

iDS-2CD7A86G2/P-IZHS(Y)(/5G) 8MP 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 back light 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

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) Shutter Time 1 s to 1/100,000 s Day & Night IR cut filter, Blue glass module (less ghost phenomenon)	
Min. IlluminationColor: 0.0008 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON) with IRShutter Time1 s to 1/100,000 sDay & NightIR cut filter, Blue glass module (less ghost phenomenon)	
Min. Illuminationwith IRShutter Time1 s to 1/100,000 sDay & NightIR cut filter, Blue glass module (less ghost phenomenon)	
with IR Shutter Time 1 s to 1/100,000 s Day & Night IR cut filter, Blue glass module (less ghost phenomenon)	', diagonal FOV
Day & Night IR cut filter, Blue glass module (less ghost phenomenon)	', diagonal FOV
Day & Night Blue glass module (less ghost phenomenon)	', diagonal FOV
Blue glass module (less ghost phenomenon)	', diagonal FOV
lens	', diagonal FOV
Lens	', diagonal FOV
2.8 to 12 mm, horizontal FOV 104° to 41.2°, vertical FOV 54.2° to 23.1°	
Focal Length & FOV	
8 to 32 mm, horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, dia	gonal FOV 48.7°
to 17.1°	
Focus Auto,Semi-auto,Manual	
Iris Type P-iris	
Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73	
DORI	
Wide:	
2.8 to 12 mm: D (Detect): 87 m, O (Observe): 34.5 m, R (Recognize): 17	7.4 m, l
(Identify): 8.7 m	
8 to 32 mm: D (Detect): 218 m, O (Observe): 86.5 m, R (Recognize): 43	.6 m, l (ldentify):
21.8 m	
DORI Tele:	
2.8 to 12 mm: D (Detect): 216 m, O (Observe): 85.7 m, R (Recognize): 4	13.2 m, l
(Identify): 21.6 m	
8 to 32 mm: D (Detect): 580 m, O (Observe): 230.2 m, R (Recognize): 1	16 m, l
(Identify): 58 m	
The DORI values are calculated using pixel densities for different use ca	ases as
recommended by the EN 62676-4 standard.	
Illuminator	
Supplement Light Type IR	
Supplement Light Range2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m	
Smart Supplement Light Yes	
IR Wavelength 850 nm	
Video	
Monitoring mode:	
50 Hz: up to 50 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 72	.0), up to 100 fps
(1920 × 1080)	
60 Hz: up to 60 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 72	.0), up to 120 fps
Main Stream (1920 × 1080)	
*High frame rate is supported under monitoring mode only.	
smart mode:	
50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 12	
60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 12	280 × 720)



	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)			
	50 Hz: 25 fps (1200 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 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,			
	Fourth stream: H.265/H.264/MJPEG,			
	Fifth stream: H.265/H.264/MJPEG			
Video Bit Rate	32 Kbps to 16 Mbps			
Н.264 Туре	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	Support Patrol and Auto Tracking Settings			
Audio Type	Mono cound			
	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			
Audia Compling Data	(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	TOD UD LOND LITTO LITTOS FTD SETD DUCD DNS DDNS SDTD DTD DTSD DTSD			
Ductocclo	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,			
Circulture and Line Minut	SSL/TLS, ARP, WebSocket, WebSockets			
Simultaneous Live View	Up to 20 channels			
API	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)			
User/Host	Up to 32 users			
	3 user levels: administrator, operator, and user			
	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Consulta	(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+			
Mobile Communication				
Standard	-5G: 5G NR/LTE-FDD/LTE-TDD			
	-5G:			
	5G NR: n41/n77/n78/n79			
Frequency	LTE-FDD: B1/B3/B5/B8			
	LTE-TDD: B38/39/B40/B41			
SIM Card Type	-5G: Micro SIM			
Image				
Image Parameters Switch	Yes			
	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, 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			
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog			
SNR	\geq 52 dB			
Privacy Mask	 2 52 dB 8 programmable polygon privacy masks 			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.			
Image Stabilization				
Interface	EIS			
	(1)/(2) = (2)/(2)/(2)/(2)/(2)/(2)/(2)/(2)/(2)/(2)/			
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 KΩ, interface type: non-equilibrium,			
	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			
Basic Event	vehicle)), video tampering alarm, video quality diagnosis, exception (network			
Dasie 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			
Linkago	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)			



