# 6MP+4MP Super Starlight Panoramic Linkage Dual-lens Splicing Network PTZ Dome Camera

## IPC98246EFW-X42-W-VH1



**IP67** | **Multi-target detection** | **PoE** | **Smart intrusion prevention** | **Automatic wiper**

## Features

- Panoramic dual-lens splicing, three-lens design, capturing both the big picture and details at the same time.
- Both the panorama and details channels utilize 1/1.8" high-sensitivity CMOS sensors to capture clear images even when light level drops to almost zero at night.
- Panorama adopts the cutting-edge splicing technology to output a horizontal 200° and vertical 80° stitched image for wide scenes.
- Panorama supports a maximum of 3680×1656@30fps HD video output, while details supports a maximum of 2688×1520@30fps HD video output.
- Dual-channel with one IP, providing a panoramic view and live details at the same time.
- Built-in Wise-ISP algorithm enables intelligent noise reduction and stunning visual effects in low-light conditions.
- Panorama supports motorized vertical adjustment from 0° to 30° to deal with complex scenes.
- Supports panoramic linkage: After an event is detected by the panorama channel, the camera automatically triggers the details channel to track the target and capture snapshots. The supported events include intrusion detection, cross line detection, enter area, and leave area.
- Supports drag-to-zoom: User can drag on the panoramic image to view the magnified details of the area of interest at the center of the details channel.
- Supports multiple deep-learning video content analysis, including smart intrusion prevention (SIP) and people flow counting for the panorama channel, and SIP, people flow counting, multi-target detection, and automatic tracking for the details channel.
- Perimeter protection: supports cross line, enter area, leave area, and intrusion detection; supports classifying and detecting motor vehicles, non-motor vehicles, pedestrians, and triggering alarms.
- Multi-target detection: supports classifying, detecting, and capturing motor vehicles, non-motor vehicles, and pedestrians; supports

metadata extraction for motor vehicles, non-motor vehicles, faces, and human bodies.

● People counting: including people flow counting and crowd density monitoring, suitable for various application scenarios.

● Auto tracking: supports classifying and tracking motor vehicles, non-motor vehicles, and pedestrians, and returning to the initial position at the end of the set tracking time.

● Supports optical defog, automatically adjusts the defog level as needed.

● Full-spectrum illumination: 30m warm light illumination for panorama, and 350m IR illumination for details.

● Adaptive highlight compensation automatically adjusts image brightness at night when there are moving vehicles on the road.
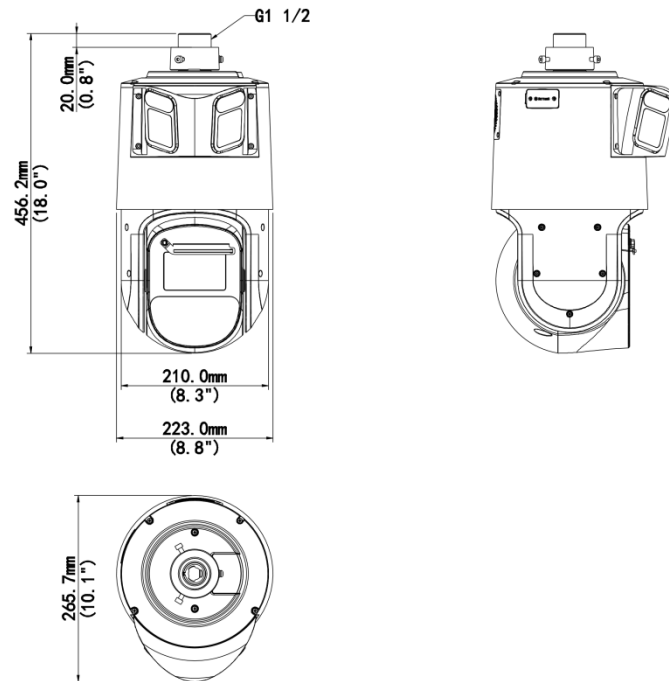
● IP67 protection.

## Specifications

| Channel | Channel 1 (Panorama) | Channel 2 (Detail) |
|---|---|---|
| Camera | | |
| Sensor | 1/1.8" CMOS | |
| Max Resolution | 6 MP | 4 MP |
| Min. Illumination | Color: 0.0005 lux (F1.2, AGC ON) <br> 0 lux with IR | |
| Shutter | Auto/Manual, 1 to 1/100000 s | |
| WDR | 120 dB | |
| S/N | >56 dB | |
| Lens | | |
| Digital Zoom | N/A | 16X |
| Optical Zoom | N/A | 42X |
| Field of View (H) | 200° ± 5° | 59.47° ~ 2.20° |
| Field of View (V) | 78° | 35.62° ~ 1.24° |
| DORI | | |
| DORI Distance (Lens) | 2.2mm | 6 ~ 252mm |
| Intelligent | | |
| Metadata Analyse | Support human body, human face, motor vehicle and non-motor vehicle image capture and attribute collection | |
| Linkage Function | Support. Triggered by fixed lens via smart intrusion prevention function to track target | |
| People Counting | Support People Flow Counting and Crowd Density Monitoring | |
| Smart Intrusion Prevention | Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) | |
| Multi-target Detection | N/A | Support |
| Auto Tracking | N/A | Support, target filtering: human, non-motor vehicle and vehicle |
| Image | | |
| Defog | Digital Defog | Optical Defog |
| White Balance | Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2 | |
| Digital Noise Reduction | 2D/3D DNR | |

