  |                       |
| Min. Illumination                  | Color: 0.0005 Lux (F1.0, AGC ON)   |                       |
| Shutter                            | Auto/Manual, 1 to 1/100000 s   |                       |
| Adjustment Angle                   | Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°   |                       |
| S/N                                | >56 dB   |                       |
| WDR                                | 120 dB   |                       |
| <b>Lens</b>                        |  |                       |
| Focal Length                       | 4.0 mm   | 6.0 mm                |
| Iris Type                          | Fixed  |                       |
| Iris                               | F1.0   |                       |
| Field of View (H)                  | 94.3°  | 57.3°                 |
| Field of View (V)                  | 49.7°  | 30.2°                 |
| Field of View (D)                  | 115.9°   | 70.5°                 |
| Lens Type                          | Fixed  |                       |
| <b>DORI</b>                        |  |                       |
| DORI Distance (Lens)               | 4 mm   | 6 mm                  |
| DORI Distance (Detect)             | 90.0 m (295.3 ft.)   | 135.0 m (442.9 ft.)   |
| DORI Distance (Observe)            | 36.0 m (118.1 ft.)   | 54.0 m (177.2 ft.)    |
| DORI Distance (Recognize)          | 18.0 m (59.1 ft.)  | 27.0 m (88.6 ft.)     |
| DORI Distance (Identify)           | 9.0 m (29.5 ft.)   | 13.5 m (44.3 ft.)     |
| <b>Illuminator</b>                 |  |                       |
| Supplemental Light                 | Warm light   |                       |
| Illumination Distance (Warm Light) | 30 m (98.4 ft.)  |                       |
| Light On/Off Control               | Auto/Manual  |                       |
| <b>Video</b>                       |  |                       |
| Video Compression                  | Ultra 265, H.265, H.264, MJPEG   |                       |
| Frame Rate-Main Stream             | 8 MP (3840 × 2160), max. 30 fps; 5.3 MP (3072 × 1728), max. 30 fps; 3.6 MP (2560 × 1440), max. 30 fps; 1080P (1920 × 1080), max. 30 fps; 720P (1280 × 720), max. 30 fps;           |                       |
| Frame Rate-Sub Stream              | 1080P (1920 × 1080), max. 30 fps; 720P (1280 × 720), max. 30 fps; D1 (720 × 576), max. 30 fps; 640 × 360, max. 30 fps; 2CIF (704 × 288), max. 30 fps; CIF (352 × 288), max. 30 fps |                       |
| Frame Rate-Third Stream            | D1 (720 × 576), max. 30 fps; 640 × 360, max. 30 fps; 2CIF (704 × 288), max. 30 fps; CIF (352 × 288), max. 30 fps;  |                       |
| H.264 Code Profile                 | Baseline profile, Main profile, High profile   |                       |
| Video Bit Rate                     | 128 Kbps to 16 Mbps  |                       |
| U-code                             | Support  |                       |
| OSD                                | Up to 8 OSDs   |                       |
| Privacy Mask                       | Up to 4 areas  |                       |







|                            |  |
|----------------------------|--|
| ROI                        | Support  |
| Video Stream               | Triple streams   |
| <b>Image</b>               |  |
| Smart Illumination         | Support  |
| White Balance              | Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2   |
| Digital Noise Reduction    | 2D/3D DNR  |
| Flip                       | Normal, Flip Vertical, Flip Horizontal, 180°, 90°Clockwise, 90°Anti-clockwise  |
| Dewarping                  | N/A  |
| HLC                        | Support  |
| BLC                        | Support  |
| Defog                      | Digital defog  |
| <b>Intelligent</b>         |  |
| 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)                       |
| Statistical Analysis       | N/A  |
| People Counting            | Support people flow counting and crowd density detection   |
| <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   |
| <b>Audio</b>               |  |
| Audio Compression          | G.711U, G.711A, AAC-LC   |
| Audio Bitrate              | G.711U/G.711A: 64 kbps, AAC-LC: 128 kbps   |
| Two-way Audio              | Support  |
| Suppression                | Support  |
| Sampling Rate              | G.711U/G.711A: 8 kHz, AAC-LC: 8 kHz, 16 kHz, 48 kHz  |
| <b>Storage</b>             |  |
| Edge Storage               | MicroSD, up to 512 GB  |
| Network Storage            | ANR, NAS (NFS)   |
| <b>Network</b>             |  |
| Protocols                  | IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, SSL/TLS, SSH   |
| Compatible Integration     | ONVIF (Profile S, Profile G, Profile T, Profile M), API, SDK   |
| User/Host                  | Up to 32 users, 2 user levels: administrator and common user   |
| Security                   | 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                     | EZStation, APP   |
| Web Browser                | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+, Plug-in free live view: Chrome 57+, Firefox 58+, Edge 16+   |
| <b>Interface</b>           |  |
| Audio I/O                  | 1 Input: impedance 35 kΩ, amplitude 2 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]  |
| Alarm I/O                  | 1/1  |

|                      |   |
|----------------------|---|
| Serial Port          | N/A   |
| Built-in Mic         | Support   |
| Built-in Speaker     | N/A   |
| WIFI                 | N/A   |
| Network              | 1 × RJ45 10 M/100 M Base-TX Ethernet  |
| Video Output         | N/A   |
| <b>Certification</b> |   |
| EMC                  | CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020)<br>FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)   |
| Safety               | CE LVD (EN 62368-1:2014+A11:2017)<br>CB (IEC 62368-1:2014)<br>UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)  |
| Environment          | CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)  |
| Protection           | IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)<br>IK10 (IEC 62262:2002)  |
| <b>General</b>       |   |
| Power                | DC 12 V±25%, PoE (IEEE 802.3af)   |
| Power Consumption    | Max. 11.0 W   |
| Power Interface      | Ø5.5 mm coaxial power plug  |
| Dimensions           | 245 mm × 86 mm × 85 mm (9.6" × 3.4" × 3.3" ) (L × W × H)  |
| Weight               | 0.86 kg (1.90 lb.)  |
| Material             | Metal   |
| Working Environment  | -30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)   |
| Storage Environment  | -30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)   |
| Surge Protection     | 4 KV  |
| Reset Button         | Support   |
| Web Client Language  | 20 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 |

## Dimensions



## Accessories

|   |  |   |
|---|--|---|
| <p><b>TR-JB07-D-IN-V2</b><br/>Bullet Junction Box(Support wiring from behind)</p>   | <p><b>TR-JB06-A-IN</b><br/>Middle Bullet Junction Box(Elegant White)</p>             | <p><b>TR-UP06-B-IN</b><br/>Bullet Pole Mounting Bracket</p>                           |
|  |   |  |
| <p><b>TR-A01-IN</b><br/>NPT 3/4" Waterproof Cable Gland</p>                         | <p><b>TR-UP06-C-IN-V2</b><br/>Pole Mounting Bracket for Bullet Junction Box Only</p> | <p><b>TR-UC08-C-V2</b><br/>Bullet&amp;Dome Corner Mounting Bracket</p>                |
|  |   |  |

# Unlimited New View

## Zhejiang Uniview Technologies Co., Ltd.



<http://www.uniview.com>



[overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)



No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China



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