# DS-2SF7C442MXG1/LM-EL(W)(Y)/26
## DeepinViewX TandemVu 7C Series Panoramic 4 MP 42X DarkFighter Network Speed Dome

Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- Captures a large area and great details at the same time
- High quality imaging with 6 MP resolution for bullet channel
- 24/7 colorful imaging and excellent low-light performance with DarkFighter technology
- Bullet channel tilt adjustable from 12° to 24°
- Secures an expansive area with 42 × optical zoom and 16 × digital zoom
- Expansive night view with up to 30 m white light distance and 300 m IR distance
- Supports deep learning functions
- Water and dust resistant (IP67) and vandal resistant (IK10) excluding glass window
- Smart Pan-Tilt Correction
- Dedicated large scale AI model for perimeter protection

# Specification

| Model | | DS-2SF7C442MXG1/LM-EL(W)(Y)/26 |
|---|---|---|
| **Camera** | Image Sensor | [Bullet channel] 1/2.5" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive Scan CMOS |
| | Min. Illumination | [Bullet channel] Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with light, [PTZ channel] Color: 0.0003 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 lux with IR |
| | Shutter Speed | 1/25 s to 1/30000 s |
| | Slow Shutter | Yes |
| | Day & Night | [Bullet channel] Color, [PTZ channel] IR cut filter |
| | Zoom | [PTZ channel] 42 × optical, 16 × digital |
| | Max. Resolution | [Bullet channel] 3632 × 1632, [PTZ channel] 2688 × 1520 |
| **Lens** | Focus | Auto, semi-auto, manual |
| | Zoom Speed | [Bullet channel] No, [PTZ channel] approx. 1 s |
| | Focal Length | [Bullet channel] 2.8 mm, [PTZ channel] 6 to 252 mm |
| | FOV | [Bullet channel] horizontal field of view: 190° ±10°, vertical field of view: 80° ±10°, diagonal field of view: 198° ± 5°, [PTZ channel] horizontal field of view: 59.1° to 2°, vertical field of view: 34.2° to 1.1°, diagonal field of view: 67.1° to 2.3° |
| | Aperture | [Bullet channel] F1.0, [PTZ channel] F1.2 |
| **Illuminator** | Supplement Light Range | [Bullet channel] white light: up to 30 m, [PTZ channel] IR: up to 300 m |
| | Smart Supplement Light | Yes |
| **PTZ** | Movement Range (Pan) | [PTZ channel] 0° to 360° |
| | Movement Range (Tilt) | [Bullet channel] 12° to 24°, [PTZ channel] -20° to 90° |
| | Pan Speed | [PTZ channel] pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s |
| | Tilt Speed | [Bullet channel] tilt speed configurable, [PTZ channel] tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s |
| | Proportional Pan | [Bullet channel] No, [PTZ channel] Yes |
| | Presets | 300 |
| | Patrol Scan | 8 patrols, up to 32 presets for each patrol |
| | Pattern Scan | 4 pattern scans, record time over 10 minutes for each scan |
| | Power-off Memory | Yes |
| | Park Action | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan |
| | 3D Positioning | Yes |
| | PTZ Status Display | Yes |
| | Preset Freezing | Yes |

| | | |
|---|---|---|
| **Video** | Scheduled Task | Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output |
| | Main Stream | [Bullet channel] 50 Hz: 25 fps (3680 × 1656), 60 Hz: 30 fps (3680 × 1656),[PTZ channel] 50 Hz: 50 fps (2688 × 1520), 60 Hz: 60 fps (1520) |
| | Sub-Stream | [Bullet channel] 50 Hz: 25 fps (704 × 576，640 × 480，352 × 288), 60 Hz: 25 fps (704 × 576，640 × 480，352 × 288),[PTZ channel] 50 Hz: 25 fps (704 × 576，640 × 480，352 × 288), 60 Hz: 30 fps (704 × 576，640 × 480，352 × 288) |
| | Third Stream | [Bullet channel] No,[PTZ channel] 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288), 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| | Video Compression | Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG |
| | Video Bit Rate | 32 Kbps to 16 Mbps |
| | H.264 Type | Baseline profile,Main profile,High profile |
| | H.265 Type | Main profile |
| | Scalable Video Coding (SVC) | H.264 and H.265 encoding |
| | Region of Interest (ROI) | 8 fixed regions for each stream |
| **Audio** | Audio Compression | G.711,G.722.1,G.726,MP2L2,PCM,AAC |
| | Audio Bit Rate | 32 to 192 Kbps (MP2L2),16 to 64 Kbps (AAC) |
| | Audio Sampling Rate | 8 kHz,16 kHz,32 kHz,48 kHz |
| | Environment Noise Filtering | Yes |
| **Network** | API | ISUP,ISAPI,SDK,Open Network Video Interface (Profile S, Profile G, Profile T) |
| | Security | Password protection,complicated password,watermark,control timeout settings,HTTPS encryption,IP address filter,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS,security audit log,host authentication (MAC address),TLS 1.3,TLS 1.2 |
| | Network Storage | NAS (NFS, SMB/CIFS),auto network replenishment (ANR) |
| | Protocols | IPv4/IPv6,HTTP,HTTPS,802.1X,QoS,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP/IP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,FTP |
| | Simultaneous Live View | Up to 20 channels |
| | User/Host | Up to 32 users. 3 user levels: administrator, operator, and user |
| | Client | iVMS-4200,HikCentral Pro,Hik-Connect |
| | Web Browser | Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+； Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+ |
| **Image** | Day/Night Switch | Day,night,auto,schedule |

