

DS-2CD7046G0-(AP) 4 MP Box Network Camera















DeepinView

- 1/1.8" Progressive Scan CMOS
- Color: 0.002 Lux @ (F1.2, AGC ON)
- 2560 × 1440 @ 30fps
- MJPEG up to 1920 × 1080 @ 30fps
- Auto-iris, DC drive and P-iris optional
- Auto back focus (ABF) optional
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485

- 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); B/W: 0.0002 Lux @ (F1.2, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Lens	
Auto-Iris	DC driveP: P-iris supported
Lens Mount	CS mount
Video	
Max. Resolution	2560 × 1440
Video Stream	5 defined streams and up to 5 custom stream
	50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480)
Sub Stream	60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
mira sacam	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 Communica	Main stream: H.265+/H.265/H.264+/H.264
Video Compression	Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile/High Profile
Н.264+	Main stream support
H.265 Type	Main Profile
H.265+	
Video Bit Rate	Main stream support 32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Scalable video couling (SVC)	11.204 and 11.203 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
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Smart Feature-Set	
	Line crossing detection, up to 4 lines configurable
Smart Event	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
	Object removal detection, up to 4 regions configurable
	Face detection: detects faces and upload images
	Scene change detection, audio exception detection, defocus detection
Basic Event	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
Face Capture	Detectable face position: supports swing left and right from -90° to 90°, tilt up and
	down from -30° to 60°
Perimeter Protection	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
Queue Management	Generates reports to compare the efficiency of different queuing-ups and display the
Queue Management	changing status of one queue
	Supports raw data export for further analysis
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 (-S), Email
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
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are
	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 24 bit bmp format
SNR	≥52dB
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.
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), 1 output (line out), 2-core terminal block, mono sound
Communication Interface	1 RJ45 10M/100M/1000M Ethernet port
	1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A max.)
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	V5.6.0
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 Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)
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; 24 VAC (-25%, + 24.9%); PoE (802.3af, class 3)
Power Consumption and Current	With extra load: 12 VDC, 1 A, max. 12 W; 24 VAC, 0.9 A, max. 12 W; PoE (802.3af, 36 V to 57 V), 0.1 A to 0.3 A, class 3, 12 W Without extra load: 12 VDC, 0.8 A, max. 9.6 W; 24 VAC, 0.7 A, max. 9.6 W; PoE (802.3af, 36 V to 57 V), 0.1 A to 0.3 A, class 3, 9.6 W
Material	Metal
Sustainability	PVC FREE
Dimensions	Camera: $142.6 \times 69.8 \times 68$ mm $(5.61" \times 2.75" \times 2.68")$ Package: $315 \times 140 \times 140$ mm $(12.4" \times 5.51" \times 5.51")$
Weight	-AP: approx. 730 g (1.61 lb.), 1020 g (2.25 lb.) with package Non-AP: approx. 690 g (1.52 lb.), 975 g (2.15 lb.) with package



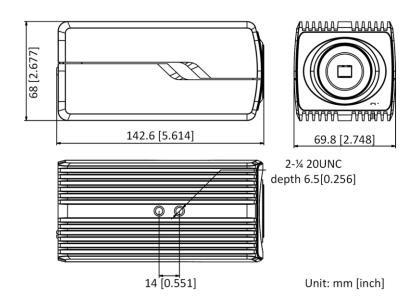
Approval	
	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013,
EMC	EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32:
	2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am
	1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006

^{*} 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-2CD7046G0, DS-2CD7046G0-AP

Dimension



Accessory



^{* -}AP: Auto back focus and P-iris are supported.













DS-1331HZ Series
Outdoor Housing

DS-1293ZJ Wall Mount

DS-1214ZJ Horizontal Pole Mount

DS-1269ZJ Pendant Mount

DS-1233ZJ Column Mount



DS-1331HZ-B
Outdoor Housing +
DS-2202ZJ Integrated
Mount



HV3816D-8MPIR
3.8 to 16 mm DC Iris



HV0415D-4MP 4 to 15 mm DC Iris



HV1140P-8MPIR 11 to 40 mm P-Iris



HV1140D-8MPIR 11 to 40 mm DC Iris



HV3816P-8MPIR 3.8 to 16 mm P-iris



HV0733D-6MP 7 to 33 mm DC Iris



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