

## DS-2DF8225IH-AEL(W) (D) 2MP 25× IR Network Speed Dome

DarkFighterX



Hikvision DS-2DF8225IH-AEL(W) 2MP 25× IR Network Speed Dome is a DarkfighterX series camera that adopts the patented dual-sensor design to process color and brightness independently, and outputs one FULL-COLOR image.

### Key Features

- Dual-sensor, 1/2.8" Progressive Scan CMOS
- Full-color image output
- Up to 1920 × 1080 resolution
- Min. illumination:  
Color: 0.0004 Lux @(F1.5, AGC ON)  
B/W: 0.0001 Lux @(F1.5, AGC ON)  
0 Lux with IR
- 25× Optical Zoom, 16× Digital Zoom
- Support H.265+/H.265 video compression
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection
- 120 dB WDR, 3D DNR, HLC, BLC
- Up to 150 m IR distance, smart IR
- 24 VAC & Hi-PoE
- Optical defog
- Wiper, optional
- IP67



## Specification

Camera Module	
Image Sensor	Two 1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.0004 Lux @(F1.5, AGC ON) B/W: 0.0001Lux @(F1.5, AGC ON) 0 Lux with IR
White Balance	Auto/Manual/ATW (Auto Tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp
AGC	Auto/Manual
Shutter Time	1/1 s to 1/30,000 s
Day & Night	Controlled by dual-sensor
Digital Zoom	16×
Privacy Mask	24 programmable polygon privacy masks
Focus Mode	Auto/Semi-automatic/Manual
WDR	120 dB
Lens	
Focal Length	4.8 mm to 120 mm, 25× Optical
Zoom Speed	Approx. 4.4 s (optical lens, wide-tele)
FOV	Horizontal field of view: 58.2° to 3.2° (wide-tele) Vertical field of view: 32.7° to 1.8° (wide-tele) Diagonal field of view: 66.8° to 3.7° (wide-tele)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.5 to F3.5
IR	
IR Distance	Up to 150 m
Smart IR	Support
PTZ	
Movement Range (Pan)	360° endless
Pan Speed	Configurable, from 0.1°/s to 210°/s, Preset Speed: 280°/s
Movement Range (Tilt)	From -20° to 90°
Tilt Speed	Configurable, from 0.1°/s to 150°/s, Preset Speed: 250°/s
Proportional Zoom	Support
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	Support
Park Action	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
PTZ Position Display	ON/OFF
Preset Freezing	Support
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output
Compression Standard	
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
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Support
H.265 Type	Main Profile

H.265+	Support
Video Bitrate	256 kbps to 16384 kbps
Audio compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Audio Bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)
SVC	Support
<b>Smart Features</b>	
Perimeter Protection	Intrusion, Line Crossing, Region Entrance, Region Exiting Support alarm triggering by specified target types (human and vehicle) Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.
Event Detection	Face Detection, Audio Exception Detection, Motion Detection, Video Tampering Detection, Exception (Network Disconnected, IP Address Conflict, HDD Full, HDD Error, Illegal Login)
Smart Tracking	Event Tracking, supports tracking in multiple detection scenes
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
ROI	Support
<b>Image</b>	
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)
Image Enhancement	HLC, BLC, 3D DNR, Optical Defog, Regional Exposure, Regional Focus
SVC	Support
<b>Network</b>	
Network Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NPS, SMB/CIFS), ANR
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.
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
API	Open-ended, support ONVIF and CGI, support HIKVISION SDK and Third-Party Management Platform
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
Client	iVMS-4200
Web Browser	IE 8 to 11, Chrome 31.0 to 44, Firefox 30.0 to 51
<b>Interface</b>	
Alarm Interface	7-ch alarm input/2-ch alarm output
Audio Interface	1-ch audio input (applicable microphone, plug-in power type), 2 to 2.4 V[p-p], 1 K $\Omega$ $\pm$ 10% 1-ch audio output, line level, impedance: 600 $\Omega$
Network Interface	1 RJ45 10 M/100 M Ethernet Interface, Hi-PoE
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
BNC	1.0 V [p-p]/75 $\Omega$ , NTSC (or PAL) composite, BNC
<b>General</b>	

