

iDS-2CD7A86G0/H-IZHS(Y) 8MP DeepinView HEOP Moto Varifocal Bullet 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 protection 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 true 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 @ (F1.0, AGC ON),B/W: 0.001 Lux @ (F1.0, AGC ON),B/W: 0 Lux with IR	
Shutter Time	1 s to 1/100,000 s	
Day & Night	IR cut filter	
Lens		
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58° to 23.1°, diagonal 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		
DORI	Wide: 2.8mm to 12mm: D (Detect): 87 m, O (Observe): 34.5 m, R (Recognize): 17.4 m, I (Identify): 8.7 m 8mm to 32mm: D (Detect): 218 m, O (Observe): 86.5 m, R (Recognize): 43.6 m, I (Identify): 21.8 m Tele: 2.8mm to 12mm: D (Detect): D (Detect): 216 m, O (Observe): 85.7 m, R (Recognize): 43.2 m, I (Identify): 21.6 m 8mm to 32mm: D (Detect): 580 m, O (Observe): 230.2 m, R (Recognize): 116 m, I (Identify): 58 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.	
Illuminator		
Supplement Light Type	IR	
Supplement Light Range	2.8 to 12 mm: Monitoring: 50 m; 8 to 32 mm: Monitoring: 100 m	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
HEOP		
Open Resources	Memory: 150 MB, 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) 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)	
	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 16 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	
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		
THE CONTRACTOR OF THE CONTRACT	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, WebSocket, WebSockets	
Simultaneous Live View	Up to 20 channels	
API	Open Network Video Interface (Profile S, Profile G),ISAPI,SDK,ISUP	
AFI	Up to 32 users	
User/Host	3 user levels: administrator, operator, and user	
	·	
	Password protection, complicated password, HTTPS encryption, 802.1X authentication	
Canada	(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	
	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.	
	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+	



Image			
Image Parameters Switch	Yes		
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, AGC, white balance, adjustable		
	by clientsoftware 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		
SNR	≥ 52 dB		
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		
	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,		
Audio	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 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	12 VDG, Max. 100 MV		
Event	Motion detection, video tampering alarm, network disconnected, IP address		
Basic Event	conflict,illegal login,HDD full,HDD error,abnormal restart,video quality diagnosis		
Smart Event	scene change detection, audio exception detection, defocus detection		
Silial Cevent	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm		
Linkage	output,trigger recording,trigger capture,audible warning		
General	output, trigger recording, trigger capture, addible warning		
General	12 VDC + 200/ 1 4 A may 16 9 W three core terminal black reverse polarity		
Power	12 VDC ± 20%, 1.4 A, max. 16.8 W,three-core terminal block,reverse polarity protection,		
rowei	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.48 A to 0.36 A, max. 20 W		
Matarial	Aluminum alloy body		
Material	Ø140 mm × 351 mm (Ø5.5" × 13.8")		
Dimension Page 1-2 and Dimension	405 × 190 × 180 mm (15.9" × 7.5" × 7.1")		
Package Dimension			
Weight	Approx. 1955 g (2.0 lb.)		
With Package Weight	Approx. 3093 g (3.0 lb.)		
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)		
Startup and Operating Conditions	-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,		
Language	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.

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

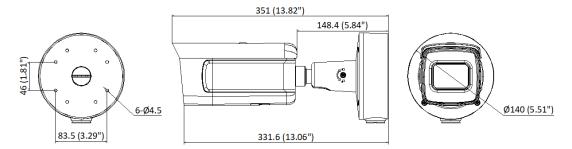
Level	Description
	Hikvision products at this level are equipped for use in
Top-level protection	areas where professional anti-corrosion protection is a
Top-rever protection	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate protection	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
No specific protection	areas where no specific anti-corrosion protection is needed.

Available Model

iDS-2CD7A86G0/H-IZHSY(2.8-12mm) iDS-2CD7A86G0/H-IZHSY(8-32mm)

Dimension



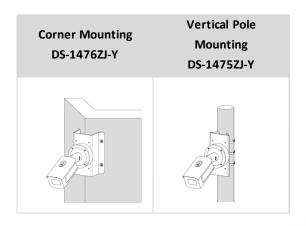


Unit: mm (inch)

- Accessory
- Optional



Installation Methods



See Far, Go Further



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