



## TC-H348M Spec:63X/IL/E++/A

4MP 63X Laser AEW PTZ Camera

Pro Series



### KEY FEATURES

- Up to 4MP, 2560×1440@30fps
- Color: 0.001lux@ (F1.6, AGC ON), 0lux with IR
- S+265/H.265/H.264B/H.264M/H.264H
- Optical zoom 63X
- IR range up to 300m
- Support microSD/microSDHC/microSDXC card, up to 512GB
- Support smart surveillance, detect up to 32 faces at the same scene
- Support human/vehicle classification
- Operating conditions -40°C~70°C (-40°F~158°F), ≤95%RH
- DC36V±25%, PoE: IEEE 802.3bt
- IP66

## SPECIFICATIONS

| Camera               |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Image Sensor         | 1/1.8"CMOS                                                                 |
| Min. Illumination    | Color:0.001lux@ (F1.6,AGC ON),0lux with IR                                 |
| Shutter Time         | 1s~1/100000s                                                               |
| Day&Night            | IR-cut filter with auto switch (ICR)                                       |
| Smart IR             | Yes                                                                        |
| WDR                  | 120dB,Only supported in monitoring mode,mutually exclusive with anti shake |
| Lens                 |                                                                            |
| Focal Length         | 5.7mm~359mm                                                                |
| Optical Zoom         | 63X                                                                        |
| Digital Zoom         | 16X                                                                        |
| Zoom Speed           | <8s                                                                        |
| Aperture Range       | F1.63~F4.94                                                                |
| Aperture Type        | Auto(P-Iris)                                                               |
| Field of View        | 60°~1.5°(H); 35.5°~0.87°(V); 67.5°~1.77°(D)                                |
| Focus Control        | Auto/Semi-auto/Manual                                                      |
| Close Focus Distance | 1000mm~3000mm                                                              |
| DORI Distance        | Detect:3800m<br>Observe:1508m<br>Recognize:760m<br>Identify:380m           |
| Pan&Tilt             |                                                                            |
| Pan Range            | 0~360°(P)                                                                  |
| Pan Speed            | Manual Speed:0.1°~200°/s<br>Preset Speed:240°/s                            |
| Tilt Range           | -21°~90°(T) (Default -13°~90°(T))                                          |
| Tilt Speed           | Manual Speed:0.1°~120°/s<br>Preset:180°/s                                  |
| 3D Position          | Yes                                                                        |
| Preset               | 500                                                                        |
| Cruise               | 16(up to 32 presets per cruise)                                            |
| Scan                 | 8                                                                          |
| Pattern              | 8,each with 600s memory or 1000 orders                                     |
| Scheduled Task       | Preset,Cruise,Scan,Pattern                                                 |
| North Point          | Yes                                                                        |
| Power-off Memory     | Yes                                                                        |
| Preset Freezing      | Yes                                                                        |
| Illuminator          |                                                                            |

|                             |                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| IR LEDs                     | 11                                                                                                                                               |
| IR Distance                 | Up to 300m                                                                                                                                       |
| Wavelength                  | 850nm                                                                                                                                            |
| IR Irradiation Angle        | Yes                                                                                                                                              |
| White LEDs                  | 2                                                                                                                                                |
| Whitelight Distance         | 30m                                                                                                                                              |
| Red and Blue Alarm Flash    | Yes                                                                                                                                              |
| Laser                       | 6                                                                                                                                                |
| Laser Distance              | Up to 500m                                                                                                                                       |
| <b>Compression Standard</b> |                                                                                                                                                  |
| Video Compression           | S+265/H.265/H.264B/H.264M/H.264H                                                                                                                 |
| Video Bit Rate              | 32Kbps~16Mbps                                                                                                                                    |
| Audio Compression           | G.711A/G.711U/ADPCM_D/AAC_LC                                                                                                                     |
| Audio Sampling Rate         | 8kHz/32kHz/48kHz                                                                                                                                 |
| <b>Image</b>                |                                                                                                                                                  |
| Max. Resolution             | 4MP,2560×1440@30fps                                                                                                                              |
| Main Stream                 | PAL:25fps(2560×1440,2304×1296,1920×1080,1280×720)<br>NTSC:30fps(2560×1440,2304×1296,1920×1080,1280×720)                                          |
| Sub Stream                  | PAL:25fps(704×576,704×288,640×360,352×288)<br>NTSC:30fps(704×480,704×240,640×360,352×240)                                                        |
| Third Stream                | PAL:25fps(704×576,704×288,352×288,640×480)<br>NTSC:30fps(704×480,704×240,352×240,640×480)                                                        |
| BLC                         | Yes                                                                                                                                              |
| HLC                         | Yes                                                                                                                                              |
| AGC                         | Yes                                                                                                                                              |
| 3DNR                        | Yes                                                                                                                                              |
| White Balance               | Auto/Semi-Auto/Manual/Sunshine/Nature Light/Warmlight Lamp/Daylight Lamp/Filament Lamp/Lock White Balance                                        |
| ROI                         | 7 rectangular 3D fixed focus areas,supporting 1 rectangular dynamic tracking ROI                                                                 |
| EIS                         | Yes                                                                                                                                              |
| OSD                         | 5 regions(Each region can have a maximum of 127 characters,up to 5 lines);<br>16*16/24*24/32*32/48*48/64*64/96*96/adaptable size; Vector/Lattice |
| Defog                       | Yes                                                                                                                                              |
| Flip                        | Normal/Inverted Flip                                                                                                                             |
| Regional Exposure           | Yes                                                                                                                                              |
| Regional Focus              | Yes                                                                                                                                              |
| Demist                      | Yes                                                                                                                                              |
| Privacy Mask                | 24 regions                                                                                                                                       |
| <b>Feature</b>              |                                                                                                                                                  |

