

# 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 x 720)	
	60Hz: 20fps(4000 × 3000), 30fps (4096 × 2160, 3840 × 2160, 3072 × 1728, 2560 × 1440,	
	1920 × 1080, 1280 x 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)	
	Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream:	
Video Compression	H.265/H.264/MJPEG	
H.264 Type	Baseline Profile/Main Profile/High Profile	
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)/	
AUUIU DIL NALE	8-320Kbps(MP3)	



Environment Noise Filtering	Yes	
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz	
Smart Feature-Set		
Smart Event	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 Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images	
Basic Event	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)	
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	
Region of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and 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	
11/11+	Up to 32 users. 3 user levels: administrator, operator and user	
User/Host	op to 32 daers. 3 daer revers. darrinnstrator, operator and daer	



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
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Web Client Language	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; 24 VAC (-25%, + 24.9%); two-core terminal
	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")
	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
Approval	Non-AP: approx. 690 g (1.52 lb.), 975 g (2.15 lb.) with package
	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

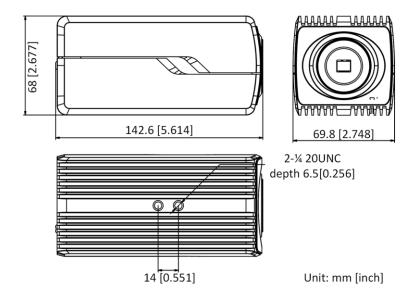
\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

#### **Available Model**

DS-2CD50C5G0, DS-2CD50C5G0-AP

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

#### **Dimension**



#### **Accessory**







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



Distributed by

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