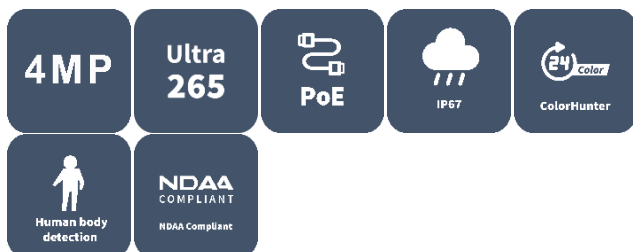


## 4MP HD ColorHunter Mini Fixed Bullet Network Camera EC-B4F28DL



## Features

- High quality image with 4 MP, 1/3.0" CMOS sensor
- 4 MP (2560 × 1440)@25/20 fps; 3 MP (2304 × 1296)@30/25 fps; 1080P (1920 × 1080)@30/25 fps
- Ultra 265, H.265, H.264, MJPEG
- Supports 9:16 corridor mode
- Built-in mic
- Smart IR, up to 30 m (98.4 ft.) IR distance
- Warm light, up to 30 m (98.4 ft.) warm light distance
- 2D/3D DNR (digital noise reduction)
- MicroSD, up to 512 GB
- IP67 protection
- Supports PoE power supply
- 3-axis

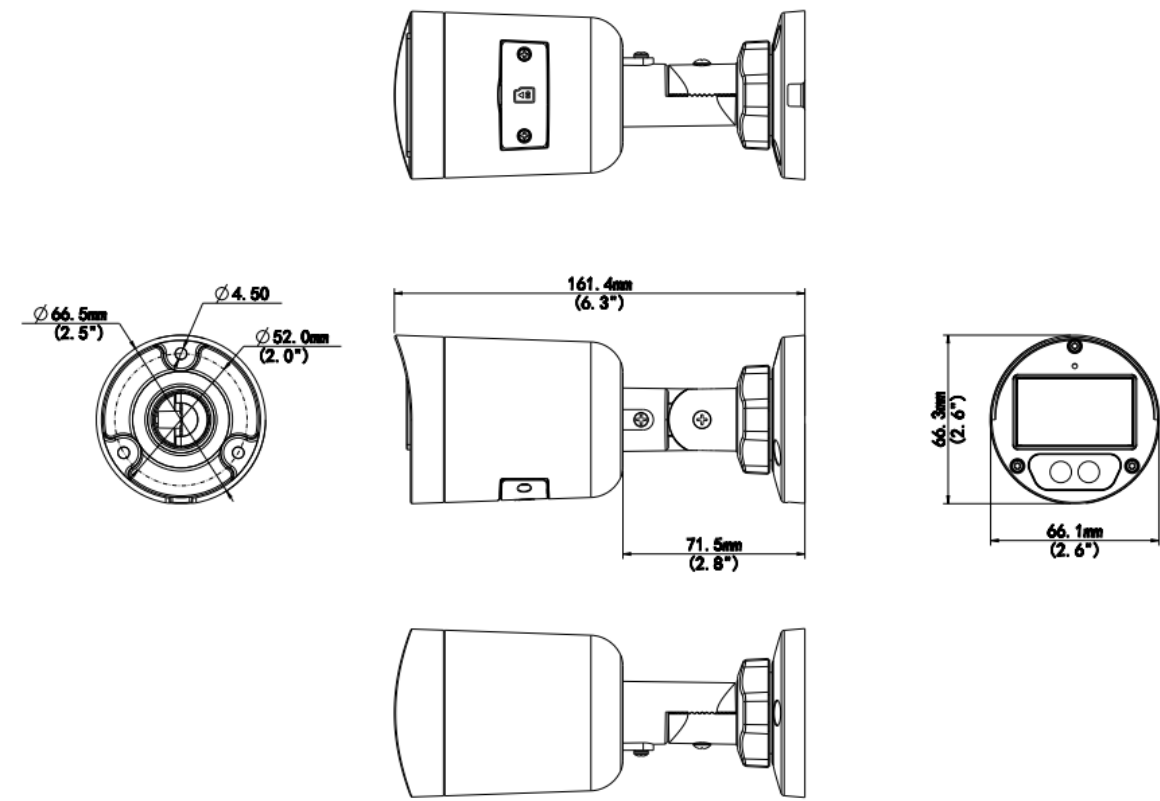
## Specifications

| Model                              | EC-B4F28DL                                                                                                                                                                                                                                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera</b>                      |                                                                                                                                                                                                                                                                                                          |
| Max Resolution                     | 4 MP                                                                                                                                                                                                                                                                                                     |
| Sensor                             | 1/3.0" CMOS                                                                                                                                                                                                                                                                                              |
| Min. Illumination                  | Color: 0.01 Lux ( F1.6, AGC ON), 0 Lux with IR                                                                                                                                                                                                                                                           |
| Day/Night                          | IR-cut filter with auto switch (ICR)                                                                                                                                                                                                                                                                     |
| Shutter                            | Auto/Manual, 1 ~ 1/100000s                                                                                                                                                                                                                                                                               |
| Adjustment Angle                   | Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°                                                                                                                                                                                                                                                     |
| S/N                                | >52 dB                                                                                                                                                                                                                                                                                                   |
| WDR                                | DWDR                                                                                                                                                                                                                                                                                                     |
| <b>Lens</b>                        |                                                                                                                                                                                                                                                                                                          |
| Focal Length                       | 2.8 mm                                                                                                                                                                                                                                                                                                   |
| Iris Type                          | Fixed                                                                                                                                                                                                                                                                                                    |
| Iris                               | F1.6                                                                                                                                                                                                                                                                                                     |
| Field of View (H)                  | 97.0°                                                                                                                                                                                                                                                                                                    |
| Field of View (V)                  | 52.2°                                                                                                                                                                                                                                                                                                    |
| Field of View (D)                  | 107.5°                                                                                                                                                                                                                                                                                                   |
| <b>DORI</b>                        |                                                                                                                                                                                                                                                                                                          |
