

iDS-2CD7D47G0-XS 4 MP DarkfighterS Fixed Dome Network Camera













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 protection capability and protect your devices as well as your data from malicious cyber attacks.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 40 MB system memory, 350 MB smart RAM, and 1 GB eMMC storage for sharing resources
- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkfighterS technology
- Clear imaging against strong back light due to 140 dB WDR technology
- 5 streams to meet a wide variety of applications
- Efficient H.265+ compression technology to save bandwidth and storage
- Water and dust resistant (IP67) and vandal proof (IK10)



Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and reports a face alarm simultaneously to achieve both the entrance control and people counting.



Specification

Camera			
Image Sensor	1/1.8" Progressive Scan CMOS		
Max. Resolution	2688 × 1520		
Min. Illumination	Color: 0.0003 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON), B/W: 0 Lux		
	with IR		
Shutter Time	1 s to 1/100,000 s		
Day & Night	IR cut filter,		
	Blue glass module (less ghost phenomenon)		
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°		
Lens			
Focal Length & FOV	2.8 mm: horizontal FOV 111.0°, vertical FOV 57.6°, diagonal FOV 138.4°		
rocai Leligili & FUV	4 mm: horizontal FOV 94.7°, vertical FOV 49.4°, diagonal FOV 112.6°		
Iris Type	Fixed		
Aperture	F1.0		
DORI			
DORI	2.8 mm: D: 61.5 m, O: 24.4 m, R: 12.73 m, I: 6.2 m		
DOM	4 mm: D: 72.1 m, O: 28.6 m, R: 14.4 m, I: 7.2 m		
Illuminator			
Supplement Light Type	Hybrid (IR and White Light)		
Supplement Light Range	Up to 40 m		
Smart Supplement Light	Yes		
IR Wavelength	850 nm		
HEOP			
	Memory: 40 MB,		
Open Resources	Smart RAM: 350 MB,		
	eMMC: 1 GB		
Computing Power	1.5 TOPS		
Open Capability	HEOP 2.0 OpendevSDK		
Deep Learning Structure	Caffe, TensorFlow, PaddlePaddle, ONNX		
Programming Language	C++		
Video			
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)		
Wall Stream	60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)		
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)		
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
mind Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)		
. January Carrier	60 Hz: 30 fps (704 × 480, 640 × 480)		
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)		
	60 Hz: 30 fps (704 × 480, 640 × 480)		



