

DS-2DF8242IX-AELW(T3) 2 MP 42x Network IR Speed Dome



- 1/1.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- Minimum Illumination: Color: 0.002 Lux @ (f/1.2, AGC On), B/W: 0.0002 Lux @ (f/1.2, AGC On), 0 Lux with IR
- 42x Optical Zoom, 16x Digital Zoom
- 140 dB WDR, 3D DNR, HLC, Smart IR
- 24 VAC and Hi-PoE
- Up to 440 yd (400 m) IR Distance
- H.265+/H.265 Video Compression
- Vandal-Resistant Alarm
- Face Capture Detects, Tracks, Captures, Grades, and Selects Face in Motion
- Rapid Focus
- IP67

Hikvision's DS-2DF8242IX-AELW(T3) 2 MP 42x Network IR Speed Dome adopts a 1/1.8" progressive scan CMOS chip. With a 42x optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be used for wide ranges requiring high-definition such as rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations, large venues, etc.

Available Models:

DS-2DF8242IX-AELW(T3)



Specifications

DS-2DF8242IX-AELW(T3)	
Camera Module	
Image Sensor	1/1.8" progressive scan CMOS
Minimum Illumination	Color: 0.002 lux @ (f/1.2, AGC on) B/W: 0.0002 lux @ (f/1.2, AGC on), 0 lux with IR
Shutter Speed	1/1s to 1/30,000s
Focus	Semi-auto, manual, auto
Day/Night	ICR
BLC	Yes
WDR	140 dB WDR
HLC	Yes
3D DNR	Yes
EIS	Yes, built-in gyroscope to improve EIS performance
Regional Exposure	Yes
Regional Focus	Yes
Digital Zoom	16x
Optical Zoom	42x
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable
General Function	Mirror, password protection, watermark, IP address filter
Optical Defog	Yes
Lens	
Focal Length	6.0 mm to 252 mm, 42x optical
Zoom Speed	Approximately 4.5 s
FOV	Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)
Aperture	f/1.2 to f/4.6
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-20° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/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
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	
Maximum Resolution	1920 × 1080
Main Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720); 50 fps (1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720); 60 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 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) 60 Hz: 30 fps (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, fixed region, dynamic license plate tracking
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)

Specifications (continued)

Smart Features	
Face Capture	Detects up to 30 faces at the same time. Detecting, tracking, capturing, grading, selecting of face in motion, and output best face picture.
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.
Vandal-Resistant Alarm	Yes
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	ISAPI, Hikvision SDK, ONVIF (Profile S, Profile G, Profile T)
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, Hik-Connect
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Safari 11+
Interface	
Communication Interface	1 RJ-45 10 M/100 M Ethernet interface; Hi-PoE
On-Board Storage	Built-in memory card slot, supports microSD/SDHC/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 2.4Vp-p, 1k ohm \pm 10%
Audio Output	1 audio output, line level, impedance: 600 Ω
Video Output	1.0V [p-p]/75 Ω , PAL, NTSC, BNC connector
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Supplement Light	
IR Distance	440 yd (400 m)
Smart IR	Yes
General	
Power	24 VAC (maximum 60 W, including maximum 18 W for IR and maximum 6 W for heater), Hi-PoE (maximum 50 W, including maximum 18 W for IR and maximum 6 W for heater)
Operating Conditions	Temperature: -40° to 70° C (-40° to 158° F), humidity: \leq 95% (non-condensing)
Wiper	Yes
Dimensions	\varnothing 266.6 mm \times 410 mm (\varnothing 10.50" \times 16.14")
Weight	Approximately 8 kg (17.64 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)
Approvals	
Protection	Lightning protection, surge protection, and voltage transient protection, \pm 6 kV line to gnd, \pm 3 kV line to line, IEC61000-4-5, IP67 standard

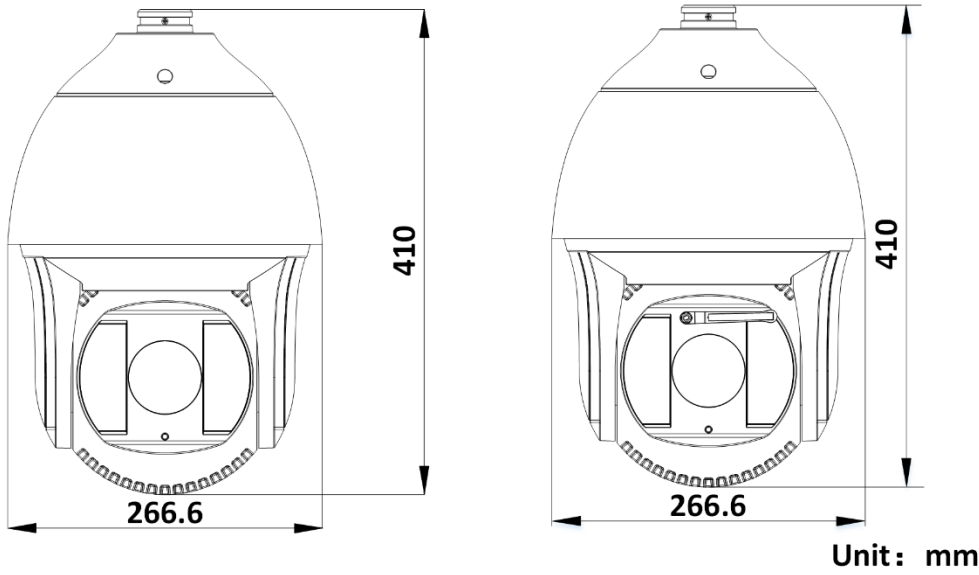
DORI

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)	3475.9 m (11403.9 ft)	1379.3 m (4525.3 ft)	695.2 m (2280.8 ft)	347.6 m (1140.4 ft)

Dimensions



Accessories

INCLUDED	
	
Installation Adapter	LAS60-57CN-RJ45 Hi-PoE Midspan

NOT INCLUDED				
				
WMP-L Wall Mount Bracket - Long	JBPW-L Wall Mount Bracket	PMP-JB Pole Mount Bracket	CMP-JB Corner Mounting Bracket	RPM Roof Parapet Mount
				
CPM-S Pendant Mount - Short	CPM-L Pendant Mount - Long	JBPW Wall Mount Bracket	PMP-L Pole Mount	CMP-L Corner Mount
				
MKAC-66-243000U (USA) Power Adapter				