

## DS-2DF8C842IXS-AELW(T2) 8 MP 42x Network IR Speed Dome

### DarkFighter™

Hikvision's DS-2DF8C842IXS-AELW(T2) 8 MP 42x Network IR Speed Dome adopts a 1/1.2" progressive scan CMOS chip. With the 42x optical zoom lens, the camera offers more details over expansive areas. This camera can be widely used for wide high-definition ranges such as rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations, large venues, etc.



### Available Model

DS-2DF8C842IXS-AELW(T2)

- 1/1.2" Progressive Scan CMOS
- Up to 3840 × 2160 Resolution
- Minimum Illumination: Color: 0.002 Lux @ (f/1.6, AGC On), B/W: 0.0002 Lux @ (f/1.6, AGC On), 0 Lux with IR
- 42x Optical Zoom, 16x Digital Zoom
- 120 dB WDR, 3D DNR, EIS, HLC, Smart IR
- 24 VAC and Hi-PoE
- Up to 1,640' (500 m) IR Distance
- H.265+/H.265 Video Compression
- Rapid Focus
- IP67, IK10 (Excluding Glass Window)
- Detects up to 30 Faces at the Same Time. Detecting, Tracking, Capturing, Grading, Select Face in Motion, and Output Best Face Picture.
- Person Arming: Real-Time Modeling and Comparison, Arms and Tracks Predefined Persons, and Uploads Longitude and Latitude



# Specifications

DS-2DF8C842IXS-AELW(T2)	
<b>Camera Module</b>	
Image Sensor	1/1.2" progressive scan CMOS
Minimum Illumination	Color: 0.002 lux @ (f/1.6, AGC on), B/W: 0.0002 lux @ (f/1.6, AGC on), 0 lux with IR
Shutter Speed	1/1 s to 1/30,000 s
Slow Shutter	Yes
Focus	Semi-auto, manual, auto
Day/Night	ICR
Day/Night Switch	Day, night, auto, scheduled-switch
BLC	Yes
WDR	120 dB WDR
HLC	Yes
3D DNR	Yes
Defog	Yes
EIS	Yes, built-in gyroscope to improve EIS performance
Regional Exposure	Yes
Regional Focus	Yes
Image Settings	Saturation, brightness, contrast, sharpness
White Balance	Auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB
Digital Zoom	16x
Optical Zoom	42x
Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable
SNR	≥55 dB
General Function	Mirror, password protection, video tampering alarm, watermark, IP address filter
Optical Defog	Yes
<b>Lens</b>	
Focal Length	7.5 mm to 315 mm, 42x optical
Zoom Speed	Approximately 7.5 s
FOV	Horizontal field of view: 60.4° to 1.7° (wide-tele), Vertical field of view: 36.2° to 0.9° (wide-tele), Diagonal field of view: 67.8° to 2.2° (wide-tele)
Aperture	f/1.6
<b>PTZ</b>	
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
<b>Video</b>	
Maximum Resolution	3840 × 2160
Main Stream	60 Hz: 30 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265, H.264, MJPEG
Video Bit Rate	32 Kbps to 16384 Kbps
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
<b>Audio</b>	
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
Face Comparison	Yes
Basic Event	Motion detection, video tampering alarm, alarm input and output, exception
Smart Event	Unattended baggage detection, object removal detection, intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection, vandal-proof alarm
Smart Tracking	Manual tracking, panorama tracking, event tracking, patrol tracking among multiple detection scenes
Smart Record	ANR, Dual-VCA
Alarm Linkage	Preset, patrol scan, pattern scan, memory card video recording, alarm output, send e-mail, notify surveillance center, upload to FTP, NAS video recording
Network	
Network Storage	NAS (NFS, SMB/CIFS)
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	Open-ended API, ONVIF (Profile S, Profile G), ISAPI, Hikvision SDK, third-party management platform, ISUP
Simultaneous Live Views	Up to 20 channels
User/Host	Up to 32 users, 3 levels: administrator, operator, and user
Smooth Streaming	Yes
Security Measures	Authenticated user name and password, MAC address binding, HTTPS encryption, 802.1x authenticated access, IP address filter
Client	iVMS-4200, iVMS-4500, Hik-Connect
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
Interface	
Communication Interface	RJ-45, self-adaptive 10M/100M Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/Micro SDHC/microSDXC, 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 $\pm$ 10%
Audio Output	1 audio output, line level, impedance: 600 $\Omega$
Video Output	1.0 V[p-p]/75 $\Omega$ , PAL, NTSC, BNC connector
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Supplement Light	
IR Distance	1,640 ft (500 m)
Smart IR	yes
General	
Power	24 VAC [maximum 60 W, including maximum 15 W for IR and maximum 8 W for heater], PoE 802.3 bt (maximum 51 W, including maximum 15 W for IR and maximum 8 W for heater).
Operating Conditions	Temperature: -40° to 70° C [-40° to 158° F], humidity: $\leq$ 95% (non-condensing)
Wiper	Yes, rain-sensing auto control
Material	ADC12
Dimensions	$\varnothing$ 267 mm $\times$ 430 mm ( $\varnothing$ 10.51" $\times$ 16.93")
Weight	Approximately 9.6 kg (21.16 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, $\pm$ 6 kV line to gnd, $\pm$ 3 kV line to line, IEC61000-4-5, IP67 standard, IK10 (excluding glass window)

