

iDS-2CD7A46G0-IZHS(Y)(R) 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

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 | 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 | | |
| | 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 | | |
| Augustus | 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 | | | |
| 10.0 | 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 | 2680 ×1520 | | |
| | 50Hz: 25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) | | |
| Main Stream | 60Hz: 30fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) | | |
| 6.1.6 | 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) | | |
| Facility Character | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) | | |
| Fourth Stream | 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) | | |
| Fifth Stroom | 50Hz: 25fps (704 × 576, 640 × 480) | | |
| Fifth Stream | 60Hz: 30fps (704 × 480, 640 × 480) | | |
| Custom Stroom | 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 | | |
| • • | | | |



| 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 | ≥52 dB |
| 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(/5\O/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 |



| 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 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 regions configurable |
| Smart Event | 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°; |
| | 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; |
| Face Counting | 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. |
| Hard Hat Detection | Detects up to 30 human targets simultaneously |
| naru nat 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) |
| FIEITHEI FIOLECTION | 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 |
| Linkage Method | output, trigger recording, trigger capture |
| | Trigger recording: memory card, network storage, pre-record and post-record |
| | Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email |
| Online Henry 1 | Trigger notification: HTTP, ISAPI, alarm output, Email |
| Online Upgrade | Yes |
| Dual Backup | Yes |
| Firmware Version | V5.5.121 |



| | 22 languages |
|----------------------------------|--|
| Web Client Language | 33 languages |
| | English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, |
| Web Cliefft Language | |
| | 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, EPTZ, heartbeat, mirror, privacy 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 Conditions | -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Power Supply | 12 VDC \pm 20%, three-core terminal block, reverse polarity protection; PoE : 802.3at, |
| i owei suppiy | Type 2 Class 4 |
| Power Consumption and | 12 VDC, 1.33 A, max. 16.0 W |
| Current | PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W |
| Power Interface | Three-core terminal block |
| Camera Material | Aluminum alloy body |
| Screw Material | Mild steel |
| | Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7") |
| Camera Dimension | With -Y: 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, face capture |
| | 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 | Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013) |
| Automotive and Railway | With -R: EN50121-4 |
| Anti-Corrosion Protection | With -Y: NEMA 4X(NEMA 250-2014) |
| Other | With -Y: PVC FREE |
| • | |

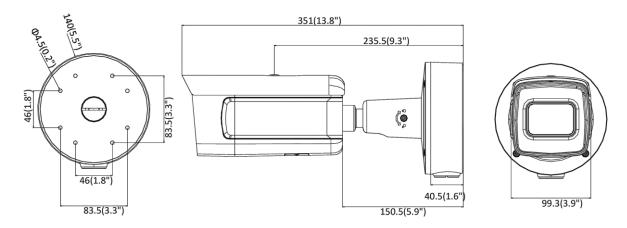
Available Model

iDS-2CD7A46G0-IZHS (2.8 to 12 mm), iDS-2CD7A46G0-IZHS (8 to 32 mm), iDS-2CD7A46G0-IZHSY (2.8 to 12 mm), iDS-2CD7A46G0-IZHSY (8 to 32 mm), iDS-2CD7A46G0-IZHSYR (8 to 32 mm)

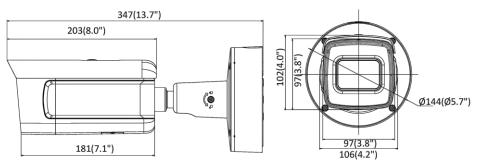


Dimension

-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**



Distributed by

HIKVISION'

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T+86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T+61-2-8599-4233 salesau@hikvision.com

Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T+662-275-9949 sales.thailand@hikvision.com Hikvision Europe T+31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T+01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.afrîca@hikvision.com

Hikvision France T +33[0]1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com HIkvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T+65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T+99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 Info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T+82-[0]31-731-8817 sales.korea@hikvision.com

Hikvision Poland T+48-22-460-D1-50 info.pl@hikvision.com

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

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