

DS-2DF7C842IXG2/LM-EL

DeepinViewX DF7C Series 8MP 42X DarkFighter IR Network Speed Dome



DeepinView X





















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 400 m IR distance
- Water and dust resistant (IP67) and vandal proof (IK10) excluding glass window
- Smart Pan-Tilt Correction
- Dedicated large scale AI model for perimeter protection



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. 1 s (optical, wide-tele)		
	Horizontal field of view: 59.1° to 2°(wide-tele),		
FOV	vertical field of view: 34.1° to 1.1°(wide-tele),		
	diagonal field of view: 67° to 2.3°(wide-tele)		
Aperture	Max. F1.2		
Illuminator			
Supplement Light Type	IR		
Supplement Light Range	IR Distance: up to 400 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 160°/s; preset speed: 240°/s		
Tilt Speed	Tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/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,		
Video	panorama scan, dome reboot, dome adjust, aux output		
video	50 Hz: 50 fps (3840 × 2160, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 ×		
Main Stream	720); 60 Hz: 60 fps (3840 × 2160, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 × 720) 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	
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)	
Audia Campling 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	
	Password protection, complicated password, HTTPS encryption, 802.1X authentication	
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest	
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)	
Network Storage	NAS (NFS, SMB/ CIFS), ANR	
	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,	
Protocols	RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP	
	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T	
API	Profile M), OTAP	
	· ·	
Simultaneous Live View	Up to 20 channels	
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User	
Client	iVMS-4200,Hik-Connect	
Web Browser	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	
image Settings	client software or web browser	
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	Yes. Built-in gyroscope to improve EIS performance.	
Image Stabilization Regional Exposure	Yes. Built-in gyroscope to improve EIS performance. 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			
	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: $1 \text{ K}\Omega \pm 10\%$; 1			
Audio	output (line out), line level, output impedance: 600Ω			
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector			
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Large Models				
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering Perimeter Protection Dedicated large scale AI model for perimeter protection, reduce false alarms by 90% compared to conventional AI cameras (Wide) VCA range: up to 70 m(nighttime)/100 m(daytime)			
	(Tele) VCA range: up to 400 m Result based on standard setup and test environment This function is based on the large model technology combined with image			
Scenario-Aware Object Detection	classification detection. It can automatically detect and identify scene categories in the detection area, including road, intersection, toll station, petrol station, open-air square, vehicle entrance and exit, and person entrance and exit, etc. The PTZ camera will rotate 360° to capture and label the scenes. For automatically recognize the scene information of captured image. Real-time detection mode: the PTZ camera completes the full-scene capture, detection, and recognition output within 10 minutes in 360°. Scheduled detection mode: the scheduled time can be set, and pictures can be collected every day or week. The collected pictures will be stored in eMMC, and the detection results will be output at 2 AM by default. The detection results and labels can be uploaded as alarms, and the alarm should include the camera IP address, port No., channel No., capture time, upload time, picture, PTZ coordinates, label ID, label name, and OCR information, as well as the coordinates of each OCR.			
Event				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegallogin, HDD full, HDD error), alarminput and output, vandal-proof alam, audio exception detection, unattended baggage detection, object removal detection			
Smart Event	loitering detection, people gathering detection, fast moving detection, parking detection, unattended baggage detection, object removal detection			



Linkage	Upload to FTP/NAS/memory card,trigger alarm output,send email,notify surveillance center,trigger recording		
Deep Learning Function			
Multi-Target-Type Detection	Supports simultaneous detection and capture of human body, face and vehicle, Gets 7 face features, 13 human body features and 3 vehicle features, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle		
Face Comparison	Up to 10 face libraries. 30000 faces for each library. 80000 faces in total, Recognizes face identity via face modeling, grading and comparing to those in 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/region 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 hu monitoring scene, it triggers alarms, and tracks and captures the target tracking, the target location and other related information are uploaded vehicle arming. When the device detects the armed vehicles in the montriggers alarms, and tracks and captures the target. During the tracking location and other related information are uploaded.			
General	·		
Vandal-proof Alarm	No		
Heater	Yes		
Wiper	No		
De-icing	No		
Demist	Yes		
General Function Power	Mirror, password protection, watermark, IP address filter 36 VDC± 25%, max. 60 W (Max. 50 W, including max. 10 W for IR and max. 8 W for heater) PoE 802.3bt, type3, class6, max. 60W (Max. 50 W, including max. 10 W for IR and max. 8 W for heater)		



Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%		
Dimension	Ø 260 mm × 336.4 mm (Ø 10.24" × 13.24")		
Weight	Approx. 6.7 kg (14.77 lb.)		
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,		
Languago	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		
Approval			
	CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3: 2013, EN 50130-4:2011		
EMC	+A1: 2014);		
	RCM (AS/NZS CISPR 32: 2015);		
Safaty	CB (IEC 62368-1:2014+A11);		
Safety	CE-LVD (EN 62368-1:2014+A11:2017)		
	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		
riolection	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-2DF7C842IXG2/LM-EL and DS-2DF7C842IXG2/LM-ELW have NO SPECIFIC PROTECTION. DS-2DF7C842IXG2/LM-ELWY and DS-2DF7C842IXG2/LM-ELY have MODERATE PROTECTION.

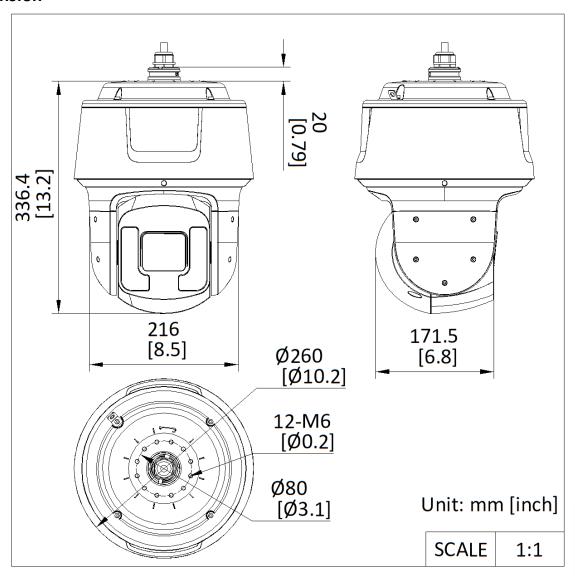
Level	Description
	Hikvision products at this level are equipped for use in
Top lovel protection	areas where professional anti-corrosion protection is a
Top-level protection	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are 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 anasific 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-2DF7C842IXG2/LM-EL

Dimension



Accessory

Optional











Installation Methods

Horizontal Pole Mounting DS-1673ZJ-P+DS-4612 ZJ-PA

Junction Box DS-1674ZJ-P+DS-4603 ZJ-PA

Wall Mounting DS-4603ZJ-PA

Corner Mounting
DS-4660ZJ-PC+DS-460
3ZJ-PA+DS-1674ZJ-P

Corner Mounting
DS-1276ZJ-P+DS-4603
ZJ-PA











Pendant Mounting DS-4612ZJ-PA

Vertical Pole Mounting DS-1684ZJ-P+DS-4603 ZJ-PA

Vertical Pole
Mounting
DS-4650ZJ-PC+DS-460
3ZJ-PA+DS-1674ZJ-P







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