DS-2DF9C453LXG-LW
9C Series 4 MP 53X DarkFighter Network Speed Dome



Hikvision DS-2DF9C453LXG-LW 4 MP 53 × Network 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.

- 1/1.2" progressive scan CMOS
- Full-color image output
- Up to 2560 × 1440 resolution
- Min. illumination: Color: 0.0005 Lux @(F1.6, AGC ON) B/W: 0.0001 Lux @(F1.6, AGC ON);0 Lux with light
- 53× 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 2.0 and perimeter protection
- Up to 800 m laser distance. Smart supplement light
- Rain-sensing auto wiper
- Smart pan-tilt correction

▪ Specification

Camera	
Image Sensor	1/1.2" progressive scan CMOS
Max. Resolution	2560x1440
Min. Illumination	Color: 0.0005 Lux @ (F1.6, AGC ON),B/W: 0.0001 Lux @ (F1.6, AGC ON),0 Lux with light
Shutter Speed	1/1 to 1/30,000s
Zoom	53x optical, 16x digital
Slow Shutter	Yes
Lens	
Focal Length	6.6 mm to 350 mm
FOV	Horizontal field of view: 61.0° to 1.8°(wide-tele) Vertical field of view: 35.9° to 1.1°(wide-tele) Diagonal field of view: 68.5° to 2.1° (wide-tele)
Focus	Auto, semi-auto, manual, rapid focus
Aperture	Max. F1.6
Zoom Speed	Approx. 8.7s
Illuminator	
Supplement Light Range	Laser distance: up to 800 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
Preset Freezing	Yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Power-off Memory	Yes
Video	
Main Stream	50Hz: 25fps (2560 × 1440 , 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2560 × 1440 , 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
Simultaneous Live View	Up to 20 channels
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK
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	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Day/Night Switch	Day, night, auto, scheduled-switch
Wide Dynamic Range (WDR)	140 dB WDR
SNR	≥ 55 dB
Defog	Optical defog
Image Stabilization	OIS
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable
Regional Focus	Yes
Regional Exposure	Yes
Interface	
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector
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
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
Alarm	7 inputs, 2 output
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
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
Smart Tracking	Manual tracking, auto-tracking
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	Supports vehicle detection (license plate number,vehicle model, and vehicle color recognition)
General	
Power	36 VDC, max. 90 W, including max. 18 W for IR
Dimension	Φ 293 mm × 422 mm (Φ 11.5" × 16.6")
Weight	Approx. 13 kg (28.7 lb)
Material	ADC12
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
General Function	Mirror, password protection, watermark, IP address filter
Vandal-proof Alarm	Yes
Wiper	Yes. Rain-sensing auto control
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

