

# iDS-2CD7A46G0-IZHS(Y) 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
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)
- Flexible arm allow up to 90° installation.



#### Function

**Face Recognition** 

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

**Perimeter Protection** 

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

**Regional People Counting** 

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

**People Counting** 

With the embedded deep learning algorithms, the camera integrates multiple intelligences. 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 reports an alarm if not.



### Specification

Camera Ca							
Image Sensor	1/1.8" Progressive Scan CMOS						
Max. Resolution	2560 × 1440						
Min. Illumination Color: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux w							
Shutter Time 1 s to 1/100,000 s							
Day & Night	IR cut filter						
Day & Night	Blue glass module to reduce ghost phenomenon						
Lens							
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal						
Focal Length & FOV	FOV: 141.1° to 48°						
Total Length & 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°						
Focus	Auto, semi-auto, manual						
Iris Type P-iris							
Aperture	2.8 to 12 mm: F1.2 to F2.5						
Aperture	8 to 32 mm: F1.7 to F1.73						
DORI							
	Wide:						
	2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m						
DORI	8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m						
DOKI	Tele:						
	2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m						
	8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m						
Illuminator							
Supplement Light Type	IR						
Supplement Light Range	2.8 to 12 mm: 50 m						
Jupplement Light Nange	8 to 32 mm: 100 m						
nart Supplement Light Yes							
IR Wavelength 850 nm							
Al Open Platform							
	Up to 4 models,						
Model Specification	Model type: detection model, classification model, mixed model (detection model and						
	classification model)						
Video							
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280× 720)						
Wall Stream	60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280× 720)						
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480)						
Jub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)						
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)						
Time Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)						
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)						
. Januara Garanii	60 Hz: 30 fps (704 × 480, 640 × 480)						
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480)						