| | | |
|---|---|---|
| Smart IR | N/A | Support |
| Flip | Flip Vertical | Normal, Flip Vertical, Flip Horizontal, 180° |
| HLC | Support | |
| BLC | Support | |
| Heatwave Reduction | N/A | Support |
| **Illuminator** | | |
| Light On/Off Control | Auto/Manual | |
| Illumination Distance (IR) | N/A | 350 m (1148.2 ft) |
| Illumination Distance (Warm Light) | 30 m (98.4 ft) | N/A |
| **Video** | | |
| Frame Rate-Main Stream | 6MP (3680*1656), Max 30fps; 6MP (3632*1632), Max 30fps;    1200*536, Max 30fps; 960*432, Max 30fps; | 4MP (2688*1520), Max 30fps; 4MP (2560*1440), Max 30fps; 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps; |
| Frame Rate-Sub Stream | 1200*536, Max 30fps; 960*432, Max 30fps; | 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps; |
| Frame Rate-Third Stream | 960*432, Max 30fps; | D1 (720*576), Max 30fps; 640*360, Max 30fps; 2CIF (704*288), Max 30fps; CIF (352*288), Max 30fps; |
| Frame Rate Recommendation | 3680*1656@30fps+1200*536@30fps+960*432@30fps 3632*1632@30fps+1200*536@30fps+960*432@30fps | 2688*1520@30fps+1080P@30fps+D1@30fps 2560*1440@30fps+1080P@30fps+D1@30fps |
| Privacy Mask | 24 areas, up to 8 areas per scene | |
| Video Compression | Ultra 265, H.265, H.264, MJPEG | |
| Video Bit Rate | 128 Kbps to 16 Mbps | |
| U-code | Support | |
| ROI | Up to 8 areas | |
| Video Stream | Triple Streams | |
| OSD | Up to 10 OSDs | |
| **Events** | | |
| Basic Detection | Motion Detection, Audio Detection, Tampering Alarm, Ultra Motion Detection | |
| General Function | Watermark, IP Address Filtering, Alarm Input, Alarm Output, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication | Watermark, IP Address Filtering, Access Policy, Alarm Output, Alarm Input, User Authentication, RTSP Authentication, ARP Protection, HTTP Authentication |
| **PTZ** | | |
| Pan Range | N/A | 360° |

| Pan Speed | N/A | 0.1°/s ~ 180°/s |
|---|---|---|
| Tilt Range | 0° ~ 30° | -15° ~ 90° |
| Tilt Speed | N/A | 0.1°/s ~ 180°/s |
| Number of Presets | N/A | 1024 |
| Preset Patrol | N/A | 16 patrols, up to 64 presets for each patrol |
| Preset Image Freeze | N/A | Support |
| Home Position | N/A | Support |
| 3D Location | N/A | Support |
| Number of Patrol | N/A | 16 |
| Snow Removal Mode | N/A | Support |
| Patrol Recording | N/A | Support |

| Audio | | |
|---|---|---|
| Audio Compression | G.711U, G.711A | |
| Audio Bitrate | 128 Kbps | |
| Two-way Audio | Support | |
| Suppression | Support | |
| Sampling Rate | 8 kHz, 16 kHz | |

| Storage | | |
|---|---|---|
| Edge Storage | Micro SD, up to 512 GB | |
| Network Storage | ANR, NAS (NFS) | |

| Network | | |
|---|---|---|
| Protocols | SSH, IGMP, RTP, RTCP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS | |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T, Profile M), API, SDK | ONVIF (Profile S, Profile G, Profile T), API, SDK |
| User/Host | Up to 32 users. 3 user levels: administrator, common user and operator | |
| Security | TLS 1.3, 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 | EZStation, UNV-Link, UNV-Link Pro | |
| Web Browser | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ | |

| Interface | | |
|---|---|---|
| Audio I/O | 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p] | |
| Alarm I/O | 7/2 | |
| Serial Port | 1 channel RS485 interface | |
| Built-in Speaker | Support | |
| Network | 1 × RJ45 1000 M Base-TX Ethernet | |

| Certification | | |
|---|---|---|
| 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> UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01) |
| Environment | CE-RoHS (2011/65/EU; (EU) 2015/863) |
| Protection | IP67 (IEC 60529: 1989+AMD1: 1999+AMD2: 2013) |
| **General** | |
| Power | DC24V (±25%), AC24V (±25%), POE (IEEE802.3bt) |
| Power Consumption | 74W MAX |
| Power Interface | Wires with cold-pressed terminal |
| Dimensions | 456 x 223 x 266 mm (17.95" x 8.78" x 10.47") (L x W x H) |
| Weight | 8.4kg |
| Working Environment | -40 ℃ to 70 ℃ (-40 ℉ to 158 ℉), Humidity: ≤ 95% RH (non-condensing) |
| Storage Environment | -40 ℃ to 70 ℃ (-40 ℉ to 158 ℉), Humidity: ≤ 95% RH (non-condensing) |
| Surge Protection | 6KV |
| Web Client Language | 22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese,   Arabic, Slovak |
| **Live View** | |
| Maximum Bitstream | 35 |
| Maximum Bandwidth | 50Mbps |
| OSD Font | Vector |
| OSD Color | Support |
| OSD Character Number | 40 |
| 3D Privacy Mask | N/A | Support |

# Dimensions



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