## DORI

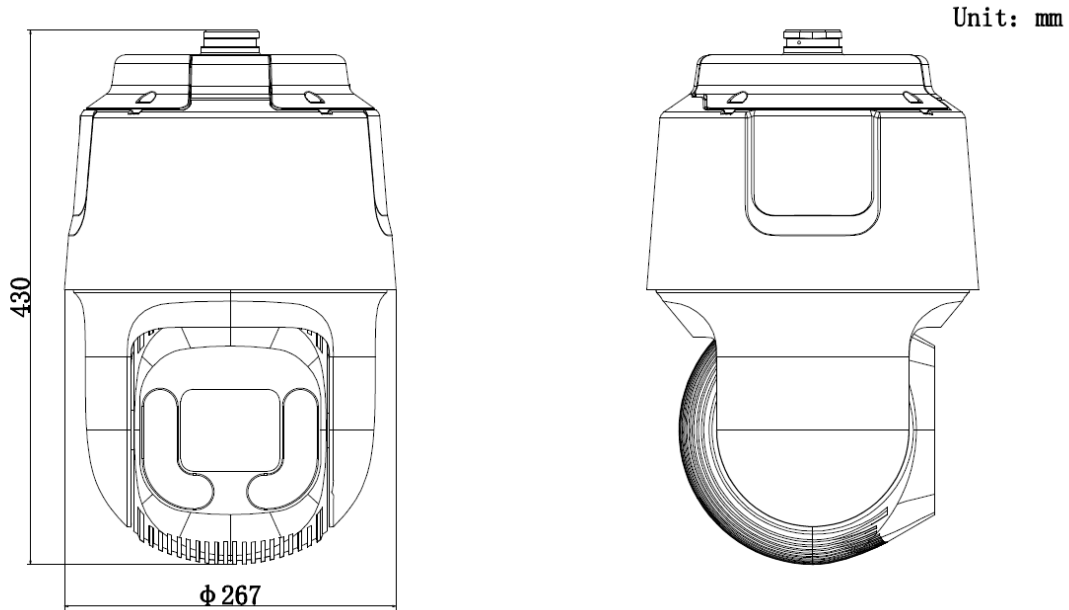
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera's ability to distinguish persons or objects within its field of view.

It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.



## DORI (continued)





DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	4137.9 m (13575.8 ft)	1642 m (5387.1 ft)	827.6 m (2715.2 ft)	413.8 m (1357.6 ft)

## Dimensions



# Accessories

INCLUDED	
	
Installation Adapter	PoE Injector

NOT INCLUDED			
			
CPM-S-G Ceiling Mount (Gray)	RPM-G Roof Parapet Mount (Gray)	CPM-L-G Pendant Mount (Gray)	JBPW-L-G Junction Box (Gray)