# DS-2DF6C425IWG1-EL(B)

## DF6C Series 4MP 25X Powered by DarkFighter IR Network Speed Dome

Hikvision 4 MP 25× Network IR Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 25 × optical zoom lens, the camera offers more details over expansive areas.
This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.
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 protection capability and protect your devices as well as your data from malicious cyber attacks.

- 1/2.8" progressive scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter 2.0 technology
- Clear imaging against strong back light due to 120 dB AWDR technology
- 25 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Expansive night view with up to 250 m IR distance
- Water and dust resistant (IP67) and vandal proof (IK10) excluding glass window
- Supports face capture to detect, capture, grade, and select faces in motion

## ▪ Specification

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|---|---|
| **Camera** | |
| Image Sensor | 1/2.8" Progressive Scan CMOS |
| Min. Illumination | Color: 0.005 Lux @ (F1.6, AGC ON),B/W: 0.001 Lux @ (F1.6, AGC ON),0 Lux with IR |
| Shutter Speed | 1/1 s to 1/30,000 s |
| Slow Shutter | Yes |
| Day & Night | IR cut filter |
| Zoom | 25 × optical,16 × digital |
| Max. Resolution | 2688 × 1520 |
| **Lens** | |
| Focus | Auto, semi-auto, manual, rapid focus |
| Focal Length | 5 to 125 mm |
| Zoom Speed | Approx. 4.5 s |
| FOV | Horizontal field of view: 57.7° to 2.9°, vertical field of view: 33.2° to 1.6°, diagonal field of view: 65.2° to 3.3° |
| Aperture | Max. F1.6 |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | IR distance: up to 250 m |
| Smart Supplement Light | Yes |
| **PTZ** | |
| Movement Range (Pan) | 360° |
| Movement Range (Tilt) | -20° to 90°,auto flip |
| Pan Speed | Pan speed: configurable from 0.1° to 300°/s, preset speed: 400°/s |
| Tilt Speed | Tilt speed: configurable from 0.1° to 200°/s, preset speed 300°/s |
| Proportional Pan | 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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| **DORI** | |
| O2DCPVS | Wide: Overview: 125 m, Outline: 62.5 m, Discern: 31.3 m, Perceive: 20.0 m, Characterize: 10.0 m, Validate: 5.0 m, Scrutinize: 1.7 m<br>Tele: Overview: 3125.0 m, Outline: 1562.5 m, Discern: 781.3 m, Perceive: 500.0 m, Characterize: 250.0 m, Validate: 125.0 m, Scrutinize: 41.7 m<br>The OODPCVS values are calculated using pixel densities for different use cases as recommended by the IEC/EN 62676-4: 2025 standard. IEC 62676-4:2025 describes the planning, design, installation, testing, commissioning, and maintaining of video surveillance systems (VSS) comprising image capture device(s), interconnection(s) and image handling device(s), for use in security applications within private or public spaces. |
| **Video** | |
| Main Stream | 50 Hz: 50 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 60 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>*High frame rate is supported under monitoring mode only. |
| Sub-Stream | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)<br>*High frame rate is supported under monitoring mode only. |
| 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 |
| Third Stream | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)<br>*High frame rate is supported under monitoring mode only. |
| Video Bit Rate | 32 Kbps to 16384 Kbps |
| 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 |
| Target Cropping | No |
| **Audio** | |
| Audio Compression | G.711,G.722.1,G.726,MP2L2,PCM,MP3,AAC |
| Audio Bit Rate | 64 Kbps (G.711ulaw/G.711alaw),16 Kbps (G.722.1),16 Kbps (G.726),32 to 192 Kbps (MP2L2),16 to 64 Kbps (AAC),8 to 320 Kbps (MP3) |
| Audio Sampling Rate | MP2L2: 16kHz, 32kHz, 48kHz,AAC-LC: 16kHz, 32kHz, 48kHz,PCM: 8kHz, 16kHz, 32kHz, 48kHz,MP3: 8kHz, 16KHz, 32KHz, 48KHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| Smooth Streaming | Yes |
| Network Storage | NAS (NFS, SMB/ CIFS), ANR |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour |
| API | ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T, Profile M) , OTAP |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users. 3 levels: Administrator, Operator and User |

