



## TC-H3169M Spec:63X/LW/P/A/AR

16MP 63X Polar Day Panoramic AEW PTZ Camera

Pro Series



### KEY FEATURES

- Up to Panorama:5520×2400@30fps Detail: 2560×1440@30fps
- Panorama:0.0004lux Detail:0.001lux
- S+265/H.265/H.264B/H.264M/H.264H/Motion JPEG
- 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%
- IP66

SPECIFICATIONS

| Camera               |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor         | Panorama:1/1.8"CMOS<br>Detail:1/1.8"CMOS                                                                                                              |
| Min. Illumination    | Panorama:0.0004lux<br>Detail:0.001lux                                                                                                                 |
| Shutter Time         | 1s~1/100000s                                                                                                                                          |
| Day&Night            | IR-cut filter with auto switch (ICR)                                                                                                                  |
| Smart IR             | Yes                                                                                                                                                   |
| WDR                  | Panorama:DWDR<br>Detail:120dB                                                                                                                         |
| Lens                 |                                                                                                                                                       |
| Focal Length         | Panorama:2.8mm<br>Detail:5.7mm~359mm                                                                                                                  |
| Optical Zoom         | Panorama:N/A<br>Detail:63X                                                                                                                            |
| Digital Zoom         | Panorama:N/A<br>Detail:16X                                                                                                                            |
| Zoom Speed           | Panorama:N/A<br>Detail:<8s                                                                                                                            |
| Aperture Range       | Panorama:F1.0<br>Detail:F1.63~F4.94                                                                                                                   |
| Aperture Type        | Panorama:Fixed<br>Detail:Auto(P-Iris)                                                                                                                 |
| Field of View        | Panorama:180°±10°(H), 90°±10°(V)<br>Detail:60°~1.5°(H), 35.5°~0.87°(V), 7.5°~1.77°(D)                                                                 |
| Focus Control        | Panorama:N/A<br>Detail:Auto/Semi-auto/Manual                                                                                                          |
| Close Focus Distance | Panorama:200mm<br>Detail:1000mm~3000mm                                                                                                                |
| DORI Distance        | Panorama:<br>Detect:63m<br>Observe:25m<br>Recognize:12m<br>Identify:6m<br>Detail:<br>Detect:3800m<br>Observe:1508m<br>Recognize:760m<br>Identify:380m |
| Pan&Tilt             |                                                                                                                                                       |