Main stream: H.265/H.264/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG Video Bit Rate 32 Kbps to 16 Mbps H.264 Type Main Profile H.265 Type Baseline Profile,Main Profile,High Profile Bit Rate Control CBR,VBR Scalable Video Coding (SVC) H.264 and H.265 encoding Region of Interest (ROI) 4 fixed region(s) for each stream Target Cropping Yes 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/AAC-LC Audio Type Mono sound 64 Kbps (G.711alaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPGE, NTP, UPPP, SMTP, SMPV1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP 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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG  Video Bit Rate 32 Kbps to 16 Mbps  H.264 Type Main Profile  H.265 Type Baseline Profile, Main Profile, High Profile  Bit Rate Control CBR, VBR  Scalable Video Coding (SVC) H.264 and H.265 encoding  Region of Interest (ROI) 4 fixed region(s) for each stream  Target Cropping Yes  Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz  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/AAC-LC  Audio Type Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPDE, NTP, UPNP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Fourth stream: H.265/H.264/MIPEG, Fifth stream: H.265/H.264/MIPEG  Video Bit Rate  32 Kbps to 16 Mbps  H.264 Type  Main Profile  Baseline Profile,Main Profile Bit Rate Control  CBR,VBR  Scalable Video Coding (SVC)  H.264 and H.265 encoding  Region of Interest (ROI)  4 fixed region(s) for each stream  Target Cropping  Yes  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/AAC-LC  Audio Type  Mono sound  Audio Bit Rate  (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPV4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPPNP, SMTP, SNMPV1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Fifth stream: H.265/H.264/MJPEG  Video Bit Rate  32 Kbps to 16 Mbps  H.264 Type  Main Profile  H.265 Type  Baseline Profile,Main Profile,High Profile  Bit Rate Control  CBR,VBR  Region of Interest (ROI)  4 fixed region(s) for each stream  Target Cropping  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/AAC-LC  Audio Type  Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPPP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  User/Host  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, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Video Bit Rate  3 2 Kbps to 16 Mbps  H. 264 Type  Main Profile  H. 265 Type  Baseline Profile, Main Profile  Bit Rate Control  CBR, VBR  Scalable Video Coding (SVC)  H. 264 and H. 265 encoding  Region of Interest (ROI)  4 fixed region(s) for each stream  Yes  Audio  Environment Noise Filtering  Yes  Audio Sampling Rate  Audio Compression  G. 711/G. 722.1/G. 726/MP2L2/PCM/MP3/AAC-LC  Audio Type  Mono sound  64 Kbps (G. 711ulaw/G. 711alaw)/16 Kbps (G. 722.1)/16 Kbps (G. 726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPDE, NTP, UPAP, SMTP, SMTP, SMTP, SMTP, SMTP, SMTP, SMPV, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  Up to 20 channels  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
H.264 Type Main Profile H.265 Type Baseline Profile, Main Profile, High Profile Bit Rate Control CBR, VBR Scalable Video Coding (SVC) H.264 and H.265 encoding Region of Interest (ROI) 4 fixed region(s) for each stream Target Cropping Yes  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/AAC-LC Audio Type Mono sound  46 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSI/TLS, SSH, ARP, TTLS, SIP  User/Host Up to 20 channels  Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
H.265 Type Baseline Profile,Main Profile,High Profile Bit Rate Control CBR,VBR Scalable Video Coding (SVC) H.264 and H.265 encoding Region of Interest (ROI) 4 fixed region(s) for each stream Target Cropping Yes  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/AAC-LC Audio Type Mono sound  4 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  TCP/IP, IPV4/V6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMPV1/V2/V3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  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 Open Network Video Interface, RTP/RTSP, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Bit Rate Control  CBR,VBR  Scalable Video Coding (SVC)  Region of Interest (ROI)  4 fixed region(s) for each stream  Yes  Audio  Environment Noise Filtering  Audio Sampling Rate  Audio Compression  Audio Type  Mono sound  64 Kbps (G.711/IG.722.1/G.726/MP2L2/PCM/MP3/AAC-LC  Audio Bit Rate  (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPPN, SMTP, SNIP  SSL/TLS, SSH, ARP, TTLS, SIP  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 Open Network  Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Scalable Video Coding (SVC) Region of Interest (ROI) 4 fixed region(s) for each stream Yes  Audio  Environment Noise Filtering Audio Sampling Rate Audio Compression Audio Type Audio Bit Rate  Environment Noise Filtering Audio Simpling Rate  Audio Sampling Rate Audio Compression Audio Type  Mono sound  64 Kbps (G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC  Audio Bit Rate  Frotocols  Environment Noise Filtering Audio Type  Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Frotocols  Environment Noise Filtering TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPNP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View Up to 20 channels  API Upen Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Region of Interest (ROI)  Target Cropping  Yes  Audio  Environment Noise Filtering  Audio Sampling Rate  Audio Compression  Audio Type  Mono sound  64 Kbps (G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC  Audio Type  Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Target Cropping Yes  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/AAC-LC  Audio Type Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPPNP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View Up to 20 channels  API Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
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Environment Noise Filtering  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/AAC-LC  Audio Type  Mono sound  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  Up to 20 channels  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 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, AES 256
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Audio Type  Audio Bit Rate  64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  Up to 20 channels  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
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Audio Bit Rate  (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  Network  Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  Up to 20 channels  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
Protocols  TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP,UPnP, SMTP, SNMPv1/v2/v3, IGMP, 802.1X, QoS, UDP, Bonjour, SSL/TLS, SSH, ARP, TTLS, SIP  Simultaneous Live View  Up to 20 channels  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP  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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
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Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, AES 256
TLS 1.2, AES 256
· ·
NAC (NEC CMD/CIEC) auto notwork randonishment (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
Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11
Web Browser Plug-in free live view: Chrome 45.0+, Firefox 52.0+
Not recommended: Safari 11+, Edge
Image
Image Parameters Switch Yes
Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by Image Settings
client software or web browser
Day/Night Switch Day, Night, Auto, Schedule, Alarm Trigger
Wide Dynamic Range (WDR) 140 dB



Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable				
Image Stabilization	EIS				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format				
Interface					
Video Output	1 Vp-p Composite Output (75 $\Omega$ /CVBS) (Only for debugging)				
thernet Interface 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port					
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB				
Audio	With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector				
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)				
RS-485	With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				
Reset Key	Yes				
Power Output With -Y: 12 VDC, max. 100 mA					
Event					
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection				
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle features				
Face Capture	Detects up to 60 faces simultaneously  Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°  Uploads face with background and closed-up face pictures				
Face Comparison	Up to 10 face libraries. Up to 30,000 faces for each library. 150,000 faces in total. Supports face library encryption				
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)				
People Counting	Supports crossline people counting, Supports counting, displaying and exporting the people flow data of entering and exiting. (The data is stored in the flash.), The real-time people flow data is displayed on the screen., Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°., Uploads face with background and closed-up face picture., Supports real-time uploading and uploading by statistic cycle				



