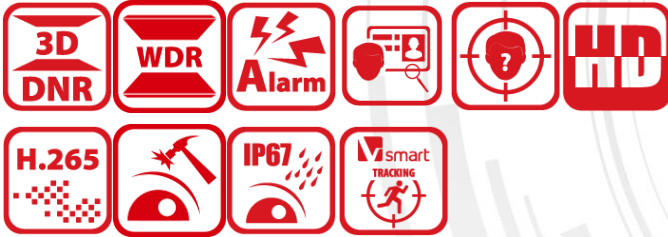# DS-2DF8A842IXS-AEL(T2)
8 MP 42 × IR Network Speed Dome

Hikvision DS-2DF8A842IXS-AEL(T2) 8 MP 42 × Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 42 × 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.

- 1/1.8" Progressive Scan CMOS
- Up to 3840 × 2160 resolution
- Min. Illumination: Color: 0.005 Lux @(F1.2, AGC ON), B/W: 0.0005 Lux @(F1.2, AGC ON), 0 Lux with IR
- 42 × optical zoom, 16 × digital zoom
- 120 dB WDR, 3D DNR, EIS, HLC, Smart IR
- 24 VAC & Hi-PoE
- Up to 500 m IR distance
- Support H.265+/H.265 video compression
- Support Rapid focus
- IK10, IP67
- Support Vandal-proof alarm
- Support face capture to detect, track, capture, grade, and select face in motion
- Support road traffic to detect vehicles, including license plate number, vehicle model, and vehicle color
- Person arming: supports real-time modeling and comparison, arms and tracks predefined persons
- Vehicle arming: supports vehicle detection and license plate recognition, arms and tracks predefined vehicles

www.hikvision.com

▪ Specification

Camera Module	
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	color: 0.005 Lux @ (F1.2, AGC ON), B/W: 0.0005 Lux @ (F1.2, 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
EIS	Yes. Built-in gyroscope to improve EIS performance.
Regional Exposure	yes
Regional Focus	yes
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB
Digital Zoom	16 ×
Optical Zoom	42 ×
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable
SNR	≥ 55dB
General Function	mirror, password protection, watermark, IP address filter
Optical Defog	yes
Lens	
Focal Length	6 mm to 252 mm, 42 × Optical
Zoom Speed	approx. 4.9 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	F1.2
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	
Max. Resolution	3840 × 2160
Main Stream	50 Hz: 25 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 30 fps (3840 × 2160, 2560 × 1440, 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
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

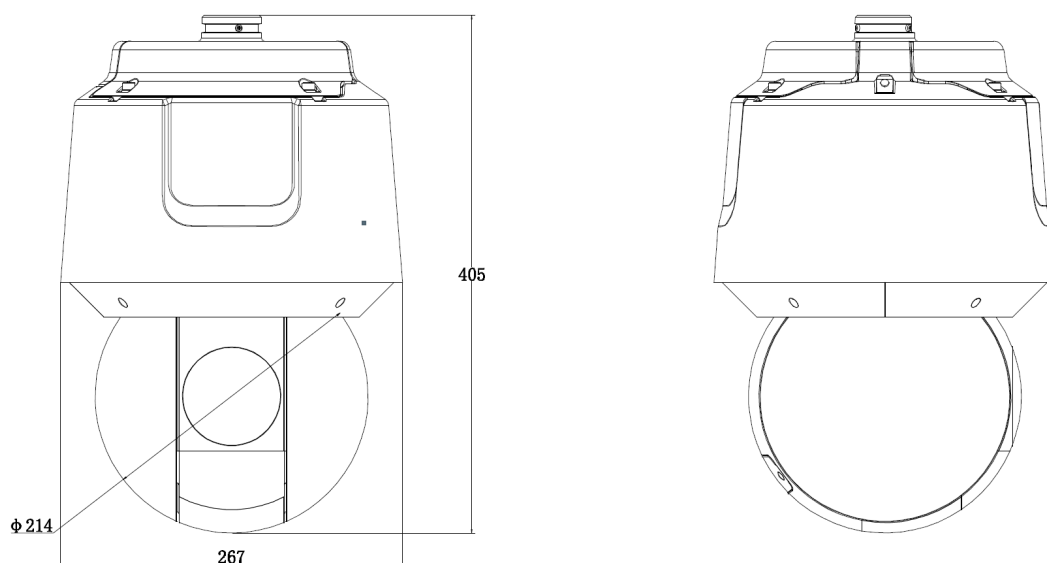|	
H.265+	yes
SVC	yes
ROI	dynamic face tracking, fixed region, dynamic license plate tracking
Audio	
Audio Compression	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM
Audio Bit rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)
Smart Features	
Face Capture	Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.
Road Traffic	Support vehicle detection (license plate number,vehicle model, and vehicle color recognition)
Basic Event	motion detection,video tampering alarm,alarm input,alarm output
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
Smart Record	ANR, Dual-VCA
Alarm Linkage	preset, patrol scan, pattern scan, memory card video recording, alarm output, sending email, notify surveillance center, upload to FTP, NAS video recording
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
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, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
API	Open-ended API, ONVIF (Profile S, Profile G), ISAPI, Hikvision SDK, Third-party management platform, ISUP
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
Smooth Streaming	yes
Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Client	iVMS-4200, HikCentral, Hik-Connect
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
Interface	
Communication Interface	1 RJ45 10 M/100 M Ethernet Interface; Hi-PoE
On-board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro 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±10%
Audio Output	1 audio output, line level, impedance: 600 Ω
Video Output	1.0V[p-p]/75Ω,PAL,NTSC,BNC connector
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Supplement Light	
IR Distance	500 m
Smart IR	yes
General	
Power	24 VAC (Max. 60 W, including max. 18 W for laser and max. 6 W for heater), Hi-PoE (Max. 50 W, including max. 18 W for laser and max. 6 W for heater)
Operating Conditions	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
Dimensions	Φ 267 mm × 405 mm (Φ 10.51" × 15.94")
Weight	Approx. 8.5 kg (18.74 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	IP67, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10

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)	4800 m (15748.0 ft)	1904.8 m (6249.3 ft)	960 m (3149.6 ft)	480 m (1574.8 ft)

▪ Dimension

405

φ 214

267

▪ Accessory

▪ Optional

DS-1661ZJ-P Pendant Mount	DS-1663ZJ-P In-ceiling mount	DS-1604ZJ-Corner-P Corner mount	DS-1667ZJ-P Pendant Mount	DS-1604ZJ-P Wall mount

DS-1604ZJ-BOX-CORNER-P Wall mount	DS-1682ZJ-P Pendant Mount	DS-1604ZJ-Pole-P Vertical pole mount	DS-1660ZJ-P Wall mount	DS-1604ZJ-BOX-P Wall mount

DS-1673ZJ-P Vertical pole mount	DS-1604ZJ-BOX-POLE-P Vertical pole mount	DS-1662ZJ-P Pendant Mount

Distributed by

▪ **Available Model**

DS-2DF8A842IXS-AEL (T2)

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