HIKVISION

DS-2DF8250I8X-AEL(W)   (C)
2MP 50× Network Laser Speed Dome

WDR | **SD** | **3D DNR** | **Intelligent Positioning** | **IP67**

PoE | | **Alarm** | **H.265**
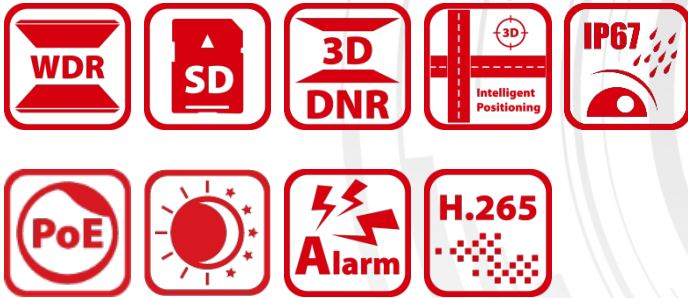
Hikvision DS-2DF8250I8X-AEL (W) 2MP 50× Network IR Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 50× optical zoom lens, the camera offers more details over expansive areas.

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.

Key Features

- 1/2.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- Min. illumination:
  Color: 0.01 Lux @(F1.8, AGC ON)
  B/W: 0.001 Lux @(F1.8, AGC ON)
  0 Lux with laser
- 50× Optical Zoom, 16× Digital Zoom
- 120dB WDR, 3D DNR, HLC, BLC
- Optical Image Stabilization
- Up to 800 m laser distance
- 24 VAC &Hi-PoE
- Support H.265+/H.265 video compression
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection
- Rapid focus
- IP67

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Specification

Camera Module	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.01 Lux @(F1.8, AGC ON) B/W: 0.001Lux @(F1.8, AGC ON) 0 Lux with laser
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	IR Cut Filter
Digital Zoom	16×
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
Focus Mode	Auto/Semi-automatic/Manual
Image Stabilization	Optical Image Stabilization
WDR	120 dB
OIS	Yes
Lens	
Focal Length	6.6 mm to 330 mm, 50× Optical
Zoom Speed	Approx. 4.5 s (optical lens, wide-tele)
FOV	Horizontal field of view: 41.3° to 1.1° (wide-tele) Vertical field of view: 23.6° to 0.6° (wide-tele) Diagonal field of view: 47.4° to 1.3° (wide-tele)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.8 to F5.5
Laser	
Laser Distance	Up to 800 m
PTZ	
Movement Range (Pan)	360° endless
Pan Speed	Configurable, from 0.1°/s to 160°/s, Preset Speed: 240°/s
Movement Range (Tilt)	From -20° to 90°
Tilt Speed	Configurable, from 0.1°/s to 120°/s, Preset Speed: 200°/s
Proportional Zoom	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
PTZ Position Display	ON/OFF
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
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+	Yes
H.265 Type	Main Profile
H.265+	Yes
Video Bitrate	32 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)
Smart Feature	

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	Unattended Baggage Detection, Object Removal Detection, Face Detection, Audio Exception Detection
Smart Tracking	Manual Tracking, Auto Tracking (support tracking specified target types such as human and vehicle), Event Tracking
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
ROI	Eight fixed region for each stream
Image	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 　　　　 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) 　　　　 60fps (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 Image Stabilization /Regional Exposure/Regional Focus/Optical Defog
SVC	Yes
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, UDP, IGMP, ICMP, Bonjour
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
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Client	iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Edge 16.16299+, Safari 11+
Interface	
Alarm Interface	7-ch alarm input/2-ch alarm output
Audio Interface	1-ch audio input, 2 to 2.4 V[p-p], 1 KΩ ± 10% 1-ch audio output, line level, impedance: 600 Ω
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 Ω, NTSC (or PAL) composite, BNC
General	
Language (Web Browser Access)	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)
Power	24 VAC (Max. 60 W, including max. 18 W for IR and max. 12 W for heater) Hi-PoE (Max. 50 W, including max. 18 W for IR and max. 12 W for heater)
Working Environment	Temperature: -40°C to 70°C (-40°F to 158°F) Humidity: ≤ 95%

