

DS-2DF9C460LXG1-LWUHK 4MP 60 × DarkFighter IR Network Speed Dome





















Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- 1/1.2" Progressive Scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- 60 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Up to 800 m laser distance. Smart supplement light
- Rain-sensing auto wiper
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles
- Smart Pan-Tilt Correction
- Water and dust resistant (IP67) and vandal proof (IK10) excluding glass window



Specification

1/1.2" progressive scan CMOS			
Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with			
light			
1/1 s to 1/30,000 s			
Yes			
IR cut filter			
60x optical, 16x digital			
2688 × 1520			
Auto, semi-auto, manual, rapid focus			
6.6 mm to 350 mm, 60× Optical			
Approx. 8.7 s (optical, wide-tele)			
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)			
Max. F1.6			
Laser			
Laser Distance: up to 800 m			
Yes			
360°, Smart Pan-Tilt Correction			
-20° to 90° (auto flip), Smart Pan-Tilt Correction			
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			
Yes			
Yes			
Yes			
Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,			
panorama scan, dome reboot, dome adjust, aux output			
50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 ×			
720);			
60 Hz: 60 fps (2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 ×			
720)			
*High frame rate is supported under monitoring mode only.			



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.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			
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			
Target Cropping	No			
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 to 192 Kbps (MP2L2)			
A 11 0 11 5 :	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz,			
Audio Sampling Rate	48kHzMP3: 8kHz, 16KHz, 32KHz, 48KHz			
Environment Noise Filtering	Yes			
Network				
Smooth Streaming	Yes			
<u> </u>	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Security	authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network			
Security	Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS			
	1.3,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2)			
Network Storage	NAS (NFS, SMB/ CIFS), ANR			
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour			
API	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T Profile M), OTAP			
Simultaneous Live View	Up to 20 channels			
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User			
Client	HikCentral, iVMS-4200, Hik-Connect			
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+			
Image				
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by			
Image Settings	client software or web browser			
Day/Night Switch	Day, night, auto, scheduled-switch			
Image Enhancement	BLC, HLC, 3D DNR			
Wide Dynamic Range (WDR)	150 dB WDR			
Defog	Optical defog			
Image Stabilization	OIS			
Regional Focus	Yes			
Defog	Optical defog			
	W			



Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable			
SNR	≥ 55 dB			
Supplement Detection				
Gyroscope	Yes			
Satellite Positioning	No			
Compass	No			
Interface				
Reset	Yes			
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
On-board Storage	Built-in memory card slot, support MicroSD/MicroSDHC/MicroSDXC, up to 1 TB			
Alarm	7 inputs, 2 outputs			
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 10%; 1 output (line out), line level, output impedance: 600 Ω			
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector			
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Event				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), alarm input and output, vandal-proof alam, audio exception detection, unattended baggage detection, object removal detection			
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,and PTZ actions (such as preset, patrol scan, pattern scan)			
Deep Learning Function				
Perimeter Protection	Line crossing detection, region entrance detection, intrusion detection, region exiting detection			
Multi-Target-Type Detection	Supports simultaneous detection and capture of human body, face and vehicle, Gets 7 face features, 14 human body features and 8 vehicle features			
Face Capture	Detects up to 30 faces simultaneously, Uploads face with background and closed-up face pictures, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture			
Up to 10 face libraries. 30000 faces for each library. 150000 faces in total, Recognizes face identity via face modeling, grading and comparing to those library, Supports face library encryption				



	Smart Function:			
	Support license plate recognition of vehicles and motorcycles (only in checkpoint			
	scenario)			
	Support vehicle attribute detection, including vehicle type, color, brand, driving			
	direction, etc.			
	Support vehicle and non-vehicle counting			
	Blocklist and allowlist: up to 10,000 records			
Road Traffic and Vehicle	LPR Countries/Regions:			
Detection	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions			
	Accuracy (Under recommended installation and lighting conditions):			
	License plate recognition rate ≥98%			
	Capture rate ≥99%			
	Driving direction accuracy rate ≥98%			
	Vehicle Capture Speed:			
	Front installation in checkpoint scenario: up to 120 km/h			
	Side installation: up to 80 km/h			
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode			
Linkage and Tracking				
Smart Tracking	Manual tracking, auto-tracking 3.0			
	Support person arming. When the device detects the armed face or human body in the			
	monitoring scene, it triggers alarms, and tracks and captures the target. During the			
Object Tracking	tracking, the target location and other related information are uploaded. Support			
	vehicle arming. When the device detects the armed vehicles in the monitoring scene, it			
	triggers alarms, and tracks and captures the target. During the tracking, the target			
	location and other related information are uploaded.			
General				
Vandal-proof Alarm	No			
Heater	Yes			
Wiper	Yes. Rain-sensing auto control			
De-icing	No			
Demist	Yes			
General Function	Mirror, password protection, watermark, IP address filter			
Power	36 VDC (Max. 90 W, including max. 15 W for IR and max. 8 W for heater)			
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%			
Dimension	Φ 292.9 mm × 445.7 mm (Φ 11.5" × 17.6")			
Weight	Approx. 13 kg (28.7 lb)			
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,			
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
Approval				
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011			
	+A1: 2014);			
EMC	RCM (AS/NZS CISPR 32: 2015);			
	IC VoC (ICES-003: Issue 6, 2019);			
	KC (KN 32: 2015, KN 35: 2015)			



	CB (IEC 62368-1:2014+A11);
Safety	CE-LVD (EN 62368-1:2014+A11:2017),
Salety	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
	LOA (SANS IEC60950-1)
	CE-RoHS (2011/65/EU);
Environment	WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)
Protection	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient
Protection	Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10

DORI

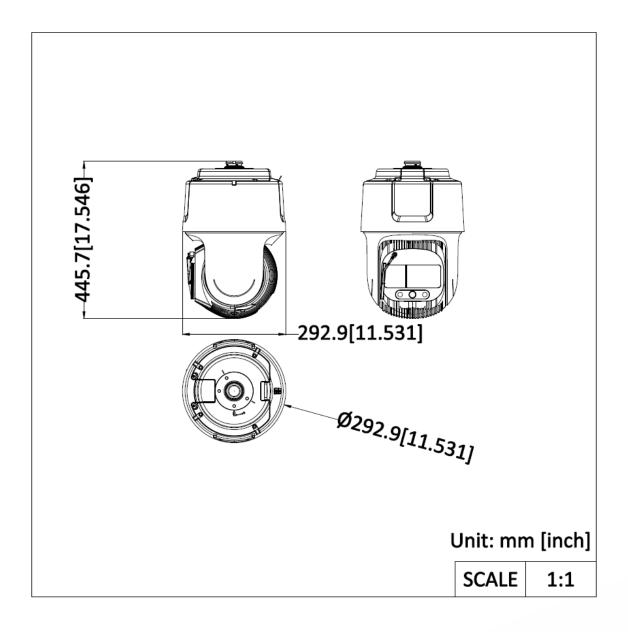
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view.

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)	5500 m (18044.6 ft)	1915.7 m (6285.1 ft)	1000 m (3280.8 ft)	500 m (1640.4 ft)

Dimension





Accessory

Optional

DS-2115ZJ-P	DS-1684ZJ-P	DS-4604ZJ-PA	DS-4614ZJ-PA PTZ Pendant Mount
Vertical pole mount	Vertical pole mount	PTZ Wall mount	

See Far, Go Further



www.hikvision.com support@hikvision.com













