

# DS-2DF8C442IXG-ELW 4 MP 42 × Network IR Speed Dome





Hikvision DS-2DF8C442IXG-ELW 4 MP 42  $\times$  Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 42  $\times$  optical zoom lens, the camera offers more details over expansive areas. 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.

- 1/1.8" progressive scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighter 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 resistant (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	1/1.8" progressive scan CMOS			
Min. Illumination	Color: 0.001 Lux @ (F1.6, AGC ON), B/W: 0.0005 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	42 × optical, 16 × digital			
Max. Resolution	2560 × 1440			
Lens				
Focus	Auto, semi-auto, manual, rapid focus			
Focal Length	7.1 mm to 298.2mm			
Zoom Speed	Approx. 5.4 s			
	Horizontal field of view: 56.62° to 2.43° (wide-tele),			
FOV	Vertical field of view: 33.08° to 1.39° (wide-tele),			
	Diagonal field of view: 63.96° to 2.79° (wide-tele)			
Aperture	Max. F1.6			
Illuminator				
Supplement Light Type	IR			
Supplement Light Range	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 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: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)			
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)			
	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			
video compression				
Video Bit Rate	Third stream: H.265/H.264/MJPEG  32 Kbps to 16384 Kbps			
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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)			
Network				
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, WebSockets			
API	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T), OTAP			
Simultaneous Live View	Up to 20 channels			
User/Host	Up to 32 users 3 user levels: administrator, operator, and user			
	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Security	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Security	authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings,			
	security audit log, TLS 1.3, host authentication (MAC address)			
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	Yes			
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)			
Regional Exposure	Yes			
Regional Focus	Yes			
	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by			
Image Settings	client software or web browser			
Image Parameters Switch	Yes			
Privacy Mask	Up to 24 masks, mosaic mask, mask color configurable, rectangle region			
SNR	≥ 52 dB			
Interface				
Video Output	1.0 V[p-p]/75 Ω, PAL, NTSC, BNC connector			
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port			
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB			
Alarm	7 inputs, 2 outputs			



	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ ± 10%; 1			
Audio	output (line out), line level, output impedance: $600 \Omega$			
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Event	Train duples, this is in the coordinate of the c			
Basic Event	motion detection, video tampering alarm, alarm input, alarm output, exception			
Dasic Everit				
Cmart Frant	Line crossing detection, region entrance detection, unattended baggage detection,			
Smart Event	object removal detection, intrusion detection, region exiting detection, vandal-proof			
C 17 1:	alarm, audio exception detection			
Smart Tracking	Manual tracking, auto-tracking			
Alarm Linkage	Preset, patrol scan, pattern scan, memory card video recording, alarm output, sending			
_	email, notify surveillance center, upload to FTP, NAS video recording, audible warning			
Deep Learning Function				
	Support detecting up to 30 faces at the same time. Support detecting, tracking,			
Face Capture	capturing, grading, selecting of face in motion, and output the best face picture of the			
	face			
Face Comparison	Yes			
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting			
remmeter Protection	Support alarm triggering by specified target types (human and vehicle)			
<b>Road Traffic and Vehicle Dete</b>	ction			
- 1- 60	Support vehicle detection (license plate number, vehicle model, and vehicle color			
Road Traffic	recognition)			
General				
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%			
	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			
Power Consumption and	24 VAC (Max. 62 W, including max. 12 W for IR and max. 8 W for heater), PoE 802.3 bt			
Current	(Max. 51 W, including max. 12 W for IR and max. 8 W for heater)			
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	Approx. 3.0 kg (21.10 lb.)			
Арріочаі	FCC SDoC (47 CFR Part 15, Subpart B);			
	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);			
	IC VoC (ICES-003: Issue 6, 2019);			
	KC (KN 32: 2015, KN 35: 2015)			
Safety	UL (UL 62368-1)			
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);			
	CE-LVD (EN 62368-1:2014+A11:2017),			
	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);			
	LOA (SANS IEC60950-1)			
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU);			
	Reach (Regulation (EC) No 1907/2006)			



	IP67 Standard, IK10 (IEC 62262:2002), 6000V Lightning Protection, Surge Protection
Protection	and Voltage Transient Protection

#### - 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.

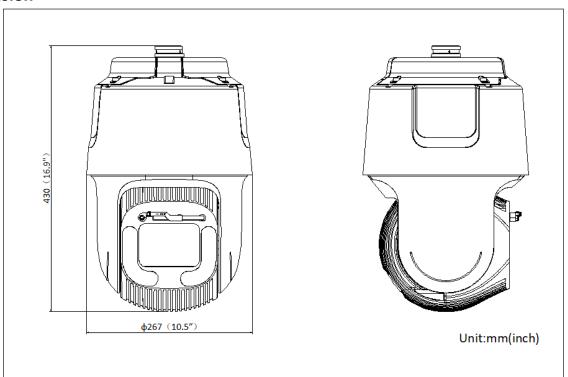
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

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)

#### Available Model

DS-2DF8C442IXG-ELW

## Dimension



## Accessory

## Optional

DS-1661ZJ-P	DS-1603ZJ-Pole-P	DS-1603ZJ-P
<b>Pendant Mount</b>	Vertical Pole Mount	Wall Mount









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