HIKVISION®

DS-2DF9C435IHS-DLW(T2)
4 MP 35× Network IR PTZ Camera

DarkFighterX

Hikvision DS-2DF9C435IHS-DLW　(T2) 4 MP 35 × Network IR PTZ Camera belongs to the DarkFighterX camera family. With the patented dual-sensor design, it is able to process color and brightness independently and outputs one FULL-COLOR image. This series of cameras can be widely used for wide ranges of high-definition, such as the river, forest, road, railway, airport, port, square, park, scenic spot, station and large venue, etc.

Key Feature

- Dual-sensor, 1/1.8" progressive scan CMOS
- Full-color image output
- Up to 2688 × 1512 resolution
- Min. illumination:
  Color: 0.0005 Lux @ (F1.6, AGC ON)
  B/W: 0.0001 Lux @ (F1.6, AGC ON)
  0 Lux with IR
- 35 × optical zoom, 16 × digital zoom
- 140 dB WDR, 3D DNR, HLC, BLC, EIS, Optical Defog
- Support H.265+/H.265 video compression
- Support rapid focus
- Deep-learning-based target classification algorithm for auto-tracking 3.0 and perimeter protection
- Up to 500 m IR distance. Smart IR
- Rain-sensing auto wiper

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)	2606.9 m (8552.8 ft)	1034.5 m (3394.0 ft)	521.4 m (1710.6 ft)	260.7 m (854.3 ft)

▪ Specification

Camera	
Image Sensor	1/1.8" progressive scan CMOS, dual-sensor structure
Min. Illumination	Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/1 to 1/30,000 s
Slow Shutter	Yes
Day & Night	Controlled by dual-sensor
Zoom	35x optical, 16x digital
Max. Resolution	2688 × 1512
Lens	
Focus	Auto, semi-auto, manual, rapid focus
Focal Length	5.9 mm to 206.5 mm
Zoom Speed	Approx. 4.4 s
FOV	Horizontal field of view: 58.9° to 2.2°(wide-tele)
	Vertical field of view: 35.3° to 1.2°(wide-tele)
	Diagonal field of view: 65.9° to 2.5° (wide-tele)
Aperture	Max. F1.6
Illuminator	
Supplement Light Range	IR Distance: up to 500 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-25° to 90° (auto flip)
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	50Hz: 25fps (2688 × 1512, 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2688 × 1512, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (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

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 Kbps to 192 Kbps (MP2L2)

Network

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
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users, 3 user levels: administrator, operator, and user
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Web Browser	IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+

Image

Day/Night Switch	Day, night, auto, scheduled-switch
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range (WDR)	140 dB WDR
Defog	Optical 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	Up to 24 masks, polygon region, mosaic mask, mask color configurable
SNR	≥ 55 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

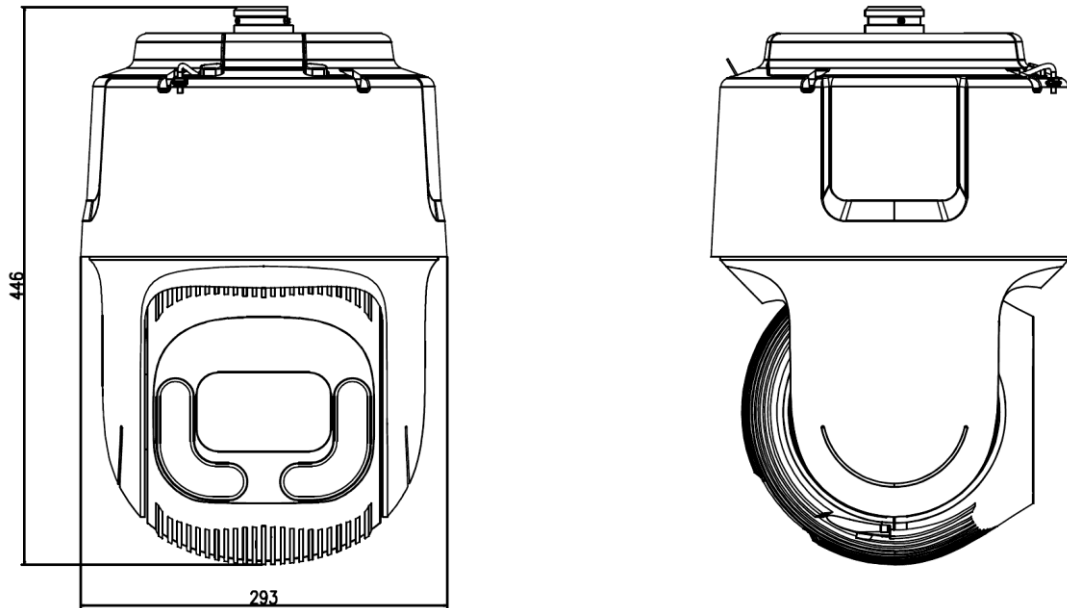| Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%; 1 output (line out), line level, output impedance: 600 Ω
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Event	
Basic Event	Motion detection, video tampering alarm, alarm input and output, exception
Smart Event	Object removal detection, unattended baggage detection, intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
Smart Tracking	Manual tracking, auto-tracking
Alarm Linkage	Preset, patrol scan, pattern scan, memory card video recording, alarm output, send email, notify surveillance center, upload to FTP, smart tracking, NAS video recording
Deep Learning Function	
Face Capture	Detects up to 30 faces at the same time. Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture
Road Traffic and Vehicle Detection	
Road Traffic	Supports vehicle detection (license plate number, vehicle model, and vehicle color recognition)
General	
Vandal-proof Alarm	Yes
General Function	Mirror, password protection, watermark, IP address filter
Power	36 VDC, max. 90 W, including max. 18 W for IR
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
Wiper	Yes. Rain-sensing auto control
Material	ADC12
Dimension	Ø 293 mm × 422 mm (Ø 11.5" × 16.6")
Weight	Approx. 13 kg (28.7 lb)
Language	32 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)
Approval	
EMC	Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5
Protection	IP67

▪ 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

Included:

EUV-150S036ST-KW02
Power adapter

Installation Adapter

Optional:

DS-1603ZJ-P
Wall mount

DS-1603ZJ-Pole-P
Vertical pole mount

DS-1668ZJ(20)-P
Pendant mount

DS-1668ZJ-P
Pendant mount

DS-1619ZJ-HP2
Gooseneck Mount

DS-1603ZJ-Corner-P
Corner mount

▪ **Available Model**

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