

iDS-2CD7A46G0-IZHS(Y) 4 MP IR Varifocal Bullet Network Camera

















- DeepinView

- 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)



Function

Face Recognition

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.

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 9 Night	IR cut filter				
Day & Night	Blue glass module to reduce ghost phenomenon				
Lens					
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal				
Focal Longth 9, FOV	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				
Iris Type	P-iris				
Aporturo	2.8 to 12 mm: F1.2 to F2.5				
Aperture	8 to 32 mm: F1.7 to F1.73				
DORI					
	Wide:				
	2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m				
DORI	8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m				
DOM	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 Type	IR				
Supplement Light Range	2.8 to 12 mm: 50 m				
Supplement Light Nange	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					
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280× 720)				
Main Stream	60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280× 720)				
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
a sa cam	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)				
i our ur su carri	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)				
Than Sucam	60 Hz: 30 fps (704 × 480, 640 × 480)				
	60 Hz: 30 Tps (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				
H.264 Type	Main Profile				
H.265 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					
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				
Audio Type	Mono sound				
	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)				
Network					
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP				
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP v2c/v3, 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				
	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				
	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)				
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health				
Ü	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				
SNR	≥ 52 dB				
Image Enhancement	BLC, HLC, Defog, 3D DNR				
₀ c Limanochich	DEC, HEC, DEIUE, 3D DIVIN				



Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable				
Image Stabilization	EIS				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit 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					
	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				
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection, audio exception detection, scene change detection, defocus detection				
Linkage	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				
Water target type beteetion	Gets 7 face features, 13 human body features and 2 vehicle features				
	Detects up to 60 faces simultaneously				
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				
Face Processing	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)				
People Counting	Supports crossline people counting,				
	Supports counting, displaying and exporting the people flow data of entering and				
	exiting. (The data is stored in the flash.),				
	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				



	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			
	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			
D :	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 Detection	method Supports 2 detection modes: absence detection, on/off duty detection			
	Supports 2 detection modes: absence detection, on/on duty detection Supports parameter settings: person on duty, absence duration			
General	Supports parameter settings, person on duty, absence duration			
	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block			
Power	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V), 0.396 A to 0. 295A, 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)		
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,		
	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,		
delieral Function	one-key reset, five streams		
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)		
Anti-Corrosion Protection	With -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.

-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.		

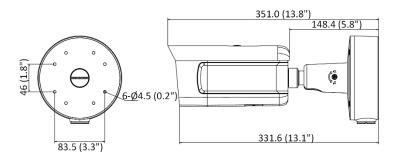


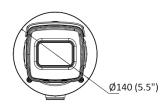
Available Model

iDS-2CD7A46G0-IZHSY (2.8 to 12 mm, 8 to 32 mm) iDS-2CD7A46G0-IZHS (2.8 to 12 mm, 8 to 32 mm)

Dimension

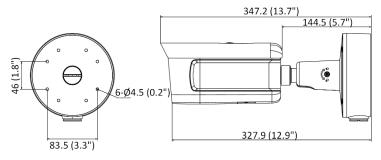
With -Y model:

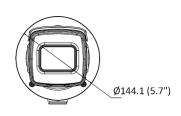




Unit: mm (inch)

Without -Y model:





Unit: mm (inch)

Accessory

Optional

DS-1476ZJ-SUS	DS-1475ZJ-SUS	DS-1476ZJ-Y	DS-1475ZJ-Y
Corner Mount	Vertical Pole Mount	Corner Mount	Vertical Pole Mount
			Ann

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

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