# HIKVISION®

**Dark Fighter** 

## DS-2DF8C448I5XS-AELW(T5) 4 MP 48× Network Laser Speed Dome





Hikvision DS-2DF8C448I5XS-AELW(T5) 4MP 48× Network Laser Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 48× 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
- 48× optical zoom and 16× digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m laser distance
- Water and dust resistant (IP67)
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles





#### 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)	4600 m (15091.9 ft)	1825 m (5987.5 ft)	920 m (3018.4 ft)	460 m (1509.2 ft)

#### Specification

1/1.8" progressive scan CMOS	
Color: 0.002 Lux @ (F1.5, AGC ON), B/W: 0.0002 Lux @ (F1.5, AGC ON)	
1/1 s to 1/30,000 s	
Yes	
IR cut filter	
48x optical, 16x digital	
2560 × 1440	
Auto, semi-auto, manual, rapid focus	
6.0 to 288 mm	
Approx. 7.8 s	
Horizontal field of view: 60.0° to 2.0° (wide-tele),	
Vertical field of view: 35.8° to 1.2° (wide-tele),	
Diagonal field of view: 67.0° to 2.4° (wide-tele)	
Max. F1.5	
Laser	
Laser Distance: up to 500 m	
Yes	
360°	
-20° to 90° (auto flip)	
Pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s	
Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s	
Yes	
300	
8 patrols, up to 32 presets for each patrol	
4 pattern scans, record time over 10 minutes for each scan	
Yes	
Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan	
panorama scan	



Yes Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 24 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 24 fps (704 × 480, 640 × 480, 352 × 240) 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 24 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Main stream: H.265/H.264/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264/MJPEG 32 Kbps to 16384 Kbps Baseline Profile/Main Profile/High Profile Main Profile H.264 and H.265 encoding	
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Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264/MJPEG 32 Kbps to 16384 Kbps Baseline Profile/Main Profile/High Profile Main Profile	
Third stream: H.265/H.264/MJPEG 32 Kbps to 16384 Kbps Baseline Profile/Main Profile/High Profile Main Profile	
32 Kbps to 16384 Kbps Baseline Profile/Main Profile/High Profile Main Profile	
Baseline Profile/Main Profile/High Profile Main Profile	
Main Profile	
H.264 and H.265 encoding	
8 fixed regions for each stream	
G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM	
64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)	
NAS (NFS, SMB/ CIFS), ANR	
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	
ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T)	
Up to 20 channels	
Up to 32 users 3 user levels: administrator, operator, and user	
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, RTP/RTSP over HTTPS, control timeout settings,	
security audit log, TLS 1.3, host authentication (MAC address)	
HikCentral, iVMS-4200, Hik-Connect	
IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+	
Day, night, auto, scheduled-switch	
BLC, HLC, 3D DNR	
140 dB	
Optical defog	
OIS	
Yes	
Yes	



Image Parameters Switch	Yes		
Privacy Mask	Up to 24 masks, mosaic mask, mask color configurable, rectangle region		
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 cards, 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 $\Omega$ ± 10%; 1 output (line out), line level, output impedance: 600 $\Omega$		
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Event	· ······		
Basic Event	Audio exception, motion detection, video tampering alarm, alarm input, alarm output, exception		
Smart Event	Line crossing detection, region entrance detection, unattended baggage detection, object removal detection, intrusion detection, region exiting detection, vandal-proof 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		
Deep Learning Function			
Face Capture	Support detecting up to 30 faces at the same time. Support detecting, tracking, 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 Support alarm triggering by specified target types (human and vehicle)		
Road Traffic and Vehicle Dete			
Road Traffic	Support vehicle detection (license plate number, vehicle model, and vehicle color recognition)		
General			
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%		
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		
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		
	FCC SDoC (47 CFR Part 15, Subpart B);	
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013+A1:2019, EN	
EMC	50130-4: 2011 +A1: 2014);	
LIVIC	RCM (AS/NZS CISPR 32: 2015);	
	IC VoC (ICES-003: Issue 7);	
	KC (KN 32: 2015, KN 35: 2015)	
	UL (UL 62368-1)	
	CB (IEC 62368-1:2014+A11);	
Safety	CE-LVD (EN 62368-1:2014+A11:2017),	
	BIS (IS 13252(Part 1):2010/ IEC 60950-1: 2005);	
	LOA (IEC/EN 60950-1)	
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU);	
Environment	Reach (Regulation (EC) No 1907/2006)	
Protection	IP67 (IEC 60529-2013), 6000V Lightning Protection, Surge Protection and Voltage	
FIOLECIUM	Transient Protection	

### Available Model

DS-2DF8C448I5XS-AELW (T5)

#### Typical Application

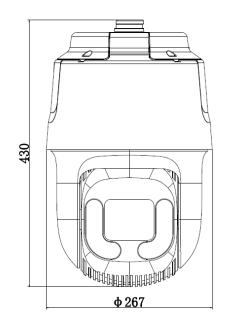
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

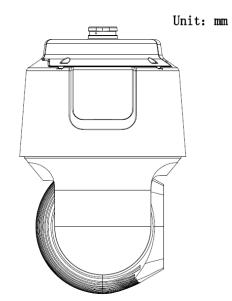
This model has NO SPECIFIC PROTECTION.

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-1661ZJ-P	DS-1602ZJ-P	DS-1602ZJ-pole-P
Pendant Mount	Wall Mount	Pole Mount
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Distributed by

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#### Headquarters

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

Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com

Hikvision India T +91-22-28469900 sales@pramahikvision.com

Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T +601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33(0)1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-(0)31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

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