# DS-2SF8C425MXG1-EL/26
# 4 MP 25 × 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 2.0 technology
- Panoramic channel tilt adjustable from 12° to 24°
- Secures an expansive area with 25 × 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
- Audio visual alarm: The white flashing light and audible warning can be triggered by certain events

## ▪ Specification

| | |
|---|---|
| **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,<br>[PTZ channel] Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON), 0 lux with IR |
| Shutter Speed | 1 s to 1/30000 s |
| Slow Shutter | Yes |
| Day & Night | [Panoramic channel] Day,Night,Schedule,Auto, [PTZ channel] Day,Night,Schedule,Auto |
| Zoom | [PTZ channel] 25 × optical, 16 × digital |
| Max. Resolution | [Panoramic channel] 3680 × 1656, [PTZ channel] 2688 × 1520 |
| **Lens** | |
| FOV | [Panoramic channel] horizontal field of view: 190° ± 5°°, vertical field of view: 80° ± 5°, [PTZ channel] horizontal field of view: 58.5° to 3.1°, vertical field of view: 34° to 1.7°, diagonal field of view: 65.8° to 3.5° |
| Focus | Auto,semi-auto,manual |
| Zoom Speed | [Panoramic channel] No, [PTZ channel] approx. 5.6 s |
| Focal Length | [Panoramic channel] 2.8 mm, [PTZ channel] 6 to 150 mm |
| Aperture | [Panoramic channel] F1.0, [PTZ channel] F1.6 |
| **Illuminator** | |
| Supplement Light Range | [Panoramic channel] white light: up to 30 m, [PTZ channel] IR: up to 300 m |
| Smart Supplement Light | Yes |
| **PTZ** | |
| Movement Range (Pan) | 360° endless |
| Movement Range (Tilt) | [Panoramic 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 | [PTZ channel] tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s,[Panoramic channel] tilt speed configurable |
| Proportional Pan | [Panoramic 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 |
| Scheduled Task | Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output |

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| **Video** | |
| Main Stream | [Panoramic channel] 50 Hz: 25 fps (3680 × 1656 ， 3632 × 1632), 60 Hz: 30 fps (3680 × 1656 ， 3632 × 1632)<br>[PTZ channel] 50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 60 fps (2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>*High frame rate is supported under monitoring mode only. |
| Sub-Stream | [PTZ channel] 50 Hz: 25 fps (704 × 576,640 × 480,352 × 288), 60 Hz: 30 fps (704 × 480,640 × 480,352 × 240),[Panoramic channel] 50 Hz: 25 fps (1200 × 536、960x432), 60 Hz: 30 fps (1200 × 536,960 × 432) |
| Third Stream | [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),[Panoramic channel] No |
| Video Compression | Main stream: H.265+/H.265/H.264+/H.264,<br>Sub-stream: H.265/H.264/MJPEG,<br>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-LC,MP3 |
| Audio Bit Rate | 32 to 192 Kbps (MP2L2),16 to 64Kbps (AAC-LC),64 Kbps (G.711),16 Kbps (G.726),16 Kbps (G.722.1),8-48 Kbps (PCM) |
| Audio Sampling Rate | 8 kHz,16 kHz,32 kHz,48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| API | ONVIF (Profile S, Profile G, Profile T, Profile M),ISUP,ISAPI,SDK,OTAP |
| Security | Password protection,complicated password,HTTPS encryption,IP address filter,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),watermark,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 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 required live view: IE8+<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+<br>Local service: Chrome 41.0+, Firefox 30.0+ |
| **Image** | |
| Wide Dynamic Range (WDR) | [Bullet channel] 120 dB, [PTZ channel] 150 dB |
| Day/Night Switch | Day,night,auto,schedule |

