

iDS-2CD7A86G2/P-IZHS(Y)/4G 8MP 4G 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 8 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong backlight due to 140 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 8MP@60fps and 2MP@120fps
- 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	1/1.8" Progressive Scan CMOS				
Max. Resolution	3840 × 2160				
Min. Illumination	Color: 0.0008 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, 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					
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58.1° to 23.1°, diagonal FOV 137.4° to 47.3° 8 to 32 mm, horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7° to 17.1° 10 to 50 mm, horizontal FOV 40.8° to 9.1°, vertical FOV 22.7° to 5.2°, diagonal FOV				
	47.1° to 10.4°				
Focus	Auto,Semi-auto,Manual				
Iris Type	P-iris P-iris				
Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73, 10 to 50 mm: F1.38-F1.56				
DORI					
DORI	Wide: 2.8 to 12 mm: D (Detect): 87 m, O (Observe): 34.5 m, R (Recognize): 17.4 m, I (Identify): 8.7 m 8 to 32 mm: D (Detect): 218 m, O (Observe): 86.5 m, R (Recognize): 43.6 m, I (Identify): 21.8 m 10 to 50 mm: D (Detect): 218 m, O (Observe): 86.5 m, R (Recognize): 43.6 m, I (Identify): 21.8 m Tele: 2.8 to 12 mm: D (Detect): 216 m, O (Observe): 85.7 m, R (Recognize): 43.2 m, I (Identify): 21.6 m 8 to 32 mm: D (Detect): 580 m, O (Observe): 230.2 m, R (Recognize): 116 m, I (Identify): 58 m 10 to 50 mm: D (Detect): 922 m, O (Observe): 365.9 m, R (Recognize): 184.4 m, I (Identify): 92.2 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	2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m; 10 to 50 mm: Monitoring: 100 m				
Smart Supplement Light	Yes Yes				
IR Wavelength	850 nm				



HEOP					
Memory: 150 MB,					
Open Resources	Smart RAM: 2200 MB,				
	eMMC: 1288 MB				
Computing Power	5 TOPS				
Open Capability	HEOP 2.0 OpendevSDK				
Deep Learning Structure	Caffe,PyTorch,TensorFlow				
Programming Language	C,C++				
Video					
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (3840 \times 2160, 3072 \times 1728, 2688 \times 1520, 1280 \times 720), up to 100 fps (1920 \times 1080) 60 Hz: up to 60 fps (3840 \times 2160, 3072 \times 1728, 2688 \times 1520, 1280 \times 720), up to 120 fps (1920 \times 1080) *High frame rate is supported under monitoring mode only.				
	smart mode: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 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)				
Video Compression	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				
Video Bit Rate	32 Kbps to 16 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				
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/48 kHz				
Environment Noise Filtering	Yes				



Network					
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket, WebSockets, MQTT/MQTTS, Support X.509 authentication, Support802.1xEAP-GTC and MSCHAP V2; 802.1xEAP 1.2 supports a maximum 32-bit key.				
Simultaneous Live View	Up to 20 channels				
API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)				
User/Host	Up to 32 users 3 user levels: administrator, operator, and user				
Security	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				
Smooth Streaming	Yes				
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
Client	iVMS-4200,Hik-Connect,Hik-Central				
Web Browser	Plug-in required live view: IE 10, IE 11, 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+				
Mobile Communication					
Standard	LTE-TDD/LTE-FDD/WCDMA/GSM				
Frequency	/LA: LTE-TDD: Band38/40 LTE-FDD: Band1/2/3/4/5/7/8/12/17/28/66 WCDMA: Band1/2/3/4/5/8 GSM: 850/900/1800/1900 MHz other: LTE-TDD: Band38/40/41 LTE-FDD: Band1/3/5/7/8/20/28 WCDMA: Band1/5/8 GSM: 850/900/1800 MHz				
SIM Card Type	Nano SIM				
Image					
Image Parameters Switch	Yes				
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by clients of tware or web browser				
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger,Video Trigger				
Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
SNR	≥ 52 dB				
Privacy Mask Picture Overlay	8 programmable polygon privacy masks LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.				
ricture Overlay	1000 picture carrie overraru orivideo 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,				
	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: 100Ω , 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				
	vehicle)),video tampering alarm,exception (network disconnected, IP address conflict,				
Basic Event	illegal login, HDD full, HDD error), glass break detection, scream detection, guns hot and				
	explosion sound detection, crying sound detection				
	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection				
	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)				
	Support combined event alarm triggering				
	Intrusion detection, line crossing detection, region entrance detection, region exiting				
Metadata	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				
Road Traffic and Vehicle Detection	Blocklist and allowlist: up to 10,000 records				
	LPR Countries/Regions:				
	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/region				
	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				



