

iDS-2CD8A86G0-XZ(H)S(Y) 8 MP DeepinView Multi-sensor 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.

- 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 and ColorVu 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)



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			
	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: 2560 × 1440		
Min. Illumination	Channel 1: Color: 0.0003 Lux @ (F1.2, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @		
	(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		
	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		
	Channel 1: P-iris,		
Iris Type	Channel 2: Fixed		
	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)		
	Channel 1: up to 120 m,		
Supplement Light Range	Channel 2: up to 30 m		
Smart Supplement Light	Yes		
IR Wavelength	850 nm		
Video			
	Channel 1:		
Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)		
	60 Hz: 24 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)		
	Channel 2:		
	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)		
	30 Hz. 23 lps (2300 × 1440, 1920 × 1000, 1200 × 720)		



	Channel 1:	
	50 Hz: 25 fps (704 × 576, 640 × 480)	
	60 Hz: 24 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: 24 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
	Channel 2:	
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
	Channel 1:	
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	
Fourth Stream	60 Hz: 24 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
	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: 24 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	
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	
Add bit nate	(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	
nvironment 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		
	Up to 32 users		
User/Host	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		
Web Browser	Plug-in required live view: IE 10, IE11,		
Med Blowsel	Plug-in free live view: Chrome 57.0+, Firefox 52.0+		
Image			
Image Parameters Switch	Yes		
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client		
image settings	software or web browser		
Day/Night Switch	Channel 1: Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger,		
Day/Night Switch	Channel 2: Day, Night, Auto, Schedule, Alarm Trigger		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	Channel 1: BLC, HLC, 3D DNR, Defog, EIS,		
mage Emidicement	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		
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,		
Audio	input impedance: 4.7 K Ω , 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, 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		
Event			
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address		
200.0 270110	conflict,illegal login,HDD full,HDD error,video quality diagnosis, vibration detection		



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,white light flashing	
Deep Learning Function		
	Channel 1,	
Multi-target-type Detection	Detects up to 60 targets simultaneously,	
	Supports simultaneous detection and capture of human body, face and vehicle,	
	Gets 7 face features,	
	Gets 13 human body features,	
	Gets 2 vehicle features	
	Channel 1,	
Face Capture	Detects up to 120 faces simultaneously,	
race capture	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,	
Perimeter Protection	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,	
Dower	12 VDC ± 20%, 1.90 A, max. 22.7 W,	
Power	24 VAC ± 20%, 1.39 A, max. 22.3 W,	
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.59 A to 0.44 A, max. 24.7 W	
Material	Aluminum alloy body	
Dimension	Ø140 mm × 410.1 mm (Ø5.5" × 16.1")	
Package Dimension	462 mm × 197 mm × 195 mm (18.2" × 7.76" × 7.68")	
Weight	Approx. 2.2 kg (4.85 lb.)	
With Package Weight	Approx. 3.38 kg (7.45 lb.)	
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)	



	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, flash log, anti-banding	
Heater	Yes	
Demist	Yes	
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)	
Approval		
	FCC: 47 CFR Part 15, Subpart B,	
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN	
EMC	50130-4: 2011 +A1: 2014,	
EIVIC	RCM: AS/NZS CISPR 32: 2015,	
	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 2015	
	UL: UL 62368-1,	
Safety	CB: IEC 62368-1: 2014+A11,	
Salety	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	
	1	

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.

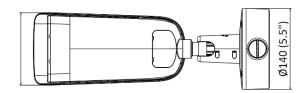
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in
	areas where professional anti-corrosion protection is a
	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are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

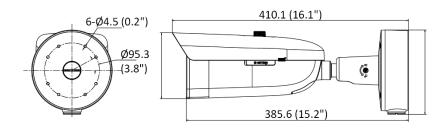


Available Model

iDS-2CD8A86G0-XZHSY(1050/4) iDS-2CD8A86G0-XZS(1050/4)

Dimension







Unit: mm (inch)

Accessory

Optional

PM1	CM1
Vertical pole mount	Corner mount
Ann	

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