

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





Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- 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)



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Specification

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	2688 × 1520			
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 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°			
Focus	Auto, Semi-auto, Manual			
Iris Type	P-iris			
Aperture	2.8 to 12 mm: F1.2, 8 to 32 mm: F1.6			
DORI				
	2.8 to 12 mm:			
DORI	D: 149.0 m, O: 59.1 m, R: 29.8 m, I: 14.9 m			
DON	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: 30 m;			
Supplement Light Kunge	8 to 32 mm: Monitoring: 50 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
HEOP				
	Memory: 150 MB,			
Open Resources	Smart RAM: 1024 MB,			
	eMMC: 2 GB			
Computing Power	2 TOPS			
Open Capability	HEOP 2.0 OpendevSDK			
Deep Learning Structure	Caffe, PyTorch, TensorFlow			
Programming Language	C, C++			
Video				
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)			
	60 Hz: 30 fps (2688 × 1520, 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)			
	00 112. 30 1µ3 (704 × 400, 040 × 480)			



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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			
Н.264 Туре	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			
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, 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			
0301/11031	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			
Web Browser	Plug-in required live view: IE 10, IE 11,			
	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,			
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+			
	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	Rotate mode, saturation, brightness, contrast, sharpness, AGC, white balance,			
ווועבר שבונוובש	adjustable by client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger			
Wide Dynamic Range (WDR)	140 dB			



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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: 1 m			
Audio	 1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, 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 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			
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm			
Liikage	output, trigger recording, trigger capture, audible warning			
General				
Power	12 VDC ± 20%, 1.02 A, max. 12.4 W, three-core terminal block, reverse polarity protection, 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.)			



Approval		
EMC	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,	
	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	
Environment	CE-RoHS: 2011/65/EU,	
	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 an 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)



Dimension 14.1 Φ 0 þ 0 ******* 46 0 Ø123.4 83.5 <u>Ø1</u>44.3 X 1

Unit: mm

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
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DS-1227ZJ-DM32 In-Ceiling Mount	DS-1475ZJ-SUS Vertical Pole Mount	DS-1476ZJ-Y Corner Mount		
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*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y and -AKS bracket models).



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