

iDS-2CD7A86G0-IZHS(Y) 8 MP IR Varifocal 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 protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 dB true 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)



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

Image Sensor1/1.8" Progressive Scan CMOSMax. Resolution344 × 2160Max. ResolutionColor: 0.002 Lux @ (F1.2, AGC ON); BW: 0.0000 Lux @ (F1.2, AGC ON); o Lux with IRShutter Time1 s to 1/100,000 sDay & NightBut glass module to reduce ghost phenomenonLes137.3" to 47.3" 8 to 32 mm, horizontal FOV: 112.3" to 41.2", vertical FOV: 58" to 23.1", diagonal FOV: 48.7" to 17"FocusAuto Semi-auto ManualIns TypeP-In'sAperture28.10 12 mm; F1.2 to F2.5 8 to 32 mm; F1.7 to F1.73DotsWide: 2.8 to 12 mm; F1.2 to F2.5 8 to 32 mm; F1.7 to F1.73DotsWide: 2.8 to 12 mm; F1.2 to F2.5 8 to 32 mm; F1.7 to F1.73DotsVide: 2.8 to 12 mm; F1.2 to F2.5 8 to 32 mm; F1.7 to F1.73DotsVide: 2.8 to 12 mm; D(Detect): 87 m, 0 (Observe): 34.5 m, R (Recognize): 74.4 m, 1 (identify): 8.7 m 8 to 32 mm; D (Detect): 216 m, 0 (Observe): 85.5 m, R (Recognize): 43.6 m, 1 (identify): 8 to 32 mm; D (Detect): 216 m, 0 (Observe): 85.5 m, R (Recognize): 43.2 m, 1 (identify): 21.6 m 8 to 32 mm; D (Detect): 500 m, 0 (Observe): 85.7 m, R (Recognize): 43.2 m, 1 (identify): 21.6 m 8 to 32 mm; D (Detect): 500 m, 0 (Observe): 85.7 m, R (Recognize): 43.2 m, 1 (identify): 32.6 m 8 to 32 mm; D (Detect): 500 m, 0 (Observe): 85.7 m, R (Recognize): 43.2 m, 1 (identify): 35 mBupplement Light Type[A so 12 mm; 50 m 8 to 32 mm; 100 mSupplement Light Type[A so 12 mm; 50 m 8 to 32 mm; 100 mSupplement Light Type[A so 12 mm; 50 m 8 to 32 mm; 100 mSupplement Light Type[A so 12 mm; 50 m 8 to 32 mm; 100 mSupplement Light Type <th>Camera</th> <th></th>	Camera					
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Model SpecificationModel type: detection model, classification model, mixed model (detection model and classification model)Video50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)Sub-Stream50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)Third Stream50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	AI Open Platform					
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Video 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (704 × 576, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		Model type: detection model, classification model, mixed model (detection model and				
Main Stream 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280×720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280×720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) Third Stream		classification model)				
Main Stream 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) Third Stream 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	Video					
60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) Third Stream	Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)				
Sub-Stream 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)				
60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
Third Stream		60 Hz: 30 fps (704 × 480, 640 × 480)				
60 Hz: 30 fps (1920 × 1080, 1280 × 720, 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)				



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	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 16 Mbps			
Н.264 Туре	Baseline Profile, Main Profile, High Profile			
Н.265 Туре	Main Profile			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Region of Interest (ROI)	4 fixed regions for each stream			
Target Cropping	Yes			
Bit Rate Control	CBR,VBR			
Audio				
Environment Noise Filtering	Yes			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz			
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC			
Audia Dit Data	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			
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,			
	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			
User/Host	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, 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			



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Image Settings	Saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client			
Day (Night Cyritab	software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	120 dB			
SNR	≥ 52 dB			
Image Enhancement	BLC,HLC,3D DNR,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	1)/a a Composite Output (75 O/C)/DC) (Only for debugging)			
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	With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector			
Alarm	2 inputs, 2 outputs (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	With -Y: 12 VDC, max. 100 mA			
Event				
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address conflict, 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				
Multi-target-type Detection	 Supports simultaneous detection and capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features, 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 			
Face Capture	 Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame simultaneously and uploads up to 10 face pictures per second, 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			
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering			



	Supports Multi-Dimension People 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,
People Counting	Supports generating daily, weekly, monthly or annually reports,
	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 people 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.
Hand Hat Datastian	Detects up to 30 human targets simultaneously
Hard Hat Detection	Supports up to 4 shield regions
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
Regional People Counting	delay
	Supports searching real-time number of people
	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)



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On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method			
onyon buty beteenon	Supports 2 detection modes: absence detection, on/off duty detection			
	Supports parameter settings: person on duty, absence duration			
General				
Power	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block,			
POwer	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.396 A to 0. 295 A, max. 16.8 W			
Material	Aluminum alloy body			
Dimension	Without -Y: Ø144 mm × 347 mm (Ø5.7" × 13.7")			
Dimension	With -Y: Ø140 mm × 351 mm (Ø5.5" × 13.8")			
Package Dimension	405 mm × 190 mm × 180 mm (15.9" × 7.5" × 7.1")			
Weight	Approx. 1950 g (4.2 lb.)			
With Package Weight	Approx. 3070 g (6.7 lb.)			
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			
Davies Management	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			
	CE-RoHS: 2011/65/EU,			
Environment	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			
CC	Common Criteria, Assurance Level: EAL2 + ALC_FLR.2			

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	
Top-level protection	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.	

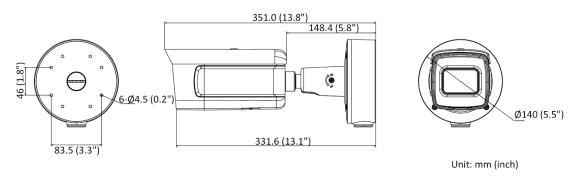
Available Model

iDS-2CD7A86G0-IZHS(2.8-12mm)(C) iDS-2CD7A86G0-IZHS(8-32mm)(C) iDS-2CD7A86G0-IZHSY(2.8-12mm)(C) iDS-2CD7A86G0-IZHSY(8-32mm)(C)

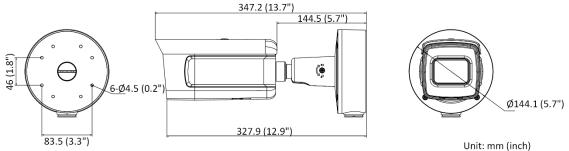


Dimension

With -Y model:







Accessory

Optional

DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1475ZJ-Y	DS-1476ZJ-Y
Vertical pole mount	Corner mount	Vertical pole mount	Corner mount
		nno	IJ

