

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













- Hikvsion Embedded Open Platform 2.0 for 3rd party integration
- Supports 2 Tops computing power, 150 MB system memory, 1024 MB smart RAM, and 2 GB eMMC storage for sharing resources
- 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)



Specification

1/1.8" Progressive Scan CMOS				
2688 × 1520				
Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), B/W: 0 Lux				
with IR				
1 s to 1/100,000 s				
IR cut filter				
Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°				
2.8 to 12 mm, horizontal FOV 114.6° to 14.8°, vertical FOV 59.3° to 23.6°, diagonal FOV				
141.3° to 48.1°				
8 to 32 mm, horizontal FOV 42.5° to 14°, vertical FOV 23.4° to 8°, diagonal FOV 49.7° to				
17°				
Auto, Semi-auto, Manual				
P-iris				
2.8 to 12 mm: F1.2, 8 to 32 mm: F1.6				
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				
IR				
2.8 to 12 mm: Monitoring: 30 m;				
8 to 32 mm: Monitoring: 50 m				
Yes				
850 nm				
Memory: 150 MB,				
Smart RAM: 1024 MB,				
eMMC: 2 GB				
2 TOPS				
HEOP 2.0 OpendevSDK				
Caffe, PyTorch, TensorFlow				
C, C++				
50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
50 Hz: 25 fps (704 × 576, 640 × 480)				
60 Hz: 30 fps (704 × 480, 640 × 480)				
50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)				
60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
TOW OF 6 (704 FT6 640 400)				
50 Hz: 25 fps (704 × 576, 640 × 480)				



Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
	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,				
	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 regions for each stream				
Target Cropping	Yes				
Audio					
Audio Type	Mono sound				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audia Dit Data	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					
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, WebSocket, WebSockets				
Simultaneous Live View	Up to 20 channels				
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK, ISUP				
User/Host	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				
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 1.1, TLS 1.2, TLS 1.3				
Client	iVMS-4200, Hik-Connect				
	Plug-in required live view: IE 11,				
Web Browser	Plug-in free live view: Safari 12+,				
	Local service: Chrome 57.0+, Firefox 52.0+,				
	Not recommended: Safari 11+, Edge				
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.				
lucas					
ımage					
Image Image Parameters Switch	Yes				
Image Parameters Switch					
	Yes Rotate mode, saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client software or web browser				



Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	BLC, HLC, 3D DNR, Defog				
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 microphones				
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 98 dB, speaker range: 10 m				
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
Audio	input impedance: 4.7 K Ω , interface type: non-equilibrium,				
Addio	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 inputs, 2 outputs (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, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error, abnormal restart, video quality diagnosis				
Smart Event	scene change detection, audio exception detection, defocus detection				
Linkana	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
General					
	12 VDC ± 20%, 1.02 A, max. 12.4 W, three-core terminal block, reverse polarity				
Power	protection,				
Power	24 VAC ± 20%, 0.82 A, max. 11.8 W,				
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.29 A to 0.22 A, max. 12.5 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. 945 g (2.0 lb.)				
With Package Weight	Approx. 1425 g (3.0 lb.)				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating	With -H: -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing),				
Conditions	Without -H: -30 °C to 60 °C (-22 °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, one-key reset, mirror, password protection, pixel counter, anti-banding				
Cable Length	0.25 m (0.8 ft.)				
	55 ··· (5.5 ·6)				



Approval			
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN		
	50130-4: 2011 +A1: 2014, EN50121-4,		
EMC	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		
	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		

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.

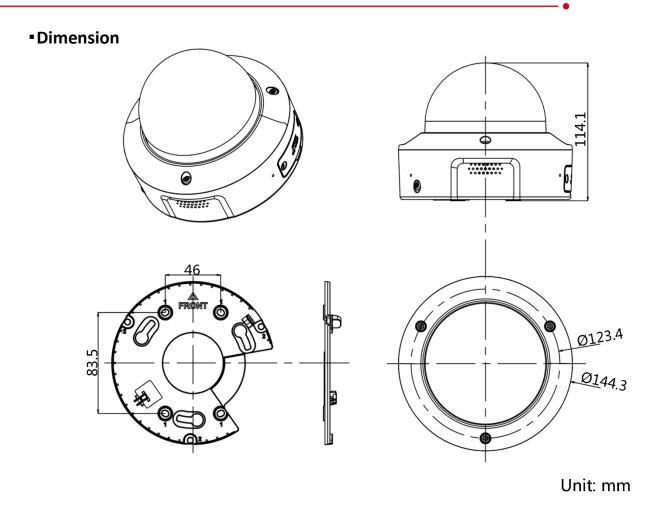
Available Model

iDS-2CD7146G0/H-IZS(2.8-12mm) iDS-2CD7146G0/H-IZHSY(8-32mm)

iDS-2CD7146G0/H-IZS(8-32mm)

iDS-2CD7146G0/H-IZHSY(2.8-12mm)





Accessory

Optional

DS-1271ZJ-160 Pendant Mount	DS-1273ZJ-160 Wall Mount	DS-1476ZJ-SUS Corner Mount	DS-1273ZJ-160-AKS Wall Mount	DS-1475ZJ-Y Vertical Pole Mount
				Ann
DS-1227ZJ-DM32 In-Ceiling Mount	DS-1475ZJ-SUS Vertical Pole Mount	DS-1476ZJ-Y Corner Mount		
d a	AAA			

^{*}Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y and -AKS bracket models).



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