

DS-2DF8A442IXG1-ELY 8A Series 4MP 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 4 MP resolution
- Excellent low-light performance with DarkFighter 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: 0.0003 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	2688 × 1520		
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			
Main Stream	50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 60 fps (2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 ×		
	720) *High frame rate is supported under monitoring mode only.		



50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)		
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 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)		
Main stream: H.265+/H.265/H.264+/H.264		
Sub-stream: H.265/H.264/MJPEG		
Third stream: H.265/H.264/MJPEG 32 Kbps to 16384 Kbps		
Baseline Profile/Main Profile/High Profile		
Main Profile		
H.264 and H.265 encoding		
8 fixed regions for each stream		
No		
NO		
C 711 along C 711 glove C 722 1 C 726 MAR21 2 DCM		
G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM		
64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)		
MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz,		
48kHzMP3: 8kHz, 16KHz, 32KHz, 48KHz		
Yes		
Yes		
Password protection,complicated password,HTTPS encryption,802.1X authentication		
(EAP-TLS, EAP-LEAP, EAP-MD5),watermark,IP address filter,basic and digest		
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)		
NAS (NFS, SMB/ CIFS), ANR		
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		
ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T		
Profile M), OTAP		
Up to 20 channels		
Up to 32 users. 3 levels: Administrator, Operator and User		
HikCentral, iVMS-4200, Hik-Connect		
IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+		
Yes		
Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by		
client software or web browser		
Day, night, auto, scheduled-switch		
Day, night, auto, scheduled-switch		
Day, night, auto, scheduled-switch BLC, HLC, 3D DNR		
Day, night, auto, scheduled-switch BLC, HLC, 3D DNR 150 dB WDR		
Day, night, auto, scheduled-switch BLC, HLC, 3D DNR 150 dB WDR Optical defog		
Day, night, auto, scheduled-switch BLC, HLC, 3D DNR 150 dB WDR		



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



Road Traffic and Vehicle Detection	Smart Function: 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 ≥98% Capture rate ≥99% Driving direction accuracy rate ≥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	Captain Control of Captain Contr	
Smart Tracking	Manual tracking, auto-tracking 3.0	
Object Tracking	Support person arming. When the device detects the armed face or human body in monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded. Support vehicle arming. When the device detects the armed vehicles in the monitoring scent triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded.	
General		
Vandal-proof Alarm	No	
Heater	Yes	
Wiper	No	
De-icing	No	
Demist	Yes	
General Function	Mirror, password protection, watermark, IP address filter	
Power	36 VDC (Max. 60 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max. 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: ≤ 95%	
Dimension	Ø 267 mm × 405 mm (Ø 10.51" × 15.94")	
Weight	Approx. 8.5 kg (18.74 lb.)	
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italia Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedis Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chines Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian	
Approval		
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); 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),	
	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);	
	LOA (SANS IEC60950-1)	
Environment	CE-RoHS (2011/65/EU);	
	WEEE (2012/19/EU);	
	Reach (Regulation (EC) No 1907/2006)	
Anti-Corrosion Protection	NEMA 4X	
Protection	IP67 Standard, 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)	3475.9 m (11403 ft.)	1379.3 m (4525.3 ft.)	695.2 m (2280.8 ft.)	347.6 m (1140.4 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.

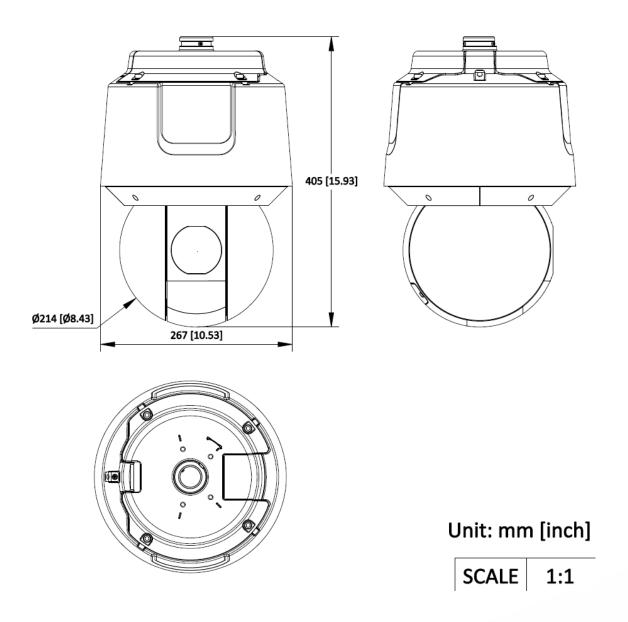
DS-2DF8A442IXG1-EL has NO SPECIFIC PROTECTION and DS-2DF8A442IXG1-ELY has MODERATE PROTECTION.

Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level 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-2DF8A442IXG1-ELY





Accessory

Optional

DS-4603ZJ-PA Wall Mount Bra In/Outdoor for Camera	acket DS-4612ZJ-PAAC	DS-1684ZJ-P-Y For Pendant Mount	DS-1673ZJ-P-Y For Pendant Mount	DS-1276ZJ-P-Y For Corner mount

See Far, Go Further



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