

iDS-2CD7A46G0/S-IZHSY 4 MP IR Varifocal Bullet Network Camera







DeepinView

- 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
- Water and dust resistant (IP67) and vandal proof (IK10)





Function

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.

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.

Anti-Corrosion Coating

The camera adopts high weatherproof and wearproof molding powder that confirms to AAMA2604-02 and Qualicoat (Class2) specifications, and uses two-layer special spraying technology, so its surface has excellent long-term anti-corrosion performance and physical protection function. Besides, all the exposed screws use SUS316 material and features high anti-corrosion performance. Therefore, the whole camera meets anti-corrosion requirements NEMA 250-2018.



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
Power-off Memory	Yes
Lens	
Focus	Auto, semi-auto, manual.
Lens Type & FOV	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°
	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 F2.5
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	
	2.8 to 12 mm: 50 m
IR Range	8 to 32 mm: 100 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	2680 ×1520
	50Hz: 25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60Hz: 30fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
C 1 C	50Hz: 25fps (704 × 576, 640 × 480)
Sub-Stream	60Hz: 30fps (704 × 480, 640 × 480)
Third Characa	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
5 II C	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Fourth Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Character	50Hz: 25fps (704 × 576, 640 × 480)
Fifth Stream	60Hz: 30fps (704 × 480, 640 × 480)
Country Change	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: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
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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	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
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
Smooth Streaming	Yes
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
Network Storage	microSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
Image	
Smart IR	The 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
Distortion Correction Distortion	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
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥52 dB
Interface	
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)
Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 vpp, output impedance: 100 Ω , interface type: non-equilibrium, mono sound
RS-485	1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Video Output	1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)
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)
Heater	Yes
Smart Feature-Set	
	Motion detection, video tampering alarm, vibration detection, exception (network
Basic Event	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
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 Alg	
(a cob acquimit vig	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	
Concrai	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
zimage memod	Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email
	Trigger notification: HTTP, ISAPI, alarm output, Email
Online Upgrade	Yes
Dual Backup	Yes
Firmware Version	V5.5.121
Timiware version	33 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Web Client Language	French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian,
Web Chefft Language	Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
	Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
	Anti- flicker, 5 streams and up to 5 custom streams, EPTZ, heartbeat, mirror, privacy
General Function	masks, flash log, password reset via e-mail, pixel counter
Software Reset	Yes
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating	40 C to 00 C (-40 1 to 140 1). Humary 33/0 of less (non-condensing)
Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4
Power Consumption and	12 VDC, 1.33 A, max. 16.0 W
Current	PoE: (802.3at, 42.5 V to 57 V), 0.43 A to 0.31 A, max. 18.0 W
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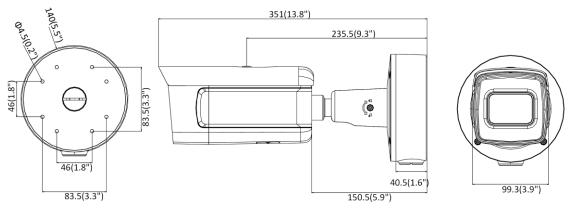


Power Interface	Three-core terminal block
Material	Aluminum alloy body
Camera Dimension	Ø140 × 351 mm (Ø5.5" × 13.8")
Package Dimension	405 × 190 × 180 mm (15.9" × 7.5" × 7.1")
Camera Weight	1920 g (4.2 lb.)
With Package Weight	3060 g (6.7 lb.)
Metadata	
	Metadata of intrusion detection, line crossing detection, region entrance detection,
Metadata	region exiting detection, unattended baggage detection, object removal, and queue
	management are supported.
Approval	
Class	Class B
	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN
EMC	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)
	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN
Safety	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	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)
Anti-Corrosion Protection	NEMA 4X(NEMA 250-2018)
Other	PVC FREE

Available Model

iDS-2CD7A46G0/S-IZHSY(2.8 to 12 mm) iDS-2CD7A46G0/S-IZHSY(8 to 32 mm)

Dimension



Unit: mm(inch)



Accessory



DS-1476ZJ-Y Corner Mount



DS-1475ZJ-Y Vertical Pole Mount

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