

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 @	
Adv. III	(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	
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,	
Supplement Light Range	Channel 2: up to 30 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: 24 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)	
	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)	
G. b. Glavara	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 Chrone	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)	
Fourth Stream	60 Hz: 24 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
routtii 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)	
Fifth Stream	60 Hz: 24 fps (704 × 480, 640 × 480)	
Titti 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 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 /h:: 1 : 0 :: 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 Ful	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		
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address conflict,	
	illegal login, HDD full, HDD error, video quality diagnosis, vibration detection	



	The control to the second of t	
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting 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		
Multi-target-type Detection	Channel 1, 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	
Face Capture	Channel 1, 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	
Face Captured Pictures Comparison	Channel 1, Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total. , Recognizes face identity via face modeling, grading and comparing to those in face library, Supports face library encryption	
Perimeter Protection	Channel 1, Line crossing, intrusion, region entrance, region exiting, 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)	
Road Traffic and Vehicle Detection	Channel 1, Blocklist and allowlist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98%	
General		
Power	Three-core terminal block, 12 VDC ± 20%, 1.90 A, max. 22.7 W, 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 Conditions	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	
Language	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	
ENAC.	50130-4: 2011 +A1: 2014,	
EMC	RCM: AS/NZS CISPR 32: 2015,	
	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 2015	
	UL: UL 62368-1,	
Cafatu	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	

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.

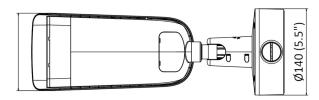
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

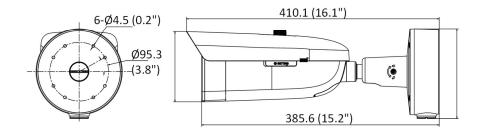
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-
	corrosion protection is a must. Typical application scenarios include coastlines, docks,
	chemical plants, and more.



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

Dimension







Unit: mm (inch)

Accessory

Optional

CM1	PM1
Corner Mount	Vertical Pole Mount
	ΔΩΩ

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

Follow us on social media to get the latest product and solution information.















