

iDS-2CD5A46G2-INZHSY 4MP Darkfighter Moto Varifocal Bullet 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 140 dB Auto-WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 4 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)
- High frame rate up to 4MP@60fps
- TPM 2.0 for cyber security
- Special 940nm IR supplemental light



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.

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.

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.

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.



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),B/W: 0 Lux with IR		
Shutter Time	1 s to 1/100,000 s		
Day & Night	IR cut filter,		
Day & Night	Blue glass module (less ghost phenomenon)		
Lens			
Focal Length & FOV	2.8 to 12 mm, horizontal FOV114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°		
Iris Type	P-iris		
Aperture	2.8 to 12 mm: F1.47 to F2.53, 8 to 32 mm: F1.70 to F1.73		
DORI			
DORI	2.8 to 12 mm: Wide: D: 64.7 m, O: 25.7 m, R: 12.9 m, I: 6.5 m Tele: D: 151.7 m, O: 60.2 m, R: 30.3 m, I: 15.1 m 8 to 32 mm: Wide: D: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15.0 m Tele: D: 400.0 m, O: 158.7 m, R: 80.0 m, I: 40.0 m		
Illuminator			
Supplement Light Type	IR		
Supplement Light Range	2.8 to 12 mm: up to 30 m, 8 to 32 mm: up to 50 m		
Smart Supplement Light	Yes		
IR Wavelength	940 nm		
Video			
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: up to 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720) *High frame rate is supported under monitoring mode only. smart mode: 50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)		
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)		
Third Stream	50 Hz: 10 fps (1280×720, 704×576, 640×480) 60 Hz: 10 fps (1280×720, 704×480, 640×480)		
Fourth Stream	50 Hz: 1 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 1 fps (1280 × 720, 704 × 480, 640 × 480)		



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	Main stream: H.265+/H.265/H.264+/H.264,		
Video Compression	Sub-stream: H.265/H.264/MJPEG,		
	Third stream: H.265/H.264,		
\#.1	Fourth 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		
Target Cropping	Yes		
Region of Interest (ROI)	4 fixed regions for each stream		
Audio			
Audio Type	Mono sound		
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
Audia Dit 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/48 kHz		
Environment Noise Filtering	Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,		
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS,		
	ARP, WebSocket, WebSockets		
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 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,TPM2.0(FIPS 140-2 level 3)		
	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: IE 10, IE 11,		
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+		
Image			
Image Parameters Switch	Yes		
<u> </u>	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client		
Image Settings	software or web browser		
Day/Night Switch	Day,Night,Auto,Schedule		
Wide Dynamic Range (WDR)	140 dB		
Image Enhancement	BLC,HLC,3D DNR,Defog		
Privacy Mask	8 programmable polygon privacy masks		
Image Stabilization	EIS		
mage Stabilization	LIJ		



Interface			
Video Output	1 Vp-p Composite Output (75 Ω /CVBS) (Only for debugging)		
Ethernet Interface	1 RJ45 10 M/100 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	2 built-in microphones		
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)		
	1 input (line in), input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type:		
Audio	non-equilibrium, 1 output (line out), output amplitude: 3.3 Vpp, output impedance:		
	100Ω , interface type: non-equilibrium, mono sound		
Built-in Speaker	1 built-in speaker		
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, video quality diagnosis, exception (network		
Basic Event	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD		
	error),vibration detection		
Smart Event	scene change detection, audio exception detection, defocus detection		
	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm		
Linkage	output,trigger recording,trigger capture,audible warning		
Deep Learning Function			
, ,	Detects up to 30 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		
	Supports simultaneous detection and capture of human body, face, and vehicle,		
	Gets face features,		
Multi target tune Detection	Gets human body features,		
Multi-target-type Detection	Gets vehicle features,		
	Supports counting the number of line crossing targets by type, including human body		
	non-motor vehicle, motor vehicle		
	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 rawdata 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.		
Darimatar Bratastias	Line crossing, intrusion, region entrance, region exiting,		
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)		



Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection		
	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		
Regional People Counting	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)		
	Supports up to 8 detection regions, and independent arming schedule and linkage		
On/Off Duty Detection	method,		
On/On Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection,		
	Supports parameter settings: person on duty, absence duration		
General			
	12 VDC ± 20%, 1.14A, max. 13.6 W,		
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W,		
	24 VAC ± 20%, 0.94 A, max. 13.6 W		
Material	Aluminum alloy body		
Dimension	323.4 mm × 114.5 mm × 114.5 mm (12.73" × 4.51" × 4.51")		
Package Dimension	386 mm × 156 mm × 155 mm (15.2" × 6.14" × 6.10")		
Weight	Approx. 1450 g (3.2 lb.)		
With Package Weight	Approx. 2167 g (4.78 lb.)		
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)		
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)		
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian		
	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,anti-banding,one-key reset,mirror,password protection,flash log		
Heater	Yes		
Integrated Connector Panel	No		
Approval			
11	CE-EMC: EN 55032: 2015+A1:2020, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019,		
EMC	RCM: AS/NZS CISPR 32: 2015,		
2			
EMC	RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7		



	CB: IEC 62368-1:2014+A11,	
Safety	CE-LVD: EN 62368-1:2014/A11:2017,	
	LOA: IEC/EN 60950-1	
	CE-RoHS: 2011/65/EU,	
Environment	WEEE: 2012/19/EU,	
	Reach: Regulation (EC) No 1907/2006	
Protection	IP67:IEC 60529-2013,IK10:IEC 62262:2002	
Anti-Corrosion Protection	-Y model: NEMA 4X (NEMA 250-2018)	

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 MODERATE PROTECTION.

Level	Description	
	Hikvision products at this level are equipped for use in	
Ton level protection	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level are equipped for use in	
	areas with moderate anti-corrosion demands. Typical	
Moderate protection	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	
No specific protection	areas where no specific anti-corrosion protection is needed.	

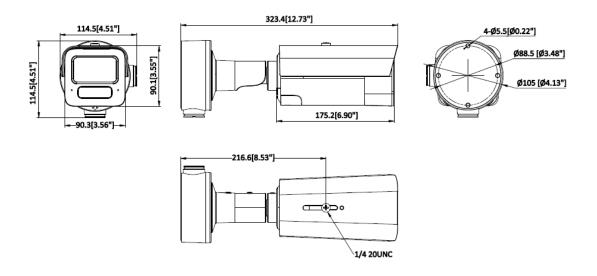
Available Model

iDS-2CD5A46G2-INZHSY(2.8-12mm) iDS-2CD5A46G2-INZHSY(8-32mm) iDS-2CD5A46G2-INZHSY(2.8-12mm)O-STD

Dimension



Unit:mm(inch)



Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
ф88.5(4ר5.5)	ф3.48"(4ר0.22")

Accessory

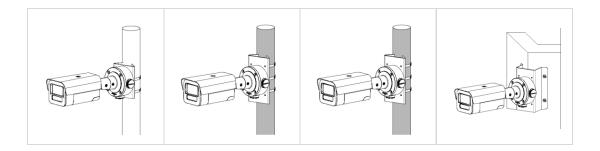
Optional

DS-1275ZJ-S-SUS	DS-1276ZJ-SUS	DS-1275ZJ-SUS	DS-1275ZJ-Y

Installation Methods

Vertical Pole	Vertical Pole	Vertical Pole	Corner Mounting
Mounting	Mounting	Mounting	J
DS-1275ZJ-S-SUS	DS-1275ZJ-SUS	DS-1275ZJ-Y	DS-1276ZJ-SUS





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