

# iDS-2CD7A26G0/P-IZHS(Y)(UHK) 2 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 2 MP resolution
- Excellent low-light performance via DarkFighter technology
- License plate recognition, size classification, color detection etc.
- Clear imaging against strong back light due to 140 dB WDR technology
- License Plate Recognition, Automatic Number Plate Recognition (ANPR) effective range: 3 to 8 meters.
- 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. Vehicle analytics for type, color, make recognition, license plate capture, driving direction detection, and motorcycle identification, no-plate vehicle capture.

**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	1920 × 1080						
	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						
	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°						
rocarterigui & rov	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						
Len Type	Motorized/Auto Iris						
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 (Detect): 45 m, O (Observe): 17.9 m, R (Recognize): 9 m, I (Identify):						
	4.5 m						
	8 to 32 mm: D (Detect): 112.7 m, O (Observe): 44.8 m, R (Recognize): 22.6 m, I						
200	(Identify): 11.3 m						
DORI	Tele:						
	2.8 to 12 mm: D (Detect): 111.8 m, O (Observe): 44.3 m, R (Recognize): 22.4 m, I						
	(Identify): 11.2 m						
	8 to 32 mm: D (Detect): 300 m, O (Observe): 119.0 m, R (Recognize): 60 m, I (Identify):						
	30 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							
Main Stream	50 Hz: 50 fps (1920 × 1080, 1280 × 960, 1280 × 720)						
Wall Stream	60 Hz: 60 fps (1920 × 1080, 1280 × 960, 1280 × 720)						
Sub-Stream	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)						
TITILU SU CAITI	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)						
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)						
i our ur su edili	60 Hz: 30 fps (704 × 480, 640 × 480)						
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)						
i iiui Su Calli	60 Hz: 30 fps (704 × 480, 640 × 480)						



	Main stream: H.265+/H.265/H.264+/H.264,						
Video Compression	Sub-stream: H.265/H.264/MJPEG,						
	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						
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						
e-PTZ	Support Patrol and Auto Tracking settings						
Audio							
Audio Type	Mono sound						
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC						
Audio Dit Data	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						
User/Host	Up to 32 users						
USEI/HUST	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						
Imaga Cattings	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						
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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.  On-screen display (OSD) overlay showing time, location, license plate number, and other details						
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: 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 (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address conflic illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration						
Smart Event	detection scene change detection,audio exception detection,defocus detection						
Sind t 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	output, trigger recording, trigger cupture, addition warriing						
beep tearning runedon	Line crossing, intrusion, region entrance, region exiting						
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)						
Termiteer Protection	Support combined event alarm triggering						
	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						
	LPR Countries/Regions:						
Road Traffic and Vehicle	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/region						
Detection	Accuracy (Under recommended installation and lighting conditions):						
	License plate recognition rate ≥98%						
	Capture rate ≥99%						
	Capture rate ≥99%  Driving direction accuracy rate ≥98%						
	Capture rate ≥99%  Driving direction accuracy rate ≥98%  Vehicle Capture Speed:						
	Capture rate ≥99%  Driving direction accuracy rate ≥98%  Vehicle Capture Speed:  Front installation in checkpoint scenario: up to 120 km/h						
	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 rate ≥99%  Driving direction accuracy rate ≥98%  Vehicle Capture Speed:  Front installation in checkpoint scenario: up to 120 km/h						



	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						
Tarking Management	Close view mode: support status detection on up to 4 parking spaces, license plate						
	recognition, parking timeout alarm, and vacant parking space alarm						
General	recognition, parking timeout diarm, and vacant parking space diarm						
Ceneral	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						
Iviaterial	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 (4.2 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). Humidity 95% of 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						
Lunguage	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 ividilagement	output alarm interfaces						
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						
EMC	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						



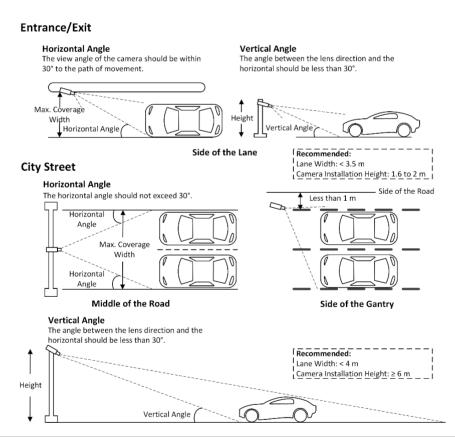
### Typical Application

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	2.8 to 12	2	20°	5.5	4.5	30°	15° to 30°	3.5 to 7.5



Lane	mm							
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
Middle 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

<sup>\*</sup>Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

#### Available Model

iDS-2CD7A26G0/P-IZHSY(UHK)(8-32mm)(C)

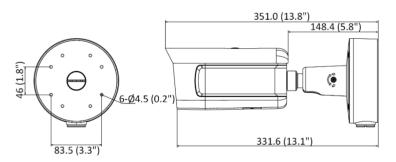
iDS-2CD7A26G0/P-IZHSY(UHK) (2.8-12mm)(C)

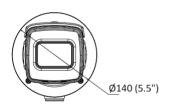
iDS-2CD7A26G0/P-IZHS(UHK) (2.8-12mm)(C)

iDS-2CD7A26G0/P-IZHS(UHK) (8-32mm)(C)

#### Dimension

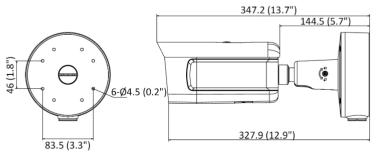
With -Y model:

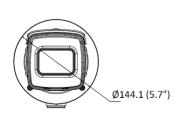




Unit: mm (inch)

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
	U	Ann		

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