



iDS-2CD7546G0/S-IZHS(Y) 4 MP IR Varifocal Dome Network Camera

114-297B







- 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.

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.

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.



Specification

Camera						
Image Sensor	1/1.8" Progressive Scan CMOS					
Max. Resolution	2560 × 1440					
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					
Day & Night	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						
Focal Length & FOV	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° 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					
Apartura	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						
DORI	Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m 8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m Tele: 2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m 8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m					
Illuminator						
Supplement Light Range	2.8 to 12 mm: 30 m 8 to 32 mm: 50 m					
Supplement Light Type	IR					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
Al 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: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)					
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)					
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)					



	50 Hz: 25 fps (704 × 480, 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			
H.265 Type	Main Profile			
Video Bit Rate	32 Kbps to 16 Mbps			
H.264 Type	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 region(s) for each stream			
Target Cropping	Yes			
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				
Dyesta and	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,			
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP			
User/Host	Up to 32 users			
User/nost	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			
	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: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11			
Web Browser	Plug-in free live view: Chrome 45.0+, Firefox 52.0+			
	Not recommended: Safari 11+, Edge			
Image				
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger			



Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	BLC, HLC, Defog, 3D DNR				
SNR	≥ 52 dB				
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit 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/1000 M self-adaptive Ethernet port				
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB				
Audio	1 input (line in), 1 output (line out), 3.5 mm connector,2 built-in microphones				
Alarm	1 input, 1 output (max. 24 VDC, 1 A)				
RS-485	With -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, video tampering alarm, exception (network disconnected, IP				
Basic Event	address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality				
	diagnosis, vibration detection				
	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection, audio exception detection, scene change detection, defocus detection				
1. 1	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Davina atau Duata atia a	Line crossing, intrusion, region entrance, region exiting				
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)				
	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				
Queue Management	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				
	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		
	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 reopic 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)		
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage		
	method		
on, on buty beteetion	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;		
	24 VAC ± 20%, three-core terminal block, 0.91 A, max. 13.7 W;		
Power	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.27 A to 0.36A, max. 15.0 W		
I OWEI	Without –Y:		
	12 VDC ± 20%, two-core terminal block, 1.23 A, max. 14.7 W;		
	24 VAC ± 20%, two-core terminal block, 0.91 A, max. 13.7 W;		
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.27 A to 0.36A, max. 15.0 W		
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 × 141.8 mm (Ø6.4" × 5.6")		
Package Dimension	251 × 215 × 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,			
Language	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, mirror, password protection, watermark, privacy mask, IP address filter,			
	one-key reset, five streams			
Heater	Yes			
Approval				
	FCC (47 CFR Part 15, Subpart B);			
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN			
EMC	50130-4: 2011 +A1: 2014);			
EIVIC	RCM (AS/NZS CISPR 32: 2015);			
	IC (ICES-003: Issue 7);			
	KC (KN 32: 2015, KN 35: 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	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)			
Automotive and Railway	EN50121-4			
Anti-Corrosion Protection	With -Y: NEMA 4X (NEMA 250-2018)			
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.

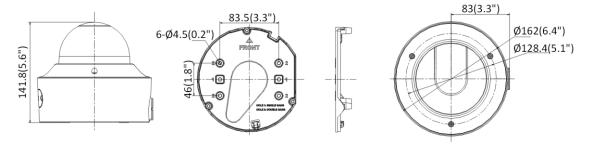
This model has NO SPECIFIC PROTECTION.

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.

Dimension



Unit: mm (inch)

Accessory

Optional

DS-1473ZJ-155-Y	DS-1471ZJ-155-Y	DS-1475ZJ-Y	DS-1476ZJ-Y
Wall Mount	Pendant Mount	Vertical Pole Mount	Corner Mount
		- B	

ORDERING INFORMATION

114-297B

Hikvision iDS-2CD7546G0-IZHSY 4MP Dome DeepinVw 2.8-12mm