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 Detection	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		
General			
	without -5G:		
	three-core terminal block,		
	12 VDC ± 20%, 2.06 A, max. 24.7 W,		
	24 VAC ± 20%, 1.68 A, max. 23.4 W,		
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.59 A to 0.44 A, max. 24.7 W,		
	-5G:		
	three-core terminal block,		
	12 VDC ± 20%, 2.06 A, max. 24.7 W,		
	24 VAC ± 20%, 1.68 A, max. 23.4 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		
Dimension	(Ø5.7" × 14.8")		
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")		
Weight	Approx. 2170 g (4.78 lb.)		
With Package Weight	Without -Y: Approx. 3364 g (7.42 lb.), -Y: Approx. 3275 g (7.22 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			
	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,		
Concerned From others	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 6 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			

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.

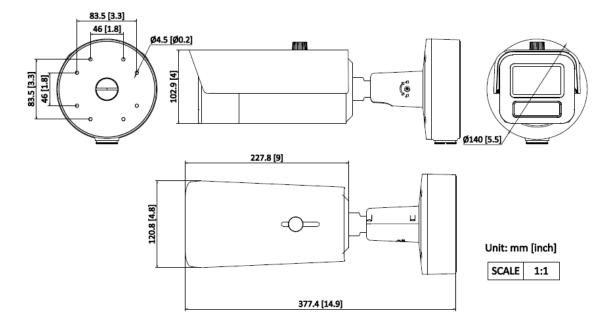
Level	Description		
	Hikvision products at this level are equipped for use in areas		
Top lovel protection	where professional anti-corrosion protection is a must.		
Top-level protection	Typical application scenarios include coastlines, docks,		
	chemical plants, and more.		
	Hikvision products at this 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.		

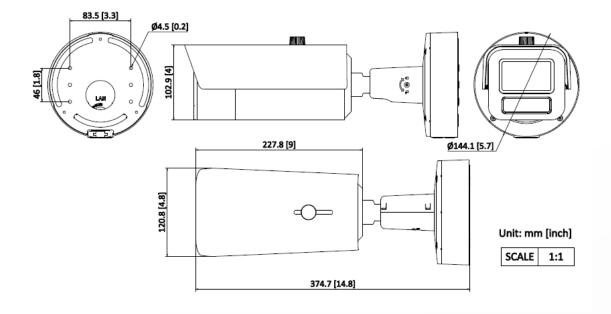
Available Model

iDS-2CD7A86G2/P-IZHSY(2.8-12mm) iDS-2CD7A86G2/P-IZHSY(8-32mm) iDS-2CD7A86G2/P-IZHS(2.8-12mm) iDS-2CD7A86G2/P-IZHS(8-32mm) iDS-2CD7A86G2/P-IZHSY/5G(2.8-12mm) iDS-2CD7A86G2/P-IZHSY/5G(8-32mm) iDS-2CD7A86G2/P-IZHS/5G(2.8-12mm) iDS-2CD7A86G2/P-IZHS/5G(8-32mm)

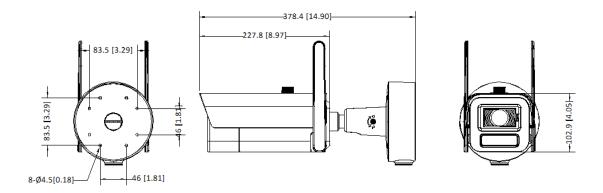


Dimension





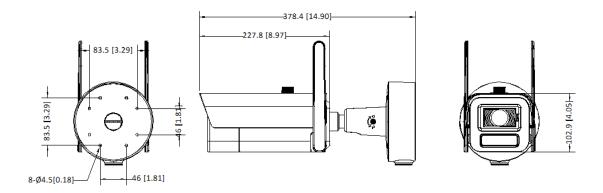




Unit: mm [inch]

SCALE 1:1





Unit: mm [inch]

SCALE 1:1



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
	U	i B		

See Far, Go Further



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