

iDS-2CD7A46G0/P-IZHS(Y) 4 MP ANPR 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
- License Plate Recognition
- 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

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

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.



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
_	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: 50 m
IR Range	8 to 32 mm: 100 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	2680 ×1520
	50Hz: 25fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60Hz: 30fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
	50Hz: 25fps (704 × 576, 640 × 480)
Sub-Stream	60Hz: 30fps (704 × 480, 640 × 480)
-1. 16.	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
5 11 61	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Fourth Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Eifth Characa	50Hz: 25fps (704 × 576, 640 × 480)
Fifth Stream	60Hz: 30fps (704 × 480, 640 × 480)
Custom Street	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	one true
	CBR/VBR



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
Chefit	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	Escar service. Chrome 42.01, Filerox 30.01
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, Triggered by Video
Target Cropping	Yes
Distortion Correction Distortion	Yes
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥52 dB
Interface	
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)
Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 vpp, output impedance: 100 Ω , interface type: non-equilibrium, mono sound
RS-485	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
Hardware Reset	Yes
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Heater Yes Wiegand With-Y: I wiegand(CardID 26bit, SHA-1 26bit, Hik 34bit) 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 Region entrance detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Seene change detection, up to 4 regions configurable Object removal detection, audio exception detection, defocus detection Counting Yes Intelligent (Deep Learning Algorithm) 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 fla, etc. Blocklist and allowist: up to 10000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support wehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) General Upload to FTP/NAS/memory card, network storage, pre-record and post-record Trigger recording: trigger capture Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: memory card, network storage, pre-record and post-record Trigger recording: The Strip, Humidity Strip, Norana, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazill),	Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
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33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slova 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 Software Reset Yes Storage Conditions Startup and Operating Conditions Power Supply 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 Power Consumption and Current 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	Dual Backup	Yes
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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 Software Reset 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) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 Power Consumption and Current 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	Web Client Language	33 languages
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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 Storage Conditions -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) -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 Power Consumption and 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		Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
masks, flash log, password reset via e-mail, pixel counter Yes Storage Conditions Startup and Operating Conditions Power Supply Power Consumption and Current 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		Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
masks, flash log, password reset via e-mail, pixel counter Yes Storage Conditions -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) Conditions 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 PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W	C 15 1	Anti- flicker, 5 streams and up to 5 custom streams, EPTZ, heartbeat, mirror, privacy
Storage Conditions -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) -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 Power Consumption and 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	General Function	masks, flash log, password reset via e-mail, pixel counter
Startup and Operating Conditions -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 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	Software Reset	Yes
Startup and Operating Conditions -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 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	Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Conditions -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 Power Consumption and 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	Startup and Operating	
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 PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W	Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply 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 Supply	12 VDC ± 20%, three-core terminal block, reverse polarity protection: PoE: 802.3at.
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		
Current PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W	Power Consumption and	
	•	
	Power Interface	Three-core terminal block



Material	Aluminum alloy body
Camera Dimension	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")
	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 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 Safety	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)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)
Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)
Other	With -Y: PVC FREE

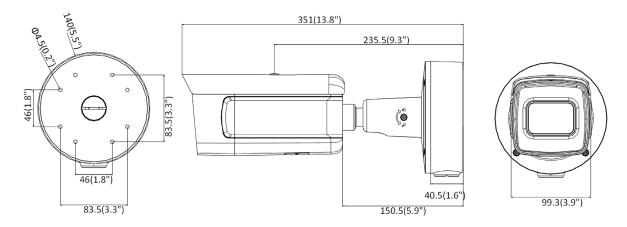
Available Model

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

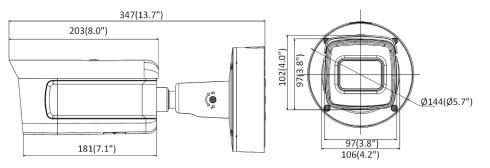


Dimension

-Y model:



Without -Y model:



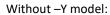
Unit: mm(inch)

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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