

**IPC-T229HAA-LU(F)/(SL)/(SRB)**  
**2 MP ColorVu 3.0 Fixed Turret Network Camera**

ColorVu 3.0



- High quality imaging with 2 MP resolution
- 24/7 colorful imaging
- Support Person and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range cover
- -SL/-SRB: Provide real-time security via built-in two-way audio and strobe light alarm
- Efficient H.265+ compression technology
- -LUF: Support on-board storage up to 512 GB (SD card slot)
- Water and dust resistant (IP67)

## ▪ Specification

| Camera                      |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/2.8" Progressive Scan CMOS                                                                                                      |
| Max. Resolution             | 1920 × 1080                                                                                                                       |
| Min. Illumination           | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light                                                                              |
| Shutter Time                | 1 s to 1/100,000 s                                                                                                                |
| Day & Night                 | IR cut filter                                                                                                                     |
| Angle Adjustment            | Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°                                                                              |
| Lens                        |                                                                                                                                   |
| Lens Type                   | Fixed focal lens, 2.8 and 4 mm optional                                                                                           |
| Focal Length & FOV          | 2.8 mm, horizontal FOV 106°, vertical FOV 56°, diagonal FOV 129°<br>4 mm, horizontal FOV 88°, vertical FOV 47°, diagonal FOV 103° |
| Lens Mount                  | M12                                                                                                                               |
| Iris Type                   | Fixed                                                                                                                             |
| Aperture                    | F1.0                                                                                                                              |
| Depth of Field              | 2.8 mm: 1.2 m to ∞<br>4 mm: 1.3 m to ∞                                                                                            |
| DORI                        |                                                                                                                                   |
| DORI                        | 2.8 mm, D: 44 m, O: 17 m, R: 8 m, I: 4 m<br>4 mm, D: 53 m, O: 21 m, R: 10 m, I: 5 m                                               |
| Illuminator                 |                                                                                                                                   |
| Supplement Light Type       | IR, White Light                                                                                                                   |
| Supplement Light Range      | Up to 30 m                                                                                                                        |
| Smart Supplement Light      | Yes                                                                                                                               |
| IR Wavelength               | 850 nm                                                                                                                            |
| Video                       |                                                                                                                                   |
| Main Stream                 | 50 Hz: 25 fps (1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 720)                                                |
| Sub-Stream                  | 50 Hz: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (640 × 480, 640 × 360)                                                      |
| Video Compression           | Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG                                                             |
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                 |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                      |
| H.265 Type                  | Main Profile                                                                                                                      |
| Bit Rate Control            | CBR, VBR                                                                                                                          |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                          |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream                                                                                     |
| Audio                       |                                                                                                                                   |
| Audio Type                  | Mono sound                                                                                                                        |
| Audio Compression           | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC/MP3                                                                            |
| Audio Bit Rate              | 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)/8 to 160 Kbps (MP3)               |
| Audio Sampling Rate         | 8 kHz/16 kHz                                                                                                                      |
| Environment Noise Filtering | Yes                                                                                                                               |

