

iDS-2CD7547G0-XZHS(Y) 4 MP DarkfighterS DeepinView Varifocal Dome 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.

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkfighterS technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Clear imaging against strong back light due to 140 dB true WDR technology
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)
- Unique PTRZ capability for efficient installation



### 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. Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

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.

**Regional People Counting** 

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

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.

Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and reports an alarm if not.



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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),0 Lux with light	
Shutter Time	1 s to 1/100,000 s	
Davis 9 Millahat	IR cut filter	
Day & Night	Blue glass module to reduce ghost phenomenon	
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 85°, rotate: 0° to 355°	
Lens		
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 104.2° to 44.1°, vertical FOV 55.3° to 24.8°, diagonal FOV 126.8° to 51.1°	
Focus	Auto,Semi-auto,Manual	
Iris Type	P-iris	
Aperture	F1.0 to F1.2	
DORI		
DORI	Wide: D (Detect): 63.4 m, O (Observe): 25.2 m, R (Recognize): 12.7 m, I (Identify): 6.3 m Tele: D (Detect): 140.7 m, O (Observe): 55.8 m, R (Recognize): 28.1 m, I (Identify): 14.1 m	
Illuminator		
Supplement Light Range	2.8 to 12 mm: up to 30 m	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
Supplement Light Type	Hybrid (IR and White Light)	
AI Open Platform		
Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model)	
Video		
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)	
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 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) 60 Hz: 30 fps (704 × 480, 640 × 480)	



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	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	
Target Cropping	Yes	
Scalable Video Coding (SVC)	H.264 and H.265 encoding	
Region of Interest (ROI)	4 fixed regions for each stream	
Audio		
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz	
Environment Noise Filtering	Yes	
	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 Type	Mono sound	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC	
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,	
Protocols	SSL/TLS, ARP, WebSocket, WebSockets	
Simultaneous Live View	Up to 20 channels	
API	ONVIF (Profile S, Profile G, Profile T, Profile M), ISAPI, SDK, ISUP	
User/Host	Up to 32 users	
	3 user levels: administrator, operator, and user	
	Password protection, complicated password, HTTPS encryption, 802.1X authentication	
<b>6</b>	(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, TPM 2.0 (FIPS 140-2 level 2), AES128/256	
	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,Hik-Central	
	Plug-in required live view: IE 10, IE 11,	
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,	
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+	
Image		
Image Parameters Switch	Yes	
Imaga Sattings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable	
Image Settings	by client software or web browser	
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger,Video Trigger	
	140 dB	
Wide Dynamic Range (WDR)	140 dB	



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SNR	≥ 52 dB		
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog		
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 $\Omega$ /CVBS) (Only for debugging)		
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port		
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB		
Built-in Microphone	Yes, 2 built-in microphones		
· · ·	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,		
	input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,		
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,		
	output impedance: 100 $\Omega$ , interface type: non-equilibrium, mono sound		
Alarm	1 input, 1 output (max. 24 VDC, 1 A)		
	Max. power consumption: 1.5 W, max. sound pressure level: 98 dB, speaker range: 10		
Built-in Speaker	m		
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 (support alarm triggering by specified target types (human and		
	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,		
Basic Event	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration		
	detection		
Smart Event	scene change detection, audio exception detection, defocus detection		
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm		
Linkage	output, trigger recording, trigger capture, audible warning		
Deep Learning Function			
	Supports simultaneous detection and capture of human body, face, and vehicle,		
	Gets 7 face features,		
	Gets 13 human body features,		
Multi-target-type Detection	Gets 2 vehicle features,		
	Supports counting the number of line crossing targets by type, including human body,		
	non-motor vehicle, motor vehicle,		
	Supports dynamic mosaic mask		
	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame		
	simultaneously and uploads up to 10 face pictures per second,		
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 best shot and quick shot for capture mode,		
	Supports dynamic mosaic mask,		
	Gets 7 face features		
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,		
	Supports face library encryption		