|                          |                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Alarm            | Motion Detection; Mask Alarm; Alarm Input                                                                                                                                                                                                                                       |
| Exceptions Alarm         | Disk Full; Disk R/W Error; Recording Exception; IP Address Conflict; MAC Address Conflict; FTP Server Exception ; Network cable disconnected                                                                                                                                    |
| Linkage Method           | Send Email; Trigger Sound; trigger warmlight; Trigger Recording; Trigger Capture; Notify Surveillance Center; Alarm Output                                                                                                                                                      |
| Video Analytics          | Human/Vehicle Classification; Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Heatmap; Loitering; Running; Parking; People Counting; Safety Helmet Detection; On Duty Detection; Video Abnormal; Audio Abnormal; Crowded Detection                        |
| Auto Early Warning(AEW)  | Yes                                                                                                                                                                                                                                                                             |
| Auto-Tracking            | Yes                                                                                                                                                                                                                                                                             |
| Face Mode                | Face Capture                                                                                                                                                                                                                                                                    |
| Face Capture Performance | 80; 19; $\leq 150\text{m}$ ; Detect up to 32 faces at the same scene; Capture up to 16 faces at the same scene; Capture rate $\geq 97\%$ (continuous scene with 10 people or less); Gender 70%,age ( $\pm 5$ ) 70%,mask 70%,glasses 60%,beard 60% (Less than 10 people in view) |

## Network

|                      |                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANR                  | Yes                                                                                                                                                                                                  |
| Protocols            | RTSP; RTMP; HTTP; HTTPS; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP v1; DHCP; DNS; DDNS; Easy DDNS; NTP; SMTP; TLS v1.2; SSL; 802.1x; QoS; IPv4; IPv6; PPPoE; Unicast; Multicast; ARP; RTP; SRTP; FTP; SFTP |
| System Compatibility | P2P; ONVIF(Profile S/T/G/M); SDK; CGI; Milestone; RTSP; RTMP; HTTP PUSH                                                                                                                              |
| Remote Connection    | $\leq 4$                                                                                                                                                                                             |
| User/Host            | 32users,<br>Level 4:Admin/Browse/Browse+Control/Browse+Control+Set                                                                                                                                   |
| Client               | Easy7 VMS                                                                                                                                                                                            |
| Moblie Client        | EasyLive Plus                                                                                                                                                                                        |
| Web                  | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+                                                                                                                                                     |

