Hikvision DS-2DF6A225X-AEL 2 MP 25 × Network Speed Dome adopts 1/1.8" 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.

- 1/1.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- Min. Illumination
  - Color: 0.002 Lux @ (F1.5, AGC ON)
  - B/W: 0.0002 Lux @ (F1.5, AGC ON)
- 25 × optical zoom, 16 × digital zoom
- 140 dB WDR, 3D DNR, HLC
- 24 VAC & Hi-PoE
- Support H.265+/H.265 video compression
- Support vandal-proof alarm
- Support face capture to detect, track, capture, grade, and select face in motion
- Support road traffic to detect vehicles, including license plate number, vehicle model, and vehicle color
- Rapid focus
- IP67, IK10

www.hikvision.com
## Specifications

### Camera Module

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/1.8” progressive scan CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color: 0.002 Lux @ (F1.5, AGC ON) B/W: 0.0002 Lux @ (F1.5, AGC ON)</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1/1 s to 1/30,000 s</td>
</tr>
<tr>
<td>Focus</td>
<td>Semi-Auto, Manual, Auto</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>ICR</td>
</tr>
<tr>
<td>BLC</td>
<td>Yes</td>
</tr>
<tr>
<td>WDR</td>
<td>140 dB WDR</td>
</tr>
<tr>
<td>HLC</td>
<td>Yes</td>
</tr>
<tr>
<td>3D DNR</td>
<td>Yes</td>
</tr>
<tr>
<td>EIS</td>
<td>Yes. Built-in gyroscope to improve EIS performance.</td>
</tr>
<tr>
<td>Regional Exposure</td>
<td>Yes</td>
</tr>
<tr>
<td>Regional Focus</td>
<td>Yes</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>16 x</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>25 x</td>
</tr>
<tr>
<td>Privacy Mask</td>
<td>Up to 24 masks, polygon region, mosaic mask, mask color configurable</td>
</tr>
<tr>
<td>General Function</td>
<td>Mirror, Password Protection, Watermark, IP Address Filter</td>
</tr>
</tbody>
</table>

### Lens

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal Length</td>
<td>5.9 mm to 147.5 mm, 25 x Optical</td>
</tr>
<tr>
<td>Zoom Speed</td>
<td>Approx. 4.8 s (optical, wide-tele)</td>
</tr>
<tr>
<td>FOV</td>
<td>Horizontal field of view: 59.8° to 3.3° (wide-tele), Vertical field of view: 33.7° to 1.9° (wide-tele), Diagonal field of view: 65° to 3.8° (wide-tele)</td>
</tr>
<tr>
<td>Aperture</td>
<td>F1.5 to F3.4</td>
</tr>
</tbody>
</table>

### PTZ

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement Range (Pan)</td>
<td>360°</td>
</tr>
<tr>
<td>Movement Range (Tilt)</td>
<td>-20° to 90° (auto flip)</td>
</tr>
<tr>
<td>Pan Speed</td>
<td>Configurable from 0.1° to 300°/s. Preset speed: 540°/s</td>
</tr>
<tr>
<td>Tilt Speed</td>
<td>Configurable from 0.1° to 240°/s. Preset speed: 400°/s</td>
</tr>
<tr>
<td>Proportional Zoom</td>
<td>Yes</td>
</tr>
<tr>
<td>Presets</td>
<td>300</td>
</tr>
<tr>
<td>Patrol Scan</td>
<td>8 patrols</td>
</tr>
<tr>
<td>Pattern Scan</td>
<td>4 pattern scans</td>
</tr>
<tr>
<td>Power-off Memory</td>
<td>Yes</td>
</tr>
<tr>
<td>Park Action</td>
<td>Preset, Pattern Scan, Patrol Scan, Auto Scan, Tilt Scan, Random Scan, Frame Scan, Panorama Scan</td>
</tr>
<tr>
<td>3D Positioning</td>
<td>Yes</td>
</tr>
<tr>
<td>PTZ Status Display</td>
<td>Yes</td>
</tr>
<tr>
<td>Preset Freezing</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Scheduled Task
- Preset, Pattern Scan, Patrol Scan, Auto Scan, Tilt Scan, Random Scan, Frame Scan, Panorama Scan, Dome Reboot, Dome Adjust, Aux Output