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| Security | Password protection,complicated password,HTTPS encryption,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),watermark,IP address filter,basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS,control timeout settings,security audit log,TLS 1.3,host authentication (MAC address) |
| Client | HikCentral, iVMS-4200, Hik-Connect |
| Web Browser | IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+ |
| **AI Open Platform** | |
| Model Specification | Model type for AI Open Platform trained algorithm loading: high-performance model (small model).↵Supports 4 model packages, each capable of detecting 16 target types and classifying 1 target. The targets can be classified as 64 types. The device runs only 1 model at the same time. |
| Task Type | Algorithm type for AI Open Platform high-performance model (small model): Detection, Classification. |
| Event Type | Region target exception status detection, region target number counting, area overlap ratio counting, area overlap ratio exception detection, line crossing target detection, line crossing target counting, full analysis rule, combined rule |
| Rule Setting | Up to 16 rules. |
| **Wireless (Mobile Communication)** | |
| SIM | No |
| **Image** | |
| Image Parameters Switch | Yes |
| Image Settings | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser |
| Wide Dynamic Range (WDR) | 150 dB |
| Day/Night Switch | Day,night,auto,schedule |
| Image Enhancement | BLC, HLC, 3D DNR |
| Defog | Digital defog |
| Image Stabilization | Yes. Built-in gyroscope to improve EIS performance. |
| Regional Exposure | Yes |
| Regional Focus | Yes |
| Privacy Mask | Up to 24 masks, polygon region, mosaic mask, mask color configurable |
| SNR | ≥ 52 dB |
| **Supplement Detection** | |
| Gyroscope | Yes |
| Satellite Positioning | No |
| Compass | No |
| **Interface** | |
| Reset | Yes |
| Ethernet Interface | 1 RJ45 10M/100M self-adaptive Ethernet port |
| On-board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB |
| Alarm | 7 inputs, 2 outputs |
| 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 |
| Video Output | No |
| RS-485 | Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive |

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| **Event** | |
| Basic Event | Motion detection,video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error),alarm input and output,vandal-proof alam,audio exception detection,unattended baggage detection, object removal detection |
| Smart Event | loitering detection,people gathering detection,fast moving detection,parking detection |
| Linkage | Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,and PTZ actions (such as preset, patrol scan, pattern scan) |
| **Deep Learning Function** | |
| Perimeter Protection | Intrusion Detection,Line Crossing Detection,Region Entrance Detection,Region Exiting Detection |
| Multi-Target-Type Detection | Supports simultaneous detection and capture of human body, face and vehicle |
| **Linkage and Tracking** | |
| Smart Tracking | Manual tracking, auto-tracking |
| **General** | |
| Vandal-proof Alarm | No |
| Heater | Yes |
| Wiper | No |
| De-icing | No |
| Demist | Yes |
| General Function | Mirror, password protection, watermark, IP address filter |
| Power | 36 VDC± 25%, max. 60 W (Max. 45 W, including max. 7 W for IR and max. 8 W for heater) PoE 802.3bt, type3, class5, max. 45W (Max. 45 W, including max. 7 W for IR and max. 8 W for heater) |
| Operating Condition | -40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing) |
| Dimension | Ø218.4 mm × 324.5 mm (Ø8.6" × 12.77") |
| Weight | Approx. 5 kg (11.02 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) |
| Safety | CB (IEC 62368-1: 2014 + A11),CE-LVD (EN 62368-1: 2014/A11: 2017) |
| Environment | CE-RoHS (2011/65/EU);<br>WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006) |
| Protection | IP67 (IEC 60529-2013),IK10 (IEC 62262:2002) |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in |

