

iDS-2CD8A86G2-XZHS(Y) 8 MP DeepinView Multi-sensor Bullet Camera

DeepinView







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.

- High quality imaging with 8 MP resolution in channel 1 and 4 MP resolution in channel 2
- Adopt dual-channel design so you can get details in channel 1 and panorama view in channel 2
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 140 dB AWDR 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)
- Built-in heater to ensure clear image under rainy or snowy weather;
- Built-in G-sensor for vibration detection;
- Built-in power meter for historical power statistics;



Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. 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 Recognition

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.



Specification

Camera						
Imago Soncor	Channel 1: 1/1.2" Progressive Scan CMOS,					
Image Sensor	Channel 2: 1/1.8" Progressive Scan CMOS					
Max. Resolution	Channel 1: 3840 × 2160, channel 2: 2688 × 1520					
	Channel 1: Color: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @					
Min. Illumination	(F1.2, AGC ON), 0 Lux with IR,					
	Channel 2: Color: 0.0003 Lux @ (F1.0, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @					
	(F1.0, AGC ON), 0 Lux with IR					
Shutter Time	1 s to 1/100,000 s					
Day & Night	IR cut filter,					
Day & Night	Blue glass module (less ghost phenomenon)					
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°					
Lens						
	Channel 1: 10 to 50 mm: horizontal FOV 36° to 13.1°, vertical FOV: 20.4° to 7.4°,					
Focal Length & FOV	diagonal FOV 41.8° to 14.9°					
	Channel 2: 4 mm: horizontal FOV: 89°, vertical FOV: 45°, diagonal FOV: 107°					
Focus	Channel 1: Auto, semi-auto, manual					
Iric Tuno	Channel 1: P-iris,					
Iris Type	Channel 2: Fixed					
Aporturo	Channel 1: Constant F1.6 throughout the zoom range,					
Aperture	Channel 2: F1.0					
DORI						
	Channel 1:					
	Wide: D:241.4 m, O: 95.8 m, R: 48.3 m, I: 24.1 m					
DORI	Tele: D: 620.7 m, O: 246.3 m, R:124.1 m, I: 62.1 m					
	Channel 2:					
	D:77 m, O: 30.5 m, R: 15.4 m, I: 7.7 m					
Illuminator						
Supplement Light Type	Hybrid (IR and White Light)					
Supplement Light Range	Channel 1: up to 60 m,					
Supplement Light Range	Channel 2: up to 40 m					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
Video						
	Channel 1:					
	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	Channel 2:					
	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					



	Channel 1:				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Cult Character	60 Hz: 30 fps (704 × 480, 640 × 480)				
Sub-Stream	Channel 2:				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
	60 Hz: 30 fps (704 × 480, 640 × 480)				
	Channel 1:				
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)				
Third Streem	60 Hz: 15 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
Third Stream	Channel 2:				
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)				
	60 Hz: 15 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
	Channel 1:				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Foundh Chucons	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fourth Stream	Channel 2:				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
	60 Hz: 30 fps (704 × 480, 640 × 480)				
	Channel 1:				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Eifth Charles	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	Channel 2:				
	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 16 Mbps				
Н.264 Туре	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 48 Kbps (PCM)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz				
Environment Noise Filtering	Yes				



Network					
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE,				
Protocols	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS,				
	WebSocket, WebSockets				
Simultaneous Live View	Up to 20 channels				
API	Open Network Video Interface (Profile S, Profile G, Profile T), 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 1.2, TLS 1.3				
	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.				
Client	iVMS-4200,Hik-Connect				
	Plug-in required live view: IE 10, IE11,				
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	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client				
5 5	software or web browser				
Day/Night Switch	Channel 1: Day, Night, Auto, Schedule, Alarm Trigger,				
	Channel 2: Day, Night, Auto, Schedule, Alarm Trigger				
Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	Channel 1: BLC, HLC, 3D DNR, Defog, EIS,				
	Channel 2: BLC, HLC, 3D DNR, Defog				
Privacy Mask	8 programmable polygon privacy masks				
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	2 built-in microphones				
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
Audio	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: 100Ω , interface type: non-equilibrium, mono sound				
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)				
Built-in Speaker	1 built-in speaker				
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				
Reset Key	Yes				
Power Output	12 VDC, max. 50 mA				