Vandal-proof Alarm
Yes

**Video**

Max. Resolution
1920 × 1080

Main Stream
- 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
- 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)

Sub-Stream
- 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)
- 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)

Third Stream
- 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)
- 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)

Video Compression
H.265, H.264, MJPEG

H.264 Type
- baseline profile, main profile, high profile

H.265 Type
main profile

H.264+
Yes

H.265+
Yes

SVC
Yes

ROI
dynamic face tracking, dynamic license plate tracking, dynamic target tracking

**Audio**

Audio Compression
G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM

**Smart Features**

Face Capture
Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.

Road Traffic
Support vehicle detection (license plate number, vehicle model, and vehicle color recognition)

Basic Event
Motion Detection, Video Tampering Alarm, Alarm Input and Output

Smart Event
- Unattended Baggage Detection
- Object Removal Detection
- Intrusion Detection
- Line Crossing Detection
- Region Entrance Detection
- Region Exiting Detection
- Audio Exception Detection

Smart Tracking
Manual Tracking, Event Tracking, Auto-Tracking

Smart Record
ANR, Dual-VCA

Alarm Linkage
Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.

Perimeter Protection
Line crossing, intrusion, region entrance, region exiting
Support alarm triggering by specified target types (human and vehicle)

**Network**

Client
iVMS-4200, Hik-Connect, HikCentral

Web Browser
IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Safari 11+

**Network 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**
ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Simultaneous Live View | Up to 20 channels
---|---
User/Host | Up to 32 users, 3 levels: Administrator, Operator and User
Security Measures | User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering

### Interface

Communication Interface | 1 RJ45 10 M/100 M Ethernet Interface; Hi-PoE
---|---
On-board Storage | Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR
Alarm Input | 7 alarm inputs
Alarm Output | 2 alarm outputs
Audio Input | 1 audio input, 2.0 to 2.4 Vp-p, 1k Ohm ± 10%
Audio Output | 1 audio output, line level, impedance: 600 Ω
Video Output | 1.0 V [p-p]/75 Ω, PAL, NTSC, BNC connector
RS-485 | HIKVISION, Pelco-P, Pelco-D, self-adaptive

### General

Power | 24 VAC (max. 60 W, including max. 10 W for heater), Hi-PoE (max. 50 W, including max. 10 W for heater)
---|---
Operating Conditions | Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 90%
Dimensions | Ф 231.1 mm × 355.6 mm (Ф 9.10” × 14”)
Weight | Approx. 6 kg (13.23 lb)
Web Client 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)

### Approval

Protection | Lightning Protection, Surge Protection and Voltage Transient Protection, ±6 kV Line to Gnd, ± 3kV Line to Line, IEC61000-4-5, IP67 Standard, 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.

<table>
<thead>
<tr>
<th>DORI</th>
<th>Detect</th>
<th>Observe</th>
<th>Recognize</th>
<th>Identify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Definition</td>
<td>25 px/m</td>
<td>63 px/m</td>
<td>125 px/m</td>
<td>250 px/m</td>
</tr>
<tr>
<td>Distance (Tele)</td>
<td>2034.5 m (6674.9 ft)</td>
<td>807.3 m (2648.6 ft)</td>
<td>406.9 m (1335.0 ft)</td>
<td>203.4 m (667.3 ft)</td>
</tr>
</tbody>
</table>

### Available Model

DS-2DF6A225X-AEL (T3), 24 VAC & Hi-PoE
Dimensions

Accessory

Included

Installation Adapter

Optional

DS-1604ZJ-Corner-P Corner Mount

DS-1673ZJ-P Horizontal Pole Mount

DS-1663ZJ-P Ceiling Mount

DS-1667ZJ-P Pendant Mount

DS-1662ZJ-P Pendant Mount

DS-1682ZJ-P Extension Bar for Pendant Mount

DS-1604ZJ-BOX-POLE-P Vertical Pole Mount

DS-1604ZJ-Pole-P Vertical Pole Mount
TEAC-66-243000V (EU)
MKAC-66-243000U (USA)
TEAC-66-243000VB (UK)
Power adapter

LAS60-57CN-RJ45
Hi-PoE Midspan