

DS-2CD7146G0-IZS 4 MP IR Varifocal Dome Network Camera







- 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
- IR range: up to 30 m
- Alarm 1 input/1 output, audio 1 input/1 output, RS-485

• IK10

- 5 streams and up to 5 custom streams
- 6 behavior analyses, 3 exception detection, and face detection
- 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, object removal, face capture and queue management 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.

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, tracking, capturing, grading and selecting. The procedure reduces the happening of mistaken capture, and thus gets the best face shot, improving the accuracy rate of face comparison by the back-end devices. The camera uses face exposure function to dynamically adjusts face area exposure of captures and ensure 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 reduce the mistaken alarm caused by the interference of leafs, lights and etc.

Power Protection

The camera supports a wide voltage range of 10 VDC to 48 VDC. If the voltage instability occurs, the camera still works properly. The camera supports reverse polarity protection which can avoid the camera malfunction caused by false operation.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. The body feature detection algorithm helps filter out wrong targets and increase the accuracy of detection.



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	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	
Lens		
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional	
A m a mb	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	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°	
101	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	Up to 30 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	



H.264+ Main stream support H.265 Type 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 Audio Audio Compression G.711/G.722.1/G.726/MP2L2/PCM/MP3 Audio Bit Rate 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3) Environment Noise Filtering Yes Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Smart Feature-Set In 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 Unattended baggage detection, up to 4 regions configurable Prace detection: detects and upload images Scene change detection, uideo exception detection, defocus detection Basic Event Motion detection, video tampering alarm, exception (network disconnected, IP address confificing llegal login, HDD full, HDD error) Face detection performance: detects up to 30 faces at the same time Detectable face position: supports swing left and right from -90° to 90°, tilt up and down from -30° to 60° Perimeter Protection Unice Consistency in triggering by specified target types (human and vehicle) Filtering out false alarm caused by target types such as leaf, light, naimal, and flag, etc. Detects queuing-up people number, and waiting time of each person Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw date export for further analysis Statistics Counting Trigger recording: memory card, network storage, pre-record and post-record	H.264 Type	Baseline Profile/Main Profile/High Profile
H.265+ Main stream support Video Bit Rate 32 kbps to 16 Mbps Scalable Video Coding (SVC) H.264 and H.265 encoding Audio Audio Compression G.711/G.722.1/G.726/MP2L2/PCM/MP3 Audio Bit Rate 8-320kbps(MP3) Environment Noise Filtering Yes Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz 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 Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Face detection: detection, up to 4 regions configurable Face detection	H.264+	Main stream support
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Face detection: detects faces and upload images Scene change detection, audio exception detection, defocus detection Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) Face detection performance: detects up to 30 faces at the same time Detectable face position: supports swing left and right from -90° to 90°, tilt up and down from -30° to 60° Line crossing, intrusion, region entrance, and region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc. Detects queuing-up people number, and waiting time of each person 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 Statistics Counting	Siliart Event	Unattended baggage detection, up to 4 regions configurable
Scene change detection, audio exception detection, defocus detection Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) Face detection performance: detects up to 30 faces at the same time Detectable face position: supports swing left and right from -90° to 90°, till up and down from -30° to 60° Line crossing, intrusion, region entrance, and region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc. Detects queuing-up people number, and waiting time of each person 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 Statistics Counting		Object removal detection, up to 4 regions configurable
Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) Face detection performance: detects up to 30 faces at the same time Detectable face position: supports swing left and right from -90° to 90°, tilt up and down from -30° to 60° Line crossing, intrusion, region entrance, and region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc. Detects queuing-up people number, and waiting time of each person 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 Statistics Counting		Face detection: detects faces and upload images
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Perimeter Protection Support alarm triggering by specified target types (human and vehicle) Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc. Detects queuing-up people number, and waiting time of each person 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 Statistics Counting		down from -30° to 60°
Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc. Detects queuing-up people number, and waiting time of each person 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 Statistics Counting		Line crossing, intrusion, region entrance, and region exiting
Detects queuing-up people number, and waiting time of each person 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 Statistics Counting	Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
Queue Management 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 Statistics Counting		Filtering out false alarm caused by target types such as leaf, light, animal, and flag, etc.
Changing status of one queue Supports raw data export for further analysis Statistics Counting		Detects queuing-up people number, and waiting time of each person
Changing status of one queue Supports raw data export for further analysis Statistics Counting	Queue Management	Generates reports to compare the efficiency of different queuing-ups and display the
Statistics Counting	Queue Management	changing status of one queue
		Supports raw data export for further analysis
Trigger recording: memory card, network storage, pre-record and post-record	Statistics	Counting
		Trigger recording: memory card, network storage, pre-record and post-record
Linkage Method Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email	Linkage Method	Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email
Trigger notification: HTTP, ISAPI, alarm output (-S), Email		Trigger notification: HTTP, ISAPI, alarm output (-S), Email
Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and	Pagion of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and
Region of Interest dynamic face tracking for each stream	vegion of inferest	dynamic face tracking for each stream
Image	Image	
Image Enhancement BLC, HLC, 3D DNR, Defog, EIS, distortion correction	Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction
Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are Image Setting	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are
adjustable by client software or web browser	mage Jetting	adjustable by client software or web browser



