

iDS-2CD7146G0-IZ(H)S(Y)(D) 4 MP IR Varifocal Dome Network Camera



















- 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, 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 Detection

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

Camera	nera		
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), B/W: 0 Lux with IR		
Shutter Time	1 s to 1/100,000 s		
Day & Night	IR cut filter		
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 107.4° to 39.8°, vertical FOV 56° to 22.4°, diagonal FOV 130.1° to 45.7° 8 to 32 mm, horizontal FOV 42.5° to 14°, vertical FOV 23.4° to 8°, diagonal FOV 49.7° to 17°		
Focus	Auto, Semi-auto, Manual		
Iris Type	P-iris		
Aperture	2.8 to 12 mm: F1.2, 8 to 32 mm: F1.6		
DORI			
DORI	2.8 to 12 mm: D: 149.0 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: Monitoring: 40 m; 8 to 32 mm: Monitoring: 60 m		
Smart Supplement Light	Yes		
IR Wavelength	850 nm		
Video			
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080m 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)		
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (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)		
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)		
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)		
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, 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 8 Mbps		



H.264 Type	Baseline Profile, Main Profile, High Profile		
H.265 Type	Main 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		
e-PTZ	Support Preset, Patrol, and Auto Tracking settings		
Audio			
Audio Type	Mono sound		
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
A 1: D: D 1	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			
Duckasala	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,		
Protocols	UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SFTP, SRTP		
Simultaneous Live View	Up to 20 channels		
API	Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,ISUP		
Llean/Lleah	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		
Client	iVMS-4200,Hik-Connect		
	Plug-in required live view: IE10, IE11,		
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+,		
	Not recommended: Chrome 57.0+, Firefox 52.0+, Safari12+		
	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.		
Image			
Image Parameters Switch	Yes		
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client		
85 551185	software or web browser		
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS		
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable		
Picture Overlay	LOGO picture can be overlaid on video with 128×12824 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 256 GB	
Built-in Microphone	Yes,2 built-in microphone(s)	
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 98 dB, speaker range: 10 m	
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: $4.7 \text{ K}\Omega$, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp , output impedance: 100Ω , interface type: non-equilibrium, mono sound	
Alarm	2 input(s), 2 output(s) (max. 24 VDC/24 VAC, 1 A)	
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)	
Reset Key	Yes	
Power Output	12 VDC, max. 100 mA	
Event		
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error, video quality diagnosis, vibration detection	
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), 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	
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	
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. 30,000 faces for each library. 150,000 faces in total., Face comparison speed up to 60 per frame., Recognizes face identity via face modeling, grading and comparing to those in face library, Supports face library encryption	
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, face capture	
General		
Power	12 VDC ± 25%, 0.97 A, max. 11.43 W, three-core terminal block, reverse polarity protection, 24 VAC ± 25%, 0.73 A, max. 10.67 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.19 A to 0.28 A, max. 11.92 W	
Material	Base: metal, cover: metal	
Dimension	Ø144.3 mm × 114.1 mm (Ø5.7" × 4.5")	
Package Dimension	244 mm × 174 mm × 173 mm (9.6" × 6.9" × 6.8")	
Weight	Approx. 990 g (2.0 lb.)	
With Package Weight	Approx. 1425 g (3.1 lb.)	
WILL I GUNGE WEIGHT	Whi av. 1150 8 (2.1 in.)	



Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Startup and Operating	-30 °C to 60 °C (-22 °F to 140 °F).	
Startup and Operating Conditions	With heater model (-H): -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, one-key reset, mirror, password protection, watermark	
Cable Length	0.25 m (0.8 ft.)	
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	
EMC	50130-4: 2011 +A1: 2014, EN50121-4	
EIVIC	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)	
Other	PVC FREE	

Available Model

iDS-2CD7146G0-IZS (D) (2.8 to 12 mm, 8 to 32 mm) iDS-2CD7146G0-IZHSY (D) (2.8 to 12 mm, 8 to 32 mm)



Typical Application

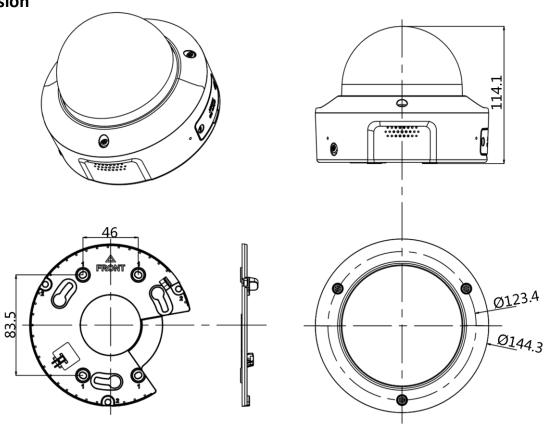
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

-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,
Moderate protection	and more. Hikvision products at this level are equipped for use in areas with moderate anti-corrosion
model ate protestion	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles)
No specific protection	away from coastlines, as well as areas affected by acid rain. Hikvision products at this level are equipped for use in areas where no specific anti-corrosion
	protection is needed.

Dimension



Unit: mm



Accessory

Optional

DS-1273ZJ-160	DS-1476ZJ-Y	DS-1227ZJ-DM32	DS-1475ZJ-SUS	DS-1476ZJ-SUS
Wall Mount	Corner Mount	In-Ceiling Mount	Vertical Pole Mount	Corner Mount
		A CONTRACTOR		
DS-14757 I-V	DS-12717-160	DS-127371-160-AKS		

DS-1475ZJ-Y	DS-1271Z-160	DS-1273ZJ-160-AKS
Vertical Pole Mount	Pendant Mount	Wall Mount
nnn		

^{*}Bracket model with -Y or -AKS supports anti-corrosion protection.

Distributed by ______

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