| DORI Distance (Lens)               | 2.8 mm                                                                                                                                                                                                                                                                                                   |
| DORI Distance (Detect)             | 63.0 m (206.7 ft.)                                                                                                                                                                                                                                                                                       |
| DORI Distance (Observe)            | 25.2 m (82.7 ft.)                                                                                                                                                                                                                                                                                        |
| DORI Distance (Recognize)          | 12.6 m (41.3 ft.)                                                                                                                                                                                                                                                                                        |
| DORI Distance (Identify)           | 6.3 m (20.7 ft.)                                                                                                                                                                                                                                                                                         |
| <b>Illuminator</b>                 |                                                                                                                                                                                                                                                                                                          |
| Illumination Distance (IR)         | 30 m (98.4 ft.)                                                                                                                                                                                                                                                                                          |
| Illumination Distance (Warm Light) | 30 m (98.4 ft.)                                                                                                                                                                                                                                                                                          |
| Wavelength                         | 850 nm                                                                                                                                                                                                                                                                                                   |
| IR On/Off Control                  | Auto/Manual                                                                                                                                                                                                                                                                                              |
| <b>Video</b>                       |                                                                                                                                                                                                                                                                                                          |
| Video Compression                  | Ultra 265, H.265, H.264, MJPEG                                                                                                                                                                                                                                                                           |
| H.264 Code Profile                 | Baseline profile, Main profile, High profile                                                                                                                                                                                                                                                             |
| Frame Rate                         | Main Stream: 4 MP@20 fps (default), 4 MP (2560 × 1440), max. 25 fps; 3 MP (2304 × 1296), max. 30 fps; 1080P (1920 × 1080), max. 30 fps; 720P (1280 × 720), max. 30 fps;<br>Sub Stream: D1 (720 × 576), max. 30 fps; 640 × 360, max. 30 fps; 2CIF (704 × 288), max. 30 fps; CIF (352 × 288), max. 30 fps; |
| Video Bit Rate                     | 128 Kbps to 6144 Kbps                                                                                                                                                                                                                                                                                    |
| U-code                             | Support                                                                                                                                                                                                                                                                                                  |
| OSD                                | Up to 4 OSDs                                                                                                                                                                                                                                                                                             |
| Privacy Mask                       | Up to 4 areas                                                                                                                                                                                                                                                                                            |
| ROI                                | Up to 8 areas                                                                                                                                                                                                                                                                                            |

