

# iDS-2CD7A46G0/P-IZHS(Y) 4 MP ANPR 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
- 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

Specification				
Camera				
Image Sensor				
Max. Resolution	2688 × 1520			
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON);			
wiiii. iiiuiiiiiatioii	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			
5	FOV: 141.1° to 48°			
Focal 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			
A se andresse	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			
DON	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			
	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)			
	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)			
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
Fourth Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
Fifth Stream	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				
Video Compression	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 8 Mbps			
H.264 Type	Baseline Profile, Main Profile, High Profile			
H.265 Type	Main Profile			
Bit Rate Control	CBR,VBR			
Scalable Video Coding (SVC)	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			
	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps			
Audio Bit Rate	(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			
rectwork storage	detection are supported			
Client	iVMS-4200, Hik-Connect, Hik-Central			
CIICIIL	Plug-in required live view: IE8+			
Web Browser				
MEN DIOMPEI	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+			
Imago	Local Service. Cilionie 41.07, Fileiox Solot			
Image	Vac			
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, gain, white balance adjustable by client			
D /011 1 2 2 2 2	software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger			
Wide Dynamic Range (WDR)	140 dB			
SNR	≥ 52 dB			



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					
	Motion detection, video tampering alarm, exception (network disconnected, IP				
Basic Event	address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality				
245.6 27 5.110	diagnosis, vibration detection				
	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection, audio exception detection, scene change detection, defocus detection				
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
· ·	Line crossing, intrusion, region entrance, region exiting				
Perimeter Protection	Support alarm triggering by specified target types				
	Blocklist and allowlist: up to 10,000 records				
	Support license plate recognition of motorcycles (only in checkpoint scenario)				
Road Traffic and Vehicle	Support vehicle attribute detection, including vehicle type, color, brand, etc. (City				
Detection	Street mode is recommended.)				
	License plate recognition rate ≥98%				
	Intrusion detection, line crossing detection, region entrance detection, region exiting				
Metadata	detection, road traffic				
General					
_	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block				
Power	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				
	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")				
Dimension	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,		
Language	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		
EMC	50130-4: 2011 +A1: 2014);		
EIVIC	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	Railway EN50121-4		
Other	ther 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.

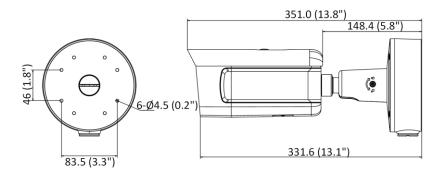
Level	Description		
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion		
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, ar		
	more.		
Moderate protection	Hikvision products at this level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

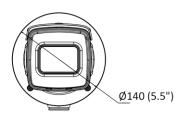


No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion
	protection is needed.

#### Dimension

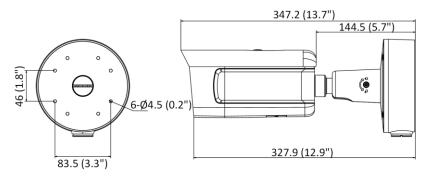
With -Y model:

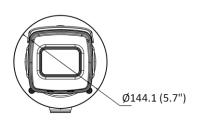




Unit: mm (inch)

#### Without -Y model:





Unit: mm (inch)

## Accessory

### Optional

DS-1475ZJ-Y	DS-1475ZJ-SUS	DS-2251ZJ	DS-1476ZJ-Y	DS-1476ZJ-SUS
Vertical Pole Mount	Vertical Pole Mount	Pendant Mount	Corner Mount	Corner Mount
nnn				



Distributed by

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