

## DS-2DF5225X-AEL(T5) 2 MP 25 × Network Speed Dome

DarkFighter



Hikvision DS-2DF5225X-AEL(T5) 2 MP 25 × Network 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.

- 1/2.8" progressive scan CMOS
- High quality imaging with 2 MP resolution
- Excellent low-light performance with DarkFighter technology
- 25 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- 120 dB WDR, 3D DNR, HLC
- Water and dust resistant (IP66) and vandal resistant (IK10)



## ▪ 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           |
| Distance (Tele) | 1598.6 m (5244.8 ft) | 634.4 m (2081.4 ft) | 319.7 m (1048.9 ft) | 159.9 m (524.6 ft) |

## ▪ Specification

| Camera                |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/2.8" progressive scan CMOS                                                                                                                                  |
| Min. Illumination     | Color: 0.002 Lux @ (F1.2, AGC ON), B/W: 0.0002 Lux @ (F1.2, AGC ON)                                                                                           |
| Shutter Speed         | 1 to 1/30,000 s                                                                                                                                               |
| Day & Night           | IR cut filter                                                                                                                                                 |
| Zoom                  | 25 × optical, 16 × digital                                                                                                                                    |
| Max. Resolution       | 1920 × 1080                                                                                                                                                   |
| Lens                  |                                                                                                                                                               |
| Focus                 | Auto, semi-auto, manual                                                                                                                                       |
| Focal Length          | 4.8 mm to 120 mm                                                                                                                                              |
| Zoom Speed            | Approx. 4.8 s                                                                                                                                                 |
| FOV                   | Horizontal field of view: 58.4° to 2.7° (wide-tele)<br>Vertical field of view: 33.8° to 1.5° (wide-tele)<br>Diagonal field of view: 65.6° to 3.1° (wide-tele) |
| Aperture              | Max. F1.2                                                                                                                                                     |
| PTZ                   |                                                                                                                                                               |
| Movement Range (Pan)  | 360°                                                                                                                                                          |
| Movement Range (Tilt) | -5° to 90° (auto flip)                                                                                                                                        |
| Pan Speed             | Pan speed: configurable from 0.1° to 300°/s; preset speed: 540°/s                                                                                             |
| Tilt Speed            | Tilt speed: configurable from 0.1° to 240°/s, preset speed 400°/s                                                                                             |
| Proportional Pan      | Yes                                                                                                                                                           |
| Presets               | 300                                                                                                                                                           |
| Patrol Scan           | 8 patrols                                                                                                                                                     |
| Pattern Scan          | 4 pattern scans                                                                                                                                               |
| 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                         |
| Video                 |                                                                                                                                                               |
| Main Stream           | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)                                                    |

|                             |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sub-Stream                  | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                                                         |
| 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)                               |
| 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                                                                                                 |
| 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                                                                                                                                                                            |
| <b>Audio</b>                |                                                                                                                                                                                                            |
| Audio Compression           | G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM                                                                                                                                                           |
| <b>Network</b>              |                                                                                                                                                                                                            |
| Protocols                   | IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour                                                                 |
| Simultaneous Live View      | Up to 20 channels                                                                                                                                                                                          |
| API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK                                                                                                                                 |
| User/Host                   | Up to 32 users. 3 user levels: administrator, operator, and user                                                                                                                                           |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication, watermark, IP address filter, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address) |
| Client                      | iVMS-4200, HikCentral, Hik-Connect                                                                                                                                                                         |
| Web Browser                 | IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Safari 11+                                                                                                                                                        |
| <b>Image</b>                |                                                                                                                                                                                                            |
| Image Settings              | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser                                                                                          |
| Defog                       | Optical defog                                                                                                                                                                                              |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                           |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                     |
| Image Stabilization         | EIS                                                                                                                                                                                                        |
| Regional Exposure           | Yes                                                                                                                                                                                                        |
| Regional Focus              | Yes                                                                                                                                                                                                        |
| Privacy Mask                | 24 programmable polygon privacy masks, mask color or mosaic configurable                                                                                                                                   |
| <b>Interface</b>            |                                                                                                                                                                                                            |
| 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 256 GB                                                                                                                          |
| Alarm                       | 7 inputs, 2 outputs                                                                                                                                                                                        |
| Audio                       | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ $\pm$ 10%; 1 output (line out), line level, output impedance: 600 $\Omega$                                               |
| RS-485                      | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)                                                                                                                                         |
| <b>Event</b>                |                                                                                                                                                                                                            |
| Basic Event                 | Motion detection, video tampering alarm, exception, alarm input and output                                                                                                                                 |