	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	l w			
	-Y:			
	three-core terminal block,			
Dower	12 VDC ± 20%, 1.95 A, max. 23.4 W,			
Power	24 VAC ± 20%, 1.66 A, max. 23.8 W,			
	Without -Y:			
	12 VDC ± 20%, 1.91 A, max. 22.9 W, 24 VAC ± 20%, 1.45 A, max. 22.9 W,			
Material	Aluminum alloy body			
Material	· · ·			
Dimension	With -Y: \emptyset 140 mm × 377.4 mm (\emptyset 5.5" × 14.9"), Without -Y: \emptyset 144.1 mm × 374.7 mm (\emptyset 5.7" × 14.8")			
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2330 g (5.14 lb.)			
With Package Weight	Approx. 3575 g (7.88 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 °E to 149 °F) Humidity 95% or less (non-condensing)			
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,			
201160060	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			
Demist	Yes			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and output alarminterfaces			
Integrated Connector Panel	-Y: No			
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,			
	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	-Y: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-level protection	areas where professional anti-corrosion protection is a		
Top-rever 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) away 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-2CD7A86G2/P-IZHS/4G(10-50)(B)OSTD/LA

iDS-2CD7A86G2/P-IZHS/4G(10-50mm)(B)O-STD

iDS-2CD7A86G2/P-IZHS/4G(8-32mm)(B)O-STD

iDS-2CD7A86G2/P-IZHS/4G(2.8-12mm)(B)OSTD

iDS-2CD7A86G2/P-IZHS/4G(2.8-12)(B)OSTDLA

iDS-2CD7A86G2/P-IZHS/4G(8-32)(B)O-STD/LA

iDS-2CD7A86G2/P-IZHS/4G(2.8-12mm)(B)ONEU

iDS-2CD7A86G2/P-IZHSY/4G(1050)(B)OSTD/LA

iDS-2CD7A86G2/P-IZHSY/4G(2812)(B)OSTD/LA

iDS-2CD7A86G2/P-IZHSY/4G(2.8-12)(B)O-STD

iDS-2CD7A86G2/P-IZHSY/4G(10-50mm)(B)OSTD

iDS-2CD7A86G2/P-IZHSY/4G(8-32)(B)O-STD

iDS-2CD7A86G2/P-IZHSY/4G(8-32)(B)OSTD/LA

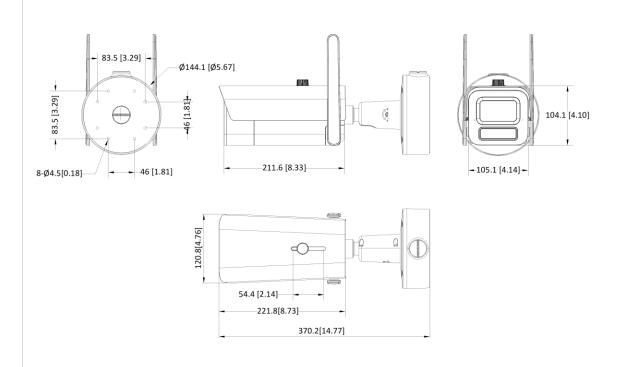
Dimension



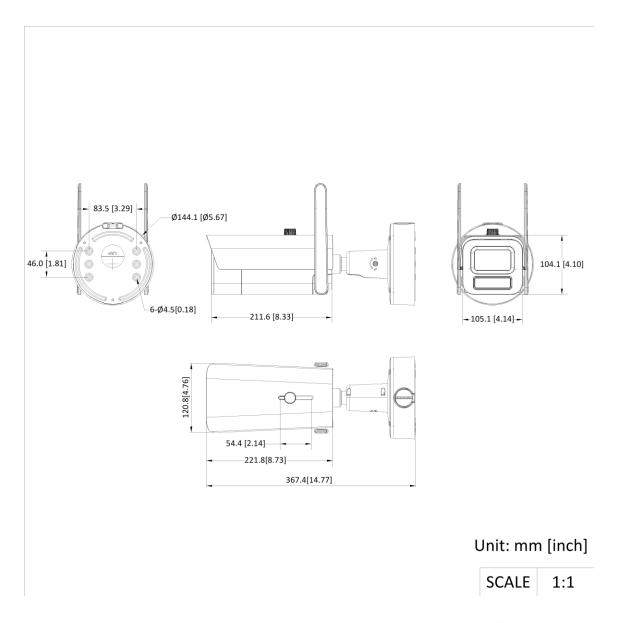
Unit: mm [inch]

1:1

SCALE







Accessory

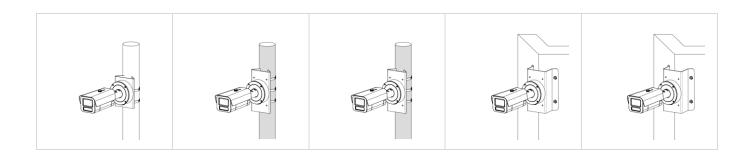
Optional

DS-1275ZJ-S-SUS	DS-1475ZJ-SUS	DS-1475ZJ-Y	DS-1476ZJ-SUS	DS-1476ZJ-Y
B				

Installation Methods

Vertical Pole	Vertical Pole	Vertical Pole	Corner Mounting	Corner Mounting
Mounting	Mounting	Mounting	DS-1476ZJ-SUS	DS-1476ZJ-Y
DS-1275ZJ-S-SUS	DS-1475ZJ-SUS	DS-1475ZJ-Y	D3-14702J-303	D3-14702J-1





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