

## 4MP+4MP LightHunter Dual-lens Network PTZ Camera IPC94144SFW-X25-F40C



## Features

- Fixed camera and PTZ camera integration, dual-channel with one IP, provides overall view and detailed view at the same time
- Ultra 265, H.265, H.264, MJPEG
- 25X optical zoom of PTZ channel allows for closer viewing of subjects
- Smart intrusion prevention, supports false alarm filtering, including cross line, intrusion, enter area, leave area detection
- automatic selection of best snapshots, supports face detection masked area
- People counting, supports people flow counting and crowd density monitoring, suitable for different statistical scenarios
- PTZ channel can be linked to fixed channel's smart intrusion prevention to track the objects triggering the rule
- Supports sound and light warning, makes warning and alarming more noticeable
- LightHunter technology ensures ultra-high image quality in low illumination environment
- IR and warm light illumination to deal with different scenes and achieve full-color illumination
- DC 12 V, PoE+ (IEEE 802.3at) power supply
- Alarm I/O: 2/1, audio I/O: 1/1

## Specifications

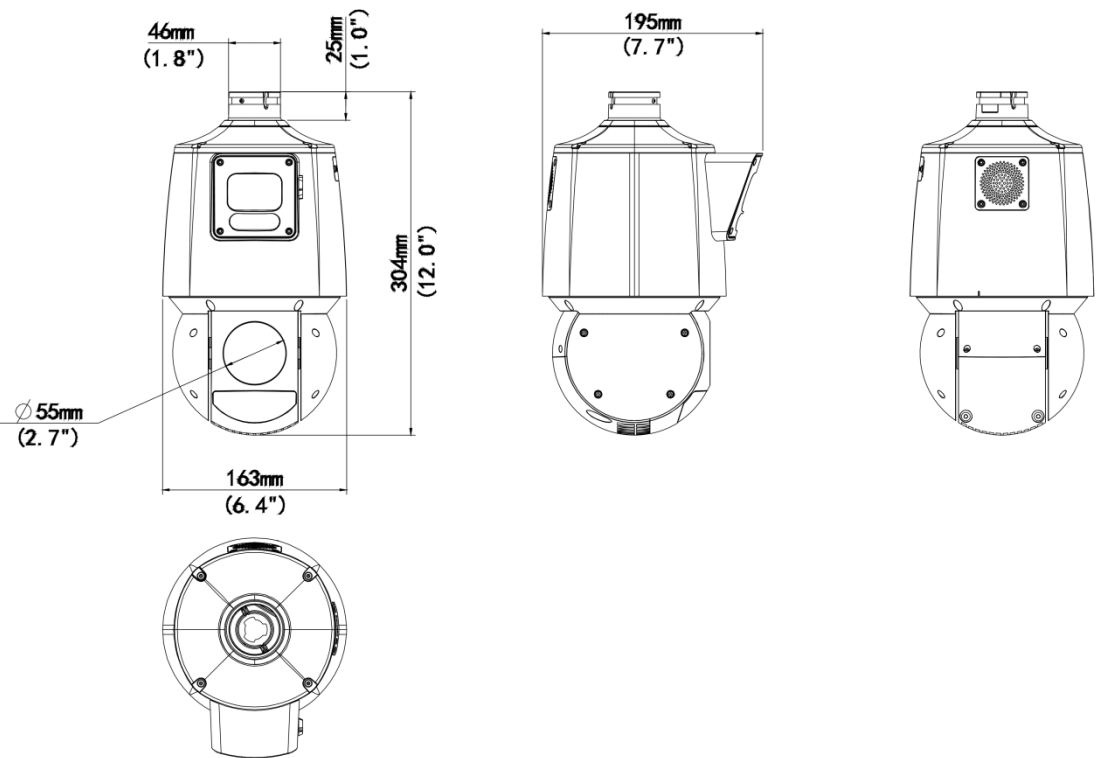
| Channel                   | Channel 1 (Panorama)                                                                                                                                                                                                                           | Channel 2 (Detail)                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Camera                    |                                                                                                                                                                                                                                                |                                                                                                                                             |
| Sensor                    | 1/1.8" CMOS                                                                                                                                                                                                                                    | 1/2.7" CMOS                                                                                                                                 |
| Min. Illumination         | Color: 0.0005 Lux (F1.0, AGC ON), 0 lux with IR                                                                                                                                                                                                | Color: 0.003 Lux (F1.5, AGC ON), 0 lux with IR                                                                                              |
| Day/Night                 | IR-cut filter with auto switch (ICR)                                                                                                                                                                                                           |                                                                                                                                             |
| Shutter                   | Auto/Manual, 1 to 1/100000 s                                                                                                                                                                                                                   |                                                                                                                                             |
| WDR                       | 120 dB                                                                                                                                                                                                                                         |                                                                                                                                             |
| S/N                       | >56 dB                                                                                                                                                                                                                                         |                                                                                                                                             |
| Lens                      |                                                                                                                                                                                                                                                |                                                                                                                                             |
| Focal Length              | 4.0 mm                                                                                                                                                                                                                                         | 4.8 to 120 mm                                                                                                                               |
| Optical Zoom              | N/A                                                                                                                                                                                                                                            | 25X                                                                                                                                         |
| Iris                      | F1.0                                                                                                                                                                                                                                           | F1.5 to F3.8                                                                                                                                |