## Interface

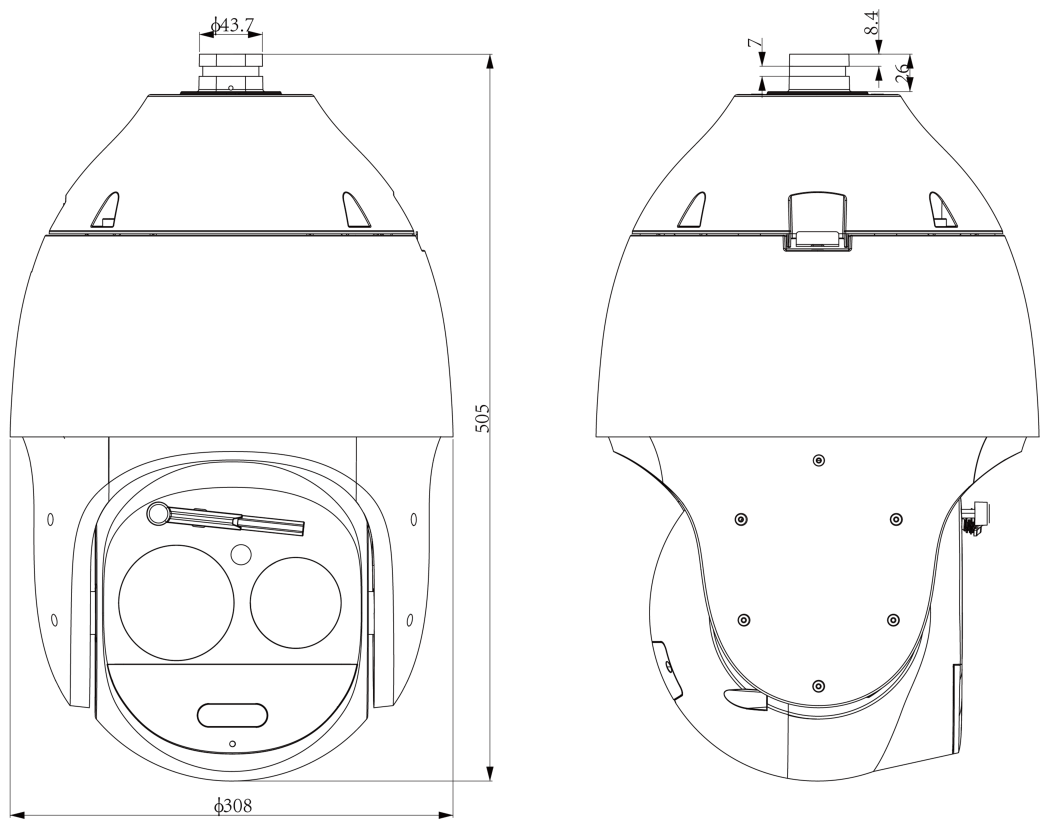
|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| Communication Interface | 1*RJ45 (10/100Base-T)                                                       |
| Audio I/O               | 1*Input Impedance 1k $\Omega$ ,2.0~2.4Vp-p; 1*Output Impedance 600 $\Omega$ |
| Alarm I/O               | 8*Switching; 2*Switching,Voltage $\leq$ DC24V,Current $\leq$ 1A             |
| Built-in Speaker        | 1,4 $\Omega$ 4W                                                             |
| Reset Button            | Yes                                                                         |
| On-board Storage        | Support microSD/microSDHC/microSDXC card,up to 512GB                        |
| Additional Interfaces   | RS485; BNC                                                                  |
| Wiper                   | Yes                                                                         |
| Electronic Compass      | Yes                                                                         |

## General

|                     |                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web Client Language | 17 languages<br>Simple Chinese/English/Traditional Chinese/Spanish/Italian/ Korean/Turkish/Russian/Thai/ Polish/ French/Dutch/ Hebraism/Vietnamese/Arabic/German/Ukrainian |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | -40°C~70°C(-40°F~158°F)     |
| Operating Humidity    | ≤95%RH                      |
| Storage Temperature   | -40°C~70°C(-40°F~158°F)     |
| Storage Humidity      | 10%~95%RH(non-condensing)   |
| Power Supply          | DC36V±25%; PoE:IEEE 802.3bt |
| Power Consumption     | 37W(IR OFF) ; 62W(IR ON)    |
| Protection            | Surge4000V; ESD6000V; IP66  |
| Material              | Metal                       |
| Boundary Dimensions   | 308(D)505(H)mm              |
| Package Dimensions    | 460(L)460(W)720(H)mm        |
| GrossWeight           | 17.95kg                     |
| NetWeight             | 12.75kg                     |

DIMENSIONS (Unit: mm)



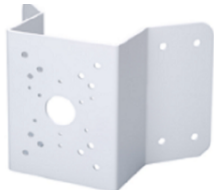
## Assembly diagram of Junction Box



**DF20Y**



**TC-P32EM**



**A35**



**DF21Y**



**A36**