

iDS-2CD8A86G2-XZHS(Y) 8MP 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					
Image Sensor	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				
Davi & Nilaht	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				
luis Tara	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 120 m,				
Supprement Light Range	Channel 2: up to 30 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				
Video					
Main Stream	Channel 1:				
	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)				
	Channel 2:				
	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
	60 Hz: 30 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 Stream	60 Hz: 15 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
iniru 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)		
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
i our ur su earn	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)		
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
	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	MainProfile		
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 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				
0381/11031	3 user levels: administrator, operator, and user				
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest 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				
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.				
Client	iVMS-4200,Hik-Connect				
Web Browser	Plug-in required live view: IE 10, IE11, 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 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 $\Omega$ /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 GE				
Audio	<ul> <li>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,</li> <li>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</li> </ul>				
Built-in Microphone	2 built-in microphones				
Built-in Speaker	1 built-in speaker				
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)				
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 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)				
Event					
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP add conflict, illegallogin, HDD full, HDD error), video quality diagnosis, vibration detected				



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 4		
	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,		
	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 $60^\circ$ to $60^\circ$ tilt up and down from $20^\circ$ to $20^\circ$		
	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,		
EacoComparison	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,		
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle),		
	Channel 2,		
	Line crossing, intrusion, region entrance, region exiting,		
	Support alarm triggering by specified target types (human and vehicle)		
	Channel 1,		
Road Traffic and Vehicle	Blocklist and allowlist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario)		
Detection			
Detection	Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)		
	License plate recognition rate ≥98%		
General			
General	Three core terminal block		
	Three-core terminal block,		
Power	$12 \text{ VDC} \pm 20\%$ , 1.89A, max. 22.6 W,		
	24 VAC ± 20%, 1.48 A, max. 22.2 W,		
Material	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.43 A, max. 24 W           Aluminum alloy body		
	Ø140 mm × 410.1 mm (Ø5.5" × 16.1")		
Dimension	462 mm × 197 mm × 195 mm (18.2" × 7.76" × 7.68")		
Package Dimension			
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)		
General Function	Heartbeat, one-key reset, mirror, password protection, flash log, anti-banding		



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				
Heater	Yes				
Demist	Yes				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Approval					
	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,				
EMC	RCM: AS/NZS CISPR 32: 2015,				
	IC: ICES-003: Issue 7,				
	KC: KN32: 2015, KN35: 2015				
	CB: IEC 62368-1:2014+A11,				
Safety	CE-LVD: EN 62368-1:2014/A11:2017,				
	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 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.

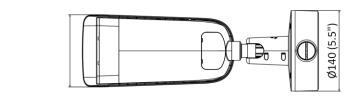
vel Description	
	Hikvision products at this level are equipped for use in
Top-level protection	areas where professional anti-corrosion protection is a
	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are equipped for use in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

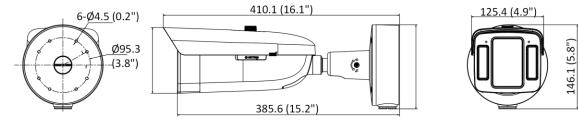
## Available Model

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



### Dimension

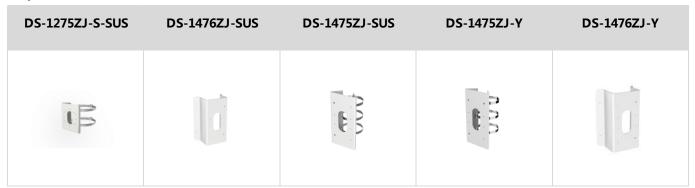




Unit: mm (inch)

## Accessory

### Optional



#### Installation Methods

Vertical Pole Mounting DS-1275ZJ-S-SUS	Vertical Pole Mounting DS-1475ZJ-SUS	Vertical Pole Mounting DS-1475ZJ-Y	Corner Mounting DS-1476ZJ-SUS	Corner Mounting DS-1476ZJ-Y
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# See Far, Go Further



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