

iDS-2CD7046G2-AP(/F11) 4MP DeepinView Varifocal Box 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 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 voltage exception alarm and 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.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.



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				
Video					
Main Stream	50 Hz: 100 fps (1920 × 1080) 50 fps (2688 × 1520, 2560 × 1440, 1280 × 720) 60 Hz:				
	120 fps (1920 × 1080)				
	60 fps (2688 × 1520, 2560 × 1440, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
ms911C-auc	60 Hz: 30 fps (704 × 480, 640 × 480)				
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)				
TIMA SUCAIII	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 576, 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				
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				
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/48 kHz				
Environment Noise Filtering	Yes				



Network					
	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)				
User/Host	Up to 32 users				
	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, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256				
Client	iVMS-4200,Hik-Connect,Hik-Central				
	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.				
	Plug-in required live view: IE 10, IE 11,				
Web Browser	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	W				
Image Parameters Switch	Yes				
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, AGC, white balance, adjustable				
Day /Nijaka Caritada	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 Drive av Mack	≥ 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	1 Va a Composite Output /75 O/CVBS) (Only for debugging)				
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)				
Ethernet Interface On-Board Storage	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port				
Built-in Microphone	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB Yes,1 built-in microphone				
built-iii iviicropiione	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
Audio	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: 100Ω , 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				
1 Ower Output	12 400, Hua 100 Hz				

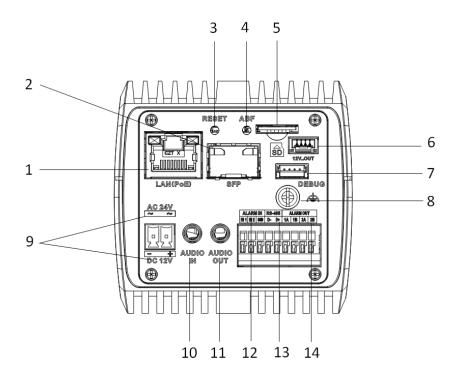


Event				
	Motion detection (support alarm triggering by specified target types (human and			
Basic Event	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,			
	illegal login, abnormal restart, HDD full, HDD error)			
Smart Event	scene change detection, audio exception detection, defocus detection			
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm 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			
	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,			
Face Comparison	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			
General	2377			
	12 VDC ± 20%, 0.8 A, max. 9.6 W,three-core terminal block,reverse polarity protection,			
Power	24 VAC ± 20%, 0.64 A, max. 9.2 W,			
· ower	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.25 A to 0.19 A, max. 10.4 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. 765 g (1.69 lb.)			
With Package Weight	Approx. 765 g (1.65 lb.) Approx. 1150 g (2.54 lb.)			
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)			
	-50 C to 65 C (-22 F to 149 F). Hullilatty 95% of less (Hoff-condensing)			
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °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, one-key reset, mirror, password protection, pixel counter, anti-banding			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces			



Approval			
EMC	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,		
	RCM: AS/NZS CISPR 32: 2015,		
	IC: ICES-003: Issue 7,		
	KC: KN32: 2015, KN35: 2015		
Safety	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		
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

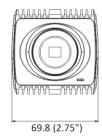
^{*}Note: The interface varies depending on the model. Please refer to the actual product.

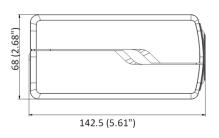


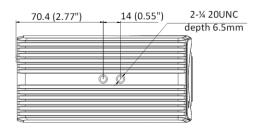
Available Model

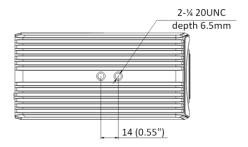
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Dimension









Unit: mm (inch)



Accessory

Optional

DS-1292ZJ Wall mount	DS-1293ZJ Wall mount	DS-1299ZJ Pendant Mount	DS-1269ZJ Pendant Mount	DS-1214ZJ Horizontal pole mount
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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
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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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