

iDS-2CD7046G0(-AP)(/F11) 4MP Box Network Camera



















- 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

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

Camera	nera		
Image Sensor			
Max. Resolution	2560 × 1440		
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON)		
Shutter Time	1 s to 1/100,000 s		
Shace Time	IR cut filter		
Day & Night	Blue glass module to reduce ghost phenomenon		
Lens	blue glass module to reduce ghost phenomenon		
Lens Mount	CS mount		
Al Open Platform	Cambunt		
Ai Open Flationii	Up to 4 models,		
Madel Specification			
Model Specification	Model type: detection model, classification model, mixed model (detection model and classification model)		
Vidos	classification model)		
Video	50 Hz 50 frz /2500 v 4440 4020 v 4000 4200 v 720)		
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)		
	60 Hz: 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 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 Dia 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			
Drotocols	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		
Llean/Lleat	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		
Imaga Cattings	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)	140 dB		
Defog	Yes		
Image Enhancement	BLC, HLC, Defog, 3D DNR		
SNR	≥ 52 dB		
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 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		
	With /F11: 1 LC fiber optical interface, SFP module, single mode, 20 km transmission		
Fiber Optical	distance, 1310 nm (TX) and 1550 nm (RX), 155 Mbps transmission rate		



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
Smart 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	
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
	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 companison	Supports face library encryption
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting
Termeter Frotestion	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
	Supports up to 4 shield regions
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting
	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 B (threshold A and 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 A and less than threshold A and less than threshold B (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	With F11: 12 VDC ± 20%, 0.95 A, max. 11.3 W, two-core terminal block 24 VAC ± 20%, 0.49 A, max. 11.6 W, two-core terminal block PoE: 802.3af, Type 1, Class 3, 36 V to 57 V, 0.35 A to 0.22 A, max. 12.3 W Without /F11: 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			
Material	Aluminum alloy body			
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			
	FCC (47 CFR Part 15, Subpart B);		
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 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 (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)		



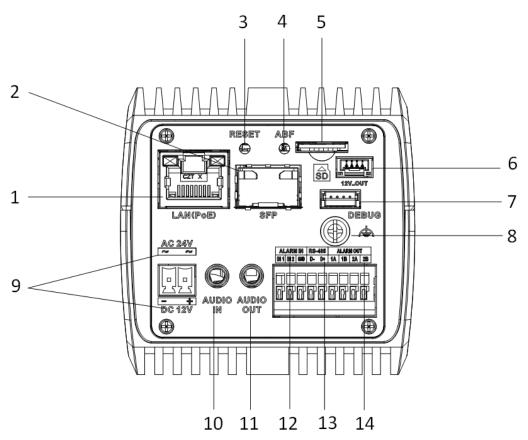
Typical Application

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	BF 11	AUDIO OUT
5	MicroSD Card Slot	12	ALARM IN
6	6 DC 12 V OUT		RS-485
7 DEBUG		14	ALARM OUT

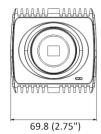
^{*}Note: The interface varies depending on the model. Please refer to the actual product.

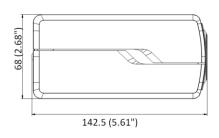


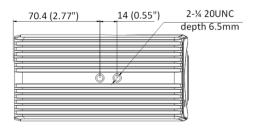
Available Model

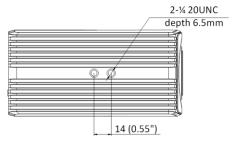
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Dimension









Unit: mm (inch)



Accessory

Optional

•				
DS-1214ZJ Horizontal Pole Mount	HV0733D-6MP Mega-pixel Auto-Iris Lens	DS-1299ZJ Pendant Mount	DS-1332HZ Indoor Housing	DS-1293ZJ Wall Mount
Way !				No.
DS-1331HZ-W Outdoor Housing	HV0415D-MP Mega-pixel Auto-Iris Lens	HV1140D-8MPIR Mega-pixel Auto-Iris Lens	DS-2202ZJ Wall Mount	DS-1269ZJ Pendant Mount
HV3816D-8MPIR Mega-pixel Auto-Iris Lens	DS-1233ZJ Pendant Mount	DS-1292ZJ Wall Mount	HV3816P-8MPIR Mega-pixel P-Iris Lens	



Distributed by

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