

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
- 5 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.



Specification

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Camera						
Image Sensor	1/1.8" Progressive Scan CMOS					
Max. Resolution	2688 × 1520					
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON);					
Willia marimacion	B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR					
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°					
rocal 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					
Aportura	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					
DODI	8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m					
DORI	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					
6 1 11:11:5	2.8 to 12 mm: 50 m					
Supplement Light Range	8 to 32 mm: 100 m					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
Video						
	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					
	50 Hz: 25 fps (704 × 576, 640 × 480)					
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)					
TI. 10.	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)					
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)					
Fourth Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)					
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)					
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)					
	60 Hz: 30 fps (704 × 480, 640 × 480)					
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	Main stream: H.265+/H.265/H.264+/H.264,				
	Sub-stream: H.265/H.264/MJPEG,				
Video Compression	Third stream: H.265/H.264,				
video compression	Fourth stream: H.265/H.264/MJPEG,				
	Fifth stream: H.265/H.264/MJPEG				
Video Bit Rate	32 Kbps to 8 Mbps				
H.264 Type	Baseline Profile, Main Profile, High Profile				
H.265 Type	Main Profile				
Bit Rate Control					
Scalable Video Coding (SVC)	CBR,VBR				
	H.265 and H.264 encoding				
Region of Interest (ROI)	4 fixed regions for each stream				
Target Cropping	Yes				
Audio					
Audio Type	Mono sound				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
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)				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz				
Environment Noise Filtering	Yes				
Network					
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,				
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS,				
	WebSocket, WebSockets				
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				
Security	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				
	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, Hik-Central				
	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					
Image Parameters Switch	Yes				
	Saturation, brightness, contrast, sharpness, gain, white balance adjustable by client				
Image Settings	software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger				
Wide Dynamic Range (WDR)	140 dB				
SNR	≥ 52 dB				
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Image Enhancement	BLC, HLC, Defog, 3D DNR				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format				
Image Stabilization	EIS				
Interface					
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)				
Ethernet 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				
Wiegand	-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)				
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				
Siliare Event	detection, audio exception detection, scene change detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types				
	Blocklist and allowlist: up to 10,000 records				
Road Traffic and Vehicle Detection	Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98%				
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, road traffic				
General					
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. 295 A, 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	405 × 190 × 180 mm (15.9" × 7.5" × 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	Anti-flicker, 5 streams, EPTZ, heartbeat, mirror, privacy mask, flash log, password reset			
General Function	via email, pixel counter			
Approval				
	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			
5140	50130-4: 2011 +A1: 2014);			
EMC	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)			
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)			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

Available Model

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

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.

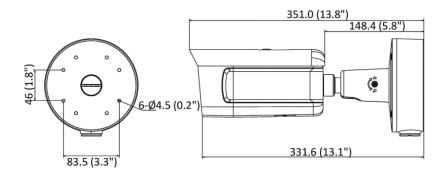
Level	Description		
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion		
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and		
	more.		
Moderate protection	Hikvision products at this level 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.		

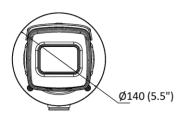


No specific protection Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

Dimension

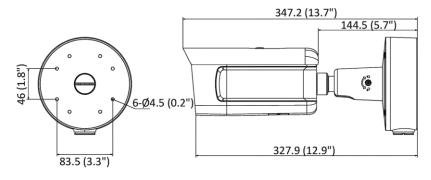
With -Y model:

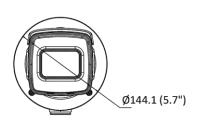




Unit: mm (inch)

Without -Y model:





Unit: mm (inch)

Accessory

Optional

DS-1475ZJ-Y	DS-1475ZJ-SUS Vertical Pole Mount	DS-2251ZJ	DS-1476ZJ-Y	DS-1476ZJ-SUS
Vertical Pole Mount		Pendant Mount	Corner Mount	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.africa@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 +48-22-460-01-50 info.pl@hikvision.com

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

Hikvision Colombia sales.colombia@hikvision.com

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