Wiegand	1 Wiegand (CardID 26hit SHA-1 26hit Hik 24hit NEWC 72 hit)				
Event	1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)				
Event	Motion detection video townsking clarm execution (notwork disconnected JD address				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address				
	conflict, illegal login, HDD full, HDD error),video quality diagnosis,vibration detection				
Smart Event	Unattended baggage detection, object removal detection, 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					
	Channel 1,				
	Detects up to 60 targets simultaneously,				
	Supports simultaneous detection and capture of human body, face, motor vehicle,				
Multi-target-type Detection	non-motor vehicle,				
0 /1	Gets 7 face features,				
	Gets 13 human body features,				
	Gets 2 vehicle features,				
	Supports license plate recognition				
	Channel 1,				
Face Capture	Detects up to 120 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				
	Channel 1,				
	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total.,				
Face Comparison	Recognizes face identity via face modeling, grading and comparing to those in face				
	library,				
	Supports face library encryption				
	Channel 1,				
	Line crossing, intrusion, region entrance, region exiting,				
	Support alarm triggering by specified target types (human and vehicle),				
Perimeter Protection	Channel 2,				
	Line crossing, intrusion, region entrance, region exiting,				
	Support alarm triggering by specified target types (human and vehicle)				
	Channel 1,				
	Blocklist and allowlist: up to 10,000 records				
Road Traffic and Vehicle	Support license plate recognition of motorcycles (only in checkpoint scenario)				
Detection	Support vehicle attribute detection, including vehicle type, color, brand, etc. (City				
	Street mode is recommended.)				
	License plate recognition rate ≥98%				
General					
	Three-core terminal block,				
	12 VDC ± 20%, 1.89A, max. 22.6 W,				
Power	24 VAC ± 20%, 1.48 A, max. 22.2 W,				
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.43 A, max. 24 W				
Material	Aluminum alloy body				
Dimension	Ø140 mm × 410.1 mm (Ø5.5" × 16.1")				
	462 mm × 197 mm × 195 mm (18.2" × 7.76" × 7.68")				
Package Dimension	402 IIIII ^ 137 IIIII (10.2 × 7.7 × 7.0)				



Weight	Approx. 2630 g (5.80 lb.)				
With Package Weight	Approx. 3300 g (7.28 lb.)				
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italia Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedis Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chines Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian				
General Function	Heartbeat, one-key reset, mirror, password protection, flash log, anti-banding				
Heater	Yes				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Demist	Yes				
Approval					
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, 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, 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 model: NEMA 4X (NEMA 250-2018)				
Automotive and Railway	EN50121-4				
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.

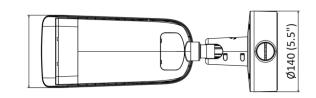
Level	Description			
	Hikvision products at this level are equipped for use in areas where professional			
Top-level protection	anti-corrosion protection is a must. Typical application scenarios include coastlines,			
	docks, chemical plants, and more.			
Moderate protection	Hikvision products at this 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.			

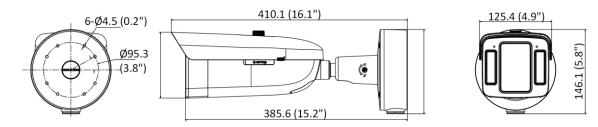


Available Model

iDS-2CD8A86G2-XZHS(1050/4) iDS-2CD8A86G2-XZHSY(1050/4)

Dimension





Unit: mm (inch)

Accessory

Optional

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount
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See Far, Go Further



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