

DS-2DF8442I5XG1-ELWY 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 via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 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 laser distance
- Water and dust resistant (IP67) and vandal proof (IK10) excluding glass window
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles



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 (optical, wide-tele)		
	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	laser		
Supplement Light Range	Laser Distance: up to 500 m		
Smart Supplement Light	Yes		
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 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)	
Sub-Stream	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)	
Third Stream	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	
Video Compression	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)	H.264 and H.265 encoding	
Region of Interest (ROI)	8 fixed regions for each stream	
Target Cropping	No	
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 to 192 Kbps (MP2L2)	
	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz,	
Audio Sampling Rate	48kHzMP3: 8kHz, 16KHz, 32KHz, 48KHz	
Environment Noise Filtering	Yes	
Network		
Smooth Streaming	Yes	
Security	Password protection,complicated password,HTTPS encryption,802.1X authenticatio (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	
Network Storage	1.3,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2) NAS (NFS, SMB/ CIFS), ANR	
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	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T, Profile M), OTAP	
Simultaneous Live View	Up to 20 channels	
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User	
Client	HikCentral, iVMS-4200, Hik-Connect	
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+	
Image		
Image Parameters Switch	Yes	
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser	
Day/Night Switch	Day, night, auto, scheduled-switch	
Image Enhancement	BLC, HLC, 3D DNR	
Wide Dynamic Range (WDR)	150 dB WDR	
Defog	Optical defog	
Image Stabilization	Yes. Built-in gyroscope to improve EIS performance.	
Regional Exposure	Yes	
Regional Focus	Yes	



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		
Audia	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 10%; 1		
Audio	output (line out), line level, output impedance: 600Ω		
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		



	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
D 17 (C 1)/1:1	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
	monitoring scene, it triggers alarms, and tracks and captures the target. During the
Object Tracking	tracking, the target location and other related information are uploaded. Support 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	
Vandal-proof Alarm	No
Heater	Yes
Wiper	Yes
De-icing	No
Demist	Yes
General Function	Mirror, password protection, watermark, IP address filter
Power	36 VDC (Max. 40 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max. 40 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 266 mm × 410 mm (Ø 10.47" × 16.14")
Weight	Approx. 8 kg (17.64 lb.)
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
Language	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	CE EMO (EN EFO22, 204E EN 64000 2.3, 2040 EN 64000 3.2, 2042 EN E0400 4.2044
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011
EMC	+A1: 2014);
EMC	RCM (AS/NZS CISPR 32: 2015);
	IC VoC (ICES-003: Issue 6, 2019); KC (KN 32: 2015, KN 35: 2015)
	* N. INN 27 7012 NN 22 70131



	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)	
	CE-RoHS (2011/65/EU);	
Environment	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)	2372.4 m (7783.4 ft.)	941.4 m (3088.5 ft.)	474.5 m (1556.7 ft.)	237.2 m (778.2 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-2DF8442IXG1-EL and DS-2DF8442I5XG1-ELW have NO SPECIFIC PROTECTION. DS-2DF8442I5XG1-ELWY and DS-2DF8442I5XG1-ELY have MODERATE PROTECTION.

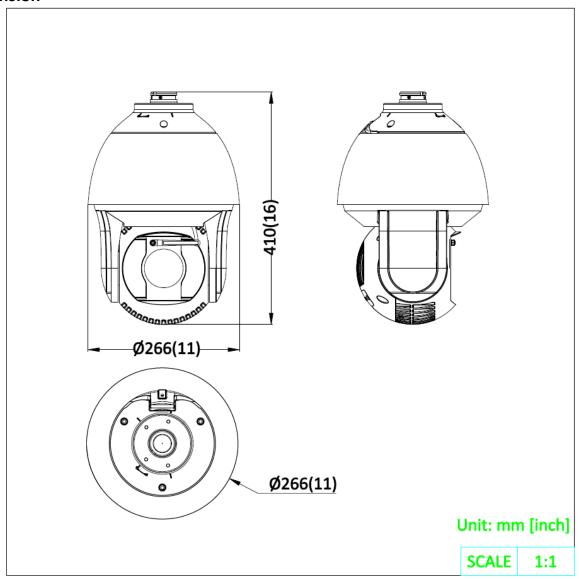
Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level 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 anasifia 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-2DF8442I5XG1-ELWY



Dimension



Accessory

Optional

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



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