

iDS-2CD7046G0-AP

4 MP Box Network Camera





- 4 MP Resolution
- DarkFighter Technology for Excellent Low-Light Performance
- 140 dB WDR
- H.265+ Compression
- Smooth Live View and Data Self-Correcting
- 5 Streams + Up to 5 Custom Streams
- Built-In Microphone

Attribute-Based People Counting

Embedded deep learning algorithms integrate multiple intelligences. They count people, sample face features, and identify people who pass repeatedly over a period of time. They count persons and send a face alarm for entrance control and people counting.

Hard Hat Detection

Embedded deep learning algorithms detect persons in a specified region. They detect if the person is wearing a hard hat and captures the person's head and sends an alarm if not.

Multi-Target Detection

Embedded deep learning algorithms detect and capture the face and human body in specified regions and outputs features such as gender, age, and top color. It supports a structurized modeling of the face and human body to achieve structurized data collection.

Queue Management

Embedded deep learning based algorithms detect queued people number and waiting times. The body feature detection algorithm filters out wrong targets and increases detection accuracy.

Metadata

Metadata uses individual application data instances or the data content. Metadata can be used for third-party application development.

Smooth Streaming

Smooth streaming improves 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 redundant data for self-error correcting in back-end device to solve mosaic problems because of packet loss and error rate.

Available Models

iDS-2CD7046G0-AP











FC









Specifications

	iDS-2CD7046G0-AP
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Minimum Illumination*	Color: 0.001 lux @ $(f/1.2, AGC on)$; B/W: 0.0003 lux @ $(f/1.2, AGC on)$ *These are reference values based on a lens with an $f/1.2$ aperture; actual values will depend on the lens used
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
	P/N3
Wide Dynamic Range	140 dB
Flash Memory	IR cut filter
RAM	
Lens	
Lens Mount	DC drive, CS mount
Lens	Not included Supported (based on lane year)
ABF P-Iris	Supported (based on lens used) Supported (based on lens used)
Video	Supported (based on tens used)
Maximum Resolution	2680 × 1520
Main Stream	50 Hz: 25 fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
- Idin Stream	60 Hz: 60 fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
- Tourin on our	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Custom Stream	60 Hz: 30 fps (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
Video Bit Rate H.264 Type	32 Kbps to 16 Mbps Baseline Profile/Main Profile/High Profile
H.265 Type	
H.264+	Main stream supports
H.265+	Main stream supports
Bit Rate Control	CBR/VBR
Stream Type	Main stream/sub-stream/third stream/fourth stream/fifth stream/custom stream H.265 and H.264 support
Scalable Video Coding (SVC) Region of Interest (ROI)	4 fixed regions for each stream
Audio	Trixed regions for each stream
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3 6// Khoo (G.711)/16 Khoo (G.722.1)/16 Khoo (G.726)/72, 102 Khoo (MD2L2)/72 Khoo (DCM)/9, 720 Khoo
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32-192 Kbps (MP2L2)/32 Kbps(PCM)/8-320 Kbps (MP3)
Audio Type	Mono sound
Network	
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP,
Protocols	SNMP, IGMP, 802.1x, QoS, IPv6, UDP, Bonjour, SSL/TLS
Smooth Streaming	Yes
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
	Password protection, complicated password, HTTPS encryption, 802.1x authentication (EAP-TLS, EAP-
Security	LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout
·	Settings, Security Audit Log, TLS 1.2
Notwork Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, NAS (NFS, SMB/CIFS), auto network replenishment
Network Storage	(ANR), together with high-end Hikvision memory card, memory card encryption and health detection
Client	
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+
WOD DIOWSOI	Local service: Chrome 41.0+, Firefox 30.0+



Specifications (continued)