| | | |
|---|---|---|
| | Image Enhancement | HLC,3D DNR |
| | Wide Dynamic Range (WDR) | [Bullet channel] No, [PTZ channel] 120 dB |
| | Defog | Optical defog |
| | Image Stabilization | EIS |
| | Regional Exposure | Yes |
| | Regional Focus | [Bullet channel] No, [PTZ channel] Yes |
| | Image Settings | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser |
| | Image Parameters Switch | Yes |
| | Privacy Mask | [Bullet channel] No, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable |
| | SNR | ≥ 52 dB |
| **Supplement Detection** | Satellite Positioning | No |
| | Gyroscope | Yes |
| | Compass | No |
| **Interface** | Ethernet Interface | 1 RJ45 100M self-adaptive Ethernet port |
| | On-board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB |
| | Alarm | 7 input(s), 2 output(s) |
| | Audio | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%, 1 output (line out), line level, output impedance: 600 Ω |
| | RS-485 | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) |
| | Reset | Yes |
| **Event** | Basic Event | [PTZ channel & bullet channel] alarm input and output, exception,[PTZ channel] video tampering alarm |
| | Smart Event | intrusion detection,region entrance detection,region exiting detection,Line crossing detection,unattended baggage detection,object removal detection |
| | Linkage | [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan), [Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording |
| | Smart Tracking | [PTZ channel] yes |
| **Deep Learning Function** | Multi-Target-Type Detection | [PTZ channel] Supports simultaneous detection and capture of human body, face and vehicle |
| | People Density | Supports detecting the level of people density in the configured area,[PTZ channel]: no, [Panoramic channel]: yes |

| General | Power | 36 VDC ± 25%, max. 60 W, including max. 6 W for heater and max. 6 W for supplement light of bullet channel, and max. 6 W for heater and max. 15 W for supplement light of PTZ channel |
|---|---|---|
| | General Function | mirror, password protection |
| | Operating Condition | -40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing), For speaker: -30 °C to 55°C (-22°F to 131°F) |
| | Wiper | DS-2SF7C442MXG1/LM-EL(W)(Y)/26:Yes<br>DS-2SF7C442MXG1/LM-EL/26(F0)(海外标配),DS-2SF7C442MXG1/LM-ELY/26(F0)(海外标配):No<br>DS-2SF7C442MXG1/LM-ELW/26(F0)(海外标配),DS-2SF7C442MXG1/LM-ELWY/26(F0)(海外标配),DS-2SF7C442MXG1/LM-ELWY/26(F0)(海外中性):Yes |
| | Demist | Yes |
| | Material | ADC12 |
| | Dimension | Ø260 mm × 382.9 mm (Ø10.24" × 15.07") |
| | Weight | Approx. 7.3 kg (16.1 lb.) |
| | Language | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| Approval | EMC | CE-EMC (EN 50130-4:2011+A1:2014, EN 55032:2015+A11:2020+A1:2020, EN 61000-3-3:2013+A1:2019+A2:2021, EN IEC 61000-3-2:2019+A1:2021) |
| | Safety | CE-LVD (EN 62368-1:2014 + A11:2017),CB (IEC 62368-1:2014) |
| | Environment | CE-RoHS (2011/65/EU and its amendment (EU)2015/863) |
| | Protection | IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013) |
| | Anti-Corrosion Protection | Model with -Y: NEMA 4X (NEMA 250-2018), Model without -Y: No |

## ▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

| DORI | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| [Bullet channel] Distance | 38.6m | 15.3m | 7.7m | 3.9m |
| [PTZ channel] Distance (Tele) | 3475.9m | 1379.3m | 695.2m | 347.6m |

