

iDS-2CD7046G2-AP 4MP DeepinView Varifocal Box Camera

DeepinView







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 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR 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
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics



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	2688 × 1520			
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			
Day & Night	IR cut filter,Blue glass module (less 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				
	Monitoring mode:			
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)			
	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)			
Main Stream	*High frame rate is supported under monitoring mode only.			
	smart mode:			
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)			
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)			
Tour cir Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)			
Thur su cam	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			
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			
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			
Addio Compression	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/48 kHz			
Environment Noise Filtering	Yes			
Network				
THE COUNTY OF TH	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE,			
Protocols	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket, WebSockets			
Simultaneous Live View	Up to 20 channels			
API	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)			
	Up to 32 users			
User/Host	3 user levels: administrator, operator, and user			
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest 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			
Client	iVMS-4200,Hik-Connect,Hik-Central			
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.			
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, AGC, white balance, adjustable by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	150 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.			
Interface				
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)			
Ethernet Interface	1 RJ45 10 M/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), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp			
	output impedance: 100 Ω , interface type: non-equilibrium, mono sound			
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 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)			
Smart Event	scene change detection, audio exception detection, defocus detection			
Linkono	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,			
	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,			
	Supports dynamic mosaic mask			
	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,			
	Supports dynamic mosaic mask,			
	Gets 7 face features			
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,			
race companson	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,			
People Counting	Supports dynamic deduplication based on face picture comparison, and can filter out			
reopie Counting	the target with the same custom face pictures, same attributes, or filter out repeated			
	invalid targets within the set time interval,			
	Supports people flow data replenishment,			
	Supports face feature deduplication,			
	Supports generating daily, weekly, monthly or annually reports			



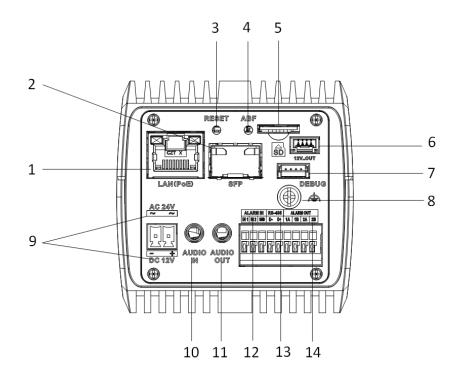
Queue Management	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports 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,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 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 A and less than threshold B (threshold A should be less 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 \pm 20%, 0.8 A, max. 9.6 W,three-core terminal block,reverse polarity protection, 24 VAC \pm 20%, 0.64 A, max. 9.2 W, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.32 A to 0.24 A, max. 13.2 W			
Material	Aluminum alloy body			
Dimension	142.5 mm × 69.8 mm × 68 mm (5.61" × 2.75" × 2.68")			
Package Dimension Weight	315 mm × 140 mm × 140 mm (12.4" × 5.51" × 5.51") Approx. 765 g (1.69 lb.)			



With Package Weight	Approx. 1150 g (2.54 lb.)			
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)			
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °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, one-key reset, mirror, password protection, pixel counter, anti-banding			
Davies Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			
Device Management	output alarm interfaces			
Approval				
	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC			
	61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,			
EMC	RCM: AS/NZS CISPR 32: 2015,			
	IC: ICES-003: Issue 7,			
	KC: KN32: 2015, KN35: 2015			
	CB: IEC 62368-1: 2014+A11,			
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017,			
Safety	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			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

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

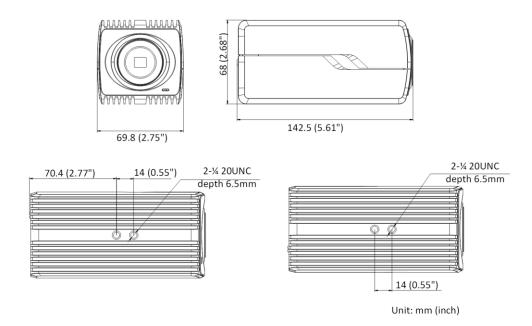
^{*}Note: The interface varies depending on the model. Please refer to the actual product.

Available Model

iDS-2CD7046G2-AP

Dimension





Accessory

Optional

Optional	l				
	292ZJ mount	DS-1293ZJ Wall mount	DS-1299ZJ Pendant Mount	DS-1269ZJ Pendant Mount	DS-1214ZJ Horizontal pole mount
	4				
(III)					



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
		B E		
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
				4

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