

# iDS-2CD7186G0/H-IZ(H)S(Y) 8 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 8 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 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

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), 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						
	2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58° to 23.1°, diagonal FOV					
Focal Length & FOV	137.4° to 47.3°					
, , , , , , , , , , , , , , , , , , ,	8 to 32 mm, horizontal FOV 41.8° to 15.0°, vertical FOV 22.9° to 8.5°, diagonal FOV					
	48.7° to 17.1°					
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: 216.0 m, O: 85.7 m, R: 43.2 m, I: 21.6 m					
50111	8 to 32 mm:					
	D: 580.0 m, O: 230.2 m, R: 116.0 m, I: 58.0 m					
Illuminator						
Supplement Light Type	IR					
Supplement Light Range	2.8 to 12 mm: Monitoring: 30 m; 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 (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)					
Iviaiii Sti Caiii	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 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)					
TIIIU SUEdIII	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)				
Then seream	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 16 Mbps				
H.264 Type	Baseline Profile, Main Profile, High Profile				
Н.265 Туре	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				
	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	163				
Network	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,				
Protocols					
C' li l' V'	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 10, IE 11,				
Web Browser	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				
	Rotate mode, saturation, brightness, contrast, sharpness, AGC, white balance,				
Image Settings	adjustable by client software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger				
Wide Dynamic Range (WDR)	120 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 $\Omega$ /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: m				
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , 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 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, Italiar 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.

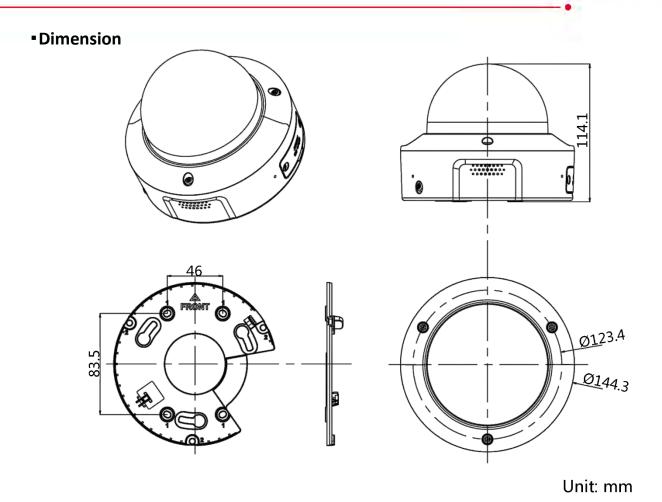
Without -Y model: This model has NO SPECIFIC PROTECTION.

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 anti- corrosion protection is needed.

#### Available Model

iDS-2CD7186G0/H-IZHSY(2.8-12mm) iDS-2CD7186G0/H-IZHSY(8-32mm) iDS-2CD7186G0/H-IZS(2.8-12mm) iDS-2CD7186G0/H-IZS(8-32mm)





### 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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<sup>\*</sup>Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y and -AKS bracket models).



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