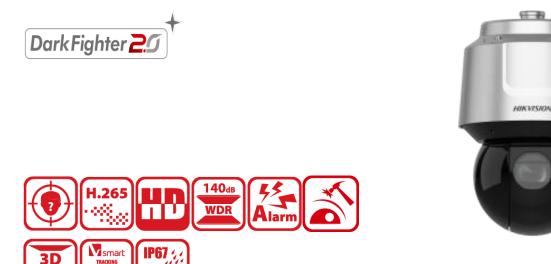


DS-2DF8A842IXG1-EL 8A Series 8MP 42 × DarkFighter IR Network Speed Dome



Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- 1/1.8" Progressive Scan CMOS
- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 140 dB AWDR technology
- 42 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m IR distance
- Water and dust resistant (IP67) and vandal proof (IK10)
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles
- Smart Pan-Tilt Correction



Specification

Camera		
Image Sensor	1/1.8" progressive scan CMOS	
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2 , AGC ON), 0 Lux with IR	
Shutter Speed	1/1 s to 1/30,000 s	
Slow Shutter	Yes	
Day & Night	IR cut filter	
Zoom	42x optical, 16x digital	
Max. Resolution	3840 × 2160	
Lens		
Focus	Auto, semi-auto, manual, rapid focus	
Focal Length	6.0 mm to 252 mm, 42× Optical	
Zoom Speed	approx. 4.5 s	
	Horizontal field of view: 56.6° to 1.7° (wide-tele),	
FOV	Vertical field of view: 33.7° to 0.9° (wide-tele),	
	Diagonal field of view: 63.4° to 1.9° (wide-tele)	
Aperture	Max. F1.2	
Illuminator		
Supplement Light Type	IR	
Supplement Light Range	IR Distance: up to 500 m	
Smart Supplement Light	Yes	
PTZ		
Movement Range (Pan)	360°, Smart Pan-Tilt Correction	
Movement Range (Tilt)	-20° to 90° (auto flip), Smart Pan-Tilt Correction	
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 Pan	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		
Target Cropping	No	
	50 Hz: 50 fps (3840 × 2160, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 × 720);	
Main Stream	60 Hz: 60 fps (3840 × 2160, 2560 × 1440), 120 fps(1920 × 1080, 1280 × 960, 1280 × 720)	
	*High frame rate is supported under monitoring mode only.	



Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser			
Regional Focus	Yes			
Regional Exposure	Yes			
Image Stabilization	Yes. Built-in gyroscope to improve EIS performance.			
Defog	Optical defog			
Wide Dynamic Range (WDR)	140 dB			
Image Enhancement	BLC, HLC, 3D DNR			
Day/Night Switch	Day, night, auto, scheduled-switch			
Image	,			
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+			
Client	HikCentral, iVMS-4200, Hik-Connect			
User/Host	Up to 32 users 3 user levels: administrator, operator, and user			
Simultaneous Live View	Profile M), OTAP Up to 20 channels			
API	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T			
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, WebSocket, WebSocket			
Network Storage	NAS (NFS, SMB/ CIFS), ANR			
Security	authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS,control timeout settings,security audit log,TLS 1.3,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2)			
	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Smooth Streaming	Yes			
Network				
Environment Noise Filtering	Yes			
Audio Sampling Rate	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz, 48kHzMP3: 8kHz, 16KHz, 32KHz, 48KHz			
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)16 Kbps t 64 Kbps(AAC_LC)			
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM , AAC_LC			
Audio				
Region of Interest (ROI)	8 fixed regions for each stream			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Н.265 Туре	Main Profile			
Н.264 Туре	Baseline Profile/Main Profile/High Profile			
Video Bit Rate	32 Kbps to 16384 Kbps			
	Third stream: H.265/H.264/MJPEG			
Video Compression	Sub-stream: H.265/H.264/MJPEG			
	Main stream: H.265+/H.265/H.264+/H.264			
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)			
	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)			
	$(60 \text{ Hz}, 20 \text{ the} / 70.1 \times 1.90 6.10 \times 1.90 25.2 \times 2.10)$			



Image Parameters Switch	Yes		
Privacy Mask	Up to 24 masks, mosaic mask, mask color configurable, rectangle region		
SNR	≥ 52 dB		
Supplement Detection			
Satellite Positioning	No		
Gyroscope	Yes		
Compass	No		
Interface			
Video Output	1.0 V[p-p]/75 Ω, PAL, NTSC, BNC connector		
Reset	Yes		
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port		
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 1 TB		
Alarm	7 inputs, 2 outputs		
Audio	1 input (line in), max. input amplitude: 0-3.3Vpp, input impedance: 4.7K Ω ±5%; 1		
Audio	output (line out), line level, output impedance: 600 Ω		
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Event			
	Motion detection, video tampering alarm, exception (network disconnected, IP address		
Basic Event	conflict, illegal login, HDD full, HDD error), alarm input and output, vandal-proof		
Dasic Eveni	alam, audio exception detection, unattended baggage detection, object removal		
	detection		
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger		
LIIKage	recording, and PTZ actions (such as preset, patrol scan, pattern scan)		
Deep Learning Function			
Perimeter Protection	Line crossing detection, region entrance detection, intrusion detection, region exiting detection		
	Supports simultaneous detection and capture of human body, face and vehicle,		
Multi-Target-Type Detection	Gets 7 face features, 14 human body features and 8 vehicle features		
	Detects up to 30 faces simultaneously,		
Face Camburg	Uploads face with background and closed-up face pictures, Supports detecting,		
Face Capture	tracking, capturing, grading, selecting of face in motion, and outputs the best face		
	picture		
	Up to 10 face libraries. 30000 faces for each library. 150000 faces in total,		
Face Comparison	Recognizes face identity via face modeling, grading and comparing to those in face		
Face Comparison	library,		
	Supports face library encryption		



