

iDS-2CD7A45G2/P-IZHS(Y) 4MP DeepinView ANPR Moto Varifocal Bullet 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 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 with IR					
Shutter Time	1 s to 1/100,000 s					
Day & Night	IR cut filter,					
Day & Night	Blue glass module (less ghost phenomenon)					
Lens						
Lens Type	Varifocal lens, motorized lens, 4.7 to 118 mm					
Focal Longth 9 FOV	4.7to 118mm, horizontal FOV 55.8° to 2.8°, vertical FOV 32.3° to 1.6°, diagonal FOV					
Focal Length & FOV	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						
	4.7 to 118 mm:					
	D (Detect): 2200.0 m, O (Observe): 873.0 m, R (Recognize): 440.0 m, I (Identify): 220.0					
DORI	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						
	Monitoring mode:					
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)					
	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)					
Main Stream	*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)					
Cult Characa	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)					
Sub-Stream	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)					
	33 23 37 37 37 37					
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 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						
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/48 kHz					
Environment Noise Filtering	Yes					
Network						
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,					
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS					
FIULUCUIS	ARP, WebSocket, WebSockets					
Simultaneous Live View	Up to 20 channels					
API	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)					
Al I	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					
Cocurity	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network					
Security	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					
Notwork Starage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),					
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health					
Clinat	detection are supported.					
Client	iVMS-4200,Hik-Connect,Hik-Central					
M/ala Duanna	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 Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable					
	by client software or web browser					
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger					
Wide Dynamic Range (WDR)	150 dB					



Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
SNR	≥ 52 dB				
Privacy Mask	8 programmable polygon privacy masks				
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 (Half duplex, 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				
Dania Frank	vehicle)), video tampering alarm, video quality diagnosis, exception (network				
Basic Event	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD				
	error), vibration detection				
Smart Event	scene change detection, audio exception detection, defocus detection				
1. 1	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 exiting				
	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			
Road Traffic and Vehicle	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			
General				
	With -Y:			
	three-core terminal block,			
	12 VDC ± 20%, 1.85A, max. 22.2W,			
	24 VAC ± 20%, 1.65A, max. 21.7 W,			
	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			
Power	Without -Y:			
	three-core terminal block,			
	12 VDC ± 20%, 1.75A, max. 21W,			
	24 VAC ± 20%, 1.55A, max. 20.5 W,			
	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	Ø140 mm × 378.4 mm (Ø5.5" × 14.9")			
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				
Conditions	-40 °C to 65 °C (-40 °F to 149 °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,			
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
	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 De-icing	Yes			
	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			
Device Management	output alarm interfaces			



Approval				
EMC	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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015			
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005, LOA: IEC/EN 60950-1			
Environment	CE-RoHS: 2011/65/EU, 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			
AE专用				
ROM和RAM	4GB LPDDR4X, 8GB EMMC			

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.

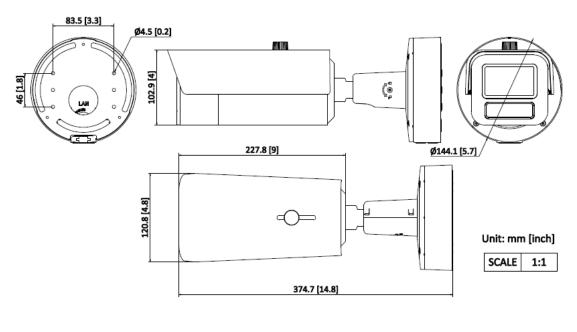
Level	Description		
	Hikvision products at this level are equipped for use in areas		
Top-level protection	where professional anti-corrosion protection is a must.		
rop-level protection	Typical application scenarios include coastlines, docks,		
	chemical plants, and more.		
	Hikvision products at this level are equipped for use in areas		
	with moderate anti-corrosion demands. Typical application		
Moderate protection	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		
No specific protection	where no specific anti-corrosion protection is needed.		

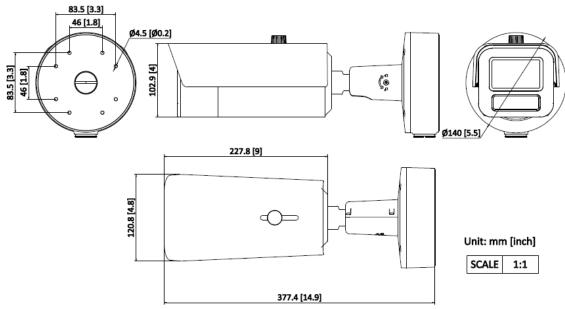
Available Model

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



Dimension







Accessory

Optional

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount
		(B	non.	



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

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