

DS-2CD5A46G1-IZ(H)S 4 MP IR Varifocal Bullet Network Camera

Dark Fighter



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm/8 to 32 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- 2.8 to 12 mm lens: IR range up to 50 m, 8 to 32 mm lens: IR range up to 100 m
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485

- IP67, IK10
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 2 exception detections, and face detection

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- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



Function

Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.



Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Angle Adjustment	Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Aporturo	2.8 to 12 mm: F1.2 to 2.5
Aperture	8 to 32 mm: F1.8, Constant F1.8 throughout the zoom range
Focus	Auto, semi auto, manual
Auto-iris	DC drive, P-iris
	2.8 to 12 mm, horizontal FOV 109.2° to 38.9°, vertical FOV 56.2° to 21.9°, diagonal FOV
FOV	134.5° to 45°
	8 to 32 mm, horizontal FOV 37.7° to 15.2°, vertical FOV 21° to 8.6°, diagonal FOV 43.3°
	to 17.24°
Lens Mount	Integrated
Illuminator	
IR Range	2.8 to 12 mm: up to 50 m; 8 to 32 mm: up to 100 m
Wavelength	850 nm
Video	
Max. Resolution	2560 × 1440
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720)
	60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480)
	60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50Hz: 25fps (704 × 576, 640 × 480)
	60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264
	Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG
	11.205/11.204/WJFE0



Н.264 Туре	Baseline Profile/Main Profile/High Profile			
H.264+	Main stream support			
Н.265 Туре	Main Profile			
H.265+	Main stream support			
Video Bit Rate	32 Kbps to 16 Mbps			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Smart Feature-Set				
	Line crossing detection, up to 4 lines configurable			
	Intrusion detection, up to 4 regions configurable			
	Region entrance detection, up to 4 regions configurable			
	Region exiting detection, up to 4 regions configurable			
Smart Event	Unattended baggage detection, up to 4 regions configurable			
	Object removal detection, up to 4 regions configurable			
	Face detection: detects faces and upload images			
	Scene change detection, defocus detection			
	Motion detection, video tampering alarm, exception (network disconnected, IP			
Basic Event	address conflict, illegal login, HDD full, HDD error)			
Statistics	Counting			
	Trigger recording: memory card, network storage, pre-record and post-record			
Linkage Method	Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email			
	Trigger notification: HTTP, ISAPI, alarm output, Email			
De siene of last one of	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and			
Region of Interest	dynamic face tracking for each stream			
Image				
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction			
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are			
inage Setting	adjustable by client software or web browser			
Target Cropping	Yes			
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format			
SNR	≥52dB			
Audio				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3			
-	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/			
Audio Bit Rate	8-320Kbps(MP3)			
Environment Noise Filtering	Yes			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz			
Network				
	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR			
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health			
	detection are supported.			

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Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Smooth Streaming	Yes
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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome57.0+, Firefox52.0+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port, RS-485 (half duplex, HIKVISION Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, mono
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω /CVBS), only for adjustment
Power Output	12 VDC, max. 200mA
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.6.0
Web Client Language	32 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)
Embedded Open Platform	Yes. The camera supports installation and running up to 4 extra applications.
General Function	Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °F), -H: -40 °C to 65 °C (-40 °F to 149 °F) Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, two-core terminal block; reverse polarity protection, PoE (802.3at, class 4)

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Power Consumption and Current	-IZS: With extra load: 12 VDC, 1.28 A, max. 15.4 W; PoE (802.3at, 42.5 V to 57 V), 0.36
	A to 0.27 A, max. 15.4 W; Without extra load: 12 VDC, 1.08 A, max. 13 W; PoE
	(802.3at, 42.5 V to 57 V), 0.31 A to 0.23 A, max. 13 W
	-IZHS: With extra load: 12 VDC, 1.33 A, max. 15.9 W; PoE (802.3at, 42.5 V to 57 V), 0.50
	A to 0.37 A, max. 21.2 W; Without extra load: 12 VDC, 1.13 A, max. 13.5 W; PoE
	(802.3at, 42.5 V to 57 V), 0.42 A to 0.32 A, max. 18 W
	"With extra load" means that an extra device is connected to and powered by the
	camera.
Heater	-H: yes
Material	Metal
Dimensions	Camera: Φ144 × 347 mm (Φ5.7" × 13.7")
Dimensions	With package: $405 \times 190 \times 180 \text{ mm} (15.9'' \times 7.5'' \times 7.1'')$
Weight	Camera: approx. 1.85 kg (4.07 lb.)
weight	With package: approx. 2.95 kg (6.50 lb.)
Approval	
	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013,
EMC	EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32:
	2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am
Salety	1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

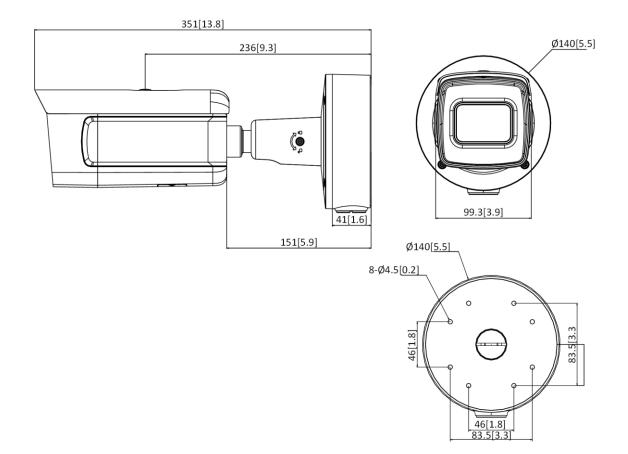
* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD5A46G1-IZS (2.8 to 12 mm), DS-2CD5A46G1-IZHS (2.8 to 12 mm), DS-2CD5A46G1-IZS (8 to 32 mm), DS-2CD5A46G1-IZHS (8 to 32 mm)



Dimension



Accessory



DS-1475ZJ-SUS Vertical Pole Mount



DS-1476ZJ-SUS Corner Mount



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