

# iDS-2CD7086G0(-AP) 8 MP Box Network Camera



















- 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 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	эреспісаціон				
Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	3840 × 2160				
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON)				
Wiiii. iiiuiiiiiatioii	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					
Madal Charification	Up to 4 models, Model type: detection model, classification model, mixed model				
Model Specification	(detection model and classification model)				
Video					
NA=in Characa	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)				
Cub Chuanna	50 Hz: 25 fps (704 × 480, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
Thind Change	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)				
Faculto Chuanna	50 Hz: 25 fps (704 × 480, 640 × 480)				
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
FIGURE OF	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 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				
A !' D' D	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				
<u> </u>					



Network					
D 1	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				
/	Up to 32 users				
User/Host	3 user levels: administrator, operator, and user				
	Password protection, complicated password, HTTPS encryption, 802.1X authenticatio				
	(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				
image Jettings	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				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format				
Image Stabilization	EIS				
Interface					
Video Output	1 Vp-p Composite Output (75 $\Omega$ /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				
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Jinait Event	detection, audio exception detection, scene change detection, defocus detection				



Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning		
Deep Learning Function	output, trigger recording, trigger capture, addible warning		
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle features		
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Fara Cambuna	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 Comparison	Up to 10 face libraries. Up to 30,000 faces for each library. 150,000 faces in total.		
race Companson	Supports face library encryption		
Perimeter Protection	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.		
	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		
IIAIU HAL DELECTION	Supports up to 4 shield regions		
Motodoto	Intrusion detection, line crossing detection, region entrance detection, region exiting		
Metadata	detection, face capture, multi-target-type detection		



Regional People Counting	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 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)		
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: absence detection, on/off duty detection Supports parameter settings: person on duty, absence duration		
General			
Power	12 VDC ± 20%, 0.9 A, max. 10.8 W, two-core terminal block 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 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, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian		
General Function	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter, one-key reset, five streams		
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 (KN 32: 2015, KN 35: 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)		



	CE-RoHS (2011/65/EU);
Environment	WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)



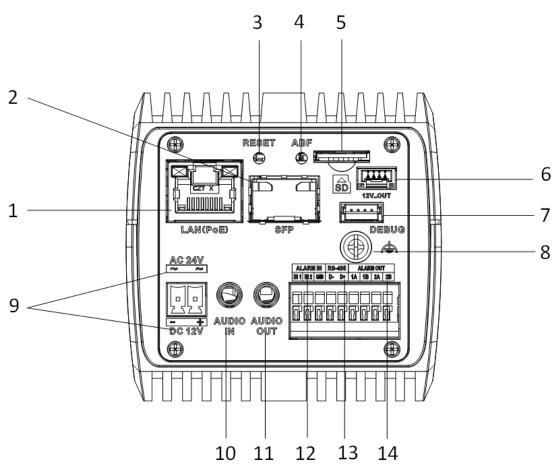
# Typical Application

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) awa			
	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



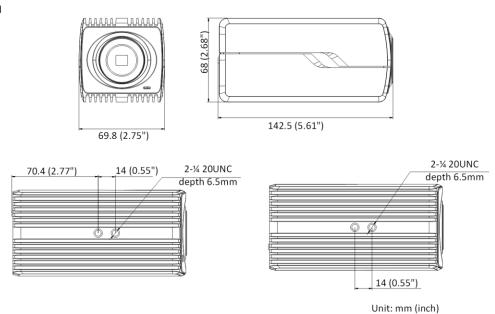
5	MicroSD Card Slot	12	ALARM IN
6	DC 12 V OUT	13	RS-485
7	DEBUG	14	ALARM OUT

<sup>\*</sup>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
			4	



DS-1293ZJ Wall mount	DS-1331HZ-W Outdoor Housing	DS-1299ZJ Pendant Mount	HV1140D-8MPIR Mega-pixel Auto-Iris Lens	DS-1233ZJ Pendant Mount
No.				
DS-1214ZJ Horizontal Pole Mount	DS-1292ZJ Wall Mount	DS-1269ZJ Pendant Mount		
Way)				
Distributed by				

### **HIKVISION**°

#### Headquarters

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

Hikvision USA T +1-909-895-0400

T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T+61-2-8599-4233 salesau@hikvision.com

Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33(0)1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T+7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-{0}31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T+62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com