

iDS-2CD7T47G0-XHS(Y) 4 MP DarkfighterS Fixed Bullet 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 defense 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.



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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,				
Day & Night	Blue glass module (less ghost phenomenon)				
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°				
Lens					
Focal Length & FOV	2.8 mm: horizontal FOV 111.0°, vertical FOV 57.6°, diagonal FOV 138.4° 4 mm: horizontal FOV 94.7°, vertical FOV 49.4°, diagonal FOV 112.6°				
Iris Type	Fixed				
Aperture	F1.0				
DORI					
	2.8 mm: D: 61.5 m, O: 24.4 m, R: 12.73 m, I: 6.2 m				
DORI	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)				
	60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
Sub-Sileann	60 Hz: 30 fps (704 × 480, 640 × 480)				
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)				
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
indi Su'calli	60 Hz: 30 fps (704 × 480, 640 × 480)				



	Main stream: 11 265 / 11 264 / 11 264					
	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					
Н.264 Туре	Baseline Profile, Main Profile, High Profile					
Н.265 Туре	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					
	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					
Security	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),					
Notwork Storage						
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health					
<u>Oliveet</u>	detection are supported.					
Client	iVMS-4200, Hik-Connect					
Web Browser	Plug-in required live view: IE 10, IE 11,					
	Plug-in free live view: Chrome 57.0+, Firefox 52.0+					
Image						
Image Parameters Switch	Yes					
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client					
	software or web browser					
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger					
Day/Night Switch Wide Dynamic Range (WDR) Image Enhancement	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger					



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Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.				
Image Stabilization	EIS				
Interface					
Video Output	1 Vp-p Composite Output (75 Ω /CVBS) (Only for debugging)				
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	3 inputs, 2 outputs (max. 12 VDC, 30 mA)				
Audio	1 input (line in), input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type:				
	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				
Linkago	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,				
	Generates reports to compare the efficiency of different queuing-ups and display the				
	changing status of one queue,				
Queue Management	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.				



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Perimeter Protection	Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle)				
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting 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%, 1.1A, max. 13.2 W,				
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.3 A to 0.43 A, max. 17.9 W				
Material	Aluminum alloy body				
Dimension	Ø110.02 mm × 324.6 mm (Ø4.33" × 12.78")				
Package Dimension	386 mm × 156 mm × 155 mm (16.7" × 7.5" × 7.1")				
Weight	Approx. 1365 g (3.01 lb.)				
With Package Weight	Approx. 2079 g (4.59 lb.)				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Language	33 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), Ukrainian				
General Function	Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log				
Heater	Yes				
Demist	Yes				
Approval					
EMC	CE-EMC: EN 55032: 2015+A1:2020, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, RCM: AS/NZS CISPR 32: 2015, 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				
Anti-Corrosion Protection	-Y model: NEMA 4X (NEMA 250-2018)				

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.



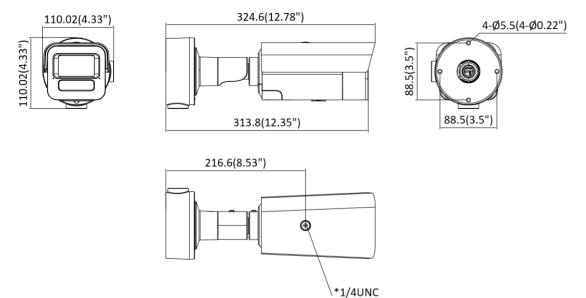
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

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-2CD7T47G0-XHS(2.8mm) iDS-2CD7T47G0-XHSY(2.8mm) iDS-2CD7T47G0-XHS(4mm) iDS-2CD7T47G0-XHSY(4mm)

Dimension



Unit: mm (inch)



Accessory

Optional

DS-1275ZJ-S-SUS	DS-1476ZJ-SUS	DS-1476ZJ-Y	DS-1475ZJ-Y	DS-1475ZJ-SUS
Vertical Pole Mount	Corner Mount	Corner Mount	Vertical Pole Mount	Vertical Pole Mount

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