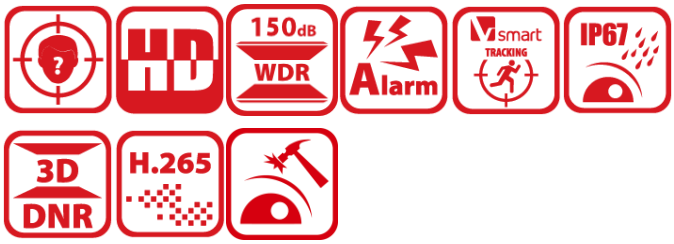
HIKVISION

DS-2DF7C825IXG2/LM-ELW

DeepinViewX DF7C Series 8MP 25X DarkFighter IR Network Speed Dome

DarkFighter 2.0

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
- 25 × 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: 0.0007 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, 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	25x optical, 16x digital
Max. Resolution	3840 × 2160
Lens	
Focus	Auto, semi-auto, manual, rapid focus
Focal Length	5.9 mm to 147.5 mm, 25× Optical
Zoom Speed	Approx. 4.8 s (optical, wide-tele)
FOV	Horizontal field of view: 58.8° to 3.1° (wide-tele), Vertical field of view: 34.4° to 1.7° (wide-tele), Diagonal field of view: 66° to 3.5° (wide-tele)
Aperture	Max. F1.5
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, panorama scan, dome reboot, dome adjust, aux output
Video	
Main Stream	50 Hz: 50 fps (3840 × 2160, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 × 720); 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)
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)	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)
Audio Sampling Rate	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz, 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, DHCP, PPPoE, UDP, IGMP, ICMP
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	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 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	Digital 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
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%; 1 output (line out), line level, output impedance: 600 Ω
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
Scenario-Aware Object Detection	This function is based on the large model technology combined with image 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, illegal login, HDD full, HDD error),alarm input 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 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	
Smart Tracking	Manual tracking, auto-tracking 3.0
Object Tracking	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 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± 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.)
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); RCM (AS/NZS CISPR 32: 2015);
Safety	CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014+A11:2017)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Anti-Corrosion Protection	No
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)	2950.0 m (9678.5 ft.)	1170.6 m (3840.6 ft.)	590.0 m (1935.7 ft.)	295.0 m (967.9 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.