| Network                  |                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, RTCP, NTP, IPv4, IPv6, IGMP, UDP, QoS, FTP, SMTP                                                                                                                             |
| Simultaneous Live View   | Up to 6 channels                                                                                                                                                                                                       |
| API                      | ONVIF (Profile S, Profile G), ISAPI, SDK                                                                                                                                                                               |
| User/Host                | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                     |
| Security                 | Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address) |
| Client                   | iVMS-4200, HiLookVision                                                                                                                                                                                                |
| Web Browser              | Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                       |
| Image                    |                                                                                                                                                                                                                        |
| Image Settings           | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser                                                                                            |
| Day/Night Switch         | Day, Night, Auto, Schedule                                                                                                                                                                                             |
| Wide Dynamic Range (WDR) | 120 dB                                                                                                                                                                                                                 |
| SNR                      | ≥ 52 dB                                                                                                                                                                                                                |
| Image Enhancement        | BLC, HLC, 3D DNR                                                                                                                                                                                                       |
| Privacy Mask             | 4 programmable rectangular privacy masks                                                                                                                                                                               |
| Interface                |                                                                                                                                                                                                                        |
| Ethernet Interface       | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                          |
| On-Board Storage         | -LU : NA -LUF/S(L)(RB) : Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB                                                                                                             |
| Built-in Microphone      | IPC-T229HAA-LU(F)(/SL)(/SRB): Yes, 1 built-in microphone<br>Yes, 1 built-in microphone                                                                                                                                 |
| Built-in Speaker         | -LU: NA<br>-LUF/S(L)(RB): Max. power consumption: 2 W, max. sound pressure level: 10 cm: 101 dB                                                                                                                        |
| Audio                    | IPC-T229HAA-LU(F)(/SL)(/SRB): NA<br>NA                                                                                                                                                                                 |
| Alarm                    | IPC-T229HAA-LU(F)(/SL)(/SRB): NA<br>NA                                                                                                                                                                                 |
| Reset Key                | -LU : NA -LUF/S(L)(RB) : YES                                                                                                                                                                                           |
| Event                    |                                                                                                                                                                                                                        |
| Basic Event              | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                            |
| Linkage                  | Upload to memory card/FTP, notify surveillance center, send email, trigger recording, trigger capture                                                                                                                  |

| General                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power                            | <p>-LUF/S(L)(RB): 12 VDC <math>\pm</math> 25%, 0.52 A, max. 6.24 W, <math>\varnothing</math>5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 7.52 W</p> <p>-LU(F): 12 VDC <math>\pm</math> 25%, 0.52 A, max. 6.2 W, <math>\varnothing</math>5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 7.5 W</p>                                                                                                                                                                                                                                              |
| Material                         | Cover: Plastic, main body: Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimension                        | <p>IPC-T229HAA-LU(F)(/SL)(/SRB):<math>\varnothing</math>112 mm <math>\times</math> 82 mm (<math>\varnothing</math>4.4" <math>\times</math> 3.2")</p> <p>IPC-T229HAA-LUF/SRB(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SRB(4mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SL(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SL(4mm)(HiLook标配)(样机):<math>\varnothing</math>110 mm <math>\times</math> 102.7 mm (<math>\varnothing</math>4.3" <math>\times</math> 4.0")</p> <p>IPC-T229HAA-LU(2.8mm)(HiLook标配),IPC-T229HAA-LU(4mm)(HiLook标配):<math>\varnothing</math>112 mm <math>\times</math> 82 mm (<math>\varnothing</math>4.4" <math>\times</math> 3.2")</p> |
| Package Dimension                | 150 mm $\times$ 150 mm $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Weight                           | <p>IPC-T229HAA-LU(F)(/SL)(/SRB):-LU: Approx. 350 g (0.8 lb.)</p> <p>-LUF/S(L)(RB): 400 g (0.9 lb.)</p> <p>IPC-T229HAA-LUF/SL(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SL(4mm)(HiLook标配)(样机):-LUF/SL: Approx. 400 g (0.8 lb.)</p> <p>IPC-T229HAA-LUF/SRB(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SRB(4mm)(HiLook标配)(样机):-LUF/SRB: Approx. 400 g (0.8 lb.)</p> <p>IPC-T229HAA-LU(2.8mm)(HiLook标配),IPC-T229HAA-LU(4mm)(HiLook标配):-LU:Approx. 350 g (0.8 lb.)</p>                                                                                                                                                                              |
| With Package Weight              | <p>IPC-T229HAA-LU(F)(/SL)(/SRB): -LU: Approx. 530 g (1.2 lb.)</p> <p>-LUF/S(L)(RB): 595 g (1.3 lb.)</p> <p>IPC-T229HAA-LUF/SRB(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SRB(4mm)(HiLook标配)(样机):-LUF/SRB: Approx. 595 g (1.2 lb.)</p> <p>IPC-T229HAA-LU(2.8mm)(HiLook标配),IPC-T229HAA-LU(4mm)(HiLook标配):-LU: Approx. 530 g (1.2 lb.)</p> <p>IPC-T229HAA-LUF/SL(2.8mm)(HiLook标配)(样机),IPC-T229HAA-LUF/SL(4mm)(HiLook标配)(样机):</p> <p>-LUF/SRB: Approx. 595 g (1.2 lb.)</p>                                                                                                                                                                   |
| Storage Conditions               | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Language                         | English, Russian, Ukrainian, Arabic, Spanish, French, Portuguese, Turkish, Polish, German                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| General Function                 | Heartbeat,mirror,flash log,password reset via email,password protection,anti -banding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                 |                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| Flashing Light  | -LU : NA<br>-LUF/SL : White Light<br>-LUF/SRB : Red and Blue Light                                                       |
| <b>Approval</b> |                                                                                                                          |
| EMC             | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021 |
| Safety          | CB: IEC 62368-1:2014+A11,<br>CE-LVD: EN 62368-1:2014/A11: 2017                                                           |
| Environment     | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                         |
| Protection      | IP67: IEC 60529-2013                                                                                                     |

