

iDS-2CD7A45G2/P-IZHS(Y) 4MP DeepinView ANPR Moto Varifocal Bullet 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 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 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in heater to ensure clear image under rainy or snowy weather
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- License plate recognition and vehicle attribution recognition



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.



Specification

Camera					
Image Sensor	1/2.7" Progressive Scan CMOS				
Max. Resolution	2688 × 1520				
Min. Illumination	Color:0.005 Lux @ (F1.6, AGC ON),B/W: 0.0018 Lux @ (F1.6, AGC ON),B/W: 0 Lux wit IR				
Shutter Time	1 s to 1/100,000 s				
Day & Nicht	IR cut filter,				
Day & Night	Blue glass module (less ghost phenomenon)				
Lens					
Lens Type	Varifocal lens, motorized lens, 4.7 to 118 mm				
Focal Length & FOV	4.7 to 118 mm, horizontal FOV 55.8° to 2.8°, vertical FOV 32.3° to 1.6°, diagonal FO 63.3° to 3.2°				
Focus	Auto,Semi-auto,Manual				
Iris Type	P-iris				
Aperture	4.7 to 118 mm: F1.6 to F3.8				
DORI					
DORI	 4.7 to 118 mm: D (Detect): 2200.0 m, O (Observe): 873.0 m, R (Recognize): 440.0 m, I (Identify): 220.0 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard. 				
Illuminator					
Supplement Light Type	IR				
Supplement Light Range	4.7 to 118 mm: up to 200 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				
Video					
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: up to 60 fps (2688 × 1520, 1920 × 1080, 1280 × 720) *High frame rate is supported under monitoring mode only. smart mode: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 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)				
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 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, Third stream: H.265/H.264,				
Fourth stream: H.265/H.264/MJPEG,				
Fifth stream: H.265/H.264/MJPEG				
32 Kbps to 8 Mbps				
Baseline Profile, Main Profile, High Profile				
Main Profile				
CBR,VBR				
H.264 and H.265 encoding				
4 fixed regions for each stream				
Yes				
Support Patrol and Auto Tracking settings				
Mono sound				
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				
(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)				
8 kHz/16 kHz/32 kHz/48 kHz				
Yes				
TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,				
PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour,				
SSL/TLS, ARP, WebSocket, WebSockets				
Up to 20 channels				
ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)				
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				
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),				
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Together with high-end Hikvision memory card, memory card encryption and health				
detection are supported.				
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Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
Privacy Mask	8 programmable polygon privacy masks				
SNR	≥ 52 dB				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit 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				
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)				
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
Audio	input impedance: 4.7 K Ω , interface type: non-equilibrium,				
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,				
	output impedance: 100 Ω , interface type: non-equilibrium, mono sound				
RS-485	-Y: 1 RS-485 (Halfduplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				
Reset Key	Yes				
Power Output	-Y: 12 VDC, max. 100 mA				
Wiegand	-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)				
Event					
	Motion detection (support alarm triggering by specified target types (human and				
Basic Event	vehicle)), video tampering alarm, video quality diagnosis, exception (network				
Dasic Eveni	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD				
	error), vibration detection				
Smart Event	scene change detection, audio exception detection, defocus detection				
. Universit	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 (human and vehicle)				
	Support combined event alarm triggering				
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exitin detection, road traffic				



	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/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			
General				
	With -Y:			
	three-core terminal block,			
	12 VDC ± 20%, 1.85A, max. 22.2W,			
	24 VAC ± 20%, 1.65A, max. 21.7 W,			
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.43 A, max. 24.2 W			
	Without -Y:			
	three-core terminal block,			
	12 VDC ± 20%, 1.75A, max. 21W,			
	24 VAC ± 20%, 1.55A, max. 20.5 W,			
NAstau: al	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.43 A, max. 23 W			
Material	Aluminum alloy body			
Dimension	With -Y: Ø140 mm × 377.4 mm (Ø5.5" × 14.9"), Without -Y: Ø144.1 mm × 374.7 mm			
	(Ø5.7" × 14.8")			
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2350 g (5.18 lb.)			
With Package Weight	Approx. 3467 g (7.65 lb.)			
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Startup and Operating	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Conditions				
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,			
Concernel Franchiser	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
General Function	Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log			
Heater	Yes			
De-icing	Yes			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces			



Approval			
	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC		
	61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,		
EMC	RCM: AS/NZS CISPR 32: 2015,		
	IC: ICES-003: Issue 7,		
	KC: KN32: 2015, KN35: 2015		
	CB: IEC 62368-1:2014+A11,		
Safety	CE-LVD: EN 62368-1:2014/A11:2017,		
Salety	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.

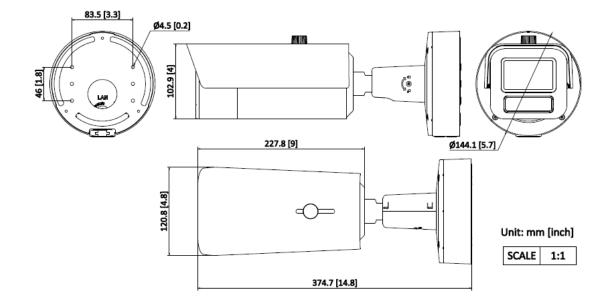
Level	Description
	Hikvision products at this level are equipped for use in
Top lovel protection	areas where professional anti-corrosion protection is a
Top-level protection	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate protection	application scenarios include coastal areas about 2
	kilometers (1.24 miles) a way from coastlines, as well as
	areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in
No specific protection	areas where no specific anti-corrosion protection is needed.

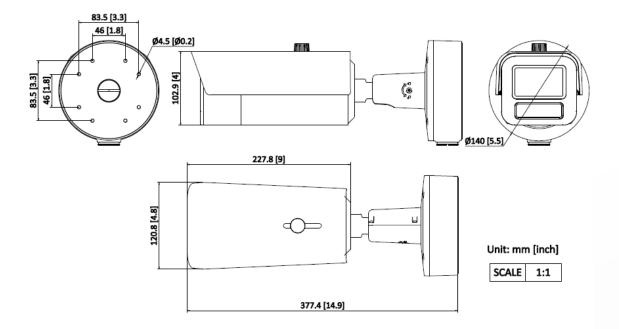
Available Model

iDS-2CD7A45G2/P-IZHS(4.7-118mm) iDS-2CD7A45G2/P-IZHSY(4.7-118mm)



Dimension

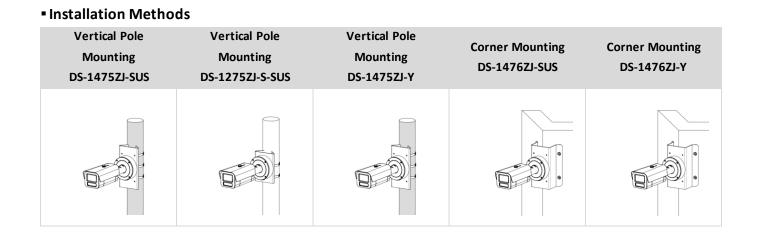




- Accessory
- Optional

DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1275ZJ-S-SUS	DS-1475ZJ-Y	DS-1476ZJ-Y
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See Far, Go Further



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