

# 12MP Ultra HD Infrared Vandal-resistant Fisheye Fixed Dome Camera

IPC86CEB-AF18KC-I0



## Key Features



- High quality image with 12MP, 1/1.7" CMOS sensor
- Max 4000\*3000 resolution
- Ultra265, H.265, H.264, MJPEG
- Ultra wide angle lens, 360° panoramic image
- Embedded infrared light, 360° fill-in light, up to 15m (49ft) IR distance
- Multiple decoding modes, supports software and hardware modes, provides interactive dynamic view
- Heatmap: Working with management platform, the data of moving objects is counted in real time on an intuitive color map
- Built-in microphone & speaker, two-way talk supported
- Supports 256 G Micro SD card
- IK10 vandal resistant
- IP67 protection

## Specifications

|                      |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---------------|--------------|
|                      | IPC86CEB-AF18KC-IO                                                                                                                                                                                                                                                                                                                                                                                      |            |             |               |              |
| Camera               |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| Sensor               | 1/1.7", 12.0 megapixel, progressive scan, CMOS                                                                                                                                                                                                                                                                                                                                                          |            |             |               |              |
| Minimum Illumination | Colour: 0.03Lux (F2.0, AGC ON)<br>0Lux with IR                                                                                                                                                                                                                                                                                                                                                          |            |             |               |              |
| Day / Night          | IR-cut filter with auto switch (ICR)                                                                                                                                                                                                                                                                                                                                                                    |            |             |               |              |
| Shutter              | Auto/Manual, shutter time: 1 ~ 1/100000s                                                                                                                                                                                                                                                                                                                                                                |            |             |               |              |
| WDR                  | DWDR                                                                                                                                                                                                                                                                                                                                                                                                    |            |             |               |              |
| S/N                  | >52dB                                                                                                                                                                                                                                                                                                                                                                                                   |            |             |               |              |
| Lens                 |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| Lens type            | 1.8mm@F2.0                                                                                                                                                                                                                                                                                                                                                                                              |            |             |               |              |
| Field of View        | 360°                                                                                                                                                                                                                                                                                                                                                                                                    |            |             |               |              |
| DORI                 |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| DORI Distance        | Lens (mm)                                                                                                                                                                                                                                                                                                                                                                                               | Detect (m) | Observe (m) | Recognize (m) | Identify (m) |
|                      | 1.8                                                                                                                                                                                                                                                                                                                                                                                                     | 43.8       | 17.5        | 8.8           | 4.4          |
| Illuminator          |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| IR Range             | Up to 15m (49ft) IR range                                                                                                                                                                                                                                                                                                                                                                               |            |             |               |              |
| wavelength           | 850nm                                                                                                                                                                                                                                                                                                                                                                                                   |            |             |               |              |
| IR On/Off Control    | Auto/Manual                                                                                                                                                                                                                                                                                                                                                                                             |            |             |               |              |
| Video                |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| Compression          | Ultra265, H.265, H.264, MJPEG                                                                                                                                                                                                                                                                                                                                                                           |            |             |               |              |
| H.264 code profile   | Baseline profile, Main Profile, High Profile                                                                                                                                                                                                                                                                                                                                                            |            |             |               |              |
| Main Stream          | Fisheye View: 12MP(4000*3000)@20fps;3000*3000@20fps; 2560*2560@25fps;<br>Panorama View: 12MP(4000*3000)@20fps;3000*2000@20/25fps; 3000*1500@20/25fp;<br>PTZ View: 1920*1080@20/25fps;                                                                                                                                                                                                                   |            |             |               |              |
| Sub Stream           | Fisheye View:2000*1500@20fps;2000*2000@25fps                                                                                                                                                                                                                                                                                                                                                            |            |             |               |              |
| Third Stream         | Fisheye View:D1(720*576)@20/25fps;CIF352*288)@20/25fps;                                                                                                                                                                                                                                                                                                                                                 |            |             |               |              |
| Video Bit Rate       | 128 Kbps~16 Mbps                                                                                                                                                                                                                                                                                                                                                                                        |            |             |               |              |
| U-code               | Support                                                                                                                                                                                                                                                                                                                                                                                                 |            |             |               |              |
| OSD                  | Up to 8 OSDs                                                                                                                                                                                                                                                                                                                                                                                            |            |             |               |              |
| Privacy Mask         | Up to 4 areas                                                                                                                                                                                                                                                                                                                                                                                           |            |             |               |              |
| ROI                  | Up to 8 areas                                                                                                                                                                                                                                                                                                                                                                                           |            |             |               |              |
| Video stream         | Triple streams                                                                                                                                                                                                                                                                                                                                                                                          |            |             |               |              |
| Live View Display    |                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |               |              |
| Mount Type           | Support table, wall, and ceiling                                                                                                                                                                                                                                                                                                                                                                        |            |             |               |              |
| Hardware Decoding    | Ceiling mount: fisheye view, fisheye + 4PTZ, horizontal panorama view、vertical panorama view<br>Table mount: fisheye view, fisheye + 4PTZ, , horizontal panorama view、vertical panorama view<br>Wall mount: fisheye view, fisheye + 4PTZ, panorama view                                                                                                                                                 |            |             |               |              |
| Software Decoding    | Ceiling mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ<br>Table mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ<br>Wall mount: fisheye view, 180° panorama view, 180° panorama view+3PTZ, 180° panorama view+4PTZ, 180° panorama view+8PTZ |            |             |               |              |