### ▪ Available Model

IPC-T229HAA-LUF/SRB(2.8mm)

IPC-T229HAA-LUF/SRB(4mm)

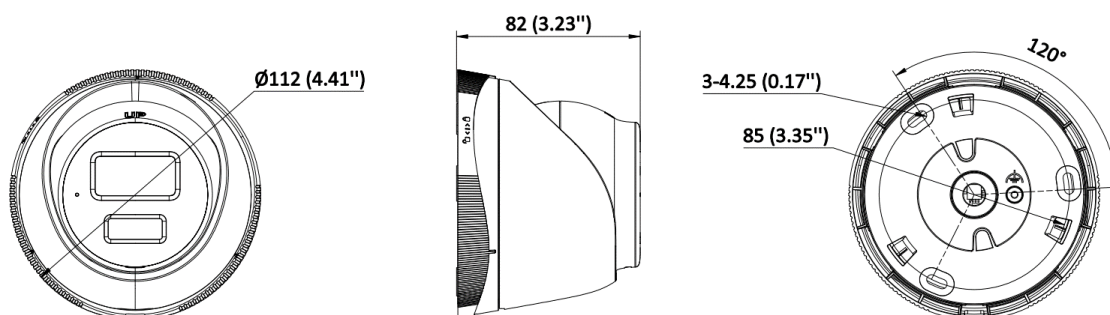
IPC-T229HAA-LU(2.8mm)

IPC-T229HAA-LU(4mm)

IPC-T229HAA-LUF/SL(2.8mm)

IPC-T229HAA-LUF/SL(4mm)

### ▪ Dimension



Unit:mm (inch)

### ▪ Accessory

#### ▪ Optional

| DS-1275ZJ-SUS | DS-1280ZJ-TR13 | DS-1276ZJ-SUS | DS-1272ZJ-110-TRS | DS-1281ZJ-S |
|---------------|----------------|---------------|-------------------|-------------|
|               |                |               |                   |             |

**DS-1271ZJ-110-TRS**



▪ **Installation Methods**

| Vertical Pole<br>Mounting<br>DS-1275ZJ-SUS+DS-12<br>72ZJ-110-TRS | Junction Box<br>DS-1280ZJ-TR13 | Corner Mounting<br>DS-1276ZJ-SUS+DS-12<br>72ZJ-110-TRS+DS-125<br>3ZJ-M | Wall Mounting<br>DS-1272ZJ-110-TRS+D<br>S-1253ZJ-M | Inclined Ceiling<br>Mounting<br>DS-1281ZJ-S |
|------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------|
|                                                                  |                                |                                                                        |                                                    |                                             |
| <b>Pendant Mounting</b><br><b>DS-1271ZJ-110-TRS</b>              |                                |                                                                        |                                                    |                                             |
|                                                                  |                                |                                                                        |                                                    |                                             |

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