

## DS-2CD50C5G0-(AP) 12 MP Box Network Camera





- 1/1.7" Progressive Scan CMOS
- Color: 0.008 Lux @ (F1.2, AGC ON)
- 4000 × 3000 @ 20fps
- 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+
- Digital WDR
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, 1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D

- 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	1/1.7" Progressive Scan CMOS
Min. Illumination	Color: 0.008 Lux @ (F1.2, AGC ON); B/W: 0.0008 Lux @ (F1.2, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	Digital WDR
Lens	
Auto-Iris	DC driveP: P-iris supported
Lens Mount	CS mount
Video	
Max. Resolution	4000 × 3000
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 20fps (4000 × 3000), 25fps (4096 × 2160, 3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20fps(4000 × 3000), 30fps (4096 × 2160, 3840 × 2160, 3072 × 1728, 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
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
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
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
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	
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
Cilent	TVTVIJ-4200, TTK-COTTICCU, TTK-CETULA

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	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
Addio	1 RJ45 10M/100M/1000M Ethernet port
Communication Interface	1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A max.)
Video Out	$1Vp-p$ composite output (75 $\Omega$ /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)
	12 VDC is recommended, 10 to 48 VDC; 24 VAC (-25%, + 24.9%); two-core terminal
Power Supply	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
	V to 57 V), 0.1 A to 0.3 A, max. 10 W, class 3
Power Consumption and Current	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
Dimensions	Camera: 142.6 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")
	Package: 315 × 140 × 140 mm (12.4" × 5.51" × 5.51")
	-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	
	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
	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006

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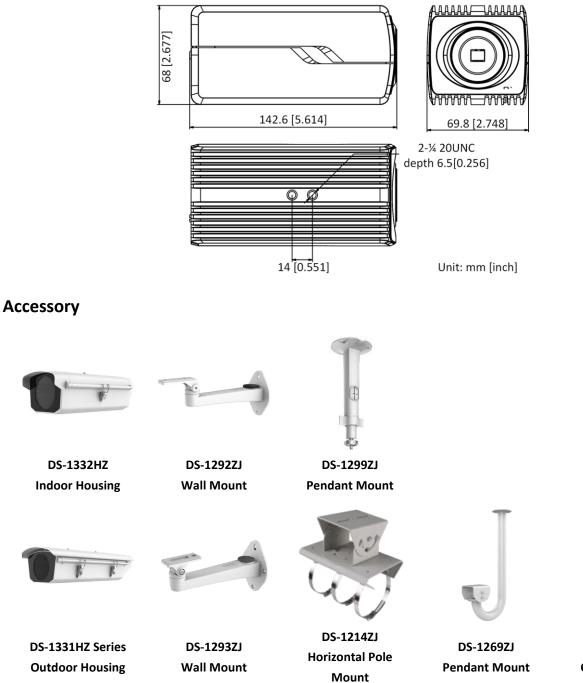
\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## **Available Model**

DS-2CD50C5G0, DS-2CD50C5G0-AP

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

### Dimension



DS-1233ZJ Column Mount





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



HV1140D-8MPIR 11 to 40 mm DC Iris



HV1140P-8MPIR 11 to 40 mm P-Iris



HV1050D-12MPIR 10 to 50 mm DC Iris



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#### Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com

Hikvision India T +91-22-28469900 sales@pramahikvision.com

Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T +601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33[0]1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-(0)31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

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