|                                           |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Event                               | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection                                                                                                                                                       |
| Smart Tracking                            | Manual tracking, auto-tracking                                                                                                                                                                                                                                                                                                             |
| Alarm Linkage                             | 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)                                                                                                                                                                |
| <b>Deep Learning Function</b>             |                                                                                                                                                                                                                                                                                                                                            |
| Face Capture                              | Detects up to 30 faces simultaneously.<br>Supports detecting, capturing, grading, selecting of face in motion, and outputs the best face picture                                                                                                                                                                                           |
| <b>Road Traffic and Vehicle Detection</b> |                                                                                                                                                                                                                                                                                                                                            |
| Road Traffic                              | Supports vehicle detection                                                                                                                                                                                                                                                                                                                 |
| <b>General</b>                            |                                                                                                                                                                                                                                                                                                                                            |
| Power                                     | 24 VAC, 3.0 A, 50/60Hz (Max. 60 W, including max. 40 W for heater), Hi-PoE, 42.5 to 57 V, 1.41 A (Max. 50 W, including max. 20 W for heater)                                                                                                                                                                                               |
| Operating Condition                       | -40°C to 70°C (-40°F to 158°F), Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                      |
| Dimension                                 | Ø 220.3 mm × 301.5 mm (Ø 8.67" × 11.87")                                                                                                                                                                                                                                                                                                   |
| Weight                                    | Approx. 4 kg (8.82 lb.)                                                                                                                                                                                                                                                                                                                    |
| Language                                  | 32 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) |
| <b>Approval</b>                           |                                                                                                                                                                                                                                                                                                                                            |
| EMC                                       | FCC SDoC (47 CFR Part 15, Subpart B);<br>CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);<br>RCM (AS/NZS CISPR 32: 2015);<br>IC VoC (ICES-003: Issue 6, 2019);<br>KC (KN 32: 2015, KN 35: 2015)                                                                                                |
| Safety                                    | UL (UL 62368-1)<br>CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);<br>CE-LVD (EN 62368-1:2014+A11:2017),<br>BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);<br>LOA (SANS IEC60950-1)                                                                                                                                         |
| Environment                               | CE-RoHS (2011/65/EU); WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006)                                                                                                                                                                                                                                                           |
| Protection                                | IP66 (IEC 60529-2013), IK10 (IEC 62262:2002), Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5                                                                                                                                                                   |

## ▪ Available Model

DS-2DF5225X-AEL(T5)

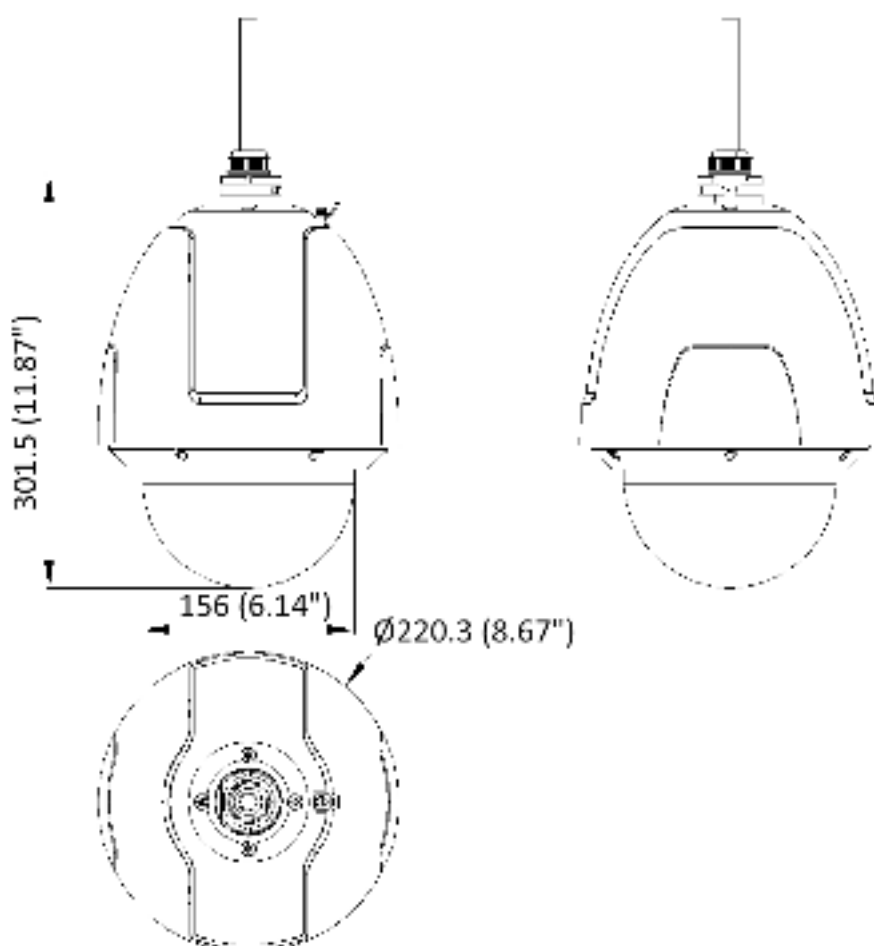
## ▪ Typical Application

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 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



Unit: mm (inch)

▪ Accessory

▪ Optional

| DS-1682ZJ                                                                           | DS-1660ZJ                                                                           | DS-1662ZJ                                                                           | DS-1681ZJ-2                                                                        | DS-1663ZJ                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |    |    |  |  |
| DS-1604ZJ-BOX-POLE                                                                  | DS-1667ZJ                                                                           | DS-1681ZJ                                                                           | DS-1604ZJ-BOX-Corner                                                               | DS-1673ZJ                                                                           |
|    |    |    |  |  |
| DS-1661ZJ                                                                           | DS-1604ZJ-BOX                                                                       | DS-1619ZJ                                                                           |                                                                                    |                                                                                     |
|  |  |  |                                                                                    |                                                                                     |

Distributed by



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