

DS-2DF7A836IXG-ELY 7A Series 8MP 36X DarkFighter IR Network Speed Dome

















Hikvision DS-2DF7A836IXG-EL(Y) 8 MP $36 \times$ IR Network Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the $36 \times$ optical zoomlens, 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.

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 protection 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
- 36 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 140 dB AWDR technology
- Supports rapid focus
- Smart Pan-Tilt Correction
- Built-in gyroscope to ensure stable image output
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)



Specification

Camera				
Image Sensor	1/1.8 " progressive scan CMOS			
Max. Resolution	3840 × 2160			
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	1/30 s to 1/30,000 s			
Day & Night	ICR			
Zoom	36 × optical,16 × digital			
Slow Shutter	yes			
Lens				
Focal Length	6.0 mm to 216 mm			
	Horizontal field of view: 59.1° to 2.0°, vertical field of view: 34.1° to 1.1°, diagonal field			
FOV	of view: 67.1° to 2.3°			
Focus	Auto, semi-auto, manual, rapid focus			
Aperture	F1.2			
Zoom Speed	Approx. 4.5 s			
Illuminator				
Supplement Light Range	IR distance: up to 300 m			
PTZ				
Movement Range (Pan)	360°			
Movement Range (Tilt)	-20° to 90° (auto flip)			
Pan Speed	Pan speed: configurable from 0.1° to 550°/s, preset speed: 550°/s,Up to MAX 700°/s			
TiltSpeed	Tilt speed: configurable from 0.1° to 300°/s, preset speed 300°/s,Up to MAX 300°/s			
Proportional Pan	yes			
Presets	300			
Preset Freezing	yes			
Patrol Scan	8 patrols, up to 32 presets for each patrol			
Park Action	Preset,patrol scan			
3D Positioning	yes			
PTZ Status Display	yes			
Scheduled Task	Preset,patrol scan,dome reboot,dome adjust,aux output			
Power-off Memory	yes			
Video				
Cult Character	50 Hz: 25 fps (704 × 576,640 × 480, 352 × 288)			
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)			
	50 Hz: 100 fps (1920 × 1080) 50 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1280 ×			
Main Stream	720) 60 Hz: 120 fps (1920 × 1080) 60 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1280			
	× 720) *High frame rate is supported under monitoring mode only.			
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	Main stream: H.265+/H.265/H.264+/ H.264,			
	Sub-stream: H.265/H.264/MJPEG,			
	Third stream: 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			
Scalable Video Coding (SVC)	yes			
Region of Interest (ROI)	fixed region			
Audio				
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC			
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)16 Kbps 64 Kbps(AAC-LC)			
Network				
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTCP,RTCP/IP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,WebSocket,WebSockets			
Simultaneous Live View	Up to 20 channels			
API	ONVIF (ProfileS, ProfileG, ProfileT, ProfileM),ISAPI,SDK,ISUP			
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User			
Security	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, Tl. 3, host authentication (MAC address), TPM 2.0 (FIPS 140-2 level 2)			
Network Storage	NAS (NFS, SMB/CIFS)			
Client	iVMS-4200,Hik-Connect,HikCentral Pro			
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+			
Image				
Day/Night Switch	day, night, auto, scheduled-switch			
Wide Dynamic Range (WDR)	140 dB WDR			
SNR	≥52dB			
Defog	yes			
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)			
Image Enhancement	BLC, HLC, 3D DNR			
Privacy Mask	mask color or mosaic configurable,24 programmable polygon privacy masks			
Regional Focus	yes			
Regional Exposure	yes			
Interface				
Video Output	CVBS: 1.0 V[p-p]/75 Ω, PAL/NTSC, BNC connector			
Ethernet Interface	RJ45, self-adaptive 10M/100M Ethernet port			
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 10%, 1 output (line out), line level, output impedance: 600 Ω			
Alarm	7 alarminputs, 2 alarm outputs			
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive			
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB.			
Event				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegallogin, HDD full, HDD error), alarmin put 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)			