	Supports up to 8 detection regions, and independent arming schedule and linkage method			
	Supports 2 detection modes: regional people queuing-up, waiting time detection			
	Generates reports to compare the efficiency of different queuing-ups and display the			
	changing status of one queue			
Queue Management	Supports raw data export for further analysis.			
Queue Management	Supports real-time data uploading and scheduled data uploading			
	Regional people queuing-up: supports 4 alarm trigger conditions, including greater			
	than threshold, less than threshold, equal to threshold, not equal to threshold			
	Waiting time detection: supports 1 alarm trigger condition, including greater than threshold			
	A graphic description of visits (by calculating amount of people or amount of dwell			
Heat Map	time) in a configured area.,			
	Two report types are available, space heat map and time heat map line chart.			
Hard Hat Detection	Detects up to 30 human targets simultaneously			
	Supports up to 4 shield regions			
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting			
	detection, face capture, multi-target-type detection			
	Supports up to 8 detection regions, and independent arming schedule and linkage			
	method			
	Supports 3 detection modes: people density detection, number of people exception			
	detection, waiting time exception detection			
	Supports parameter settings: alarm times per exception, alarm interval, first alarm			
	delay			
	Supports searching real-time number of people			
	People density detection: supports scheduled uploading, number of people change			
Regional People Counting	uploading, congestion level uploading			
	Number of people exception detection: supports 6 alarm trigger conditions, including			
	greater than threshold A, less than threshold A, equal to threshold A, not equal to			
	threshold A, greater than threshold A and less than threshold B, less than threshold A			
	or greater than threshold B (threshold A should be less than threshold B)			
	Waiting time exception detection: supports 3 alarm trigger conditions, including			
	greater than threshold A, less than threshold A, greater than threshold A and less than			
	threshold B (threshold A should be less than threshold B)			
	Supports up to 8 detection regions, and independent arming schedule and linkage			
	method			
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection			
	Supports parameter settings: person on duty, absence duration			
Canaval	Supports parameter settings, person on duty, absence duration			
General	12.VDC + 200/ 1.10 A may 14.20 W there are tarm?			
Power	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block			
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V), 0.396 A to 0. 295A, max. 16.8 W			
Material	Aluminum alloy body			
Dimension	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")			
	With -Y: Ø140 × 351 mm (Ø5.5" × 13.8")			
Package Dimension	e Dimension $405 \times 190 \times 180 \text{ mm } (15.9" \times 7.5" \times 7.1")$			
Weight	Approx. 1950 g (4.2 lb.)			
With Package Weight	Approx. 3070 g (6.7 lb.)			



Storage Conditions	-30 °C to 60 °C (-22 °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)			
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
Language	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	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter,			
	one-key reset, five streams			
Approval				
EMC	FCC (47 CFR Part 15, Subpart B);			
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN			
	50130-4: 2011+A1: 2014);			
	RCM (AS/NZS CISPR 32: 2015);			
	IC (ICES-003: Issue 7);			
	KC (KN 32: 2015, KN 35: 2015)			
	UL (UL 62368-1);			
	CB (IEC 62368-1:2014+A11);			
Safety	CE-LVD (EN 62368-1:2014/A11:2017);			
	BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005);			
	LOA (IEC/EN 60950-1)			
	CE-RoHS (2011/65/EU);			
Environment	WEEE (2012/19/EU);			
	Reach (Regulation (EC) No 1907/2006)			
Protection	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)			
Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

### Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

-Y model: This model has MODERATE PROTECTION.

Without -Y model: This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

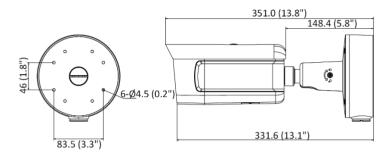


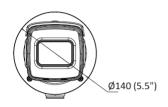
#### Available Model

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

#### Dimension

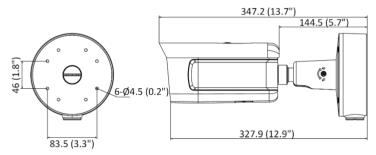
With -Y model:

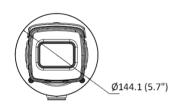




Unit: mm (inch)

Without -Y model:





Unit: mm (inch)

#### Accessory

#### Optional

DS-1476ZJ-SUS	DS-1475ZJ-SUS	DS-1476ZJ-Y	DS-1475ZJ-Y
Corner Mount	Vertical Pole Mount	Corner Mount	Vertical Pole Mount
	AAA		

#### Headquarters

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