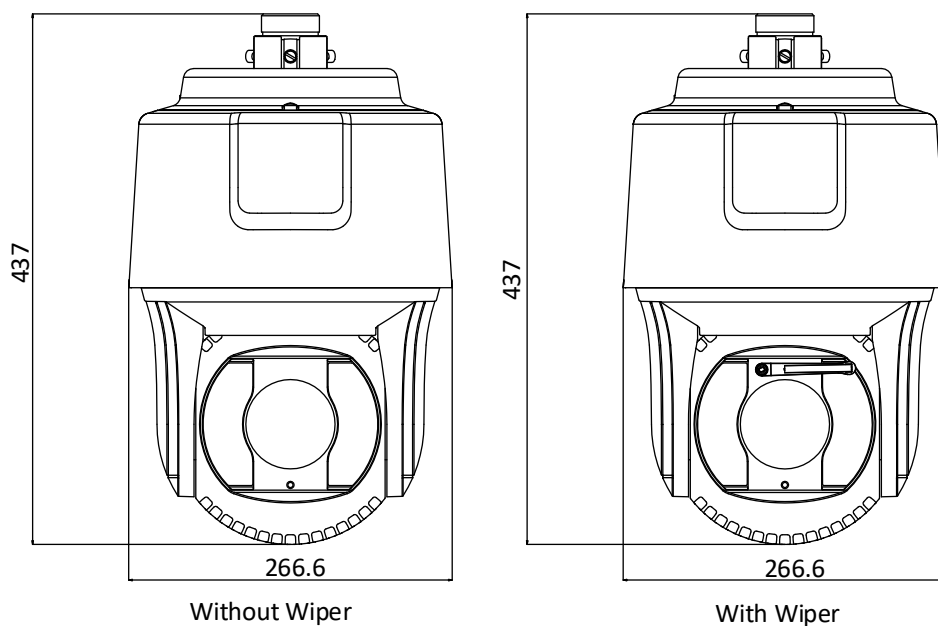
Power	Without wiper: 24 VAC, max. 68 W (max. 12 W for heater, and max. 15 W for IR), Hi-PoE, max. 60 W With wiper: 24 VAC max. 70 W (max. 12 W for heater, and max. 15 W for IR), Hi-PoE, max. 60 W
Working Environment	Temperature: -40°C to 70°C (-40°F to 158°F) Humidity: ≤ 90%
Wiper	Optional
Protection Level	IP67 Standard. Lightning protection, surge protection and voltage transient protection meets IEC61000-4-2-2/3/4/5/6
Material	Aluminum alloy
Dimensions	Φ 266.6 mm × 437 mm (Φ 10.50" × 17.20")
Weight	Approx. 8 kg (17.64 lb)

## Order Model

DS-2DF8225IH-AEL (D), without wiper, 24 VAC & Hi-PoE

DS-2DF8225IH-AELW (D), with wiper, 24 VAC & Hi-PoE

## Dimensions



Unit:mm

## Accessories



DS-1604ZJ-P  
Wall Mount with junction  
box



DS-1663ZJ-P  
Ceiling mount



DS-1661ZJ-P  
Pendant Mount



DS-1660ZJ-P  
Parapet Mount



DS-1682ZJ-P  
Extendable pole  
for Pendant mount



DS-1667ZJ-P  
Extendable pole  
for Pendant mount



DS-1662ZJ-P  
Pendant mount



DS-1604ZJ-Pole-P  
Vertical pole mount



DS-1604ZJ-Corner-P  
Corner mount



DS-1604ZJ-BOX-P  
Wall mount with junction  
box



DS-1604ZJ-BOX-CORNER-P  
Wall Mount with junction  
box



DS-1604ZJ-BOX-POLE-P  
Vertical Pole Mount  
with junction box

Distributed by



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