Protection Level	IP67 Standard, 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Material	Aluminum alloy
Dimensions	Φ 266.6 mm × 410 mm (Φ 10.50" × 16.14")
Weight	Approx. 8 kg (17.64 lb)

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)	4137.9 m (13575.9 ft)	1642.0 m (5387.3 ft)	827.6 m (2715.2 ft)	413.8 m (1357.6 ft)

Order Model

DS-2DF8250I8X-AEL   (C), without wiper, 24 VAC &Hi-PoE

DS-2DF8250I8X-AELW   (C), with wiper, 24 VAC &Hi-PoE

Dimensions
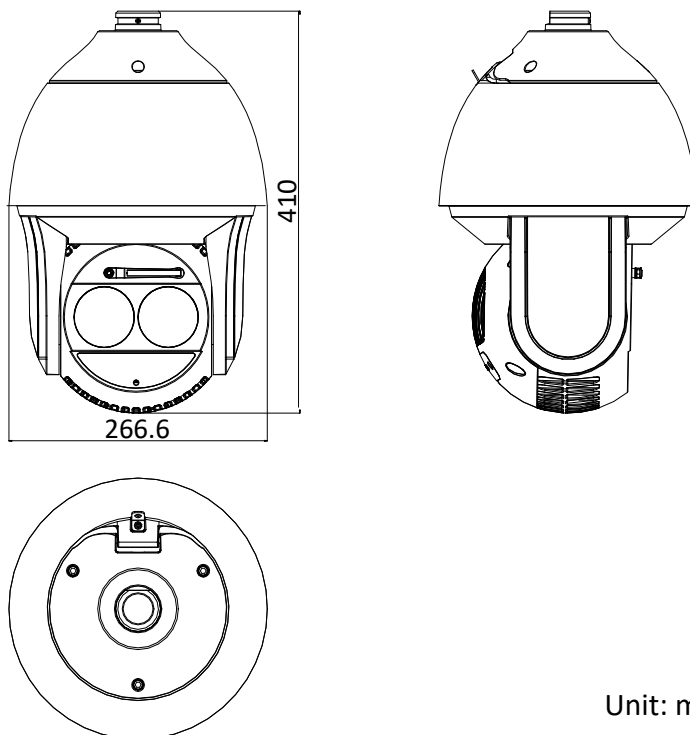
Unit: mm

Accessory

Included:

Installation Adapter

Optional:

DS-1604ZJ
Wall Mount
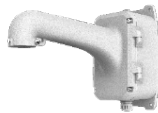
DS-1604ZJ-box
Wall Mount with Junction
Box

DS-1604ZJ-box-pole
Vertical Pole Mount with
Junction Box

DS-1604ZJ-box-corner
Corner Mount with
Junction Box

DS-1660ZJ
Parapet Mount

DS-1619ZJ
Gooseneck Mount

DS-1661ZJ
Pendant Mount

DS-1662ZJ
Pendant Mount

DS-1663ZJ
Ceiling Mount

DS-1667ZJ
Extendable Pole for
Pendant Mount

DS-1673ZJ
Horizontal Pole Mount

DS-1682ZJ
Extendable Pole for
Pendant Mount

Distributed by
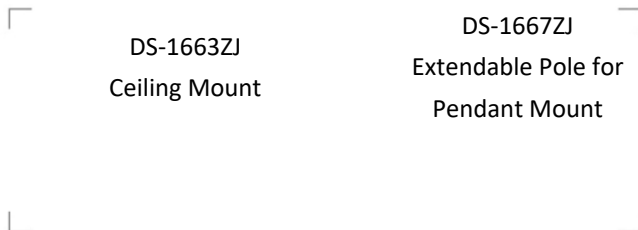
LAS60-57CN-RJ45
Hi-PoE Midspan

TEAC-66-243000V (EU)
MKAC-66-243000U (USA)
TEAC-66-243000VB (UK)
Power Adapter