

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



















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 protection 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
- Built-in image tampering detection to safeguard video authenticity
- 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)
- Audio Function: Integrated Microphone and Speaker, supports real-time two-way audio communication
- Built-in signal, data, and control ports with remote control support for managing external devices (e.g., entry/exit barriers)
- Sound and Light Alarm, Equipped with red and green indicator lights for visual alerts



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. Supports light and voice alarm triggering upon perimeter intrusion, providing active deterrence. Custom audio messages can be uploaded and configured.



Specification

Camera							
Image Sensor	1/1.8" Progressive Scan CMOS						
Max. Resolution	2688 × 1520						
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON);						
	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						
buy a man	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°						
	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 (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify):						
	6 m						
	8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I						
200	(Identify): 15 m						
DORI	Tele:						
	2.8 to 12 mm: D (Detect): 149 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I						
	(Identify): 14.9 m						
	8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify):						
	40 m						
Illuminator							
Supplement Light Type	IR						
Cunniament Light Dange	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:						
Main Stream	25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)						
	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
	60 Hz:						
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)						
	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
Sub Stroam	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	50 Hz. 25 lps (1920 × 1080, 1280 × 720, 704 × 576, 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,						
р	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.264 and H.265 encoding						
Region of Interest (ROI)	4 fixed regions for each stream						
Target Cropping	Yes						
e-PTZ	Support Patrol and Auto Tracking settings						
Audio	2						
Audio Type	Mono sound						
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC						
7.00.0 00p. 000.0	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, IPv4, 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, Profile M),ISAPI,SDK,ISUP						
	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 (FIPS 140-2 level 2), AES128/256						
	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						
J							



	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable					
Image Settings	by client 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,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 inputs, 2 outputs (max. 24 VDC, 1 A)					
RS-485	With -Y: 2 x 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 (support alarm triggering by specified target types (human and					
Basic Event	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,					
Dasic Everit	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration					
	Detection					
Smart Event	scene change detection, audio exception detection, defocus detection					
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm					
LITINUSC	output,trigger recording,trigger capture,audible warning					
Deep Learning Function						
	Line crossing, intrusion, region entrance, region exiting, loitering detection					
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)					
	Support combined event alarm triggering					



	Cmart Function
	Smart Function:
	Support license plate recognition of vehicles and motorcycles (only in checkpoint
	scenario)
	Support vehicle attribute detection, including vehicle type, color, brand, driving
	direction, etc.
	Support vehicle and non-vehicle counting
	Blocklist and allowlist: up to 10,000 records
Road Traffic and Vehicle Detection	LPR Countries/Regions:
	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions
Detection	Accuracy (Under recommended installation and lighting conditions):
	License plate recognition rate ≥98%
	Capture rate ≥99%
	Driving direction accuracy rate ≥98%
	Vehicle Capture Speed:
	Front installation in checkpoint scenario: up to 120 km/h
	Side installation: up to 80 km/h
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode
	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
	Without -Y: Ø144 mm × 347 mm (Ø5.7" × 13.7")
Dimension	With -Y: Ø140 mm × 351 mm (Ø5.5" × 13.8")
Package Dimension	405 mm × 190 mm × 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)
	-50 C to 60 C (-22 F to 140 F). Humbury 95% of less (hon-condensing)
Startup and Operating	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Conditions	22 law success Forelish Duraine Estavian Bulgarian Humanian Coral Common Haling
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
General Function	Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter
Heater	Yes
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6
Device management	output alarm interfaces



Approval					
EMC	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 50130-4: 2011 +A1: 2014, 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	IP67: IEC 60529-2013,IK10: IEC 62262:2002				
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)				
Automotive and Railway	EN50121-4				
Other	PVC FREE				

Typical Application

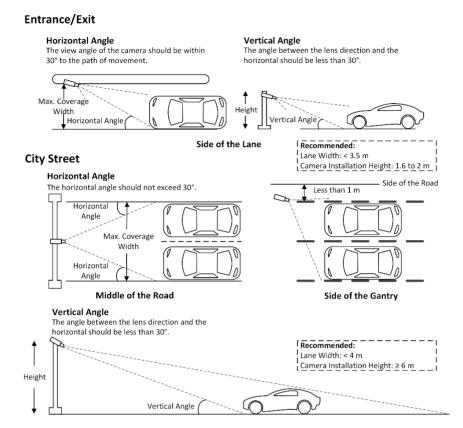
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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.			



Installation Recommendation



Camera Position	Lens	Height (m)	Suggested Vertical Angle	Suggested Trigger Distance (m)	Max. Coverage Width	Max. Horizontal Angle	Vertical Angle Range	Capture Range (m)
Side of the Lane	2.8 to 12 mm	1.5	20°	4	4.5	30°	15° to 30°	2.5 to 5.5
Side of the Lane	2.8 to 12 mm	2	20°	5.5	4.5	30°	15° to 30°	3.5 to 7.5
Side of the Lane	2.8 to 12 mm	2.5	20°	6.5	4.5	30°	15° to 30°	4.5 to 9
Side of the Lane	8 to 32 mm	3	20°	8	6	30°	15° to 30°	5 to 11
Side of the Lane	8 to 32 mm	4	20°	11	6	30°	15° to 30°	6 to 14
Side of the Lane	8 to 32 mm	5	20°	13.5	6	30°	15° to 30°	8.5 to 18
Side of the Lane	8 to 32 mm	6	20°	16.5	6	30°	15° to 30°	10 to 22
Middle of the Road	8 to 32 mm	3	20°	8	12	30°	15° to 30°	5 to 11
Middle of the Road	8 to 32 mm	4	20°	11	12	30°	15° to 30°	6 to 14
(UHKMiddl e of the Road	8 to 32 mm	5	20°	13.5	12	30°	15° to 30°	8.5 to 18
Middle of the Road	8 to 32 mm	6	20°	16.5	12	30°	15° to 30°	10 to 22

^{*}Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

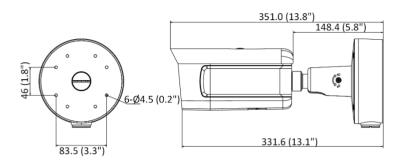


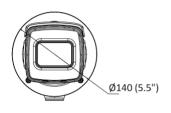
Available Model

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

Dimension

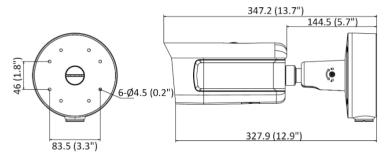
With -Y model:





Unit: mm (inch)

Without -Y model:





Unit: mm (inch)

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	Others



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