## ▪ Available Model
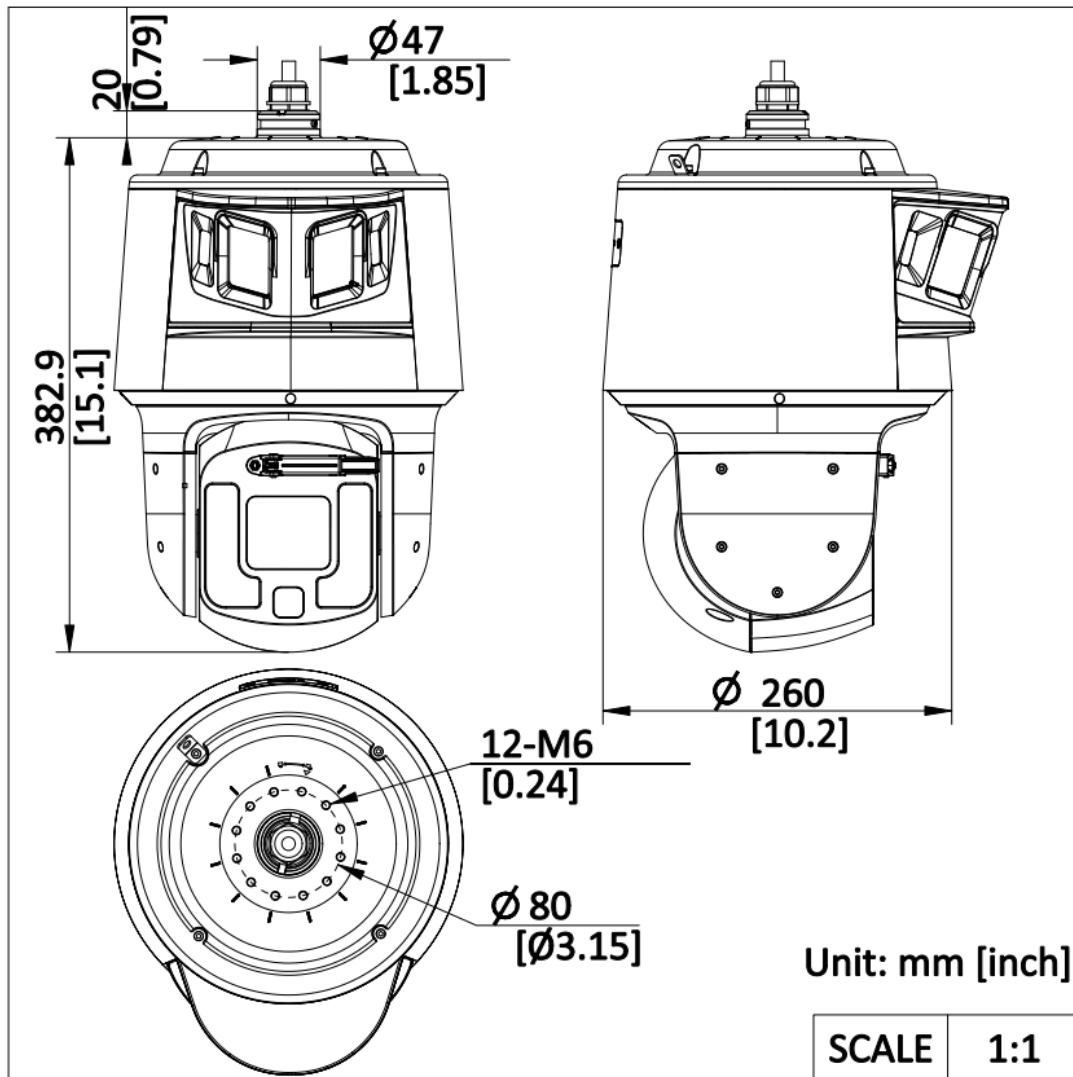
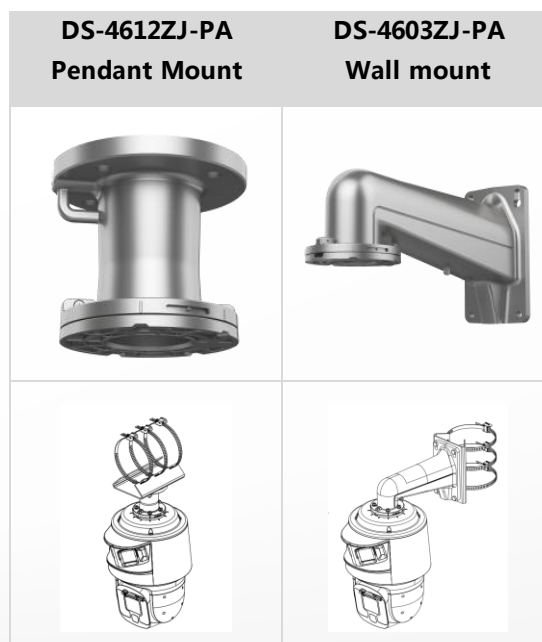DS-2SF7C442MXG1/LM-ELW/26(F0)
DS-2SF7C442MXG1/LM-EL/26(F0)
DS-2SF7C442MXG1/LM-ELY/26(F0)
DS-2SF7C442MXG1/LM-ELWY/26(F0)

## ▪ Dimension

Ø47 [1.85]

20 [0.79]

382.9 [15.1]

12-M6 [0.24]

Ø 80 [Ø3.15]

Ø 260 [10.2]

Unit: mm [inch]

| SCALE | 1:1 |
|---|---|

▪ **Accessory**

▪ **Optional**

| DS-4612ZJ-PA<br>Pendant Mount | DS-4603ZJ-PA<br>Wall mount |
|---|---|
|  |  |
|  |  |

See Far, Go Further