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Stream            | Dual streams                                                                                                                                                                                               |
| Image                   |                                                                                                                                                                                                            |
| White Balance           | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2                                                                                                                                                       |
| Digital Noise Reduction | 2D/3D DNR                                                                                                                                                                                                  |
| Smart IR                | Support                                                                                                                                                                                                    |
| Flip                    | Normal, Flip vertical, Flip horizontal, 180°, 90° Clockwise, 90° Anti-clockwise                                                                                                                            |
| Dewarping               | N/A                                                                                                                                                                                                        |
| HLC                     | Support                                                                                                                                                                                                    |
| BLC                     | Support                                                                                                                                                                                                    |
| Defog                   | Digital defog                                                                                                                                                                                              |
| Events                  |                                                                                                                                                                                                            |
| Basic Detection         | Motion detection, Tampering alarm, Audio detection, Human body detection                                                                                                                                   |
| General Function        | Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication                                                                              |
| Audio                   |                                                                                                                                                                                                            |
| Audio Compression       | G.711U, G.711A                                                                                                                                                                                             |
| Audio Bitrate           | 64 Kbps                                                                                                                                                                                                    |
| Two-way Audio           | N/A                                                                                                                                                                                                        |
| Suppression             | Support                                                                                                                                                                                                    |
| Sampling Rate           | 8 kHz                                                                                                                                                                                                      |
| Storage                 |                                                                                                                                                                                                            |
| Edge Storage            | MicroSD, up to 512 GB                                                                                                                                                                                      |
| Network Storage         | ANR, NAS (NFS)                                                                                                                                                                                             |
| Network                 |                                                                                                                                                                                                            |
| Protocols               | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, QoS, SSL/TLS, SNMP                                                                             |
| Compatible Integration  | ONVIF (Profile S, Profile G, Profile T), 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                  | UNV-Link, UNV-Link Pro, EZStation                                                                                                                                                                          |
| 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+                                                                           |
| Interface               |                                                                                                                                                                                                            |
| Audio I/O               | N/A                                                                                                                                                                                                        |
| Alarm I/O               | N/A                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                        |

| Certification       |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| EMC                 | CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130)<br>FCC (FCC 47 CFR part15 B)  |
| Safety              | CE LVD (EN 62368-1)<br>CB (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); WEEE (2012/19/EU);                                     |
| Protection          | IP67 (IEC 60529)                                                                          |
| General             |                                                                                           |
| Power               | DC 12 V±25%, PoE (IEEE 802.3af)<br>Power consumption: Max. 2.8 W                          |
| Power Interface     | Ø5.5 mm coaxial power plug                                                                |
| Dimensions          | 161.4 mm × 66.1 mm × 66.3 mm (6.3" × 2.6" × 2.6") (L × W × H)                             |
| Weight              | 0.24 kg (0.53 lb.)                                                                        |
| Material            | Metal + Plastic                                                                           |
| 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        | N/A                                                                                       |
| Web Client Language | 4 Languages: English, Russian, Spanish, Vietnamese                                        |

## Dimensions



# Accessories

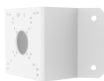
**TR-JB05-B-IN**

Small Bullet Junction Box(Elegant White)



**TR-UC08-C-V2**

Bullet&Dome Corner Mounting Bracket



**TR-A01-IN**

NPT 3/4" Waterproof Cable Gland



**TR-UP06-C-IN-V2**

Pole Mounting Bracket for Bullet Junction  
Box Only

