

## IPC-B1120HAP-LUF/SL#EU

12MP Fixed Bullet Network Camera with Smart Hybrid Light and Live Guard



- UHD: Ultra High Definition delivers lifelike immersion
- Live Guard: Active strobe light and audio alarm
- Smart Hybrid Light: Integrates IR and white lights, 3 supplemental lighting modes
- Person and vehicle classification based on deep learning
- Two-way audio
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67)

## ▪ Specification

| Camera                      |                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/1.8" Progressive Scan CMOS                                                                                                                                                         |
| Max. Resolution             | 4608 × 2592                                                                                                                                                                          |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, 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 90°, rotate: 0° to 360°                                                                                                                                 |
| Lens                        |                                                                                                                                                                                      |
| Lens Type                   | Fixed focal lens, 2.8 mm                                                                                                                                                             |
| Focal Length & FOV          | 2.8 mm, horizontal FOV 94.2°, vertical FOV 51.1°, diagonal FOV 110.2°                                                                                                                |
| Lens Mount                  | M16                                                                                                                                                                                  |
| Iris Type                   | Fixed                                                                                                                                                                                |
| Aperture                    | F1.6                                                                                                                                                                                 |
| Depth of Field              | 2.9 m to ∞                                                                                                                                                                           |
| DORI                        |                                                                                                                                                                                      |
| DORI                        | D: 117 m, O: 46 m, R: 23 m, I: 11 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                 | 50Hz :<br>20fps(4608 × 2592)<br>25fps(3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz :<br>20fps(4608 × 2592)<br>30fps(3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                 |
| Third Stream                | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings. |
| Video Compression           | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>*Third stream is supported under certain settings.                        |
| Video Bit Rate              | 32 Kbps to 20 Mbps                                                                                                                                                                   |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                         |
| H.265 Type                  | Main Profile                                                                                                                                                                         |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                             |
| Bit Rate Control            | CBR, VBR                                                                                                                                                                             |
| Region of Interest (ROI)    | 1 fixed region for main stream                                                                                                                                                       |
| Target Cropping             | Yes                                                                                                                                                                                  |

| Audio                       |                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                                                                                                                                            |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                              |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                                                                                                                                                                                     |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                                            |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| Network                     |                                                                                                                                                                                                                                                                                                                                                                                       |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP                                                                                                                                                                                               |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                                                                      |
| API                         | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                                                                             |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                    |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address) |
| Client                      | HiLook app                                                                                                                                                                                                                                                                                                                                                                            |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)                                                                                                                                                                                                                                                                                                                                 |
| Web Browser                 | Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+                                                                                                                                                                                                                                                                        |
| Image                       |                                                                                                                                                                                                                                                                                                                                                                                       |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| 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, Distortion Correction, Defog                                                                                                                                                                                                                                                                                                                                        |
| Privacy Mask                | 4 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                                                  |
| Interface                   |                                                                                                                                                                                                                                                                                                                                                                                       |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                                                         |
| On-Board Storage            | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB                                                                                                                                                                                                                                                                                                     |
| Reset Key                   | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| Built-in Speaker            | 1 built-in speaker, Max. power consumption: 2 W, max. sound pressure level: 10 cm: 110 dB.                                                                                                                                                                                                                                                                                            |
| Audio                       | Built-in Microphone: Single-microphone                                                                                                                                                                                                                                                                                                                                                |
| Event                       |                                                                                                                                                                                                                                                                                                                                                                                       |
| Basic Event                 | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                                                                                                                                                                           |
| Smart Event                 | Scene change detection                                                                                                                                                                                                                                                                                                                                                                |
| Linkage                     | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email                                                                                                                                                                                                                                                                             |

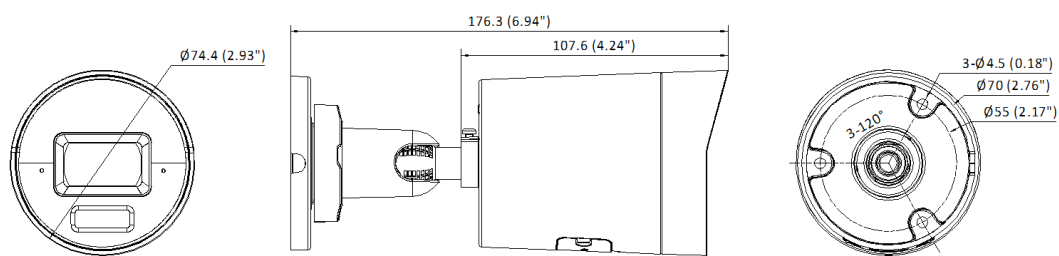
| General                          |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power                            | 12 VDC $\pm$ 25%, 1.3 A, max. 15.6 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3at, Class 4, max. 19 W                                                                                                                                                                                                  |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
| Dimension                        | $\varnothing$ 74.4 mm $\times$ 176.3 mm ( $\varnothing$ 2.93" $\times$ 6.94")                                                                                                                                                                                                                                                                         |
| Package Dimension                | 234 mm $\times$ 120 mm $\times$ 117 mm (9.21" $\times$ 4.72" $\times$ 4.61")                                                                                                                                                                                                                                                                          |
| Weight                           | Approx. 515 g (1.1 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 760 g (1.7 lb.)                                                                                                                                                                                                                                                                                                                               |
| 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                         | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| General Function                 | Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding                                                                                                                                                                                                                                                                   |
| Flashing Light                   | White Light                                                                                                                                                                                                                                                                                                                                           |
| Approval                         |                                                                                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                  |

## ▪ Typical Application

## ▪ Available Model

IPC-B1120HAP-LUF/SL(2.8mm)(EU)

## ▪ Dimension



Unit: mm (inch)

- **Accessory**
- **Optional**

**DS-1280ZJ-XS**



# See Far, Go Further



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# HiLook