

iDS-2CD7046G0/S-AP 4MP 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 4 MP resolution
- Excellent low-light performance via DarkFighter 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
- Built-in microphone for real-time audio security



#### Function

**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. 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.

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.



.

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	2688 × 1520			
<b></b>	Color: 0.0005 Lux @ (F1.2, AGC ON)			
Min. Illumination	B/W: 0.0001 Lux @ (F1.2, AGC ON)			
Shutter Time	1 s to 1/100,000 s			
5 0 W L	IR cut filter			
Day & Night	Blue glass module to reduce ghost phenomenon			
Lens				
Lens Mount	CS mount			
AI 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 (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)			
	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)			
Main Stream	60 Hz:			
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)			
	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)			
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fifth Stream	50 Hz: 25 fps (704 × 480, 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.265 Туре	Main Profile			
Н.264 Туре	Baseline Profile, Main Profile, High 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			
e-PTZ	Support Patrol and Auto Tracking settings			
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 (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, SRTP, 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, Profile M),ISAPI,SDK,ISUF		
User/Host	Up to 32 users 3 user levels: administrator, operator, and user		
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentic (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Netwo Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256		
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.		
Client	iVMS-4200,Hik-Connect,Hik-Central		
Web Browser	Plug-in required live view: IE 10, IE 11, 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	Rotate mode, saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser		
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog		
SNR	≥ 52 dB		
Privacy Mask	8 programmable polygon privacy masks		
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit 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		
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		



Event			
Basic Event	Motion detection (support alarm triggering by specified target types (human and 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 output, trigger recording, trigger capture, audible warning		
Deep Learning Function			
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering		
Queue Management	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 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		
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell 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 Supports up to 4 shield regions		
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection		
Regional People Counting	<ul> <li>Supports up to 8 detection regions, and independent arming schedule and linkage method</li> <li>Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection</li> <li>Supports parameter settings: alarm times per exception, alarm interval, first alarm delay</li> <li>Supports searching real-time number of people</li> <li>People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading</li> <li>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 B (threshold A should be less than threshold B)</li> <li>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 A and less than threshold B)</li> </ul>		



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				
	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.)			
Startup and Operating	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)			
Conditions				
Storage 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			
General Function	Heartbeat, mirror, password protection, one-key reset			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			
Device Management	output alarm interfaces			
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			
EMC	50130-4: 2011 +A1: 2014,			
LIVIC	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			
	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.

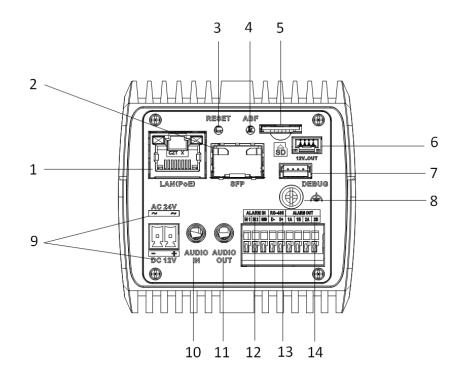
This model has NO SPECIFIC PROTECTION.

Level Descri	ption
--------------	-------



Top-level protection	<ul> <li>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.</li> <li>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.</li> </ul>	
Moderate protection		
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

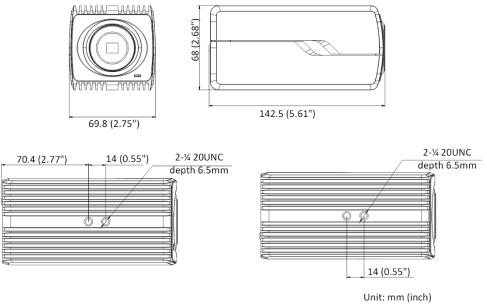
\*Note: The interface varies depending on the model. Please refer to the actual product.

Available Model

iDS-2CD7046G0/S-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
	F		₹₽	No. 10 Across Ac
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
Ĩ		E F		
HV3816D-8MPIR Mega-pixel Auto-Iris Lens	HV1140D-8MPIR Mega-pixel Auto-Iris Lens	HV0733D-6MP Mega-pixel Auto-Iris Lens	HV0415D-MP Mega-pixel Auto-Iris Lens	DS-2202ZJ Wall mount
		F		<b>E</b>



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.











Hikvision Corporate Channel



©Hikvision Digital Technology Co., Ltd. 2023 | Data subject to change without notice |