

## IPC-HFW2241TP-ZS-27135

- 2-megapixel varifocal IP video kamera designed for installation in external security systems
- Pixels:1920 × 1080
- IR=60m
- Motorized varifocal lens
- F=2.7 mm-13.5 mm
- Video compression:H. 265; H. 264; H. 264H; H. 264B
- MJPEG; BLC; HLC; WDR; 3D NR
- Built-in Microphone

|                   |             |
|-------------------|-------------|
| Type              | IP          |
| Megapixel         | 2 MP        |
| Objective         | Motorized   |
| Focus             | 2.7-13.5 mm |
| Lighting          | IR          |
| Lighting distance | 60 m        |
| Microphone        | Mic         |
| Protection        | IP67        |
| Material          | Metal       |



## Detailed

|                          |                                       |
|--------------------------|---------------------------------------|
| <b>Model</b>             | <b>IPC-HFW2241TP-ZS-27135</b>         |
| <b>Camera</b>            |                                       |
| The matrix               | 1/2.8" CMOS                           |
| Effective pixels         | 1920 × 1080                           |
| ROM                      | 128 MB                                |
| RAM                      | 128 MB                                |
| Scanning system          | Progressive                           |
| Electronic shutter speed | Auto / Manual 1 / 3 s - 1 / 100,000 s |
| Mines. lighting          | 0.002 Lux at F1. 5 (Color, 30 IRE)    |

|                                |   |                        |                       |                      |                      |
|--------------------------------|---|------------------------|-----------------------|----------------------|----------------------|
|                                | 0.0002 Lux at F1. 5 (B / W, 30 IRE)<br>0 Lux (IR on)  |                        |                       |                      |                      |
| Signal-To-Noise Ratio          | >56 dB  |                        |                       |                      |                      |
| IR distance                    | 60 m (196.85 ft)  |                        |                       |                      |                      |
| IR Control On / Off            | Auto / Manual   |                        |                       |                      |                      |
| IR LEDs                        | 4   |                        |                       |                      |                      |
| Pan / Tilt / Rotate Range      | Pan:0° - 360°<br>Tilt: 0° - 90°<br>Rotation:0° - 360°   |                        |                       |                      |                      |
| <b>Lens</b>                    |   |                        |                       |                      |                      |
| Lens Type                      | Motorized variofocal  |                        |                       |                      |                      |
| Mounting type                  | φ14   |                        |                       |                      |                      |
| Focal length                   | 2.7 mm - 13.5 mm  |                        |                       |                      |                      |
| Max. aperture                  | F1.5  |                        |                       |                      |                      |
| Viewing angle                  | Horizontal: 108° - 30°;<br>Vertical: 56° - 17°;<br>Diagonal:131° - 35°  |                        |                       |                      |                      |
| Aperture Control               | Fixed value   |                        |                       |                      |                      |
| Closed focal length            | 0.8 m (2.62 ft)   |                        |                       |                      |                      |
| DOPE Distance                  | Lens  | Detection              | Notification          | Speech recognition   | Identification       |
|                                | W   | 44.1 m<br>(144.69 ft)  | 17.7 m<br>(58.07 ft)  | 8.8 m<br>(28.87 ft)  | 4.4 m<br>(14.44 ft)  |
|                                | T   | 144.8 m<br>(475.07 ft) | 57.9 m<br>(189.96 ft) | 29.0 m<br>(96.14 ft) | 14.5 m<br>(47.57 ft) |
| <b>Intellectual properties</b> |   |                        |                       |                      |                      |
| IVS (Perimeter Protection)     | Intrusion, stretch (Two functions support classification and accurate detection of car and person)                        |                        |                       |                      |                      |
| Smart Search                   | Works together with Smart NVR to perform accurate intelligent search, extract events, and combine them with event videos. |                        |                       |                      |                      |
| <b>Video</b>                   |   |                        |                       |                      |                      |
|                                |   |                        |                       |                      |                      |