▪ DORI

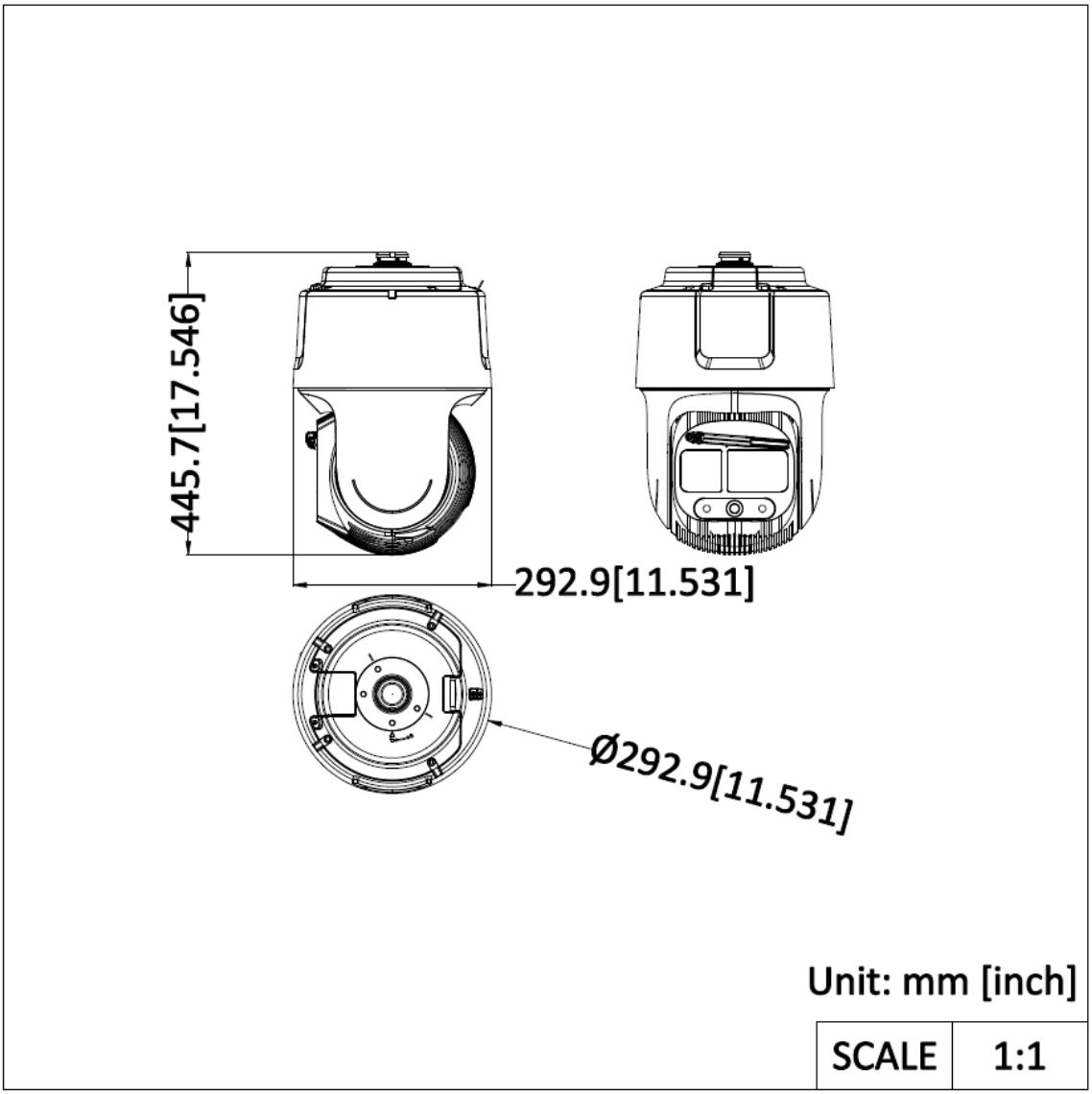
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	4179.3 m (13711.61 ft)	1658.5 m (5441.27 ft)	835.9 m (2742.45 ft)	417.9 m (1371.06 ft)

▪ Available Model

DS-2DF9C453LXG-LW

▪ Dimension



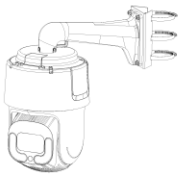
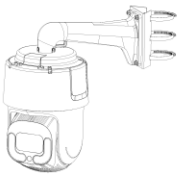
▪ Accessory

▪ Optional

DS-1668ZJ(20)-P	DS-1684ZJ-P	DS-1619ZJ-HP2	DS-1668ZJ-P	DS-1673ZJ-P
				
DS-1673ZJ-P	DS-1603ZJ-Pole-P	DS-1603ZJ-P		

▪ Installation Methods

Pendant Mounting DS-1668ZJ(20)-P	Pendant Mounting DS-1668ZJ-P	Vertical Pole Mounting DS-1684ZJ-P+DS-1603 ZJ-P	Vertical Pole Mounting DS-1603ZJ-Pole-P	Gooseneck Mounting DS-1619ZJ-HP2
				
Horizontal Pole Mounting DS-1673ZJ-P+DS-1668 ZJ(20)-P	**Horizontal Pole Mounting DS-1673ZJ-P+DS-1668 ZJ-P**	**Wall Mounting DS-1603ZJ-P**		
				

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