

iDS-2CD7086G0(-AP) 8 MP Box Network 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
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Built-in microphone for real-time audio security



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.

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.

Regional People Counting

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and reports an alarm if not.



Specification

Camera			
Image Sensor	1/1.8" Progressive Scan CMOS		
Max. Resolution	3840 × 2160		
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON)		
	B/W: 0.0002 Lux @ (F1.2, AGC ON)		
Shutter Time	1 s to 1/100,000 s		
Day & Night	IR cut filter		
Day & Night	Blue glass module to reduce ghost phenomenon		
Lens			
Lens Mount	CS mount		
Al Open Platform			
	Up to 4 models,		
Model Specification	Model type: detection model, classification model, mixed model (detection model and		
	classification model)		
Video			
	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)		
Main Stream	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)		
	50 Hz: 25 fps (704 × 480, 640 × 480)		
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
	50 Hz: 25 fps (704 × 480, 640 × 480)		
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
	50 Hz: 25 fps (704 × 480, 640 × 480)		
Fifth Stream	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		
	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	Yes		



Network				
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, 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, Profile M),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, TPM 2.0 (FIPS 140-2 level 2), AES128/256			
	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,Hik-Central			
	Plug-in required live view: IE 10, IE 11,			
Web Browser	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, white balance, and AGC adjustable by			
image Settings	client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	120 dB			
Image Enhancement	BLC,HLC,3D DNR,Defog			
SNR	≥ 52 dB			
Privacy Mask	8 programmable polygon privacy masks			
Image Stabilization	EIS			
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 100 M/1000 M self-adaptive Ethernet port			
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB			
Built-in Microphone	Yes,1 built-in microphone			
Audio	1 input (line in), 1 output (line out), 3.5 mm connector			
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. 100 mA			
Event				
	Motion detection (support alarm triggering by specified target types (human and			
Basic Event	vehicle)),video tampering alarm,exception (network disconnected, IP address conflict,			
	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis			



Smart Event	scene change detection, audio exception detection, defocus detection	
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm	
Lilikage	output,trigger recording,trigger capture,audible warning	
Deep Learning Function		
	Supports simultaneous detection and capture of human body, face, and vehicle,	
	Gets 7 face features,	
	Gets 13 human body features,	
Multi-target-type Detection	Gets 2 vehicle features,	
	Supports counting the number of line crossing targets by type, including human body,	
	non-motor vehicle, motor vehicle	
	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame	
	simultaneously and uploads up to 10 face pictures per second,	
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,	
Face Capture	Uploads face with background and closed-up face pictures,	
	Supports best shot and quick shot for capture mode,	
	Gets 7 face features	
	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,	
Face Comparison	Supports face library encryption	
	Line crossing, intrusion, region entrance, region exiting	
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)	
	Support combined event alarm triggering	
	Supports Multi-Dimension People Counting,	
	Supports counting, displaying and exporting the people flow data of entering, exiting	
	and passing by (The data is stored in the flash.),	
	Supports real-time uploading and uploading by statistic cycle,	
	Supports generating daily, weekly, monthly or annually reports,	
People Counting	Supports dynamic deduplication based on face picture comparison, and can filter out	
	the target with the same custom face pictures, same attributes, or filter out repeated	
	invalid targets within the set time interval,	
	Supports face feature deduplication,	
	Supports people flow data replenishment	
	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	
	changing status of one queue	
Queue Management	Supports raw data export for further analysis	
Queue Munagement	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	
	A graphic description of visits (by calculating amount of people or amount of dwell	
Heat Map	time) in a configured area.,	
	Two report types are available, space heat map and time heat map line chart.	



