

iDS-2CD7A46G0-IZHS(Y)(R) **4 MP IR Varifocal Bullet 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
- 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: 0.001 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
L T 0 FOV	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	
	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)
C 1 C	50Hz: 25fps (704 × 576, 640 × 480)
Sub Stream	60Hz: 30fps (704 × 480, 640 × 480)
Third Character	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
5 11 6	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Fourth Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
-16.1 a.	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



Region of Interest (ROI) Audio Environment Noise Filtering Audio Sampling Rate Audio Compression Audio Bit Rate Audio Type Mono sound Network Simultaneous Live View API ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPP, DSMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS Smooth Streaming Ves Ves Ves Ves Ves Ves Ves Ves Ves V	Scalable Video Coding (SVC)	H.265 and H.264 support
Environment Noise Filtering Environment Noise Filtering Environment Noise Filtering Audio Sampling Rate 8 kHz/16 kHz/32 kHz/4.1 kHz/48 kHz Audio Compression G.711/G.722.1/G.726/MP2L2/PCM/MP3 Audio Bitt Rate 300kbps(MP3) Audio Type Mono sound Network Simultaneous Live View Up to 20 channels API ONNIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP TCP/IP, ICMP, HTTP, HTTP, STTP, STTP, STPP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPRP, SMTP, SMMP, 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-MDS), 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 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 Plug-in required live view: IE8+ Web Browser Day/Night Switch Day, Night, Auto, Schedule, Triggered by Alarm In Target Cropping Yes Fleture Overlay Local service: Chrome 41.0+, Firefox 30.0+ Image Farameters Switch Pes Mage Estings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser SNR S2 dB Input (line in), 3.5 mm connector, max. Input amplitude: 3.3 vpp, input impedance: ALTH Input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: ALTH Input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: ALTH Input (line in), 3.5 mm connector, max. input amplitude: 3.0 vpp, inferface type: non-equilibrium, mono sound RS-485 With Y: 1 RS-485(half duplex, HIKVSION, Petc-P, Petc-P, Self-adaptive) Video Output 1 Vp-P Composite Output (JSC) CMS (JF or debugging		
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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, PPPOE, NTP, UPPP, SMTP, SMMP, 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-MDS), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONNIF, 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) Together with high-end Hikwision memory card, memory card encryption and health detection are supported. Client IVMS-4200, Hik-Connect, Hik-Central 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, 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 Parameter	Audio Type	Mono sound
API ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP Protocols TCP/IP, ICMP, HTTP, HTTPS, STFP, STFP, STRP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPDE, NTP, UPnP, SMTP, SMMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS Smooth Streaming Ves 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-MDS), 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 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 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 Rota ende, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser SNR 252 dB Interface 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: 4.7 KQ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max.output amplitude: 3.3 vpp, output impedance: 100 Q, interface type: non-equilibrium, mono sound Non-equilibrium, mono sound Non-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB		
API ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP Protocols TCP/IP, ICMP, HTTP, HTTPS, STFP, STFP, STRP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPDE, NTP, UPnP, SMTP, SMMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS Smooth Streaming Ves 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-MDS), 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 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 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 Rota ende, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser SNR 252 dB Interface 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: 4.7 KQ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max.output amplitude: 3.3 vpp, output impedance: 100 Q, interface type: non-equilibrium, mono sound Non-equilibrium, mono sound Non-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Simultaneous Live View	Up to 20 channels
Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DRCP, DNS, DDNS, RTP, RTSP, RTCP, PPP0E, NTP, UPnP, SMTP, STMP, 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-MDD), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication of ONVIF, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log , TLS 1.2 Metwork 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. Description of the complex of	API	·
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 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) 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 required live view: IE8+ Web Browser 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 25 2 dB Interface Alarm 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 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.output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound With -Y: 1 RS-485 (Mith Juplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) Video Output 1 Vp-P Composite Output(75O/CVBS)(For debugging only) On-board Storage	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,
Password protection, complicated password, HTTPS encryption,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MDS), 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	Smooth Streaming	Yes
