DS-2DF9C435IH-DLW
4MP 35× Network IR PTZ Camera

Hikvision DS-2DF9C435IH-DLW 4MP 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 @(F1.5, AGC ON)
  B/W: 0.0001 Lux @(F1.5, AGC ON)
  0 Lux with IR
- 35× optical zoom, 16× digital zoom
- 120 dB WDR, 3D DNR, HLC, BLC, EIS, Chromatic Defog
- Support H.265+/H.265 video compression
- Support rapid focus
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection
- Up to 250 m IR distance. Smart IR
- Rain-sensing auto wiper
- IP67

Specification

Camera Module	
Image Sensor	Dual-sensor, 1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @(F1.5, AGC ON) B/W: 0.0001 Lux @(F1.5, AGC ON) 0 lux with IR
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp
Gain	Auto/Manual
Shutter Time	50Hz: 1/1 s to 1/30,000 s 60Hz: 1/1 s to 1/30,000 s
Day & Night	Controlled by dual-sensor
Digital Zoom	16×
Privacy Mask	24 programmable privacy masks with configurable color
Focus Mode	Auto/Semi-automatic/Manual
WDR	120 dB
Rapid Focus	Yes
Lens	
Focal Length	5.9 mm to 206.5 mm, 35× Optical
Zoom Speed	Approx. 4.4 s (optical lens, wide-tele)
Field of View	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)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.6 to F4.4
IR	
IR Distance	Up to 250 m
Smart IR	Yes
PTZ	
Movement Range (Pan)	360° endless
Pan Speed	Configurable, from 0.1°/s to 210°/s, Preset Speed: 280°/s
Movement Range (Tilt)	From -25° to 90°
Tilt Speed	Configurable, from 0.1°/s to 150°/s Preset Speed: 250°/s
Proportional Zoom	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	On/off
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
Compression Standard	
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
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Yes

H.265 Type	Main Profile
H.265+	Yes
Video Bitrate	32 Kbps to 16384 Kbps
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Audio Bitrate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)
SVC	Yes
Smart Feature	
Perimeter Protection	Intrusion, Line Crossing, Region Entrance, Region Exiting Support alarm triggering by specified target types (human and vehicle) Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.
Event Detection	Unattended Baggage Detection, Object Removal Detection, Face Detection, Audio Exception Detection Motion Detection, Video Tempering Alarm, Exception (HDD Full, HDD Error, Illegal Login, IP Address Conflict, Network Disconnected)
Smart Tracking	Manual Tracking, Auto Tracking (support tracking specified target types such as human and vehicle), Event Tracking
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
ROI	Main stream, sub-stream and third stream respectively support eight fixed areas.
Image	
Max. Resolution	2688 × 1512
Main Stream	50Hz: 25fps (2688 × 1512, 2560 × 1440, 2048 × 1536,1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2688 × 1512, 2560 × 1440, 2048 × 1536,1920 × 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)
Image Enhancement	HLC/BLC/3D DNR/Chromatic Defog/EIS/Regional Exposure/Regional Focus
Network	
Network Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NFS, SMB/ CIPS), ANR
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Alarm Output, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
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	Open-ended, support ONVIF, and CGI, support HIKVISION SDK and Third-Party Management Platform
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Client	iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect, Hik-Central
Web Browser	IE8+, Chrome31-44, Firefox30-51, Safari 8.0-12
Interface	
Alarm	7-ch alarm input/2-ch alarm output
Audio	1-ch Audio Input, 2.0 to 2.4Vp-p, 1k Ohm±10% 1-ch Audio output Line level, impedance: 600Ω
Network Interface	1 RJ45 self-adaptive 10 M/100 M Ethernet Interface
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive
BNC	1.0V [p-p]/75 Ω, NTSC (or PAL) composite, BNC
General	
Power	36 VDC, max. 105 W (includes max. 18 W for IR)
Working Environment	Temperature: Outdoor: -40°C to 70°C (-40°F to 158°F) Humidity: ≤ 90%

Protection Level	IP67 Standard. Lightning protection, surge protection and voltage transient protection meets IEC61000-4-2-2/3/4/5/6
Wiper	Yes. Rain-sensing auto control
Material	ADC12
Dimensions	Φ 293 mm × 422 mm (Φ 11.5" × 16.6")
Weight	Approx. 12 kg (26.5 lb.)

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.

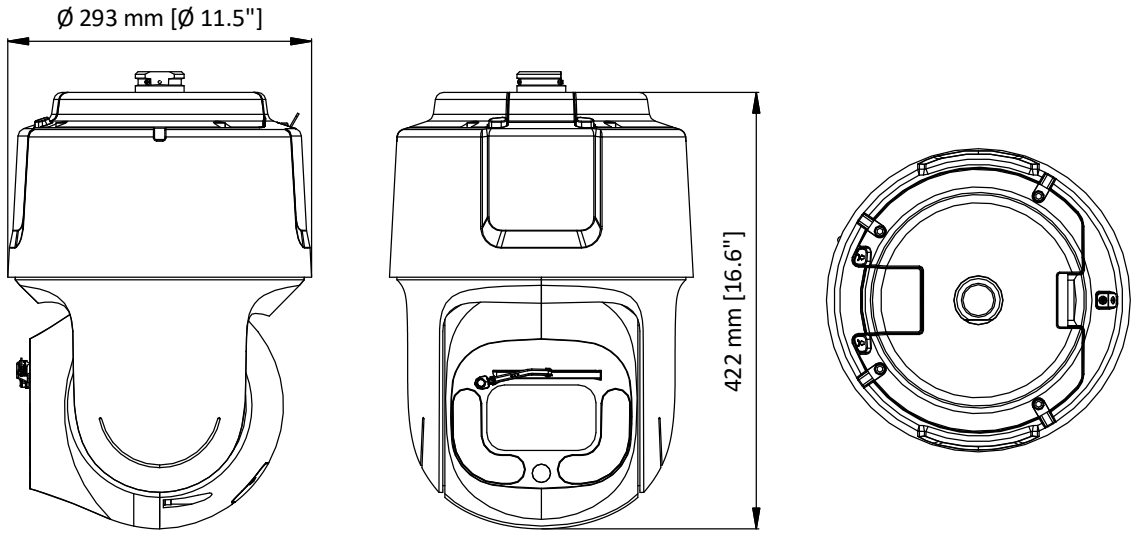
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

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)

Order Model

DS-2DF9C435IH-DLW, 36 VDC

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(20)-P

Pendant mount

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