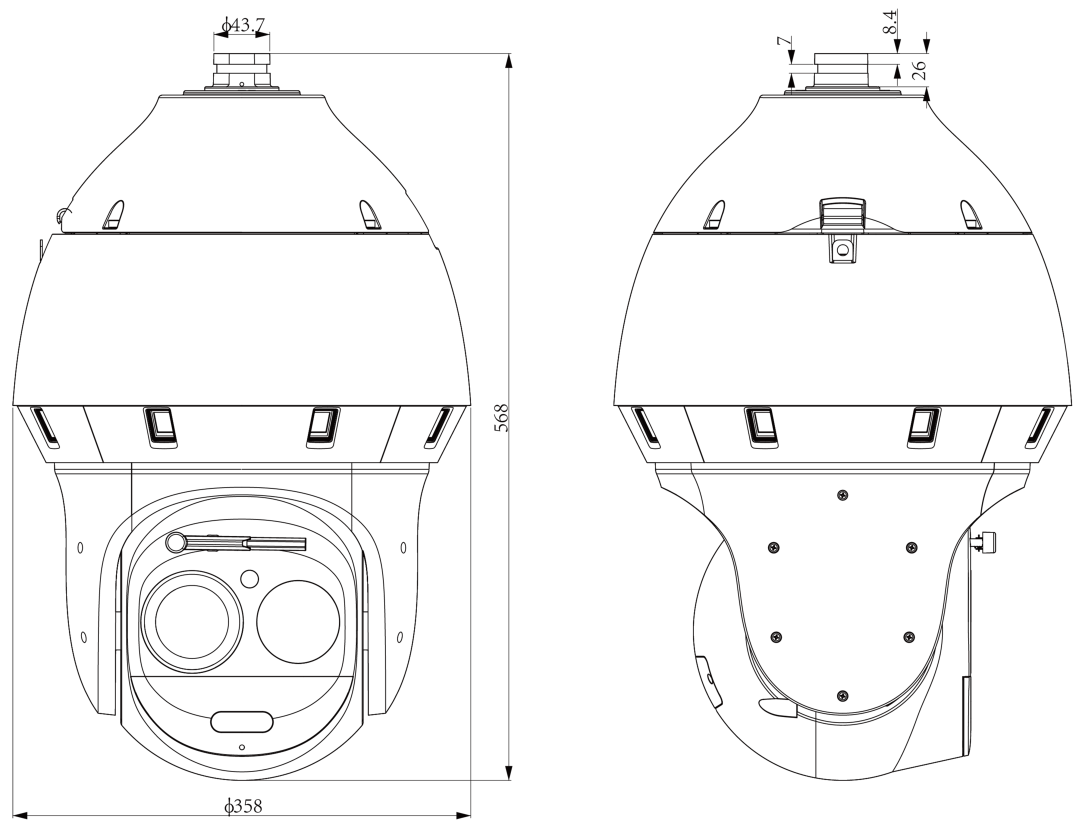
|                             |                                                            |
|-----------------------------|------------------------------------------------------------|
| Pan Range                   | Panorama:N/A<br>Detail:0~360°(P)                           |
| Pan Speed                   | Detail:<br>Manual Speed:0.1°~200°/s<br>Preset Speed:240°/s |
| Tilt Range                  | Detail:-21°~90°(T) (Default -13°~90°(T))                   |
| Tilt Speed                  | Detail:<br>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                                                        |
| <b>Illuminator</b>          |                                                            |
| IR LEDs                     | Panorama:N/A<br>Detail:11                                  |
| IR Distance                 | Panorama:N/A<br>Detail:300m                                |
| Wavelength                  | Panorama:N/A<br>Detail:850nm                               |
| IR Irradiation Angle        | Panorama:N/A<br>Detail:Yes                                 |
| White LEDs                  | Panorama:N/A<br>Detail:2                                   |
| Whitelight Distance         | Panorama:N/A<br>Detail:30m                                 |
| Red and Blue Alarm Flash    | Yes                                                        |
| Laser                       | Panorama:N/A<br>Detail:6                                   |
| Laser Distance              | Panorama:N/A<br>Detail:500m                                |
| <b>Compression Standard</b> |                                                            |
| Video Compression           | S+265/H.265/H.264B/H.264M/H.264H/Motion JPEG               |
| Video Bit Rate              | 32Kbps~16Mbps                                              |
| Audio Compression           | G.711A/G.711U/ADPCM_D/AAC_LC                               |
| Audio Sampling Rate         | 8kHz/32kHz/48kHz                                           |

