

# iDS-2CD7546G0/S-IZHS(Y) 4 MP IR Varifocal 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.

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)
- Anti-IR reflection bubble guarantees image quality



#### Function

**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.

**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.

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: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR						
Shutter Time	1 s to 1/100,000 s						
<b>- 0</b>	IR cut filter						
Day & Night	Blue glass module to reduce ghost phenomenon						
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°						
Lens							
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal						
	FOV: 141.1° to 48°						
Focal Length & FOV	8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV:						
	49.6° to 17.3°						
Focus	Auto,Semi-auto,Manual						
	2.8 to 12 mm: F1.2 to F2.5						
Aperture	8 to 32 mm: F1.7 to F1.73						
Iris Type	P-iris						
DORI							
Dom	Wide:						
	2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify):						
	6 m						
	8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I						
DORI	(Identify): 15 m						
	Tele:						
	2.8 to 12 mm: D (Detect): 149 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I						
	(Identify): 14.9 m						
	8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify):						
	40 m						
Illuminator							
Supplement Light Range	2.8 to 12 mm: 30 m						
supplement Light hange	8 to 32 mm: 50 m						
Supplement Light Type	IR						
Smart Supplement Light	Yes						
IR Wavelength	850 nm						
AI Open Platform							
	Up to 4 models,						
Model Specification	Model type: detection model, classification model, mixed model (detection model and						
	classification model)						
Video							
	50 Hz:						
	25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)						
Main Stream	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)						
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	50 Hz: 25 fps (704 × 576, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
Fifth Stream	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			
Н.265 Туре	Main Profile			
Н.264 Туре	Baseline Profile, Main Profile, High Profile			
Bit Rate Control	CBR,VBR			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Region of Interest (ROI)	4 fixed regions for each stream			
Target Cropping	Yes			
e-PTZ	Support Patrol and Auto Tracking settings			
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, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,			
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS			
FIULULUIS	WebSocket, WebSockets			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (Profile S, Profile G, Profile T, Profile M),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, TPM 2.0 (FIPS 140-2 level 2), AES128/256			
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),			
	Together with high-end Hikvision memory card, memory card encryption and health detection are supported.			
Client				
Client	iVMS-4200,Hik-Connect,Hik-Central			



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	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			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable			
	by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	140 dB			
SNR	≥ 52 dB			
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog			
Privacy Mask	8 programmable polygon privacy masks			
Image Stabilization	EIS			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.			
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			
Audio	1 input (line in), 1 output (line out), 3.5 mm connector			
Alarm	1 input, 1 output (max. 24 VDC, 1 A)			
RS-485	-Y: 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			
Daria Event	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			
Linkaga	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm			
Linkage	output, trigger recording, trigger capture, audible warning			
Deep Learning Function				
	Line crossing, intrusion, region entrance, region exiting			
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)			
	Support combined event alarm triggering			



	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.		
Hard Hat Detection	Detects up to 30 human targets simultaneously		
	Supports up to 4 shield regions		
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting		
metudutu	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		
Regional People Counting	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)		
	Supports up to 8 detection regions, and independent arming schedule and linkage		
On/Off Duty Datastics	method		
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection		
	Supports parameter settings: person on duty, absence duration		
General			
	With –Y:		
	12 VDC ± 20%, three-core terminal block, 1.23 A, max. 14.7 W;		
Douvor	24 VAC ± 20%, three-core terminal block, 0.91 A, max. 13.7 W;		
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.27 A to 0.36 A, max. 15.0 W		
Power			
Power	Without –Y:		
Power	Without –Y: 12 VDC ± 20%, two-core terminal block, 1.23 A, max. 14.7 W;		
Power			



Weight	Without -Y: approx. 1490 g (3.28 lb.)			
	With -Y: approx. 1565 g (3.45 lb.)			
With Package Weight	Without -Y: approx. 2435 g (5.37 lb.)			
	With -Y: approx. 2295 g (5.06 lb.)			
Material	Aluminum alloy body			
Dimension	Ø162 mm × 141.8 mm (Ø6.4" × 5.6")			
Package Dimension	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")			
Storage Conditions	-30 °C to 60 °C (-22 °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)			
	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, mirror, password protection, one-key reset			
Heater	Yes			
Davias Managamant	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			
5140	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			
Automotive and Railway	EN50121-4			
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)			
	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.

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

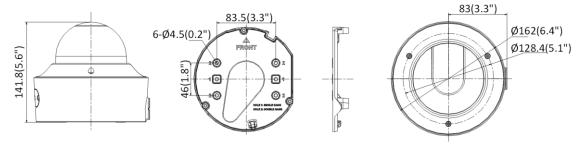


Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.	
Moderate protection	Hikvision products at this level are equipped for use in 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-2CD7546G0/S-IZHS(2.8-12mm)(C) iDS-2CD7546G0/S-IZHS(8-32mm)(C)

## Dimension



Unit: mm (inch)



#### Accessory

#### Optional

DS-1475ZJ-Y	DS-1476ZJ-Y	DS-1471ZJ-155-Y	DS-1473ZJ-155-Y
Vertical pole mount	Corner mount	Pendant Mount	Wall mount
A DO			

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