	Main stream: H.265+/H.265/H.264+/H.264,		
	Sub-stream: H.265/H.264/MJPEG,		
Video Compression	Third stream: H.265/H.264,		
	Fourth stream: H.265/H.264/MJPEG,		
	Fifth stream: H.265/H.264/MJPEG		
Video Bit Rate	32 Kbps to 8 Mbps		
H.264 Type	Baseline Profile, Main Profile, High Profile		
H.265 Type	Main Profile		
Bit Rate Control	CBR, VBR		
Scalable Video Coding (SVC)	H.264 and H.265 encoding		
Target Cropping	Yes		
Region of Interest (ROI)	4 fixed regions for each stream		
Audio			
Audio Type	Mono sound		
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
Audio Dit Doto	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps		
Audio Bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)		
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz		
Environment Noise Filtering	Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,		
Protocols	PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS		
	ARP, WebSocket, WebSockets		
Simultaneous Live View	Up to 20 channels		
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP		
	Up to 32 users		
User/Host	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		
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network		
•	Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log,		
	TLS 1.2, TLS 1.3		
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),		
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health		
	detection are supported.		
Client	iVMS-4200, Hik-Connect		
	Plug-in required live view: IE 10, IE 11,		
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+		
Image			
Image Parameters Switch	Yes		
	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client		
Image Settings	software or web browser		
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	BLC, HLC, 3D DNR, Defog		
Privacy Mask	8 programmable polygon privacy masks		
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Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.		
Image Stabilization	EIS		
Interface			
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port		
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB		
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)		
	1 input (line in), input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type:		
Audio	non-equilibrium, 1 output (line out), output amplitude: 3.3 Vpp, output impedance:		
	100 Ω , interface type: non-equilibrium, mono sound		
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)		
Reset Key	Yes		
Power Output	12 VDC, max. 100 mA		
Event			
	Motion detection, video tampering alarm, video quality diagnosis, exception (network		
Basic Event	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error),		
	vibration detection		
Smart Event	scene change detection, audio exception detection, defocus detection		
Links as	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm		
Linkage	output, trigger recording, trigger capture, audible warning		
Deep Learning Function			
	Detects up to 60 faces simultaneously,		
Face Capture	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,		
	Uploads face with background and closed-up face pictures		
	Supports crossline people counting,		
	Supports counting, displaying and exporting the people flow data of entering and		
	exiting. (The data is stored in the flash.),		
People Counting	The real-time people flow data is displayed on the screen. ,		
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°.,		
	Uploads face with background and closed-up face picture.,		
	Supports real-time uploading and uploading by statistic cycle		
	Supports up to 8 detection regions, and independent arming schedule and linkage		
	method,		
	Supports 2 detection modes: regional people queuing-up, waiting time detection,		
Queue Management	Generates reports to compare the efficiency of different queuing-ups and display the		
	changing status of one queue,		
	Supports raw data export for further analysis,		
	Supports real-time data uploading and scheduled data uploading,		
	Regional people queuing-up: supports 4 alarm trigger conditions, including greater		
	than threshold, less than threshold, equal to threshold, not equal to threshold,		
	Waiting time detection: supports 1 alarm trigger condition, including greater than		
	threshold		
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell		
	time) in a configured area.,		
	Two report types are available, space heat map and time heat map line chart.		
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting,		
	Support alarm triggering by specified target types (human and vehicle)		



Motadata	Intrusion detection, line crossing detection, region entrance detection, region exiting	
Metadata	detection	
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage	
	method,	
	Supports 2 detection modes: absence detection, on/off duty detection,	
	Supports parameter settings: person on duty, absence duration	
General		
Power	12 VDC ± 20%, 0.85 A, max. 10.2 W	
	PoE: IEEE 802.3af, Type 1, Class 3, 36 V to 57 V, 0.3 A to 0.17 A, max. 10.2 W,	
Material	Aluminum alloy body	
Dimension	Ø97.6 mm × 121.5 mm (Ø3.85" × 4.79")	
Package Dimension	150 mm × 150 mm × 141 mm (6.0" × 6.0" × 5.6")	
Weight	Approx. 620 g (1.37 lb.)	
With Package Weight	Approx. 805 g (1.78 lb.)	
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Startup and Operating	20 °C to CO °C / 22 °C to 440 °C \	
Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian	
Lamana	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedisl	
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese	
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian	
General Function	Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log	
Demist	Yes	
Approval		
	CE-EMC: EN 55032: 2015+A1:2020, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019	
FNAC	RCM: AS/NZS CISPR 32: 2015,	
EMC	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 2015	
Safety	UL: UL 62368-1,	
	CB: IEC 62368-1: 2014+A11,	
	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,	
	Reach: Regulation (EC) No 1907/2006	
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002	

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.

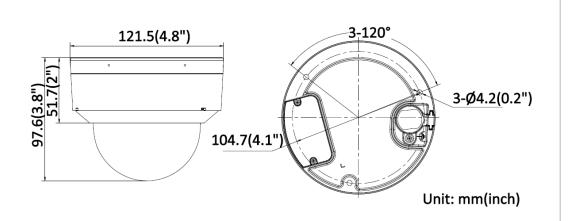


Level	Description	
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks chemical plants, and more.	
Moderate protection	Hikvision products at this level are 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.	

Available Model

iDS-2CD7D47G0-XS(2.8mm) iDS-2CD7D47G0-XS(4mm)

Dimension



Accessory

Optional

DS-1271ZJ-120	DS-1272ZJ-120	DS-1272ZJ-120B
Pendant Mount	Wall Mount	Wall Mount
		e l'é

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