

DS-2DF7C445IXR-AEL(T5) 4 MP 45 × IR Network Speed Dome



Hikvision DS-2DF7C445IXR-AEL(T5) 4 MP 45 \times IR Network Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 45 \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 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

HIKVISION

- Excellent low-light performance with powered-by-DarkFighter technology
- 45× optical zoom and 16× digital zoom provide close up views over expansive areas
- 120 dB WDR, 3D DNR, HLC, Smart IR
- Expansive night view with up to 180 m IR distance
- Supports rapid focus
- Water and dust resistant (IP66)





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)	4020 m (13189 ft)	1595.2 m (5233.6 ft)	804 m (2637.8 ft)	402 m (1318.9 ft)

Specification		
Camera		
Image Sensor	1/1.8" progressive scan CMOS	
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.0005 Lux @ (F1.5, AGC ON), 0 Lux with IR	
Shutter Speed	1/3 s to 1/30,000 s	
Slow Shutter	Yes	
Day & Night	IR cut filter	
HLC	Yes	
Zoom	45 × optical, 16 × digital	
Max. Resolution	2560 × 1440	
Lens		
	Horizontal field of view: 60.2° to 1.7°	
FOV	Vertical field of view: 35.2° to 1°	
	Diagonal field of view: 67.4° to 1.8°	
Focus	Auto, semi-auto, manual, rapid focus	
Zoom Speed	Approx. 8.5 s	
Focal Length	5.9 to 265.5 mm	
Aperture	Max. F1.5	
Illuminator		
Supplement Light Type	IR	
Supplement Light Range	Up to 180 m	
PTZ		
Movement Range (Pan)	360°	
Movement Range (Tilt)	-15° to 90° (auto flip)	
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: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720),	
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)	
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	
Н.264 Туре	Baseline profile, main profile, high profile	
Н.265 Туре	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	
Audia Dit Data	MP2L2: 32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128	
Audio Bit Rate	kbps, 144 kbps, 160 kbps	
Network		
Network Storage	NAS (NFS, SMB/CIFS), ANR	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,	
FIOLOCOIS	RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK	
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user	
	Password protection, complicated password, HTTPS encryption, 802.1X	
Security	authentication, watermark, IP address filter, control timeout settings, security audit	
	log, TLS 1.2, host authentication (MAC address)	
Client	iVMS-4200, HikCentral, Hik-Connect	
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+	
Image		
Image Enhancement	BLC, HLC, 3D DNR	
Wide Dynamic Range (WDR)	120 dB	
Defog	Digital defog	
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)	
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	Yes	
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable	
SNR	≥ 52 dB	



Interface		
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port	
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB	
Alarm	7 inputs, 2 outputs	
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 10%;	
Addio	1 output (line out), line level, output impedance: 600 Ω	
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)	
Event		
Basic Event	Motion detection, video tampering alarm, exception, alarm input and output	
	Line crossing detection, intrusion detection, region entrance detection, region exiting	
Smart Event	detection, unattended baggage detection, object removal detection, audio exception detection	
Smart Tracking	Manual tracking, auto-tracking	
Alarm Linkaga	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm	
Alarm Linkage	output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)	
Deep Learning Function		
	Detects up to 15 faces simultaneously.	
Face Capture	Supports detecting, capturing, grading, selecting of face in motion, and outputs the	
	best face picture	
General		
Power	24 VAC, 3.0 A, 50/60 Hz & Hi-PoE, 42.5 to 57 VDC, 1.41 A	
	(Max. 40 W, includes max. 16 W for IR and max. 10 W for heater)	
General Function	Mirror, password protection	
Dimension	Ø 226 mm × 354 mm (Ø 8.90" × 13.94")	
Weight	Approx. 5.0 kg (11.02 lb.)	
Approval		
	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)	
	UL (UL 62368-1)	
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);	
Safety	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)	
Protection	IP66 (IEC 60529-2013), TVS 6000V lightning protection, surge protection and voltage	
	transient protection	

Available Model

DS-2DF7C445IXR-AEL(T5)



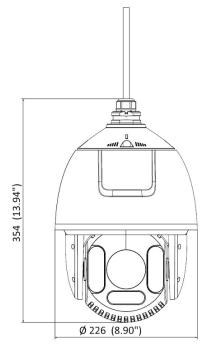
Typical Application

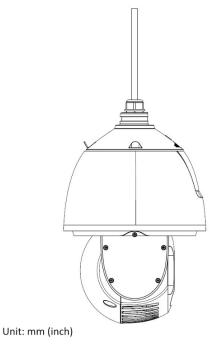
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC 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.

Dimension





Accessory

Optional

DS-1602ZJ

DS-1602ZJ-pole

DS-1602ZJ-corner

DS-1661ZJ







Headquarters No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

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