

## DS-2DF8225IH-AELW

2 MP Outdoor 25x DarkFighterX IR Network Speed Dome

DarkFighterX



- 2 x 1/2.8" Progressive Scan CMOS
- Up to 1920 x 1080 Resolution
- Ultra-Low Light:  
Color: 0.001 Lux @ (F1.5, AGC ON)  
B/W: 0.0001 Lux @ (F1.5, AGC ON)  
0 Lux with IR
- Up to 655 ft (200 m) IR Distance
- H.265+/H.265 Video Compression
- 25x Optical Zoom, 16x Digital Zoom
- Electronic Image Stabilization
- Smart Detection: Line Cross, Intrusion, Region Enter/Exit
- Improved Auto Tracking
- Rapid Focus
- Digital WDR, 3D DNR, HLC, BLC
- IP66 Protection
- 24 VAC (maximum 68 W); Hi-PoE (maximum 50 W)

Hikvision's DS-2DF8225IH-AELW DarkFighterX Network Speed Dome Camera produces crisp, clear color images in scenes down to 0.001 lux.

The DarkFighterX Speed Dome Camera's unique design employs two 2 MP 1/2.8" Progressive Scan CMOS sensors that separately collect IR and visible light. Hikvision's patented Bi-Spectral Fusion Technology then combines the signal from each sensor to produce a bright, colorful image.

The DarkFighterX features a 25x zoom lens, electronic image stabilization, and Smart IR up to 655 ft (200 m).

It is also equipped with Smart Functions, that allow better scene filtering to reduce false alarms and improve auto-tracking. Targets can be filtered by size, shape and direction.

The camera also supports Rapid Focus, which allows for the camera to maintain focus while the lens is zoomed, eliminating auto-focus hunting, and producing clear images at all times.

**Available models:**  
DS-2DF8225IH-AELW



# Specifications

## DS-2DF8225IH-AELW

### Camera Module

Image Sensor	2 x 1/2.8" progressive scan CMOS
Minimum Illumination	Color: 0.001 Lux @(F1.5, AGC ON); B/W: 0.0001 Lux @(F1.5, AGC ON), 0 Lux with IR
Shutter Time	1/1 to 1/30,000 s
White Balance	Auto / manual / ATW (auto-tracking white balance) / indoor / outdoor / fluorescent lamp / sodium lamp
AGC	Auto / manual
Day and Night	IR cut filter
Digital Zoom	16x
Privacy Mask	8 programmable privacy masks
Focus Mode	Auto / semi-automatic / manual
Digital WDR	92 dB
Rapid Focus	Supported

### Lens

Focal Length	4.8 mm to 120 mm, 25x Optical
Zoom Speed	Approximately 4 s (optical lens, wide to tele)
Angle of View	Horizontal field of view: 58.2° to 3.2° (wide to tele); vertical field of view: 32.7° to 1.8° (wide to tele) diagonal field of view: 66.8° to 3.7° (wide to tele)
Minimum Working Distance	10 mm to 1,500 mm (wide to tele)
Aperture Range	F1.5 to F3.5

### IR

IR Distance	Up to 655 ft (200 m)
Smart IR	Supported

### 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	Supported
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:	Supported
Park Action	Preset / pattern scan / patrol scan / auto scan / tilt scan / random scan / frame scan / panorama scan
PTZ Status Display	On/off
Preset Freezing	Supported
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	32 kbps to 16,384 kbps
Audio compression	G.711 alaw / G.711 ulaw / G.722.1 / G.726 / MP2L2 / PCM
Audio Bitrate	64 Kbps (G.711) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32 to 160Kbps (MP2L2)

### Smart Features

Smart Detection	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
Smart Tracking	Manual tracking, auto tracking, event tracking
Smart Recording	ANR (Automatic Network Replenishment), Dual-VCA
ROI Encoding	Main stream, sub-stream, and third stream respectively supports eight fixed areas

### Image

Maximum Resolution	1920 x 1080
Main Stream	50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720), 60 Hz: 30 fps (1920 x 1080, 1280 x 960, 1280 x 720)
Sub-Stream	50 Hz: 25 fps (704 x 576, 640 x 480, 352 x 288); 60 Hz: 30 fps (704 x 480, 640 x 480, 352 x 240)
Third Stream	50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288); 60 Hz: 30 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 352 x 240)
Image Enhancement	HLC / BLC / 3D DNR / Defog / EIS / Regional Exposure / Regional Focus
SVC	Supported

### Network

Network Storage	Built-in memory card slot, support microSD / SDHC / SDXC, up to 256 GB; NAS (NFS, 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, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
API	Open-ended, supports ONVIF, CGI, HIKVISION SDK, and third-party management platforms
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, iVMS-4500, iVMS-5200, Hik-Connect
Web Browser	IE 7+, Chrome 18-42, Firefox 5.0+, Safari 5.02+

### Interface

Audio	1-ch audio input / 1-ch audio output
Network Interface	1 RJ45 10 M/100 M Ethernet Interface, Hi-PoE
Alarm	7-ch alarm input / 2-ch alarm output
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
BNC	1.0 V (p-p) / 75 Ω, NTSC (or PAL) composite, BNC

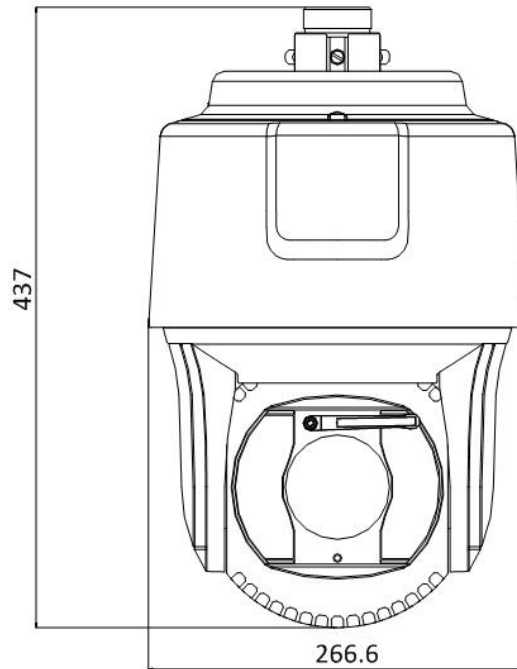
### General

Power	24 VAC (maximum 68 W); Hi-PoE (maximum 50 W)
Working Temperature	-40° F to 149° F (-40°C to 65°C); humidity: ≤ 90%
Protection Level	IP66 standard, TVS 6000V lightning protection, surge protection and voltage transient protection
Material	Aluminum alloy
Dimensions	Φ 10.50" x 17.20" (Φ 266.6 mm x 437 mm)
Weight	Approximately 17.64 lb (8 kg)

## Accessories

						
<b>JBPW-L-G</b> PTZ Junction Box	<b>PMP-JB-G</b> Pole Mount	<b>CMP-JB-G</b> Corner Mount	<b>CPM-S-G</b> Ceiling Pendant Mount (Short)	<b>CPM-L-G</b> Ceiling Pendant Mount (Long)	<b>CPMPE-G</b> Ceiling Mount Extension Pipe	<b>RPM-G</b> Parapet Mount

## Dimensions



With Wiper

Unit:mm