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| Privacy Mask | [Panoramic channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable |
| Image Enhancement | HLC,3D DNR |
| Defog | Digital defog |
| Image Stabilization | EIS (Built-in gyroscope to improve EIS performance) |
| Regional Exposure | Yes |
| Regional Focus | [Panoramic 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 |
| SNR | ≥ 52 dB |
| **Supplement Detection** | |
| Satellite Positioning | No |
| Gyroscope | Yes |
| Compass | No |
| **Interface** | |
| On-board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB . |
| Built-in Speaker | 1 built-in speaker |
| Ethernet Interface | 1 RJ45 100M self-adaptive Ethernet port |
| Alarm | 7 input(s), 2 output(s) |
| Audio | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%,<br>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 & panoramic channel] alarm input and output, exception,[PTZ channel] video tampering alarm |
| Smart Event | Line crossing detection,intrusion detection,region entrance detection,region exiting detection,unattended baggage detection,object removal detection,loitering detection,people gathering detection,fast moving detection,parking detection |
| Linkage | [Panoramic channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan) |
| Smart Linkage | Manual tracking, tracking takeover, linked tracking capture |
| **Deep Learning Function** | |
| Face Capture | Detects up to 30 faces simultaneously,<br>Uploads face with background and closed-up face pictures |
| Face Comparison | Up to 10 face libraries. 30000 faces for each library. 150000 faces in total,<br>Recognizes face identity via face modeling, grading and comparing to those in face library,<br>Supports face library encryption |

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| Road Traffic and Vehicle Detection | Smart Function:<br>Support license plate recognition of vehicles and motorcycles (only in checkpoint scenario)<br>Support vehicle attribute detection, including vehicle type, color, brand, driving direction, etc.<br>Support vehicle and non-vehicle counting<br>Blocklist and allowlist: up to 10,000 records<br>LPR Countries/Regions:<br>4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions<br>Accuracy (Under recommended installation and lighting conditions):<br>License plate recognition rate ≥98%<br>Capture rate ≥99%<br>Driving direction accuracy rate ≥98%<br>Vehicle Capture Speed:<br>Front installation in checkpoint scenario: up to 120 km/h<br>Side installation: up to 80 km/h<br>Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode |
| Multi-Target-Type Detection | Supports simultaneous detection and capture of human body, face and vehicle,<br>Gets 7 face features, 14 human body features and 8 vehicle features |
| Perimeter Protection | Line crossing detection, region entrance detection, intrusion detection, region exiting detection |
| **Linkage and Tracking** | |
| Smart Tracking | Manual tracking, auto-tracking 3.0 |
| Object Tracking | Support person arming. When the device detects the armed face or human body in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded.Support vehicle arming. When the device detects the armed vehicles in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded. |
| **General** | |
| General Function | mirror,password protection |
| Power | 36V, 2.5 A, PoE(802.3 bt), 42.5 to 57 V, 1.76 A |
| 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 | Yes |
| Demist | Yes |
| Material | ADC12 |
| Dimension | Ø290 mm × 453.2 mm (Ø11.42" × 17.84") |
| Weight | Approx. 10.5 kg ( 23.15 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 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014),RCM (AS/NZS CISPR 32: 2015),IC (ICES-003: Issue 7) |
| Safety | CB (IEC 62368-1: 2014 + A11),CE-LVD (EN 62368-1: 2014/A11: 2017) |

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|---|---|
| Environment | CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No 1907/2006) |
| Protection | IP67 (IEC 60529-2013),TVS 6000 V lightning protection, surge protection and voltage transient protection,IK10 (IEC 62262:2002, excluding glass window) |
| Anti-Corrosion Protection | No |

