

DS-2DF8C848I5XG1-ELW 8MP 48 × DarkFighter IR Network Speed Dome











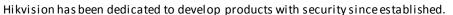












Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used 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.

- 1/1.2" 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
- 48 × 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
- Smart Pan-Tilt Correction





Specification

Camera			
Image Sensor	1/1.2 " progressive scan CMOS		
Min. Illumination	Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, 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	48x optical, 16x digital		
Max. Resolution	3840 × 2160		
Lens			
Focus	Auto, semi-auto, manual, rapid focus		
Focal Length	6.0 mm to 288 mm, 48× Optical		
Zoom Speed	approx. 7.8 s (optical, wide-tele)		
	Horizontal field of view: 61.0° to 1.7° (wide-tele),		
FOV	Vertical field of view: 35.9° to 1.0° (wide-tele),		
	Diagonal field of view: 68.5° to 1.9° (wide-tele)		
Aperture	Max. F1.6		
Illuminator			
Supplement Light Type	Laser		
Supplement Light Range	Laser 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		
TiltSpeed	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	panarama sean, asine reason, donne dajast, dan oatput		
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.		



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)		
	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		
Audio			
Audio Compression	G.711alaw, G.711ulaw, 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 to 64 Kbps (AAC_LC)		
Availta Cananalta a Data	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 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)		
Network Storage	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, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, WebSocket, WebSocket		
ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile M), OTAP			
Simultaneous Live View	Up to 20 channels		
User/Host	Up to 32 users 3 user levels: administrator, operator, and user		
Client	HikCentral, iVMS-4200, Hik-Connect		
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+		
Image			
Day/Night Switch	Day, night, auto, scheduled-switch		
Image Enhancement	BLC, HLC, 3D DNR		
Wide Dynamic Range (WDR)	140 dB		
Defog	Optical defog		
Image Stabilization	OIS		
Regional Exposure	Yes		
Regional Focus	Yes		
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser		



Image Parameters Switch	ch 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		
	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		
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Event			
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegallogin, 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 features 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		
	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	captare Mode. Declise Frateura Verilere Mode, Verilere Fronty Mode		
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			
	36 VDC(Max. 60 W, including max. 12 W for IR and max. 8 W for heater), PoE 802.3bt,		
Power	type3, class6 (Max. 60 W, including max. 12 W for IR and max. 8 W for heater)		
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%		
	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		
	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		
Demist	Yes		
Wiper	Yes. Rain-sensing auto control		
Dimension	Ø 267 mm × 430 mm (Ø 10.51" × 16.93")		
Weight	Approx. 9.6 kg (21.16 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),		
Safety	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)		
Protection	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient		
Trotection	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)	3972.4 (13032.8 ft)	1576.4m (5171.9 ft)	794.5 m (2606.6 ft)	397.2m (1303.2 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-2DF8C848I5XG1-ELW has NO SPECIFIC PROTECTION.

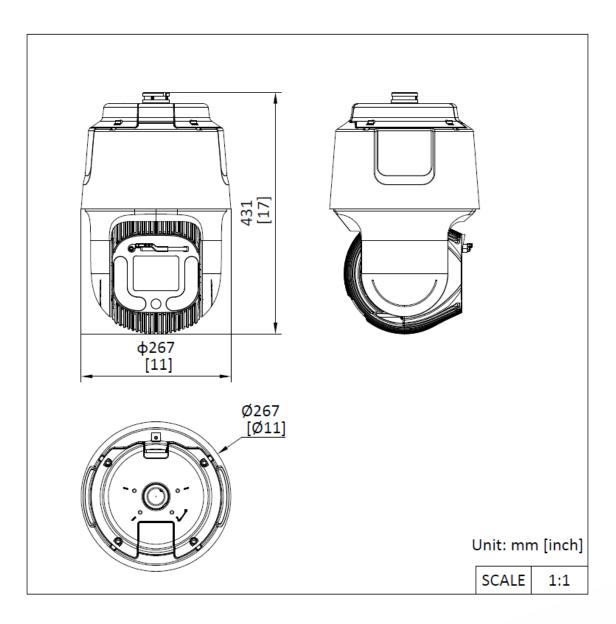
Level	Description	
	Hikvision products at this level are equipped for use in	
Ton lovel protection	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level 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-2DF8C848I5XG1-ELW

Dimension





Accessory

Optional

Optional				
DS-1673ZJ-P	DS-1684ZJ-P	DS-1674ZJ-P	DS-4650ZJ-PC	DS-4660ZJ-PC
			CO	
DS-1276ZJ-P	DS-4603ZJ-PA	DS-4612ZJ-PA		





Installation Methods

Horizontal Pole Mounting DS-1673ZJ-P+DS-4612 ZJ-PA	Vertical Pole Mounting DS-1684ZJ-P+DS-4603 ZJ-PA

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