Deep Learning Function	
	Detects up to 30 faces simultaneously,
Face Capture	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
Danimatan Dantartian	Line crossing detection, region entrance detection, intrusion detection, region exiting
Perimeter Protection	detection
** 10' T	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
	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
Face Comparison	library,
	Supports facelibrary encryption
	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:
Road Traffic and Vehicle	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions
Detection	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	
Smart Tracking	Manual tracking, auto-tracking 3.0
	Support person arming. When the device detects the armed face or human body in the
Object Tracking	monitoring scene, it triggers alarms, and tracks and captures the target. During the
	tracking, the target location and other related information are uploaded.
General	
	36 VDC± 25%, max. 90 W (Max. 52 W, including max. 6.4 W for IR and max. 8 W for
	heater)
Power	PoE 802.3bt, type4, class8, max. 90W (Max. 52 W, including max. 6.4 W for IR and
	max. 8 W for heater)
Dimension	Ø214.95 mm × 297.1 mm (Ø8.46" × 11.7")
Weight	Approx. 5 kg (11.02 lb.)
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F) , Humidity: ≤ 95%
General Function	mirror, password protection, watermark, IP address filter
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Language	33 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), Ukrainian
Approval	
EMC	CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3: 2013, EN 50130-4:2011 +A1: 2014), IC VoC (ICES-003: Issue 6, 2019), RCM (AS/NZS CISPR 32: 2015), KC (KN 32: 2015, KN 35: 2015)
Safety	CB (IEC 62368-1: 2014 + A11),CE-LVD (EN 62368-1: 2014/A11: 2017),LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	Lightning Protection, Surge Protection and Voltage Transient Protection,±6kV Line to Gnd, ±3kV Line to Line,IEC61000-4-5 IP67 Standard IK10
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)

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)	4320.0 m (14173.2	1714.3 m (5624.3	864.0 m (2834.6 feet) 433	432.0 m (1417.3 feet)
	feet)	feet)		432.0111 (1417.3 1661)

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-2DF7A836IXG-ELY has MODERATE protection. DS-2DF7A836IXG-EL has NO SPECIFIC protection.

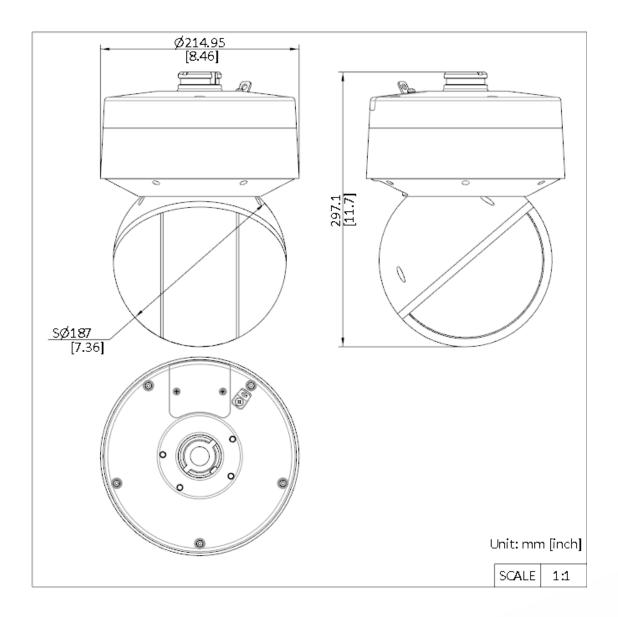
Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-Tever protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level 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 anacific 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-2DF7A836IXG-ELY

Dimension





Accessory

Optional

- p				
DS-2HZ9SDF37G-Y	DS-4660ZJ-PSLY	DS-1673ZJ-P-Y	DS-1276ZJ-P-Y	DS-1684ZJ-P-Y
DS-4603ZJ-PAAC	DS-1674ZJ-P-Y	DS-4612ZJ-PAAC	DS-4650ZJ-PSLY	











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