## ▪ DORI

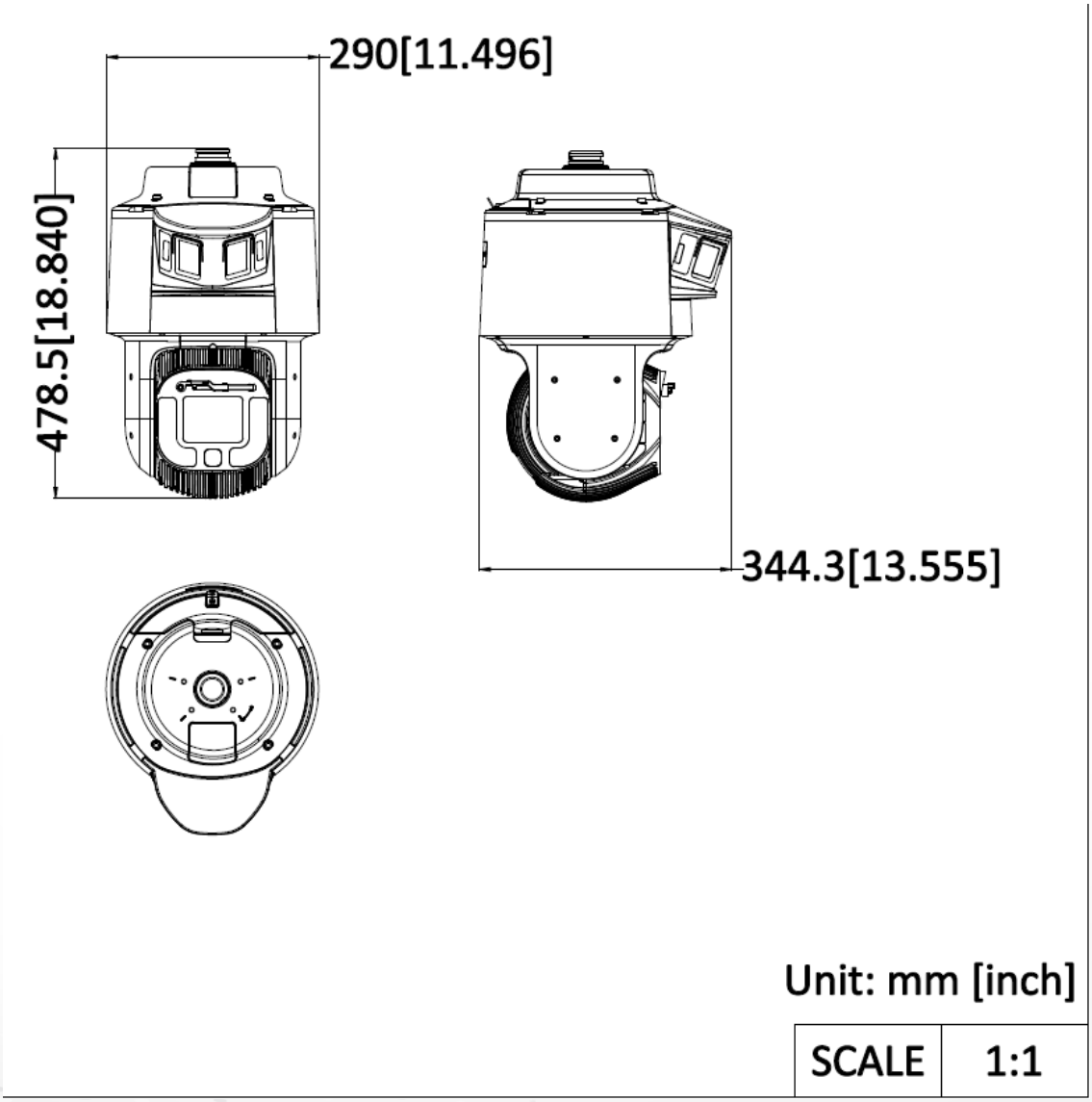
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62 676-4: 2015.

| DORI | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| [Bullet channel] Distance | 77.0m | 30.5m | 15.4m | 7.7m |
| [PTZ channel] Distance (Tele) | 2965.5m | 1176.8m | 593.1m | 296.6m |

## ▪ Available Model

DS-2SF8C425MXG1-EL/26(F0)

## ▪ Dimension



## ▪ Accessory

### ▪ Optional

| DS-2115ZJ-P | DS-1684ZJ-P | DS-4604ZJ-PA | DS-4614ZJ-PA |
|---|---|---|---|
|  |  |  |  |

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