| Field of View (H)         | 94.9°                                                                                                                                                                                                                                          | 55.46° to 3.09°                                                                                                                             |
| Field of View (V)         | 51.5°                                                                                                                                                                                                                                          | 32.94° to 1.73°                                                                                                                             |
| Field of View (D)         | 112.3°                                                                                                                                                                                                                                         | 68.22° to 3.65°                                                                                                                             |
| DORI                      |                                                                                                                                                                                                                                                |                                                                                                                                             |
| DORI Distance (Detect)    | 90.0 m (295.3 ft.)                                                                                                                                                                                                                             | 123.8 m to 2475.0 m (406.0 ft. to 8120.1 ft.)                                                                                               |
| DORI Distance (Observe)   | 36.0 m (118.1 ft.)                                                                                                                                                                                                                             | 49.5 m to 990.0 m (162.4 ft. to 3248.0 ft.)                                                                                                 |
| DORI Distance (Recognize) | 18.0 m (59.1 ft.)                                                                                                                                                                                                                              | 24.8 m to 495.0 m (81.4 ft. to 1624.0 ft.)                                                                                                  |
| DORI Distance (Identify)  | 9.0 m (29.5 ft.)                                                                                                                                                                                                                               | 12.4 m to 247.5 m (40.6 ft. to 812.0 ft.)                                                                                                   |
| Video                     |                                                                                                                                                                                                                                                |                                                                                                                                             |
| Privacy Mask              | Up to 4 areas                                                                                                                                                                                                                                  | 24 areas, up to 4 areas per scene                                                                                                           |
| Frame Rate-Main Stream    | 4 MP (2688 × 1520)@25 fps (Default)<br>4 MP (2688 × 1520), max. 30 fps;<br>4 MP (2560 × 1440), max. 30 fps;<br>1080P (1920 × 1080), max. 30 fps;<br>720P (1280 × 720), max. 30 fps;<br>D1 (720 × 576), max. 30 fps;<br>640 × 360, max. 30 fps; |                                                                                                                                             |
| Frame Rate-Sub Stream     | 720P (1280 × 720), max. 30 fps;<br>D1 (720 × 576), max. 30 fps;<br>640 × 360, max. 30 fps                                                                                                                                                      | 1080P (1920 × 1080), max. 30 fps;<br>720P (1280 × 720), max. 30 fps;<br>D1 (720 × 576), max. 30 fps;<br>640 × 360, max. 30 fps              |
| Frame Rate-Third Stream   | D1 (720 × 576), max. 30 fps;<br>640 × 360, max. 30 fps;<br>2CIF (704 × 288) , max. 30 fps;<br>CIF (352 × 288) , max. 30 fps                                                                                                                    |                                                                                                                                             |
| Video Compression         | Ultra 265, H.265, H.264, MJPEG                                                                                                                                                                                                                 |                                                                                                                                             |
| Frame Rate                | Main Stream: 4 MP (2688 × 1520), max. 30 fps;<br>Sub Stream: 720P (1280 × 720), max. 30 fps;<br>Third Stream: D1 (720 × 576), max. 30 fps                                                                                                      | Main Stream: 4 MP (2688 × 1520), max. 30 fps;<br>Sub Stream: 1080P (1920 × 1080), max. 30 fps;<br>Third Stream: D1 (720 × 576), max. 30 fps |

