

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



















- 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 Recognition

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, tracking, capturing, grading and selecting. The camera captures the face and outputs the features, such as gender, age, and expression. 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 Recognition

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region and outputs the features, such as gender, age, top color, and vehicle type.



Specification

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Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	3840 × 2160			
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR			
Shutter Time	1 s to 1/100,000 s			
David O. Milalat	IR cut filter			
Day & Night	Blue glass module to reduce ghost phenomenon			
Lens				
5 11 11 0 501	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			
Anartura	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			
DODI	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			
Cumplement Light Dange	2.8 to 12 mm: 50 m			
Supplement Light Range	8 to 32 mm: 100 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
Video				
Adain Charan	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)			
Culs Characa	50 Hz: 25 fps (704 × 480, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
T I. 10.	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)			
Farmath Cha	50 Hz: 25 fps (704 × 480, 640 × 480)			
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG			
Video Bit Rate	32 Kbps to 16 Mbps			
Н.264 Туре	Baseline Profile/Main Profile/High Profile			
	-			



Baseline Profile/Main Profile/High Profile H.264 and H.265 encoding 4 fixed regions for main stream, sub-stream, third stream, fourth stream and fifth stream Yes CBR/VBR 8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz Mono sound				
4 fixed regions for main stream, sub-stream, third stream, fourth stream and fifth stream Yes CBR/VBR 8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
stream Yes CBR/VBR 8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
CBR/VBR 8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
Mono sound				
Mono sound				
G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3				
64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC) /8 to 320 Kbps (MP3)				
Yes				
TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS				
Up to 20 channels				
Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP				
Up to 32 users				
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 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) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
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 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge				
Yes				
Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser				
Day, Night, Auto, Schedule, Alarm Trigger				
120 dB				
BLC, HLC, Defog, 3D DNR				
≥ 52 dB				
8 programmable polygon privacy masks, mask color or mosaic configurable				
LOGO picture can be overlaid on video with 128 × 128 24bit bmp format				
EIS				
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 256 GB				
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, video tampering alarm, exception (network disconnected, IP 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 detection, audio exception detection, scene change detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture				
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 60 faces simultaneously 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 150,000 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)				
General					
Power	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block PoE: 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 × 347 mm (Ø5.7" × 13.7") 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, passwor protection, watermark, privacy mask, IP address filter, one-key reset, five streams				
Heater	Yes				
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Approval				
EMC	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			
	50130-4: 2011+A1: 2014);			
	RCM (AS/NZS CISPR 32: 2015);			
	IC (ICES-003: Issue 7);			
	KC (KN 32: 2015, KN 35: 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	With -Y: NEMA 4X(NEMA 250-2018)			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

Available Model

iDS-2CD7A86G0-IZHS (2.8 to 12 mm, 8 to 32 mm) iDS-2CD7A86G0-IZHSY (2.8 to 12 mm) $\,$

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.

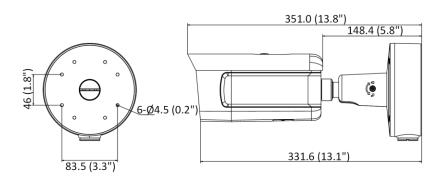
Without -Y model: This model has NO SPECIFIC PROTECTION.

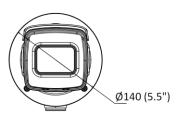
Level	Description		
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion		
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and		
	more.		
Moderate protection	Hikvision products at this level 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.		



Dimension

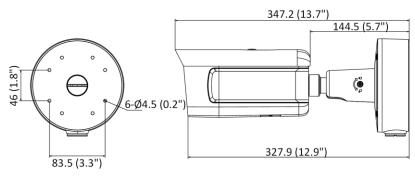
With -Y model:

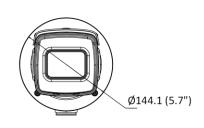




Unit: mm (inch)

Without -Y model:





Unit: mm (inch)

Accessory

Optional

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



Distributed by

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