

iDS-2CD7A86G0-IZHS(Y) 8 MP IR Varifocal Bullet Network Camera



DeepinView





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.

- 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.

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	3840 × 2160				
	Color: 0.002 Lux @ (F1.2, AGC ON);				
Min. Illumination	B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR				
Shutter Time	1 s to 1/100,000 s				
	IR cut filter				
Day & Night	Blue glass module to reduce ghost phenomenon				
Lens					
	2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV:				
	137.3° to 47.3°				
Focal Length & FOV	8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV:				
	48.7° to 17°				
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					
	Wide:				
	2.8 to 12 mm: D: 87 m, O: 34.5 m, R: 17.4 m, I: 8.7 m				
	8 to 32 mm: D: 218 m, O: 86.5 m, R: 43.6 m, I: 21.8 m				
DORI	Tele:				
	2.8 to 12 mm: D: 216 m, O: 85.7 m, R: 43.2 m, I: 21.6 m				
	8 to 32 mm: D: 580 m, O: 230.2 m, R: 116 m, I: 58 m				
Illuminator					
Supplement Light Type	IR				
	2.8 to 12 mm: 50 m				
Supplement Light Range	8 to 32 mm: 100 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				
Al 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 (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)				
Main Stream	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)				
	50 Hz: 25 fps (704 × 480, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
	50 Hz: 25 fps (704 × 480, 640 × 480)				
Fourth Stream	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,				
video compression	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				
H.265 Type	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					
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps				
	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)				
Environment Noise Filtering	Yes				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz				
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, 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), 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				
	Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log,				
	TLS 1.2, TLS 1.3, TPM 2.0				
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),				
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health				
0	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				
	Saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client				
Image Settings	software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger				
Wide Dynamic Range (WDR)	120 dB				
Image Enhancement	BLC, HLC, 3D DNR, Defog				



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SNR	≥ 52 dB				
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 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 input, 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				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm 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, 13 human body features and 2 vehicle features				
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				
Face Comparison	Up to 10 face libraries. Up to 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)				
Supports counting, displaying and exporting the people flow data of entering exiting. (The data is stored in the flash.), Supports real-time uploading and uploading by statistic cycle, Supports generating daily, weekly, monthly or annually reports, Supports dynamic deduplication based on face picture comparison, and can f the target with the same custom face pictures, same attributes, or filter out r invalid targets within the set time interval					



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	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			
	Intrusion detection, line crossing detection, region entrance detection, region exiting			
Metadata	detection, face capture, multi-target-type detection			
Regional People Counting	NA			
	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				
	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			
	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")			
Dimension	With -Y: Ø140 × 351 mm (Ø5.5" × 13.8")			
Package Dimension	405 × 190 × 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,			
1	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, five streams			
Heater	Yes			



Approval			
EMC	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		
	50130-4: 2011 +A1: 2014,		
	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	IK10: IEC 62262:2002, IP67: IEC 60529-2013		
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		
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.		

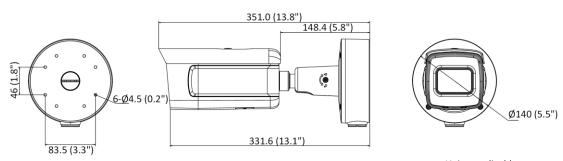
Available Model

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



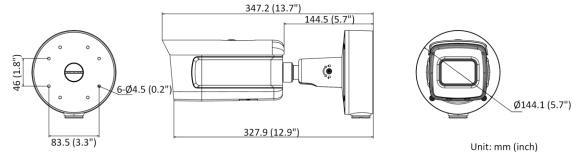
Dimension

With -Y model:



Unit: mm (inch)

Without -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
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