## 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°      |
| Dewarping               | N/A                                             |
| HLC                     | N/A                                             |
| BLC                     | Support                                         |
| Defog                   | Digital Defog                                   |

## Intelligent

|                            |                                            |
|----------------------------|--------------------------------------------|
| Smart intrusion prevention | Cross Line detection, Intrusion detection  |
| Statistical Analysis       | Heat map(Working with management platform) |

## Events

|                  |                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Detection  | Motion detection, Audio detection, Tampering alarm                                                                                                   |
| General Function | Watermark, IP Address Filtering, Tampering Alarm ,Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication |

## Audio

|                   |                |
|-------------------|----------------|
| Audio Compression | G.711U, G.711A |
| Audio Bitrate     | 64 Kbps        |
| Two-way audio     | Support        |
| Suppression       | Support        |
| Sampling Rate     | 8KHZ           |

## Storage

|                 |                       |
|-----------------|-----------------------|
| Edge Storage    | Micro SD, up to 256GB |
| Network Storage | ANR, NAS(NFS)         |

## Network

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Protocols              | IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API,SDK                                                                                     |
| User/Host              | Up to 32 users. 3 user levels: administrator, common user and operator                                                               |
| Client                 | EZStation<br>EZView<br>EZLive                                                                                                        |
| Web Browser            | Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above                            |

## Interface

|                  |                                                |
|------------------|------------------------------------------------|
| Audio I/O        | Input: impedance 35kΩ; amplitude 2V [p-p]      |
|                  | Output: impedance 600Ω; amplitude 2V [p-p]     |
| Alarm I/O        | 2/1                                            |
|                  | Multiple Alarm linkage editable                |
| Built-in Mic     | Two Mics                                       |
| Built-in Speaker | Support                                        |
| Serial           | 1 channel RS485 interface                      |
| Network          | 1 RJ45 10M/100M Base-TX Auto-adaptive Ethernet |
| Video Output     | 1 BNC, impedance 75Ω; amplitude 1V [p-p]       |

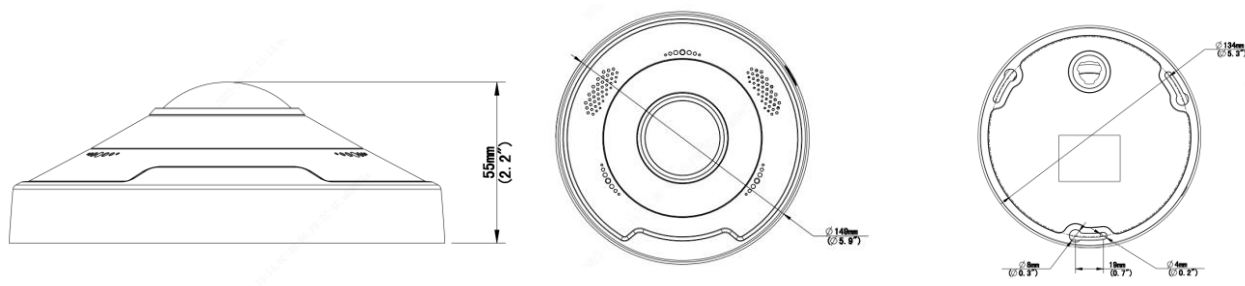
## Certifications

|             |                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                   |

## General

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Power               | DC 12V±25%, PoE (IEEE 802.3af)                  |
|                     | Power consumption: Max 12W                      |
| Dimensions (Ø x H)  | Φ149 x 55mm (Φ5.9" x 2.2")                      |
| Weight              | 524g                                            |
| Material            | Metal + Plastic                                 |
| Working Environment | -30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH |
| Storage Environment | -30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH |
| surge protection    | 4kv                                             |
| Reset Button        | Support                                         |

## Dimensions



## Accessories

TR-JB04-D-IN

Junction Box

TR-A01-IN

Waterproof Joint

TR-SE24-IN

Pendant Mount

TR-SE24-A-IN

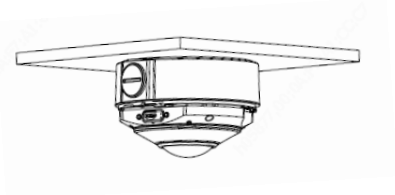
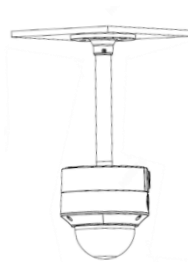
Pendant Mount



TR-CM24-IN

Pendant Mount



| Junction box                                                                        | Indoor pendent mount                                                                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| TR-JB04-D-IN+TR-A01-IN                                                              | TR-JB04-D-IN+TR-A01-IN+ TR-SE24-IN(TR-SE24-A-IN)+ TR-CM24-IN                          |
|  |  |

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\*Product specifications and availability are subject to change without notice.