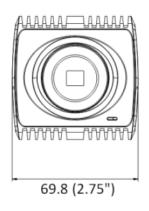
	iDS-2CD7046G0-AP
Image	
Smart IR	IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Target Cropping	Yes
Picture Overlay	Logo picture can be overlaid on video with 128 × 128 24-bit bmp format
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or Web browser
SNR	252 dB
Interface	
Alarm	2 inputs, 2 outputs (maximum 24 VDC, 1A)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, 2 channels, 1 built-in microphone
RS-485	1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (for debugging only)
On-Board Storage	Built-in microSD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ-45 100M/1000M self-adaptive Ethernet port
Power Output	12 VDC, maximum 200 mA (supported by all power supply types)
Smart Feature-Set	Mation detection video temporing along quanting (natural, disconnected ID address and int illustration
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable
	Region entrance detection, up to 4 tregions configurable region exiting detection, up to 4 regions
Smart Event	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, scene change detection, audio exception detection, defocus detection
Counting	Yes
Intelligent (Deep Learning Algorithm)	
Multi-Target Detection	Simultaneous detection of human body and face, gets 8 face features and 13 human body features
Attribute-based People Counting	Supports entering/exiting counting (track 30 targets simultaneously); identifies people who pass
	repeatedly over a period of time
Hard Hat Detection	Detects up to 30 human targets simultaneously; supports up to 4 shield regions
Queue Management	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, raw data export
Queue Management	for further analysis
	Line crossing, intrusion, region entrance, region exiting, alarm trigger by specified target types (human
Premier Protection	and vehicle), filter out mistaken alarm caused by target types such as leaf, light, animal, flag, etc.
General	
	Upload to FTP/NAS/memory card, notify surveillance center, send e-mail, trigger alarm output, trigger
Linkage Method	recording, trigger capture Trigger recording: memory card, network storage, pre-record and post-
Ellikago Hotiloa	record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP,
0	ISAPI, alarm output, Email
Online Upgrade	Yes
Dual Backup	Yes 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
	French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian,
Web Client Language	Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian,
	Lithuanian, Portuguese (Brazil), Ukrainian
General Functions	Anti-flicker, 5 streams, up to 5 custom streams, EPTZ, heartbeat, mirror, privacy masks, flash log,
	password reset via e-mail, pixel counter
Software Reset	Yes
Sustainability	Yes
Storage Conditions	-30° to 60° C (-22° to 140° F), humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30° to 60° C (-22° to 140° F), humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm 24.9\%$, two-core terminal block, reverse polarity protection; 24 VAC $\pm 24.9\%$; PoE: 802.3af, Type 1 Class 3
Power Consumption and Current	Ulass 3 W/extra load: 12 VDC, 1A,24 VAC, 0.79A, 50/60 Hz, 12 W; PoE (802.3af, 36-57 VDC), 0.34-0.21A, class 3
Power consumption and current Power Interface	Two-core terminal block
Camera Material	Aluminum alloy body
Camera Dimension	142.5 mm × 69.8 mm × 68 mm (5.61" × 2.75" × 2.68")
Package Dimension	315 mm × 140 mm × 140 mm (12.4" × 5.51" × 5.51")
Camera Weight	730 g (1.96 lb)
With Package Weight	1115 g (2.99 lb)
Metadata	
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal, face capture and queue management are supported

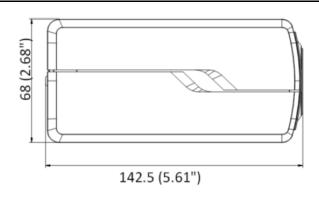


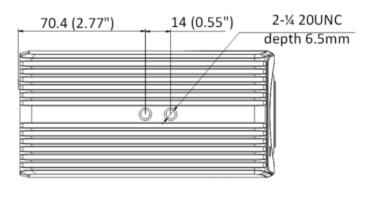
Specifications (continued)

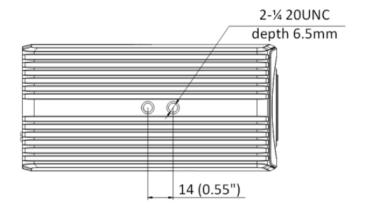
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Approvals	
Class	Class B
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

Dimensions









Unit: mm (inch)

Accessories



