

iDS-2CD7046G0(-AP)(/F11) 4MP Box Network Camera



















- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage"
- Advanced streaming technology that enables smooth live view and data self-correcting in poor network
- 5 streams and up to 5 custom streams to meet a wide variety of applications
- Built-in microphone for real-time audio security





Function

Face Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and samples the face features simultaneously, and compares them with the built-in face library, so to remove the duplicated person. It counts persons and reports a face alarm simultaneously to achieve both the entrance control and people counting.

Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and captures the head of the person and reports an alarm if not.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face and human body in the specified region and outputs the features, such as gender, age and top color. It supports a structurized modeling of the face and human body to achieve a structurized data collection.

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.

Metadata

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

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.



Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON); B/W: 0.0003 Lux @ (F1.2, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	140 dB
Day & Night	IR cut filter.
Lens	
Lens Mount	DC drive.
	CS mount
Fixed Aperture	Constant F1.2 throughout the zoom range
Blue Glass Module	Blue glass module to reduce ghost phenomenon.
ABF	-AP: Yes
P-Iris	-P: Yes
Video	
Max. Resolution	2680 × 1520
Main Stream	50Hz: 25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60Hz: 30fps (2680 × 1520, 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)
Tima Stream	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)
i iidi Su Caiil	60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Castom Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	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
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
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
Scalable Video Coding (SVC)	H.265 and H.264 support
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
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
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-
	320Kbps(MP3)
Audio Type	mono sound
Network	
Simultaneous Live View	Up to 20 channels
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,
	PPPoE, NTP, UPnP, SMTP, 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
Consulta	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP
	OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
	microSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), auto
Material Chauses	network replenishment (ANR)
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health
	detection are supported.
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: Chrome 41.0+, Firefox 30.0+
Image	
Connect ID	The IR LEDs on camera should support Smart IR function to automatically adjust power
Smart IR	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 24bit bmp format
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction
Image Parameters Switch	Yes
luca da Cattina da	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance
Image Settings	adjustable by client software or web browser
SNR	≥52dB
Interface	
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1A)
A	1 input (line in), 1 output (line out), 3.5 mm connector, 2 channels, 1 built-in
Audio	microphone
RS-485	
113 103	1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Video Output	1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) 1 Vp-p Composite Output (75Ω/CVBS) (For debugging only)
Video Output	1 Vp-p Composite Output (75Ω/CVBS) (For debugging only)
Video Output On-board Storage	1 Vp-p Composite Output (75Ω/CVBS) (For debugging only) Built-in micro SD/SDHC/SDXC slot, up to 256 GB



Fiber Option!	/F11: Yes
Fiber Optical	Without /F11: No
Smart Feature-Set	
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
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,
	Scene change detection, audio exception detection
Counting	Yes
Intelligent (Deep Learning Algori	
0 0 0.	Detects up to 30 faces simultaneously
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°
	Up to 3 face libraries with up to 30000 faces each are configurable
Face Recognition	Recognizes face identity via face modeling, grading and comparing to those in face
	library
	Supports face library encryption
	Supports simultaneous detection of human body and face;
Multi-target-type Detection	Gets 8 face features and 13 human body features
	Supports entering/exiting counting (track 30 targets simultaneously)
	Supports facial recognition
	Supports 24-hour dynamic deduplication and face library deduplication (up to 3 face
Face Counting	libraries with up to 30000 faces)
	Supports reporting alarms when detecting the face is the same as that in the face
	library
	Detects up to 30 human targets simultaneously;
Hard Hat Detection	Supports up to 4 shield regions
	Detects queuing-up people number, and waiting time of each person
	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
	Line crossing, intrusion, region entrance, region exiting
	Support alarm triggering by specified target types (human and vehicle)
Premier Protection	Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag,
	etc.
General	
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm
	output, trigger recording, trigger capture
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
Online Upgrade	Yes
Dual Backup	Yes
Saar Buckup	



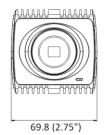
Firmware Version	V5.5.121
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
	Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
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
Software Reset	Yes
Sustainability	Yes
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F 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	/F11: With extra load: 12VDC, 0.84A, 24VAC, 0.69A, 50/60Hz, 10.1W; PoE
	(802.3af,36-57VDC), 0.29-0.19A , class 3
Current	Without /F11: With extra load: 12VDC, 1A,24VAC, 0.79A, 50/60Hz, 12W; PoE
	(802.3af,36-57VDC), 0.34-0.21A, class 3
Power Interface	Two-core terminal block
Camera Material	Aluminum alloy body
Screw Material	Mild steel
Camera Dimension	142.5 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")
Package Dimension	315 × 140 × 140 mm (12.4" × 5.51" × 5.51")
Camera Weight	730g (1.96 lb.)
With Package Weight	1115g (2.99 lb.)
Metadata	
Metadata	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.
Approval	and queue management are supported.
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)
Fiber Optical	
Transfer Rate	/F11: 155 Mbps
Interface Type	/F11: LC interface
Fiber Type	/F11: 1 LC fiber optical interface, SFP module, single mode, 20 km transmission distance, 1310 nm (TX) and 1550 nm (RX), 155 Mbps transmission rate
Transmission Wavelength	/F11: TX:1310 nm, RX:1550 nm
Transmission Distance	/F11: 20 km

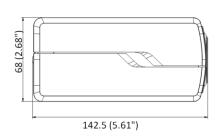


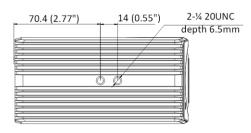
Available Model

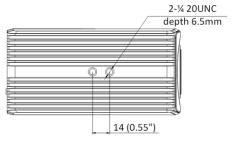
iDS-2CD7046G0-AP/F11, iDS-2CD7046G0-AP, iDS-2CD7046G0

Dimension









Unit: mm (inch)

Accessory





DS-1292ZJ Wall Mount

DS-1299ZJ Pendant Mount





DS-1332HZ Indoor Housing

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





DS-1293ZJ Wall Mount



DS-1214ZJ Horizontal Pole Mount



DS-1269ZJ Pendant Mount



DS-1233ZJ Column Mount



HV3816D-8MPIR 3.8 to 16 mm DC Iris



HV0415D-MP 4 to 15 mm DC Iris



HV1140P-8MPIRA 11 to 40 mm P-Iris



HV1140D-8MPIRA 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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