

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 identify, 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 identify, age, top color, and vehicle type.



- Specification

- 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), 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					
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)					
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz					
Environment Noise Filtering	Yes					
Network						
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, 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					
User/Host	Up to 32 users 3 user levels: administrator, operator, and user					
Security	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					
Client	iVMS-4200,Hik-Connect					
Web Browser	Plug-in required live view: IE10, IE11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Not recommended: Chrome 57.0+, Firefox 52.0+, Safari12+					
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), 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 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 × 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 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 K Ω , interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω , 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 Verification	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total., Face verification 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.)					



Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F).				
	With heater model (-H): -40 $^{\circ}$ C to 60 $^{\circ}$ C (-40 $^{\circ}$ F to 140 $^{\circ}$ 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, 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				
ENAC	50130-4: 2011 +A1: 2014, EN50121-4				
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)				
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

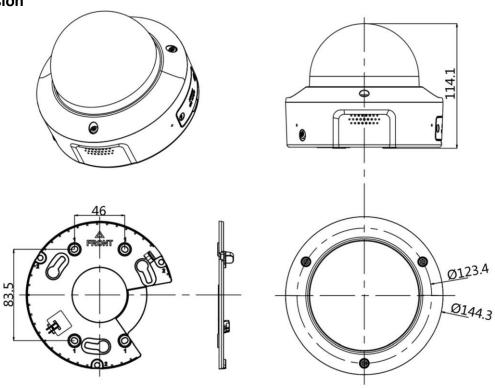
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

-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, 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



Unit: mm



Accessory

- Optional

WML+ PC160 Wall Mount	DS-1476ZJ-Y Corner Mount	RCM-VH In-Ceiling Mount	PM1 Vertical Pole Mount	CM1 Corner Mount
			Poor Poor	
DS-1475ZJ-Y Vertical Pole Mount	CPM + PC 160 Pendant Mount	DS-1273ZJ-160 AKS Wall Mount	DS-2280ZJ-WA140	
nnn				

Distributed by



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