Hard Hat Detection	Detects up to 30 human targets simultaneously
Hard Hat Detection	Supports up to 4 shield regions
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting
	detection, face capture, multi-target-type detection
	Supports up to 8 detection regions, and independent arming schedule and linkage
	method
	Supports 3 detection modes: people density detection, number of people exception
	detection, waiting time exception detection
	Supports parameter settings: alarm times per exception, alarm interval, first alarm
	delay
	Supports searching real-time number of people
	People density detection: supports scheduled uploading, number of people change
Regional People Counting	uploading, congestion level uploading
	Number of people exception detection: supports 6 alarm trigger conditions, including
	greater than threshold A, less than threshold A, equal to threshold A, not equal to
	threshold A, greater than threshold A and less than threshold B, less than threshold A
	or greater than threshold B (threshold A should be less than threshold B)
	Waiting time exception detection: supports 3 alarm trigger conditions, including
	greater than threshold A, less than threshold A, greater than threshold A and less than
	threshold B (threshold A should be less than threshold B)
	Supports up to 8 detection regions, and independent arming schedule and linkage
	method
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection
	Supports parameter settings: person on duty, absence duration
General	The state of the s
	12 VDC ± 20%, 0.9 A, max. 10.8 W, two-core terminal block
Power	24 VAC ± 20%, 0.44 A, max. 10.4 W, two-core terminal block
	PoE: IEEE 802.3af, Type 1, Class 3, 36 V to 57 V, 0.33 A to 0.21 A, max. 11.6 W
Material	Aluminum alloy body
Dimension	142.5 mm × 69.8 mm × 68 mm (5.61" × 2.75" × 2.68")
Package Dimension	315 mm × 140 mm × 140 mm (12.4" × 5.51" × 5.51")
Weight	Approx. 730 g (1.96 lb.)
With Package Weight	Approx. 1115 g (2.99 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating	-30 C to 00 C (-22 1 to 140 1). Humary 33% of less (non-condensing)
Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
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,
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	
General Function Device Management	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian



Approval			
EMC	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		
	50130-4: 2011 +A1: 2014,		
	RCM: AS/NZS CISPR 32: 2015,		
	IC: ICES-003: Issue 7,		
	KC: KN32: 2015, KN35: 2015		
Safety	UL: UL 62368-1,		
	CB: IEC 62368-1: 2014+A11,		
	CE-LVD: EN 62368-1: 2014/A11: 2017,		
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,		
	LOA: IEC/EN 60950-1		
Environment	CE-RoHS: 2011/65/EU,		
	WEEE: 2012/19/EU,		
	Reach: Regulation (EC) No 1907/2006		
CC	Common Criteria, Assurance Level: EAL2 + ALC_FLR.2		

Typical Application

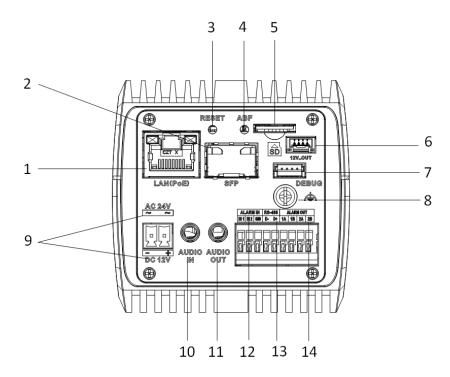
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-level protection	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.	



Physical Interface



No.	Description	No.	Description
1	LAN (PoE)	8	GROUND
2	SFP	9	AC 24 V/DC 12 V
3	RESET Button	10	AUDIO IN
4	ABF	11	AUDIO OUT
5	MicroSD Card Slot	12	ALARM IN
6	DC 12 V OUT	13	RS-485
7	DEBUG	14	ALARM OUT

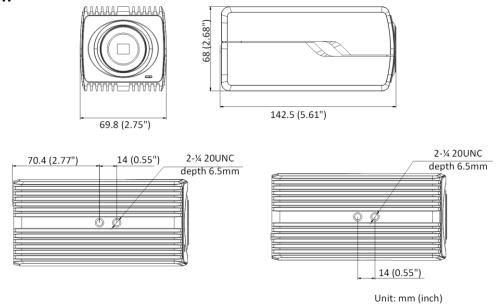
^{*}Note: The interface varies depending on the model. Please refer to the actual product.

Available Model

iDS-2CD7086G0-AP(C)



Dimension



Accessory

Optional

DS-1292ZJ Wall mount	DS-1293ZJ Wall mount	DS-1299ZJ Pendant Mount	DS-1269ZJ Pendant Mount	DS-1214ZJ Horizontal pole mount
DS-1233ZJ Pendant Mount	DS-1332HZ Indoor Housing	DS-1331HZ-W Outdoor Housing	HV3816P-8MPIR Mega-pixel P-Iris Lens	HV1140P-8MPIR Mega-pixel P-Iris Lens
HV3816D-8MPIR Mega-pixel Auto-Iris Lens	HV1140D-8MPIR Mega-pixel Auto-Iris Lens	DS-2202ZJ Wall mount		
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