	Smart Function:		
Road Traffic and Vehicle Detection	Support license plate recognition of vehicles and motorcycles (only in checkpoint		
	scenario)		
	Support vehicle attribute detection, including vehicle type, color, brand, driving		
	direction, etc.		
	Support vehicle and non-vehicle counting		
	Blocklist and allowlist: up to 10,000 records		
	LPR Countries/Regions:		
	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions		
	Accuracy (Under recommended installation and lighting conditions):		
	License plate recognition rate \geq 98%		
	Capture rate ≥99%		
	Driving direction accuracy rate $\geq 98\%$		
	Vehicle Capture Speed:		
	Front installation in checkpoint scenario: up to 120 km/h		
	Side installation: up to 80 km/h		
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode		
Linkage and Tracking			
Smart Tracking	Manual tracking, auto-tracking 3.0		
	Support person arming. When the device detects the armed face or human body in the		
	monitoring scene, it triggers alarms, and tracks and captures the target. During the		
	tracking, the target location and other related information are uploaded.Support		
Object Tracking	vehicle arming. When the device detects the armed vehicles in the monitoring scene, it		
	triggers alarms, and tracks and captures the target. During the tracking, the target		
	location and other related information are uploaded.		
General			
Dower	36 VDC (Max. 60 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max.		
Power	50 W, including max. 18 W for IR and max. 6 W for heater)		
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: \leq 95%		
Concrel Function	Anti-flicker, heartbeat, mirror, flash log, password reset via e-mail, pixel counter,		
General Function	password protection, one-key reset, three streams		
Vandal-proof Alarm	No		
Heater	Yes		
De-icing	No		
Demist	Yes		
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,		
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,		
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,		
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian		
Wiper	No		
Dimension	Ø 267 mm × 405 mm (Ø 10.51" × 15.94")		
Weight	Approx. 8.5 kg (18.74 lb.)		



Approval	
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011
	+A1: 2014);
EMC	RCM (AS/NZS CISPR 32: 2015);
	IC VoC (ICES-003: Issue 6, 2019);
	KC (KN 32: 2015, KN 35: 2015)
	CB (IEC 62368-1:2014+A11);
Safety	CE-LVD (EN 62368-1:2014+A11:2017),
Salety	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
	LOA (SANS IEC60950-1)
	CE-RoHS (2011/65/EU);
Environment	WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)
Anti-Corrosion Protection	No
Protection	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient
Protection	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)	5040.0 m (16535.4 ft.)	2000.0 m (6561.7 ft.)	1008.0 m (3307.1 ft.)	504.0 m (1653.5 ft.)

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

DS-2DF8A842IXG1-EL has NO SPECIFIC PROTECTION.

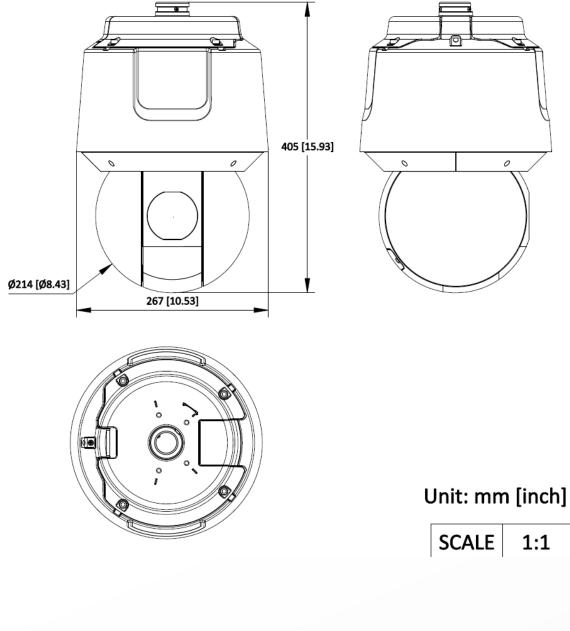
Level	Description		
	Hikvision products at this level are equipped for use in		
Top lovel protection	areas where professional anti-corrosion protection is a		
Top-level protection	must. Typical application scenarios include coastlines,		
	docks, chemical plants, and more.		
	Hikvision products at this level are equipped for use in		
	areas with moderate anti-corrosion demands. Typical		
Moderate protection	application scenarios include coastal areas about 2		
	kilometers (1.24 miles) away from coastlines, as well as		
	areas affected by acid rain.		
No specific protection	Hikvision products at this level are equipped for use in		
No specific protection	areas where no specific anti-corrosion protection is needed.		



Available Model

DS-2DF8A842IXG1-EL

Dimension



Accessory

Optional

DS-1673ZJ-P	DS-1684ZJ-P	DS-1674ZJ-P	DS-4650ZJ-PC	DS-4660ZJ-PC
Vertical pole mount	Vertical pole mount	Junction box	Vertical pole mount	Corner mount



			3
DS-1276ZJ-P Corner mount	DS-4603ZJ-PA Wall Mount Bracket In/Outdoor for PTZ Camera	DS-4612ZJ-PA Pendant Mount	
			-

See Far, Go Further



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