

iDS-2CD7A46G0/P-IZHS(Y) 4 MP ANPR IR Varifocal Bullet Network Camera



DeepinView





Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- 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

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. 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.

Parking Management

With embedded deep learning algorithms, the camera can achieve parking space status detection and vacant parking space alarm for parking management. Both distant view mode and close view mode are supported. For the close view mode, the camera can also achieve license plate recognition. Blocklist and allowlist are available for plate categorization and separate alarm triggering.



•

Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	2688 × 1520				
National Harman Strategies	Color: 0.0005 Lux @ (F1.2, AGC ON);				
Min. Illumination	B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR				
Shutter Time	1 s to 1/100,000 s				
5 0 MI L	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 Longth & FOV	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				
	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				
	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)				
	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)				
Main Stream	60 Hz:				
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
Third 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)				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
	50 Hz: 25 fps (704 × 576, 640 × 480)				
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				



.

	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, Fourth stream: H.265/H.264/MJPEG,					
	Fifth stream: H.265/H.264/MJPEG					
Video Dit Data						
Video Bit Rate	32 Kbps to 8 Mbps					
Н.264 Туре	Baseline Profile, Main Profile, High Profile					
Н.265 Туре	Main Profile					
Bit Rate Control	CBR, VBR					
Scalable Video Coding (SVC)	H.264 and H.265 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					
lleer/llest	Up to 32 users					
User/Host	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, TLS 1.3, TPM 2.0					
	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: IE 10, IE 11,					
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,					
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+					
Image						
Image Parameters Switch	Yes					
Image Parameters Switch	Yes Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,					
-						
Image Parameters Switch Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser					
Image Parameters Switch	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,					



.

Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format				
Image Stabilization	EIS				
Privacy Mask	8 programmable polygon privacy masks				
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					
2.0.00	Motion detection (support alarm triggering by specified target types (human and				
	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,				
Basic Event	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration				
	detection				
Smart Event	scene change detection, audio exception detection, defocus detection				
Smart Event	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 (human and vehicle)				
	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 \geq 98%				
	Intrusion detection, line crossing detection, region entrance detection, region exiting				
Metadata	detection, road traffic				
	Support distant view mode and close view mode				
	Distant view mode: support status detection on up to 40 parking spaces, parking				
Parking Management	duration detection, and vacant parking space alarm				
	Close view mode: support status detection on up to 4 parking spaces, license plate				
	recognition, parking timeout alarm, and vacant parking space alarm				
General					
	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block				
Power	PoE: IEEE 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.)				
	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)			
Language	33 languages: 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			
	Anti-banding, 5 streams, EPTZ, heartbeat, mirror, flash log, password reset via email,			
General Function	pixel counter			
Approval				
	FCC: 47 CFR Part 15, Subpart B,			
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 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: KN32: 2015, KN35: 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	-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.

With -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/P-IZHSY(2.8-12mm)(C) iDS-2CD7A46G0/P-IZHSY(8-32mm)(C) iDS-2CD7A46G0/P-IZHS(2.8-12mm)(C) iDS-2CD7A46G0/P-IZHS(8-32mm)(C)

Dimension

With -Y model:



Unit: mm (inch)

Without -Y model:



Accessory

Optional

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



Headquarters No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

Follow us on social media to get the latest product and solution information.











Hikvision Corporate Channel



©Hikvision Digital Technology Co., Ltd. 2023 | Data subject to change without notice |