

DS-2CD5046G0-(AP) 4 MP Smart Box Network Camera







- 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 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, 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, selfadaptive)

- 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, 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.

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.



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)
	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 Commonion	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
Н.264 Туре	Baseline Profile/Main Profile/High Profile
Н.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
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	
	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)
Statistics	Counting
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record
	Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email
	Trigger notification: HTTP, ISAPI, alarm output, Email
Pagion of Interact	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
	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are
Image 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 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
Network Storage	detection are supported.
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE,
Protocols	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
Shooth Streaming	Password protection, complicated password, HTTPS encryption, 802.1X authentication
Security	(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
	Plug-in required live view: IE8+
Web Browser	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
	32 languages
Web Client Language	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 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; 24 VAC (-25%, + 24.9%); two-core terminal
rower suppry	block; PoE (802.3af, class 3); Reverse polarity protection
	With extra load: 12 VDC, 0.8 A, max. 10 W; 24 VAC, 0.7 A, max. 10 W; PoE (802.3af, 36
Power Consumption and Current	V to 57 V), 0.1 A to 0.3 A, max. 10 W, class 3
	Without extra load: 12 VDC, 0.65 A, max. 7.6 W; 24 VAC, 0.55 A, max. 7.6 W; PoE
	(802.3af, 36 V to 57 V), 0.1 A to 0.3 A, max. 7.6 W, class 3
Material	Metal
Sustainability	PVC FREE
Dimensions	Camera: 142.6 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")
Dimensions	Package: 315 × 140 × 140 mm (12.4" × 5.51" × 5.51")
Weight	-AP: approx. 730 g (1.61 lb.), 1020 g (2.25 lb.) with package
Weight	Non-AP: approx. 690 g (1.52 lb.), 975 g (2.15 lb.) with package
Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013,
	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



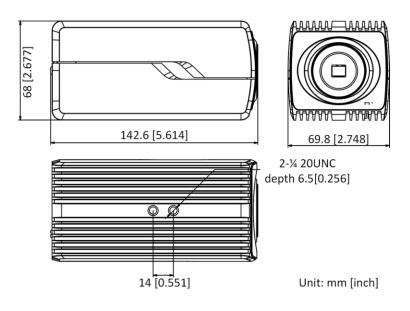
same time.

Available Model

DS-2CD5046G0, DS-2CD5046G0-AP

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

Dimension



Accessory





DS-1332HZ Indoor Housing

DS-1292ZJ Wall Mount

DS-1299ZJ Pendant 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

HV1140D-8MPIR

11 to 40 mm DC Iris



HV0415D-4MP 4 to 15 mm DC Iris



HV3816P-8MPIR 3.8 to 16 mm P-iris



HV1140P-8MPIR 11 to 40 mm P-Iris



HV0733D-6MP 7 to 33 mm DC Iris



Distributed by

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