Target Crenning	Yes
Target Cropping	
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
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
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	
Audio	1 input (line in, 3.5 mm), 1 output (line out, 3.5 mm), mono sound
	1 RJ45 10M/100M/1000M Ethernet port
Communication Interface	1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Alarm	1 input, 1 output (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω/CVBS), only for adjustment
Power Output	12 VDC, max. 200 mA
Interface Style	Connector panel
On-board Storage	Built-in microSD/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)
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	



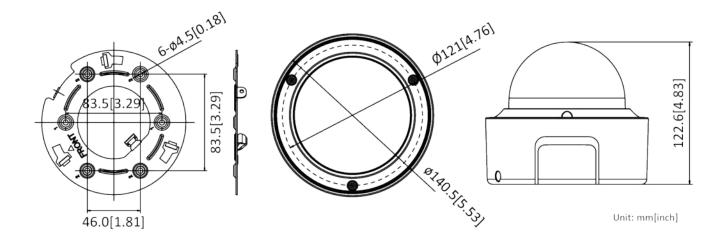
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC is recommended, 10 to 48 VDC; reverse polarity protection; two-core terminal
rower suppry	block; PoE (802.3af, class 3)
	With extra load: 12 VDC, 0.8 A, max. 10.5 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.3 A,
	class 3
Dawer Consumption and Current	Without extra load: 12 VDC, 0.6 A, max. 8.0 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.3
Power Consumption and Current	A, class 3
	"with extra load" means that an extra device is connected to and powered by the
	camera.
Material	Metal
Sustainability	PVC FREE
Dimensions	Саmera: Ф140.5 × 122.6 mm (Ф5.5" × 4.8")
Dimensions	With package: $244 \times 174 \times 173 \text{ mm} (9.6" \times 6.9" \times 6.8")$
Weight	Camera: approx. 950 g (2.09 lb.)
weight	With Package: approx. 1300 g (2.87 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:
LIVIC	2015, KN 35: 2015
	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am
Safety	1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chamista	·
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002)

^{*} 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-2CD7146G0-IZS (2.8 to 12 mm), DS-2CD7146G0-IZS (8 to 32 mm)

Dimension





Accessory



DS-1273ZJ-130 Wall Mount



DS-1273ZJ-130B Wall Mount



DS-1271ZJ-130 Pendant Mount



DS-1279ZJ Pole



DS-1227ZJ In-ceiling Mount



DS-1276ZJ-SUS Corner Mount



DS-1281ZJ-DM23
Inclined Ceiling Mount



DS-1275ZJ-SUS Vertical Pole Mount