|                               |  |
|-------------------------------|--|
| Video compression             | H. 265; H. 264; H. 264H; H. 264B; MJPEG (Supported only by an additional stream)   |
| Smart Codec                   | Smart H.265+; Smart H.264+   |
| Video Frame Rate              | Main stream:1920 × 1080 (1-25 / 30 fps)<br>Additional stream:704 × 576 (1-25 fps) / 704 × 480 (1-30 fps)<br>* The above values are the maximum frame rates of each stream; for multiple streams, the values will depend on the total encoding capacity |
| Streaming capabilities        | 2 streams  |
| Permission                    | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576 / 704 × 480); VGA (640 × 480); CIF (352 × 288 / 352 × 240)  |
| Data transfer rate monitoring | CBR / VBR  |
| Video Transfer rate           | H.264:32 kbps-6144 kbps<br>H.265:12 kbps-6144 kbps   |
| Day / Night                   | Auto (IR) / Color / B / W  |
| BLC                           | There are  |
| HLC                           | There are  |
| WDR                           | 120 dB   |
| White Balance                 | Auto / Natural Light / Street Lamp / Outdoor activities / Manually / Regionally  |
| Gain control                  | Auto / Manual  |
| Noise reduction               | 3D NR  |
| Motion Detection              | Off / On (4 Zones, Rectangle)  |
| Area of Interest (RoI)        | Yes (4 Zones)  |
| Smart Lighting                | There are  |
| Rotate the frame              | 0° / 90° / 180° / 270° (Support 90° / 270° with 1080p resolution and below)  |
| Display                       | There are  |
| Privacy Mask                  | 4 Zones  |
| <b>Audio</b>                  |  |
| Built-in microphone           | There are  |
| Audio compression             | G.711a; G.711Mu; G.726; PCM  |

|                       |  |
|-----------------------|--|
| <b>Anxiety</b>        |  |
| Disturbing events     | No SD Card; SD card is full; SD card error; Network Outage; IP Conflict; Illegal Access; Motion Detection; Video Violation; Stretching; Intrusion; Sound Detection; Voltage detection; Defocus Detection; SMD; Security Exception      |
| <b>Network</b>        |  |
| Network Port          | RJ-45 (10 / 100 Base-T)  |
| SDK and API           | There are  |
| Network Protocol      | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Многоадресная рассылка; ICMP; IGMP  |
| Compatibility         | ONVIF (Profile S / Profile T); CGI; P2P; Milestone   |
| User / Host           | 6 (Total throughput:36 Mb)   |
| Keeping               | FTP; SFTP; Micro SD card (Support max. 256 GB)   |
| Browser               | IE<br>Chrome<br>Firefox  |
| Management software   | Smart PSS; DSS; DMSS   |
| Smartphones           | iOS; Android   |
| Cyber Security        | Video Encryption; Configuration Encryption; Digest; WSSE; Account Lockout; Security Logs; IP/MAC Filtering; X. 509 Certificate Generation and Import; System Log; HTTPS; 802.1 x; Trusted Download; Trusted Execution; Reliable Update |
| <b>Protection</b>     |  |
| Degree of protection  | IP67, IK10 (optional)  |
| <b>Certificates</b>   |  |
| Certificates          | CE-LVD:EN62368-1;<br>CE-EMC:Electromagnetic Compatibility Directive 2014/30 / EU;<br>FCC:47 CFR FCC Part 15, Subsection B  |
| <b>Environment</b>    |  |
| Operating temperature | -30 °C to +60 °C (-22 °F to +140 °F)   |
| Operating humidity    | ≤95 %  |
| Storage temperature   | -40 °C to +60 °C (-40 °F to +140 °F)   |

| <b>Electrical properties</b> |  |
|------------------------------|--|
| Power supply                 | 12 VDC / PoE (802.3af)   |
| Power consumption            | Basic information: 2W (DC12V); 2.6 W (PoE)<br>Max. (H. 265 + Intelligent on +WDR +IR on): 8.5 W (DC12V); 9.8 W (PoE) |
| <b>General information</b>   |  |
| Material                     | Metal  |
| Colour                       | White  |
| Sizes                        | 238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")   |
| Net Weight                   | 0.73 kg (1.6 lb)   |
| Gross Weight                 | 0.99 kg (2.2 lb)   |