

iDS-2CD8A86G0-XZHSY

8 MP DeepinView Multi-Sensor Bullet Camera



















- 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 and Comparison

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				
1	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			
	Channel 1: Color: 0.0003 Lux @ (F1.2, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @			
NATIONAL PROPERTY.	(F1.2, AGC ON), 0 Lux with IR,			
Min. Illumination	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 1/100000 s			
Doug 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			
Ivic Tupo	Channel 1: P-iris,			
Iris Type	Channel 2: Fixed			
Aportura	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,			
Supplement 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: 24 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)			
main stream	Channel 2:			
	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)			
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 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)			
	60 Hz: 24 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: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
	Channel 1:			
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
	60 Hz: 24 fps (1920 × 1080, 1280 × 720, 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)			
	60 Hz: 24 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			
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 region(s) 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			
Addio 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			
Environment Noise Filtering	vironment Noise Filtering Yes			



Network				
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, 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			
	Plug-in required live view: IE 10, IE11,			
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+			
Image				
Image Parameters Switch	Yes			
	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client			
Image Settings	software or web browser			
D /2011 1 2 11 1	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			
I	Channel 1: BLC, HLC, 3D DNR, Defog, EIS,			
Image Enhancement	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,			
Audia	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: 100 Ω , interface type: non-equilibrium, mono sound			
Alarm	2 input(s), 2 output(s) (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				
Pacie Event	Motion detection, video tampering alarm, network disconnected, IP address conflict,			
Basic Event	illegal login, HDD full, HDD error, video quality diagnosis, vibration detection			



	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection (support alarm triggered by specified target types (human and vehicle)),				
	Scene change detection, audio exception detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger ala output, trigger recording, trigger capture, white light flashing				
Deep Learning Function					
	Channel 1,				
	Detects up to 60 targets simultaneously,				
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle,				
Multi-target-type Detection	Gets 7 face features,				
	Gets 13 human body features,				
	Gets 2 vehicle features				
	Channel 1,				
Face Continue	Detects up to 120 faces simultaneously,				
Face 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,				
Face Combined District	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total. ,				
Face Captured Pictures	Recognizes face identity via face modeling, grading and comparing to those in face				
Comparison	library,				
	Supports face library encryption				
	Channel 1,				
	Line crossing, intrusion, region entrance, region exiting,				
Doving atom Duato ation	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,				
Dowor	12 VDC ± 20%, 1.90 A, max. 22.7 W,				
Power	24 VAC ± 20%, 1.39 A, max. 22.3 W,				
	PoE: 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 × 409.7 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),				
	Without -H: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				



General Function	Heartbeat, one-key reset, mirror, password protection, privacy mask, watermark, IP			
	address filter, flash log, conreol time out, anti-banding			
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian			
Languago	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish			
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
Heater	Yes			
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)			
Demist	Yes			
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			
	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			

Available Model

iDS-2CD8A86G0-XZHSY (1050/4)

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.

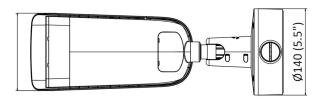
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

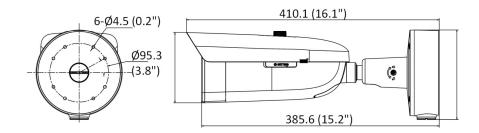
Level	Description		
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-		
	corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.		



Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosi			
	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.			

Dimension







Unit: mm (inch)

Accessory

Optional

DS-1275ZJ-S-SUS	CM1	PM1 Vertical Pole Mount	DS-1476ZJ-Y	DS-1475ZJ-Y
Vertical Pole Mount	Corner Mount		Corner Mount	Vertical Pole Mount
		ANN		

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