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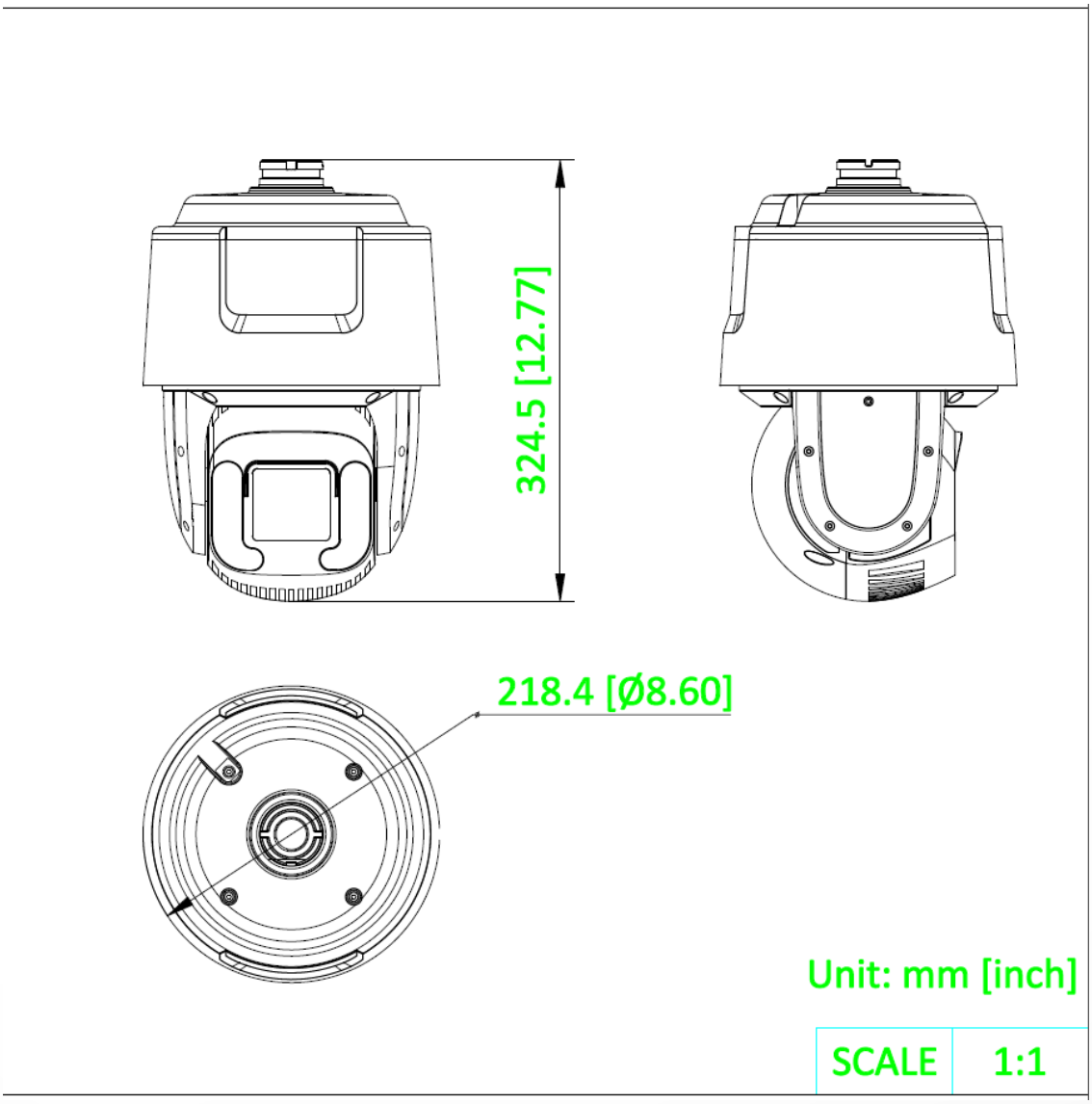
| | areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed. |