| Image             |                                                                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Resolution   | Panorama:5520×2400@30fps<br>Detail:2560×1440@30fps                                                                                                                                                                                           |
| Main Stream       | Panorama:<br>PAL:25fps(5520×2400,4096×1800,3840×1680,2784×1200)<br>NTSC:30fps(5520×2400,4096×1800,3840×1680,2784×1200)<br>Detail:<br>PAL:25fps(2560×1440,2304×1296,1920×1080,1280×720)<br>NTSC:30fps(2560×1440,2304×1296,1920×1080,1280×720) |
| Sub Stream        | Panorama:<br>PAL:25fps(2048×896,1280×560,704×320)<br>NTSC:30fps(2048×896,1280×560,704×320)<br>Detail:<br>PAL:25fps(704×576,704×288,352×288,640×360)<br>NTSC:30fp(704×480,704×240,352×240,640×360)                                            |
| Third Stream      | Panorama:<br>PAL:25fps(1280×560)<br>NTSC:30fps(1280×560)<br>Detail:<br>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               | Panorama:<br>7 Fixed Areas for Both Main and Sub Stream<br>Detail<br>7 rectangular 3D fixed focus areas,supporting 1 rectangular dynamic tracking ROI                                                                                        |
| EIS               | Panorama:N/A<br>Detail:Yes                                                                                                                                                                                                                   |
| OSD               | 5 regions(Each region can have a maximum of 127 characters,up to 5 lines); Panorama:<br>16*16/24*24/32*32/48*48/64*64/72*72/96*96/128*128/adaptable size<br>Detail:<br>16*16/24*24/32*32/48*48/64*64/96*96/adaptable size; Vector/Lattice    |
| Defog             | Yes                                                                                                                                                                                                                                          |
| Flip              | Panorama:Normal<br>Detail:Normal/Inverted Flip                                                                                                                                                                                               |
| Regional Exposure | Panorama:N/A<br>Detail:Yes                                                                                                                                                                                                                   |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional Focus           | Panorama:N/A<br>Detail:Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Demist                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Privacy Mask             | Panorama:8 regions<br>Detail:24 regions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Feature</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| General Alarm            | Panorama:Motion Detection<br>Detail:Motion Detection; Panorama:N/A<br>Detail: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; Panorama:N/A<br>Detail:Object Abandon; Panorama:N/A<br>Detail:Object Missing; Panorama:Heatmap<br>Detail:N/A; Panorama:N/A<br>Detail:Loitering; Panorama:N/A<br>Detail:Running; Panorama:N/A<br>Detail:Parking; Panorama:N/A<br>Detail:People Counting; Panorama:N/A<br>Detail:Safety Helmet Detection; Panorama:N/A<br>Detail:On Duty Detection; Panorama:N/A<br>Detail:Video Abnormal; Panorama:N/A<br>Detail:Audio Abnormal; Panorama:N/A<br>Detail:Crowed Detection |
| Auto Early Warning(AEW)  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Auto-Tracking            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Face Mode                | Face Capture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Face Capture Performance | 80; 19; ≤150m; Detect up to 32 faces at the same scene; Capture up to 16 faces at the same scene; Capture rate ≥97%(continuous scene with 10 people or less); Gender 70%,age (±5) 70%,mask 70%,glasses 60%,beard 60% (Less than 10 people in view)                                                                                                                                                                                                                                                                                          |
| <b>Network</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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     | ONVIF(Profile S/T/G/M); SDK; CGI; Milestone; RTSP; RTMP; HTTP PUSH                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Remote Connection        | ≤7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| User/Host                | 32users,<br>Level 4:Admin/Browse/Browse+Control/Browse+Control+Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Client                   | Easy7 VMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web                     | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+                                                                                                                              |
| <b>Interface</b>        |                                                                                                                                                                               |
| 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                                                                                                                                                                           |
| <b>General</b>          |                                                                                                                                                                               |
| Web Client Language     | 17 languages<br>Simple Chinese/English/Traditional Chinese/Spanish/Italian/ Korean/Turkish/Russian/Thai/ Polish/<br>French/Dutch/ Hebraism/Vietnamese/Arabic/German/Ukrainian |
| Operating Temperature   | -40°C~70°C(-40°F~158°F)                                                                                                                                                       |
| Operating Humidity      | $\leq$ 95%RH                                                                                                                                                                  |
| Storage Temperature     | -40°C~70°C(-40°F~158°F)                                                                                                                                                       |
| Storage Humidity        | 10%~95%RH(non-condensing)                                                                                                                                                     |
| Power Supply            | DC36V $\pm$ 25%                                                                                                                                                               |
| Power Consumption       | 50W(IR OFF) ; 76W(IR ON)                                                                                                                                                      |
| Protection              | Surge4000V; ESD6000V; IP66                                                                                                                                                    |
| Material                | Metal                                                                                                                                                                         |
| Boundary Dimensions     | 358(D)568(H)mm                                                                                                                                                                |
| Package Dimensions      | 565(L)485(W)750(H)mm                                                                                                                                                          |
| GrossWeight             | 21.7kg                                                                                                                                                                        |
| NetWeight               | 14.8kg                                                                                                                                                                        |

DIMENSIONS (Unit: mm)



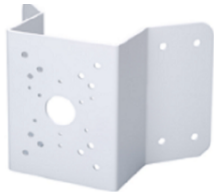
## Assembly diagram of Junction Box



**DF20Y**



**TC-P32EM**



**A35**



**DF21Y**



**A36**