

iDS-2CD7086G0-AP 8 MP Box Network Camera







- DeepinView

- 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
- 3 streams to meet a wide variety of applications
- Built-in microphone for real-time audio security



Function

Face Recognition

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.

People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and reports a face 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

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			
buy a mgm	Blue glass module to reduce ghost phenomenon			
Lens				
Lens Mount	CS mount			
Al Open Platform				
Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model			
Woder Specification	(detection model and classification model)			
Video				
Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)			
Main Sucam	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280× 720)			
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Third Stream	50 Hz: 25 fps (704 × 480, 640 × 480)			
Tillia Sa calli	60 Hz: 30 fps (704 × 480, 640 × 480)			
	Main stream: H.265+/H.265/H.264+/H.264,			
Video Compression	Sub-stream: H.265/H.264/MJPEG,			
	Third 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			
Audia Dit Data	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				
Ductocale	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,			
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP			
Hear/Hest	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			
	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: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11			
Web Browser	Plug-in free live view: Chrome 45.0+, Firefox 52.0+			
	Not recommended: Safari 11+, Edge			
Image				
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by			
mage Settings	client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger			
Wide Dynamic Range (WDR)	120 dB			
SNR	≥ 52 dB			
Image Enhancement	BLC, HLC, Defog, 3D DNR			
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable LOGO picture can be overlaid on video with 128 × 128 24bit bmp format			
Picture Overlay				
Image Stabilization	EIS			
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			
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, 1 built-in microphone			
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1A)			
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, video tampering alarm, exception (network disconnected, IP			
Basic Event	address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality			
	diagnosis			
	Line crossing detection, intrusion detection, region entrance detection, region exiting			
Smart Event	detection, audio exception detection, scene change detection, defocus detection			
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm			
Linkage	output, trigger recording, trigger capture, audible warning			
Deep Learning Function	, , , , , , , , , , , , , , , , , , , ,			
· ·	Supports simultaneous detection and capture of human body, face and vehicle			
Multi-target-type Detection	Gets 7 face features, 13 human body features and 2 vehicle features			



	Detects up to 60 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
Face Campanian	Up to 10 face libraries. Up to 30,000 faces for each library. 150,000 faces in total.
Face Comparison	Supports face library encryption
Daving star Doct action	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
	Supports crossline people counting,
	Supports counting, displaying and exporting the people flow data of entering and
	exiting. (The data is stored in the flash.),
People Counting	The real-time people flow data is displayed on the screen. ,
	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 picture.,
	Supports real-time uploading and uploading by statistic cycle
	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 management	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.
	Detects up to 30 human targets simultaneously
Hard Hat Detection	Supports up to 4 shield regions
	Intrusion detection, line crossing detection, region entrance detection, region exiting
Metadata	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 uploading, congestion level uploading Number of people
Regional People Counting	exception detection: supports 6 alarm trigger conditions, including greater than
O	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, les
	than threshold A, greater than threshold A and less than threshold B (threshold A
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,	Supports up to 8 detection regions, and independent arming schedule and linkage			
On 10ff Duty Datastics				
On/Off Duty Detection	method Supports 2 detection modes: absence detection, on/off duty detection			
	Supports parameter settings: person on duty, absence duration			
General				
	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: 802.3af, Type 1, Class 3, 36 V to 57 V, 0.33 A to 0.21 A, max. 11.6 W			
Dimension	142.5 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")			
Package Dimension	315 × 140 × 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	20 °C to C0 °C / 22 °F to 140 °F \			
Conditions	-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,			
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
0 15 11	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter,			
General Function	one-key reset, five streams			
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 50130-			
	4: 2011 +A1: 2014);			
EMC	RCM (AS/NZS CISPR 32: 2015);			
	IC (ICES-003: Issue 7);			
	KC (KN 32: 2015, KN 35: 2015)			
	UL (UL 62368-1);			
	CB (IEC 62368-1:2014+A11);			
Safety	CE-LVD (EN 62368-1:2014/A11:2017);			
·	BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005);			
	LOA (IEC/EN 60950-1)			
	CE-RoHS (2011/65/EU);			
Environment	WEEE (2012/19/EU);			
	Reach (Regulation (EC) No 1907/2006)			
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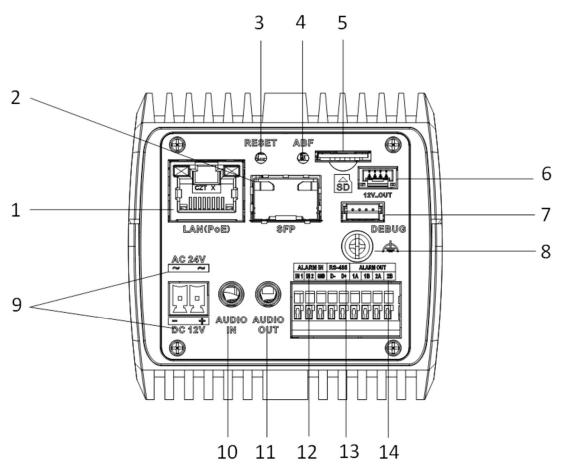
Typical Application

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		
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.		

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



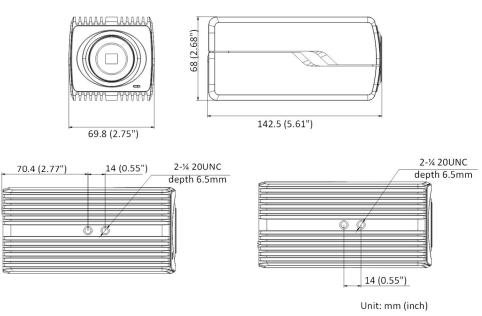
	5 MicroSD Card Slot 6 DC 12 V OUT 7 DEBUG		12	ALARM IN	
			13	RS-485	
			14	ALARM OUT	

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

Available Model

iDS-2CD7086G0-AP

Dimension



Accessory

Optional

DS-1332HZ Indoor Housing	HV1050D-12MPIR Mega-pixel Auto- Iris Lens	HV3816D-8MPIR Mega-pixel Auto-Iris Lens	DS-2202ZJ Wall Mount	HV3816P-8MPIR Mega-pixel P-Iris Lens



DS-1293ZJ Wall mount	DS-1331HZ-W Outdoor Housing	DS-1299ZJ Pendant Mount	HV1140D-8MPIR Mega-pixel Auto- Iris Lens	DS-1233ZJ Pendant Mount
DS-1214ZJ Horizontal Pole Mount	DS-1292ZJ Wall Mount	DS-1269ZJ Pendant Mount		
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