

iDS-2CD7146G0-IZS 4 MP IR Varifocal Dome 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
- Vandal proof (IK10)





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
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Power-off Memory	Yes
Lens	
Focus	Auto, semi-auto, manual
	2.8 to 12 mm, horizontal FOV 114.5° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV
	141.1° to 48°
Lens Type & FOV	8 to 32 mm, horizontal FOV 42.5° to 15.1°, vertical FOV 23.3° to 8.64°, diagonal FOV
	49.6° to 17.3°
	2.8 to 12 mm: F1.2 to 2.5
Aperture	8 to 32 mm: F1.7 to F1.73
Lens Mount	Integrated
Blue Glass Module	Blue glass module to reduce ghost phenomenon.
P-Iris	Yes
Illuminator	
manniaco.	2.8 to 12 mm: 30 m
IR Range	8 to 32 mm: 50 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	2680 × 1520
Waxi Nessiation	50Hz: 25fps (2680 × 1520,2560 × 1440,1920 × 1080,1280 × 720)
Main Stream	60Hz: 30fps (2680 × 1520,2560 × 1440,1920 × 1080,1280 × 720)
	50Hz: 25fps (704 × 576, 640 × 480)
Sub Stream	60Hz: 30fps (704 × 480, 640 × 480)
	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Fourth Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	50Hz: 25fps (704 × 576, 640 × 480)
Fifth Stream	60Hz: 30fps (704 × 480, 640 × 480)
	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Custom 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:
video compression	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
Sit hate control	Cong Fort



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
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,
Protocols	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
	(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 GB) local storage, and NAS (NFS, SMB/CIFS), auto
	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	
	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
	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance
Image Settings	adjustable by client software or web browser
SNR	≥52 dB
Interface	
Alarm	1 input, 1 output (max. 24 VDC, 1 A)
	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance:
	4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max.
Audio	output amplitude: 3.3 vpp, output impedance: 100Ω , interface type: non-equilibrium,
	mono sound,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(75Ω/CVBS)(Only for Debug)
On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes



Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
Power Output	12 VDC, max. 200 mA (supported by all power supply types)
Smart Feature-Set	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
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
	Scene change detection, audio exception detection
Counting	Yes
Intelligent (Deep Learning Algo	prithm)
	Detects up to 30 faces simultaneously;
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°;
Face Recognition	Up to 3 face libraries with up to 30000 faces each are configurable;
· ·	Recognizes face identity via face modeling, grading and comparing to those in face
	library;
	Supports face library encryption.
Multi-target-type Detection	Supports simultaneous detection of human body and face
	Gets 8 face features and 14 human body features
	Supports entering/exiting counting (track 30 targets simultaneously); Supports facial recognition;
	Supports 14c1al 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
Queue Management	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
Premier Protection	Support alarm triggering by specified target types (human and vehicle)
	Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag
	etc.
General	Heleada FTD/NAC/wawana harifa alian
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture
Higher Adams	
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
Firmware Version	V5.5.120



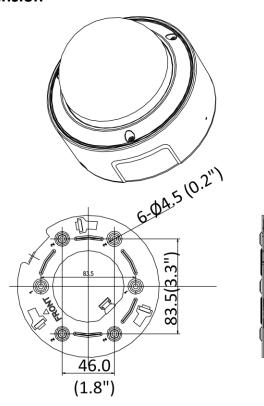
	33 languages
Web Client Language	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak
	French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian,
	Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
	Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), 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
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)
Power Supply	12 VDC ± 20%, two-core terminal block, reverse polarity protection;
	24 VAC ± 20%;
	PoE: 802.3af, Type 1 Class 3
Danier Cananas tian and	12 VDC, 0.83 A, max. 9.96 W
Power Consumption and	24 VAC, 0.85 A, max. 12 W
Current	PoE(802.3af, 36 V to 57 V), 0.35 A to 0.21 A, max. 12 W
Power Interface	Two-core terminal block
Screw Material	Mild steel
Camera Dimension	Ø140.5 × 122.6 mm (Ø5.5" × 4.8")
Package Dimension	244 × 174 × 173 mm (9.6" × 6.9" × 6.8")
Camera Weight	Approx. 950 g (2.1 lb.)
With Package Weight	Approx. 1300 g (2.9 lb.)
Metadata	
	Metadata of intrusion detection, line crossing detection, region entrance detection,
Metadata	region exiting detection, unattended baggage detection, object removal, face capture
	and queue management are supported.
Approval	
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)
Protection	Ingress protection: IK10(IEC 62262:2002)

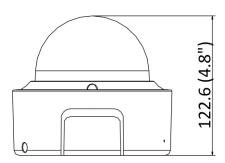
Available Model

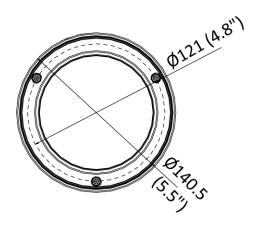
iDS-2CD7146G0-IZS(8 to 32mm), iDS-2CD7146G0-IZS(2.8 to 12mm)



Dimension







Unit: mm(inch)

Accessory



DS-1273ZJ-130B

Wall Mount





DS-1273ZJ-130 Wall Mount



DS-1271ZJ-130 **Pendant Mount**

DS-1275ZJ-SUS **Vertical Pole Mount**





DS-1227ZJ **In-ceiling Mount**

DS-1276ZJ-SUS **Corner Mount**

DS-1281ZJ-DM23 **Inclined Ceiling Mount**



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