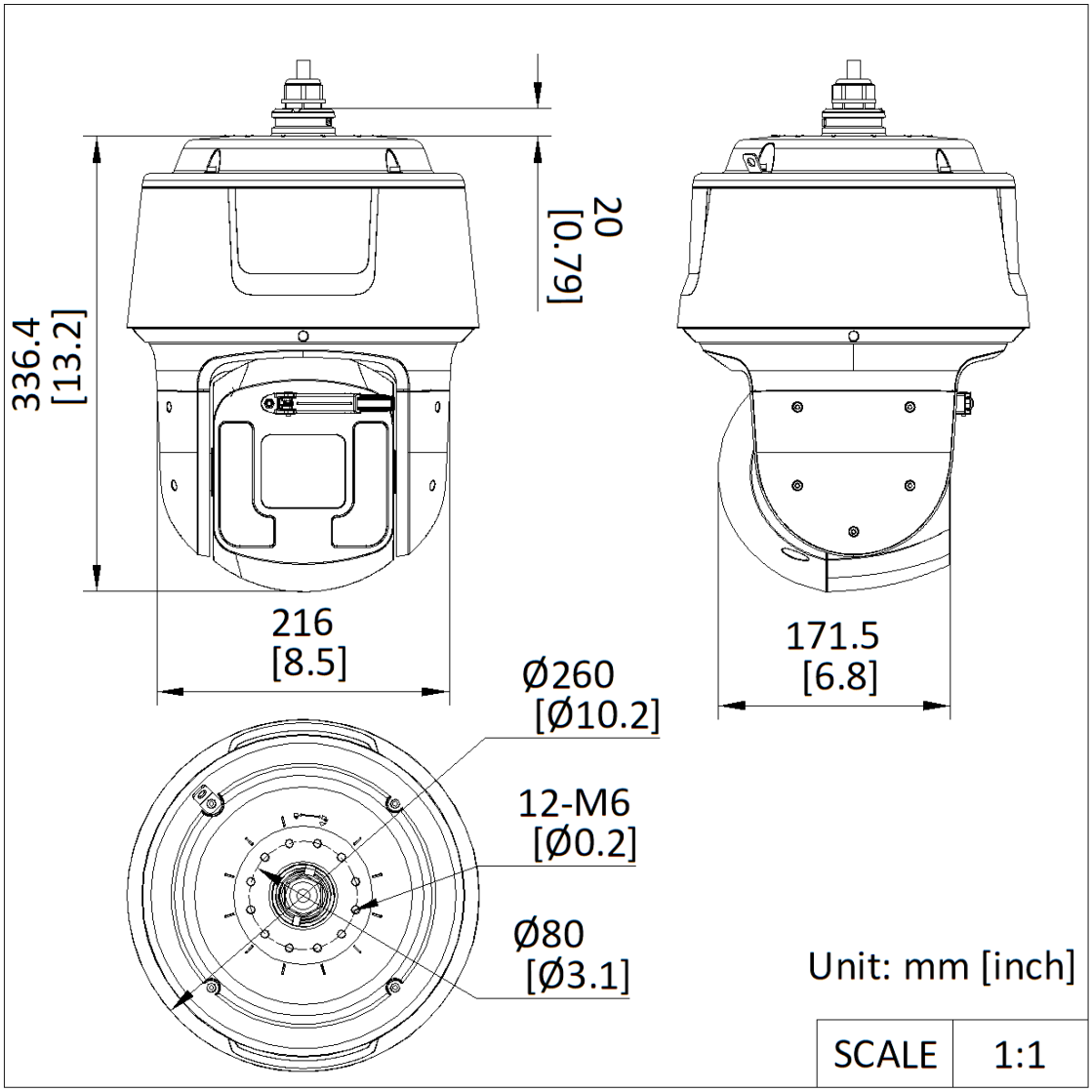
DS-2DF7C825IXG2/LM-EL and DS-2DF7C825IXG2/LM-ELW have NO SPECIFIC PROTECTION.
DS-2DF7C825IXG2/LM-ELY and DS-2DF7C825IXG2/LM-ELWY have MODERATE PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical 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 areas where no specific anti-corrosion protection is needed.

▪ Available Model

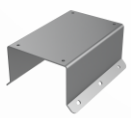
DS-2DF7C825IXG2/LM-ELW

▪ Dimension

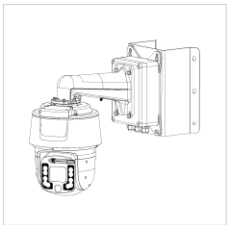
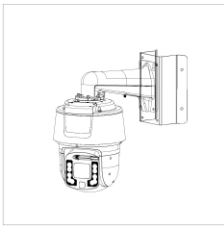
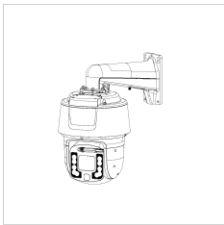
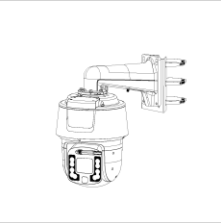


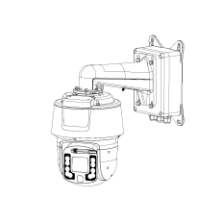
▪ Accessory

▪ Optional

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

▪ Installation Methods

Corner Mounting DS-4660ZJ-PC+DS-4603ZJ-PA+DS-1674ZJ-P	Corner Mounting DS-1276ZJ-P+DS-4603ZJ-PA	Wall Mounting DS-4603ZJ-PA	Vertical Pole Mounting DS-4650ZJ-PC+DS-4603ZJ-PA+DS-1674ZJ-P	Vertical Pole Mounting DS-1684ZJ-P+DS-4603ZJ-PA
				

Horizontal Pole Mounting DS-1673ZJ-P+DS-4612ZJ-PA	Junction Box DS-1674ZJ-P+DS-4603ZJ-PA	Pendant Mounting DS-4612ZJ-PA
		

See Far, Go Further

www.hikvision.com
support@hikvision.com

© Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.