Security (EAP-TLS, EAP-LEAP, EAP-MDS), 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 Metwork 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 Plug-in required 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 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, ElS, Distortion Correction Image Parameters Switch Yes Rocate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser SNR 252 dB Interface 1 input, 2 outputs (max. 24 VDC, 1 A) 1-1ZHSY: 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.output amplitude: 3.3 vpp,	User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Network Storage 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+ Web Browser 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, ElS, 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 ≥5 d B Interface Alaria 2 input, 2 outputs (max. 24 VDC, 1 A) -12HSY: 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.output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound RS-485	Security	(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
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 KΩ, 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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Network Storage	network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health
Web BrowserPlug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+ImageThe IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure.Day/Night SwitchDay, Night, Auto, Schedule, Triggered by Alarm InTarget CroppingYesPicture OverlayLOGO picture can be overlaid on video with 128 × 128 24bit bmp formatImage EnhancementBLC, HLC, 3D DNR, Defog, EIS, Distortion CorrectionImage Parameters SwitchYesImage SettingsRotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browserSNR≥52 dBInterface2 input, 2 outputs (max. 24 VDC, 1 A)-IZHSY: 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.output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono soundRS-485With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Video Output1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)On-board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GB	Client	iVMS-4200, Hik-Connect, Hik-Central
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) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+
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 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) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Image	,
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) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	-	
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 adjustable by client software or web browser SNR ≥52 dB Interface Alarm 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Day/Night Switch	Day, Night, Auto, Schedule, Triggered by Alarm In
Image Enhancement BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction Image Parameters Switch Yes 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) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Target Cropping	Yes
Image Parameters SwitchYesImage SettingsRotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browserSNR≥52 dBInterfaceAlarm2 input, 2 outputs (max. 24 VDC, 1 A)-IZHSY: 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.output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono soundRS-485With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Video Output1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)On-board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GB	Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
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) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction
Image Settings adjustable by client software or web browser SNR ≥52 dB Interface 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: Audio 4.7 KΩ, 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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Image Parameters Switch	Yes
Interface Alarm 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: Audio 4.7 KΩ, 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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Image Settings	
Alarm 2 input, 2 outputs (max. 24 VDC, 1 A) -IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	SNR	≥52 dB
-IZHSY: 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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Interface	
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.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(75Ω/CVBS)(For debugging only) On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)
RS-485With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Video Output1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)On-board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GB	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:
On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	RS-485	With -Y: 1 RS-485(half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
On-board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB	Video Output	
-	·	
		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)
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	orithm)
Face Recognition	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; 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 13 human body features
Face Counting	Supports entering/exiting counting (track 30 targets simultaneously); Supports facial recognition; Supports 24-hour dynamic deduplication and face library deduplication (up to 3 face 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 Supports up to 4 shield regions
Queue Management	Detects queuing-up people number, and waiting time of each person Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis
Premier Protection	Line crossing, intrusion, region entrance, region exiting 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	
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm 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 Trigger notification: HTTP, ISAPI, alarm output, Email
Online Upgrade	Yes
Dual Backup	Yes
Firmware Version	V5.5.121



	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	-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 ± 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, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W
Power Interface	Three-core terminal block
Screw Material	Mild steel
Comoro Dimension	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	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	
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), 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

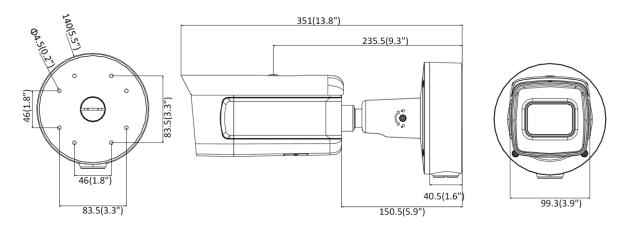
Available Model

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)

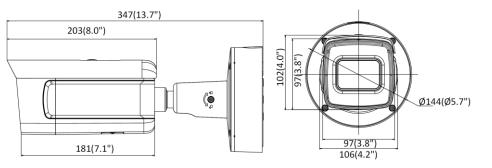


Dimension

-Y model:



Without -Y model:



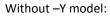
Unit: mm(inch)

Accessory

-Y model:



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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Diotribated by

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