|                                    |                                                                                                                                     |                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Frame Rate Recommendation          | 2688 × 1520@30 fps + 720P@30 fps + D1@16 fps                                                                                        | 2688 × 1520@30 fps + 1080P@30 fps + D1@16 fps |
|                                    | 2688 × 1520@30 fps + 720P@25 fps + D1@30 fps                                                                                        | 2688 × 1520@30 fps + 1080P@25 fps + D1@30 fps |
|                                    | 2688 × 1520@25 fps + 720P@25 fps + D1@25 fps                                                                                        | 2688 × 1520@25 fps + 1080P@25 fps + D1@25 fps |
|                                    | 2560 × 1440@30 fps + 720P@30 fps + D1@30 fps                                                                                        | 2560 × 1440@30 fps + 1080P@30 fps + D1@30 fps |
|                                    | 2560 × 1440@30 fps + 720P@25 fps + D1@30 fps                                                                                        | 2560 × 1440@30 fps + 1080P@25 fps + D1@30 fps |
|                                    | 2560 × 1440@25 fps + 720P@25 fps + D1@25 fps                                                                                        | 2560 × 1440@25 fps + 1080P@25 fps + D1@25 fps |
|                                    | 1080P@30 fps + 720P@30 fps + D1@30 fps                                                                                              | 1080P@30 fps + 1080P@30 fps + D1@30 fps       |
|                                    | 1080P@25 fps + 720P@25 fps + D1@25 fps                                                                                              | 1080P@25 fps + 1080P@25 fps + D1@25 fps       |
|                                    | Video Bit Rate                                                                                                                      | 128 Kbps to 16 Mbps                           |
| U-code                             | Support                                                                                                                             |                                               |
| ROI                                | Support                                                                                                                             |                                               |
| Video Stream                       | Triple streams                                                                                                                      |                                               |
| OSD                                | Up to 8 OSDs                                                                                                                        |                                               |
| Image                              |                                                                                                                                     |                                               |
| White Balance                      | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2                                                                                |                                               |
| Digital Noise Reduction            | 2D/3D DNR                                                                                                                           |                                               |
| Flip                               | Normal, Flip vertical, Flip horizontal, 180°                                                                                        |                                               |
| HLC                                | Support                                                                                                                             |                                               |
| BLC                                | Support                                                                                                                             |                                               |
| Smart IR                           | Support                                                                                                                             |                                               |
| Defog                              | Digital defog                                                                                                                       |                                               |
| Heatwave Reduction                 | Support                                                                                                                             |                                               |
| Illuminator                        |                                                                                                                                     |                                               |
| Light On/Off Control               | Auto/Manual                                                                                                                         |                                               |
| Wavelength                         | N/A                                                                                                                                 | 850 nm                                        |
| Illumination Distance (IR)         | N/A                                                                                                                                 | 100 m (328.1 ft.)                             |
| Illumination Distance (Warm Light) | 30 m (98.4 ft.)                                                                                                                     | N/A                                           |
| Supplemental Light                 | Warm light                                                                                                                          |                                               |
| Events                             |                                                                                                                                     |                                               |
| Basic Detection                    | Motion detection, Audio detection, Tampering alarm                                                                                  |                                               |
| General Function                   | Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, Alarm input, Alarm output |                                               |
| UMD (Ultra Motion Detection)       | Support                                                                                                                             |                                               |
| Intelligent                        |                                                                                                                                     |                                               |
| Linkage Function                   | Support. Triggered by fixed lens via smart intrusion prevention function to track target                                            | N/A                                           |

