

HIKVISION

DS-2DF8C435MHG1-ELWYP

8C Series 4MP 35X DarkfighterX Traffic Network Speed Dome







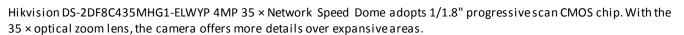












This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.

- Dual sensor 1/1.8" progressive scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighterX technology
- 35× optical zoom and 16× digital zoom provide close up views over expansive areas
- 300 m IR distance
- Water and dust resistant (IP67) and vandal resistant (IK10)
- Efficient H.265+/H.265 compression technology
- Smart Pan-Tilt Correction
- Multiple violations supported: illegal parking detection, reverse driving detection, over lane line detection, illegallane change detection, vehicle on non-motor vehicle lane, U-turning detection



Specification

Camera			
Image Sensor	Two sensors, 1/1.8" progressive scan CMOS		
Min. Illumination	Color: 0.0004 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with I		
Shutter Speed	1/30s~1/30000 s		
Slow Shutter	Yes		
Day & Night	IR cut filter		
Zoom	35x optical, 16x digital		
Max. Resolution	2688 × 1520		
Lens			
Focus	Auto/manual/semi - auto		
Focal Length	5.9mm to 206.5 mm, 35× Optical		
Zoom Speed	Approx. 4.3 s		
•	Horizontal field of view: 60.2° to 2.24°(wide-tele),		
FOV	vertical field of view: 36° to 1.26°(wide-tele),		
	diagonal field of view: 68° to 2.56°(wide-tele)		
Aperture	Max. F1.6		
Illuminator			
Supplement Light Type	Hybrid		
Supplement Light Range	up to 300 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		
Tilt Speed	Tilt speed: configurable from 0.1° to 150°/s, preset speed: 250°/s		
Proportional Pan	Yes		
Presets	300		
Patrol Scan			
Pattern Scan	8 patrols, up to 32 presets for each patrol 4 pattern scans, record time over 10 minutes for each scan		
Power-off Memory	Yes		
Power-off Memory	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,		
Park Action			
3D Positioning	panorama scan		
PTZ Status Display	Yes		
· '	Yes		
Preset Freezing	Yes		
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,		
ve i	panorama scan, dome reboot, dome adjust, aux output		
Video			
	50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 ×		
Main Channe	720);		
Main Stream	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		
	*High frame rate is supported under monitoring mode only.		
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)		



	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 × 280			
	Main stream: H.265+/H.265/H.264+/H.264			
Video Compression	Sub-stream: H.265/H.264/MJPEG			
video compression	Third stream: H.265/H.264/MJPEG			
Video Bit Rate				
H.264 Type	32 Kbps~16 Mbps Raseline Profile/Main Profile/High Profile			
H.265 Type	Baseline Profile/Main Profile/High Profile 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.711/MP3/MP2L2/G.722.1/G.726/AAC-LC/PCM			
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/8~320 Kbps(MP3)/32~192 Kbps(MP2L2)/16			
	Kbps(G.722.1)/16 Kbps(G.726)/16~64 Kbps(AAC-LC)			
Audio Sampling Rate	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz,			
<u> </u>	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			
Protocols	UDP,IPv6,IPv4,ICMP,TCP/IP,DNS,DHCP,IGMP,RTP,RTSP,NTP,QoS,HTTP,802.1X,SSL/TLS			
110000013	HTTPS,DDNS,FTP,SNMP,WebSockets,RTCP,WebSocket,SFTP,PPPoE,SMTP,UPnP			
API	ISAPI,EZVIZ,Open Network Video Interface,ISUP,OTAP,SDK			
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			
Imaga Cattings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by			
Image Settings	client software or web browser			
Day/Night Switch	Schedule,Night,Day,Auto			
Image Enhancement	BLC, HLC, 3D DNR			
Wide Dynamic Range (WDR)	150 dB WDR			
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			
•	≥ 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 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	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Event				
Docio Event	alarminput and output, Motion detection, exception (HDD full, HDD error, network			
Basic Event	disconnected,IP address conflict,illegal login,abnormal restart), video tampering alarm			
Unline	audible warning, trigger alarm output, trigger recording, notify surveillance center, send			
Linkage	email,Upload to FTP/NAS/memory card			
Deep Learning Function				
	Traffic Violation Evidence Collection: illegal parking, reverse driving, over lane line			
	detection, continuous lane change, motor vehicle on non-motor vehicle lane, U-turn,			
	slalom driving, illegal lane change, and queue jumping.			
	Traffic Data Collection: Traffic Flow.			
	Road incident detection: (1) Road incident detection for highways and elevated roads:			
Intelligent Transportation	fallen object detection, pedestrian detection, congestion detection, roadblock			
System	detection, construction detection, traffic accident detection, fog detection, smoke			
	detection, and fire detection; (2) Road incident detection for urban roads: congestion			
	detection, roadblock detection, construction detection, traffic accident detection, fog			
	detection, smoke detection, and fire detection			
	Supports general highway incident detection: supports pothole detection, crack			
	detection, and alligator cracking detection			
General				
Vandal-proof Alarm	No			
Heater	Yes			
Wiper	Yes			
De-icing	No			
Demist	Yes			
General Function	IP address filter,mirror,password reset via email,third stream			
	36 VDC± 25%, max. 90 W (Max. 50 W, including max. 15 W for IR and max. 6 W for			
Power	heater)			
	PoE 802.3bt, type4, class7, max. 75W (Max. 50 W, including max. 15 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	Ø267 mm × 431 mm (Ø10.5" × 16.9")			
Weight	Approx. 10 kg (22.05 lb.)			
Dimension	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95% Ø267 mm × 431 mm (Ø10.5" × 16.9")			



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	
	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);
Safety	CB (IEC 62368-1:2014+A11);
Salety	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	NEMA 4X
Protection	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient
FIOLECTION	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)	2848.3 m	1130.3 m	569.7 m	284.8 m

Typical Application

Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-rever 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.	

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

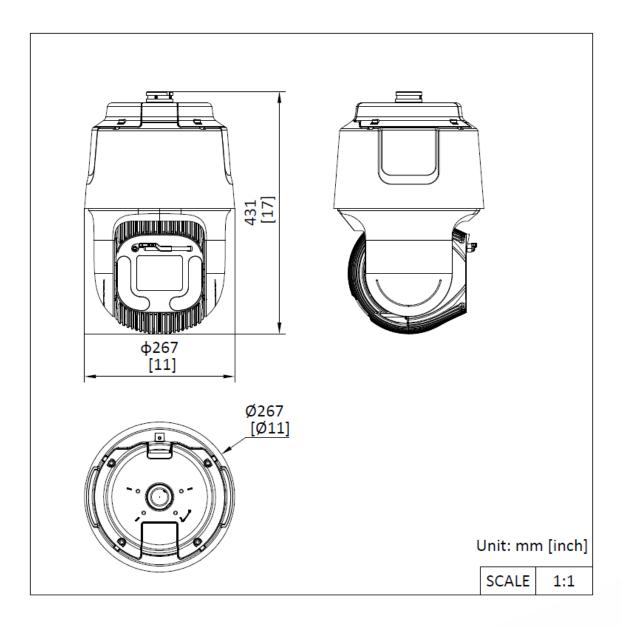
This model has MODERATE PROTECTION.

Available Model

DS-2DF8C435MHG1-ELWYP

Dimension





Accessory

Optional

DS-1684ZJ-P-Y	DS-1276ZJ-P-Y	DS-1673ZJ-P-Y	DS-4612ZJ-PAAC	DS-4603ZJ-PAAC

See Far, Go Further



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