

iDS-2CD8A48G0-XZ(H)S(Y) 4 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.

- Excellent low-light performance via DarkFighterX and ColorVu technology
- Adopt dual-channel design so you can get details in channel 1 and panorama view in channel 2
- High quality imaging with 4 MP resolution in channel 1 and 4 MP resolution in channel 2
- 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 Detection

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.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.



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# Specification

Camera						
Channel 1: 1/1.8" Progressive Scan CMOS,						
Image Sensor	Channel 1: 1/1.8" Progressive Scan CMOS, Channel 2: 1/1.8" Progressive Scan CMOS					
Max. Resolution						
	Channel 1: 2560 × 1440, channel 2: 2560 × 1440					
	Channel 1: Color: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR,					
Min. Illumination						
	Channel 2: Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @					
Shutter Time	(F1.0, AGC ON), 0 Lux with IR 1 s to 1/100,000 s					
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: 5 to 20 mm : horizontal FOV 59° to 24°, vertical FOV: 33.4° to 13.3°,					
Focal Length & FOV	diagonal FOV 67.5° to 27.5°					
	Channel 2: 4 mm: horizontal FOV: 89°, vertical FOV: 45°, diagonal FOV: 107°					
Focus	Channel 1: semi-auto					
Iris Type	Channel 1: P-iris,					
	Channel 2: Fixed					
Aperture	Channel 1: F1.6,					
-	Channel 2: F1.0					
DORI						
	Channel 1:					
	Wide: D: 99.3 m, O: 39.4 m, R: 19.9 m, I: 9.9 m					
DORI	Tele: D: 248.3 m, O: 98.5 m, R: 49.7 m, I: 24.8 m					
	Channel 2:					
Illuminator	D: 77 m, O: 30.5 m, R: 15.4 m, I: 7.7 m					
	Hybrid (ID and White Light)					
Supplement Light Type	Hybrid (IR and White Light)					
Supplement Light Range	Channel 1: up to 60 m,					
Consult Council and and the late	Channel 2: up to 30 m					
Smart Supplement Light	Yes					
IR Wavelength	750 nm					
Video	Channel 4					
	Channel 1:					
	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	60 Hz: 30 fps (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)					
Sub-Stream	Channel 1: $50 \text{ Hz} = 25 \text{ fpc} (704 \times 576, 640 \times 480)$					
	50 Hz: 25 fps (704 × 576, 640 × 480)					
	60 Hz: 30 fps (704 × 480, 640 × 480) Channel 2:					
	Channel 2: 50 Hz: 25 fps (704 × 576, 640 × 480)					
	50  Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)					
	00 Hz. 30 Hz (704 A 400, 040 A 400)					



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	Channel 1:		
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
	Channel 2:		
	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
	60 Hz: 10 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)		
	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 8 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 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	ο κπ2/10 κπ2/32 κπ2/44.1 κπ2/46 κπ2 Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP,		
Protocols	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		
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	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Security	(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			
	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			
Mah Drowcor	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			
luce as Cattings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client			
Image Settings	software or web browser			
	Channel 1: Day, Night, Day (DarkfighterX), Auto (DarkfighterX), Schedule			
Day/Night Switch	(DarkfighterX), Full Time Color,			
	Channel 2: Day, Night, Auto, Scheduled-Switch, Triggered by Alarm input			
Wide Dynamic Range (WDR)	140 dB			
Interes Fullen content	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 $\Omega$ /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 GB			
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)			
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,			
A	input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,			
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,			
	output impedance: 100 $\Omega$ , interface type: non-equilibrium, mono sound			
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				
Denie Frank	Motion detection, video tampering alarm, network disconnected, IP address			
Basic Event	conflict, illegal login, HDD full, HDD error, video quality diagnosis, vibration detection			
Smart Event	Scene change detection, audio exception detection, defocus detection			
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm			
Linkage	output, trigger recording, trigger capture, white light flashing, audible warning			



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Deep Learning Function				
	Channel 1,			
	Detects up to 60 targets simultaneously,			
	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,			
	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,			
	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			
	Supports lace library encryption Supports up to 8 detection regions, and independent arming schedule and linkage			
	method			
	Supports 2 detection modes: regional people queuing-up, waiting time detection			
	Generates reports to compare the efficiency of different queuing-ups and display the			
Output Managament	changing status of one queue			
Queue Management	Supports raw data export for further analysis.			
	Supports real-time data uploading and scheduled data uploading			
	Regional people queuing-up: supports 4 alarm trigger conditions, including greater			
	than threshold, less than threshold, equal to threshold, not equal to threshold			
	Waiting time detection: supports 1 alarm trigger condition, including greater than			
	threshold			
	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,			
	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,			
Power	12 VDC ± 20%, 1.87A, max. 22.4 W,			
	24 VAC ± 20%, 1.38 A, max. 22.1 W,			
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 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. 2.36 kg (5.2 lb.)			
With Package Weight	Approx. 3.64 kg (8.0 lb.)			
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)			
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			
	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			
General Function	Heartbeat, one-key reset, mirror, password protection, flash log, anti-banding			
Heater	With -H: Yes			
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			
FMC	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,			
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			

## 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.

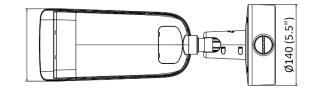


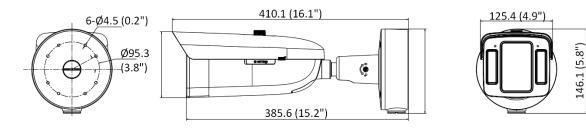
No specific protection	Hikvision products at this level are equipped for use in	
	areas where no specific anti-corrosion protection is needed.	

### Available Model

iDS-2CD8A48G0-XZS(5-20/4) iDS-2CD8A48G0-XZHSY(5-20/4)

#### Dimension





Unit: mm (inch)

#### Accessory

#### Optional

DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1275ZJ-S-SUS	DS-1475ZJ-Y	DS-1476ZJ-Y
Vertical pole mount	Corner mount	Vertical pole mount	Vertical pole mount	Corner mount
			nno	