|                            |                                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Intrusion Prevention | Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)                                                                            |                                                                                                                                                                                                                     |
| People Counting            | Support people flow counting and crowd density detection                                                                                                                                                            |                                                                                                                                                                                                                     |
| Exception Detection        | Object Left Behind, Object removed, Scene change                                                                                                                                                                    | Object Left Behind, Object removed                                                                                                                                                                                  |
| Audio                      |                                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| Audio Compression          | G.711U, G.711A                                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| Audio Bitrate              | 128 Kbps                                                                                                                                                                                                            |                                                                                                                                                                                                                     |
| Two-way Audio              | Support                                                                                                                                                                                                             |                                                                                                                                                                                                                     |
| Suppression                | Support                                                                                                                                                                                                             |                                                                                                                                                                                                                     |
| Sampling Rate              | 16 kHz                                                                                                                                                                                                              |                                                                                                                                                                                                                     |
| Storage                    |                                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| Edge Storage               | MicroSD, up to 512 GB                                                                                                                                                                                               |                                                                                                                                                                                                                     |
| Network Storage            | ANR                                                                                                                                                                                                                 |                                                                                                                                                                                                                     |
| 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                                                                                                                                                        |                                                                                                                                                                                                                     |
| 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 | 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, TLS 1.3 |
| Client                     | EZStation, UNV-Link, UNV-Link Pro                                                                                                                                                                                   |                                                                                                                                                                                                                     |
| Web Browser                | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+                                                                                                                                               |                                                                                                                                                                                                                     |
| PTZ                        |                                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| Number of Presets          | N/A                                                                                                                                                                                                                 | 1024                                                                                                                                                                                                                |
| Preset Patrol              | N/A                                                                                                                                                                                                                 | 16 patrols, up to 64 presets for each patrol                                                                                                                                                                        |
| Route Patrol               | N/A                                                                                                                                                                                                                 | 16 patrols, up to 32 actions for each patrol                                                                                                                                                                        |
| Recorded Patrol            | N/A                                                                                                                                                                                                                 | 16 patrols, up to 128 actions for each patrol                                                                                                                                                                       |
| Patrol Stay Time           | 15 s to 1800 s                                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| Preset Image Freeze        | N/A                                                                                                                                                                                                                 |                                                                                                                                                                                                                     |
| Home Position              | N/A                                                                                                                                                                                                                 | Support                                                                                                                                                                                                             |
| Number of Presets (IPC)    | N/A                                                                                                                                                                                                                 | 1024                                                                                                                                                                                                                |
| Pan Range                  | N/A                                                                                                                                                                                                                 | 360°                                                                                                                                                                                                                |
| Tilt Range                 | 18°±5°                                                                                                                                                                                                              | -15° to 90°                                                                                                                                                                                                         |
| Pan Speed                  | N/A                                                                                                                                                                                                                 | 0.1°/s to 80°/s                                                                                                                                                                                                     |
| Tilt Speed                 | N/A                                                                                                                                                                                                                 | 0.1°/s to 80°/s                                                                                                                                                                                                     |
| Interface                  |                                                                                                                                                                                                                     |                                                                                                                                                                                                                     |
| Audio I/O                  | 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V [p-p]                                                                                                                    |                                                                                                                                                                                                                     |
| Alarm I/O                  | 2/1                                                                                                                                                                                                                 |                                                                                                                                                                                                                     |

|                      |                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serial Port          | 1 × RS485                                                                                                                                                                                                                                                                           |
| Built-in Mic         | N/A                                                                                                                                                                                                                                                                                 |
| Built-in Speaker     | Support                                                                                                                                                                                                                                                                             |
| WIFI                 | N/A                                                                                                                                                                                                                                                                                 |
| Network              | 1 × RJ45 10 M/100 M Base-TX Ethernet                                                                                                                                                                                                                                                |
| Video Output         | N/A                                                                                                                                                                                                                                                                                 |
| <b>Certification</b> |                                                                                                                                                                                                                                                                                     |
| 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           | IP66 (IEC 60529 : 1989+AMD1: 1999+AMD2: 2013)                                                                                                                                                                                                                                       |
| <b>General</b>       |                                                                                                                                                                                                                                                                                     |
| Power                | DC 12 V (±25%), PoE+ (IEEE 802.3at)                                                                                                                                                                                                                                                 |
| Power Consumption    | Max. 24 W                                                                                                                                                                                                                                                                           |
| Power Interface      | Ø5.5 mm coaxial power plug                                                                                                                                                                                                                                                          |
| Dimensions           | 304 mm × 195 mm × 163 mm (12.0" × 7.7" × 6.4" ) (L × W × H)                                                                                                                                                                                                                         |
| Weight               | 2.27 kg (5.00 lb.)                                                                                                                                                                                                                                                                  |
| Working Environment  | -40 °C to 65 °C (-40 °F to 149 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |
| Storage Environment  | -40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |
| Surge Protection     | 4 KV                                                                                                                                                                                                                                                                                |
| Reset Button         | Support                                                                                                                                                                                                                                                                             |
| 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 |

# Dimensions



# Accessories

## TR-UF45-A-IN

Dome Indoor Ceiling Mounting Pedestal



## TR-SE45-A-IN

Dome Ceiling Mounting Pole 500



## TR-SE45-IN

Dome Ceiling Mounting Pole 200



## TR-CE45-IN

Dome Indoor Ceiling Mounting Bracket



## TR-WE45-IN

Dome Wall Mounting Bracket



## TR-WE45-A-IN

Long Wall Mounting Bracket for Dome



TR-WE45-B-IN

Dome Gooseneck Bracket



TR-JB12-IN

Dome Junction Box



TR-UP08-A-IN

Dome Pole Mounting Bracket



TR-UP08-B-IN

Aluminium Alloy Pole Mounting Bracket



TR-UC08-A-IN

Dome Corner Mounting Bracket



TR-UC08-B-IN

Aluminium Alloy Corner Mounting Bracket



# Unlimited New View

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