## ▪ Dimension




## ▪ Accessory

### ▪ Optional

| DS-1663ZJ | DS-1604ZJ-BOX-CORNER | DS-1661ZJ | DS-1673ZJ | DS-1604ZJ-corner |
|---|---|---|---|---|

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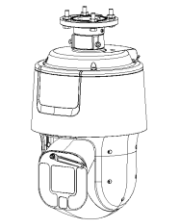
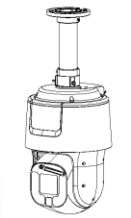
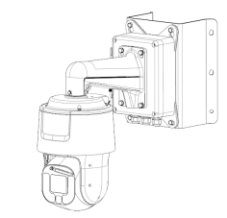
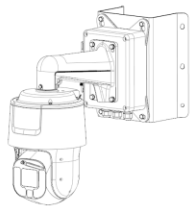
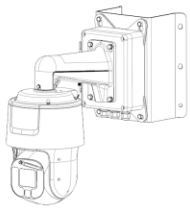
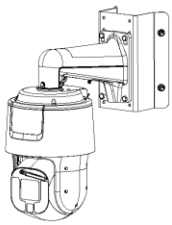
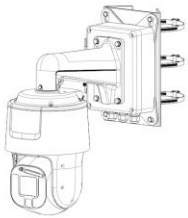
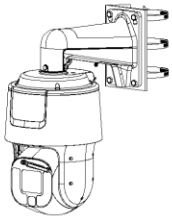
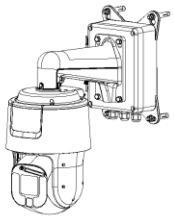
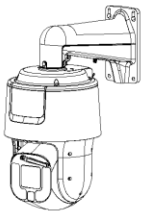
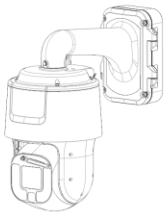
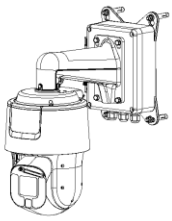
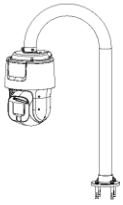
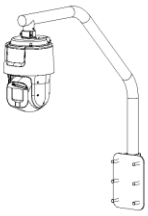
| | | | | |
| DS-4660ZJ-WC | DS-4650ZJ-WC | DS-1674ZJ | DS-1604ZJ-BOX-POLE | DS-1662ZJ |
| | | | | |
| DS-1602ZJ | DS-1604ZJ | DS-1684ZJ | DS-1604ZJ-pole | DS-1619ZJ |
| | | | | |
| DS-1604ZJ-box | DS-1667ZJ | DS-1660ZJ | DS-1276ZJ | |
| | | | | |

▪ **Installation Methods**

| Pendant Mounting DS-1663ZJ | Pendant Mounting DS-1661ZJ | Pendant Mounting DS-1662ZJ | Pendant Mounting DS-1667ZJ | Corner Mounting DS-1604ZJ-BOX-CORNER |
|---|---|---|---|---|
|  |  | | |  |

| Corner Mounting DS-1604ZJ-corner | Corner Mounting DS-4660ZJ-WC+DS-1602ZJ+DS-1674ZJ | Corner Mounting DS-1276ZJ+DS-1602ZJ | Horizontal Pole Mounting DS-1673ZJ+DS-1662ZJ | Vertical Pole Mounting DS-4650ZJ-WC+DS-1674ZJ+DS-1602ZJ |
|---|---|---|---|---|
|  |  |  | | |
| **Vertical Pole Mounting DS-1604ZJ-BOX-POLE** | **Vertical Pole Mounting DS-1684ZJ+DS-1602ZJ** | **Vertical Pole Mounting DS-1604ZJ-pole** | **Junction Box DS-1674ZJ+DS-1602ZJ** | **Wall Mounting DS-1602ZJ** |
|  |  | |  |  |
| **Wall Mounting DS-1604ZJ** | **Wall Mounting DS-1604ZJ-box** | **Gooseneck Mounting DS-1619ZJ** | **Gooseneck Mounting DS-1660ZJ** | |
|  |  |  |  | |

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