	Supports Multi-Dimension People Counting,
	Supports multi-binnension reopie counting, Supports counting, displaying and exporting the people flow data of entering, exiting
	and passing by (The data is stored in the flash.),
	Supports real-time uploading and uploading by statistic cycle,
	Supports real time uploading and uploading by statistic cycle, Supports generating daily, weekly, monthly or annually reports,
People Counting	Supports dynamic deduplication based on face picture comparison, and can filter out
	the target with the same custom face pictures, same attributes, or filter out repeated
	invalid targets within the set time interval,
	Supports face feature deduplication,
	Supports need flow data replenishment
	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
	A graphic description of visits (by calculating amount of people or amount of dwell
Heat Map	time) in a configured area.,
	Two report types are available, space heat map and time heat map line chart.
	Detects up to 30 human targets simultaneously
Hard Hat Detection	Supports up to 4 shield regions
	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
	Support combined event alarm triggering
Motadata	Intrusion detection, line crossing detection, region entrance detection, region exiting
Metadata	detection, face capture, multi-target-type detection
	Supports up to 8 detection regions, and independent arming schedule and linkage
	method
	Supports 3 detection modes: people density detection, number of people exception
	detection, waiting time exception detection
	Supports parameter settings: alarm times per exception, alarm interval, first alarm
	delay
	Supports searching real-time number of people
Regional People Counting	People density detection: supports scheduled uploading, number of people change
	uploading, congestion level uploading
	Number of people exception detection: supports 6 alarm trigger conditions, including
	greater than threshold A, less than threshold A, equal to threshold A, not equal to
	threshold A, greater than threshold A and less than threshold B, less than threshold A
	or greater than threshold B (threshold A should be less than threshold B)
	Waiting time exception detection: supports 3 alarm trigger conditions, including
	greater than threshold A, less than threshold A, greater than threshold A and less than
	threshold B (threshold A should be less than threshold B)



On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method	
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection	
	Supports parameter settings: person on duty, absence duration	
General		
Power	12 VDC ± 20%, 2.01 A, max. 24.01 W, three-core terminal block;	
	24 VAC ± 20%, 1.51 A, max. 24.01 W, three-core terminal block;	
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.60 A to 0.44 A, max. 25.43 W	
Material	Aluminum alloy body	
Dimension	Ø160 mm × 159.5 mm (Ø6.3" × 6.3")	
Package Dimension	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")	
Weight	Approx. 2100 g (4.62 lb.)	
With Package Weight	Approx. 2850 g (6.28 lb.)	
Startup and Operating	40% to $(0%)$ ( $40%$ to $140%$ ) (humidity $0.5%$ or loss (non-condension)	
Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)	
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)	
	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	
General Function	Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log	
Heater	Yes	
<b>~</b> · · · ·	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6	
Device Management	output alarm interfaces	
Approval		
	FCC: 47 CFR Part 15, Subpart B,	
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN	
FNAC	50130-4: 2011 +A1: 2014,	
EMC	RCM: AS/NZS CISPR 32: 2015,	
	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 2015	
	UL: UL 62368-1,	
	CB: IEC 62368-1: 2014+A11,	
Safety	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: NEMA 4X (NEMA 250-2018)	
Automotive and Railway	EN50121-4	
Other	PVC FREE	

## 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
	Hikvision products at this level are equipped for use in
Top-level protection	areas where professional anti-corrosion protection is a
	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate protection	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
No specific protection	areas where no specific anti-corrosion protection is needed.

### Available Model

iDS-2CD7547G0-XZHS(2.8-12mm) iDS-2CD7547G0-XZHSY(2.8-12mm)



## Dimension





Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
Double Gang(4ר4.5)	Double Gang(4ר0.2'')
Single Gang(2ר4.5)	Single Gang(2ר0.2'')



### Accessory

#### Optional



\*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).

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