

iDS-2CD7A86G0-IZHS(Y)(R) 8 MP IR Varifocal Bullet Network Camera







DeepinView

- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 dB true
 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

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.

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 SUS316L material and features high anti-corrosion performance. Therefore, the whole camera meets anti-corrosion requirements NEMA4X.



Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.009 Lux @ (F1.2, AGC ON); B/W: 0.0009 Lux @ (F1.2, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 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: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV:
	137.3° to 47.3°
	8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV:
	48.7° to 17°
	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	
aminacoi	2.8 to 12 mm: 30 m
IR Range	8 to 32 mm: 80 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	3840 × 2160
Width Nessiation	50Hz: 25 fps (3840 × 2160, 3200 × 1800, 2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60Hz: 30 fps (3840 × 2160, 3200 × 1800, 2560 × 1440, 1920 × 1080, 1280 × 720)
	50Hz: 25 fps (704 × 576, 640 × 480)
Sub-Stream	60Hz: 30 fps (704 × 480, 640 × 480)
	50Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	50Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Fourth Stream	60Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	50Hz: 25fps (704 × 576, 640 × 480)
Fifth Stream	60Hz: 30fps (704 × 480, 640 × 480)
	50Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Custom Stream	60Hz: 30 fps (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:
Trace 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
Stream Type	Main stream/sub-stream/third stream/fourth stream/fifth stream/custom stream
Stream Type	iviam stream, sub-stream, tima stream, tour tri stream, mith 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
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
Network Storage	microSD/SDHC/SDXC card (256 GB) 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
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	≥52dB
Interface	
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)
Audio	-IZHSY: 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	With -Y: 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 micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes



Communication Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
Power Output	With -Y: 12 VDC, max. 200 mA (supported by all power supply types)
Heater	Yes
Smart Feature-Set	
Basic Event	Motion detection, video tampering alarm, vibration detection, exception (network
busic Event	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, defocus detection
Counting	Yes
Intelligent (Deep Learning Algo	rithm)
	Detects up to 30 faces simultaneously;
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°;
Face Decembine	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 alarn
	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
Firmware Version	V5.5.121
FILLIWATE VEISION	VJ.J.121



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
Anti- flicker, 5 streams and up to 5 custom streams, EPTZ, heartbeat, mirror, privacy
masks, flash log, password reset via e-mail, pixel counter
Yes
-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at,
Type 2 Class 4
12 VDC, 1.33 A, max. 16.0 W
PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W
3-core terminal block
Aluminum alloy body
Mild steel
Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")
With -Y: Ø140 × 351 mm (Ø5.5" × 13.8")
405 × 190 × 180 mm (15.9" × 7.5" × 7.1")
1920 g (4.2 lb.)
3060 g (6.7 lb.)
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.
Class B
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)
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)
CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)
With -R: EN50121-4
With -Y: NEMA 4X(NEMA 250-2014). Anti-corrosion coating, not recommended in high
salinity/humidity/acidity environment

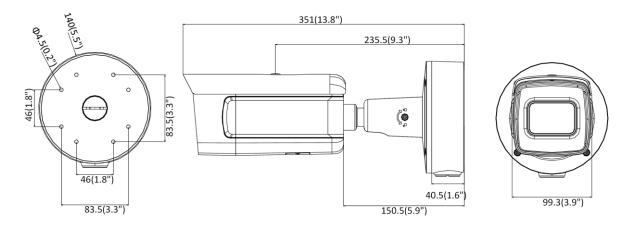
Available Model

iDS-2CD7A86G0-IZHS (2.8 to 12 mm), iDS-2CD7A86G0-IZHS (8 to 32 mm), iDS-2CD7A86G0-IZHSY (2.8 to 12 mm), iDS-2CD7A86G0-IZHSY (8 to 32 mm), iDS-2CD7A86G0-IZHSYR (8 to 32 mm)

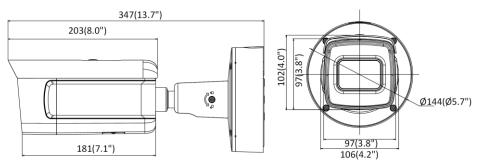


Dimension

-Y model:



Without -Y model:



Unit: mm(inch)

Accessory

-Y model:

Without –Y model:



DS-1476ZJ-Y **Corner Mount**



DS-1475ZJ-SUS Vertical Pole Mount



DS-1475ZJ-Y Vertical Pole Mount



DS-1476ZJ-SUS **Corner Mount**



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