

iDS-2CD7A46G2-IZHS(Y)(1T)(/5G) 4MP DeepinView 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)
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built in 1 TB SSD for edge storage (optional)
- Built-in heater to ensure clear image under rainy or snowy weather
- Built-in G-sensor for vibration detection
- Built-in power meter for voltage exception alarm and historical power statistics



Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.



Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	2688 × 1520				
Min. Illumination	Color: 0.0005 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					
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional				
Focal Length & FOV	 2.8 to 12 mm, horizontal FOV 106° to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV 130° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 				
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					
DORI	2.8 to 12 mm: D (Detect): 149.0 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I (Identify): 14.9 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m				
Illuminator					
Supplement Light Type	IR				
Supplement Light Range	2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				
Video					
Main Stream	50 Hz: 100 fps (1920 × 1080) 50 fps (2688 × 1520, 2560 × 1440, 1280 × 720) 60 Hz: 120 fps (1920 × 1080) 60 fps (2688 × 1520, 2560 × 1440, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (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)				



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	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,				
video compression	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)					
Region of Interest (ROI)	H.264 and H.265 encoding				
Target Cropping	4 fixed regions for each stream				
e-PTZ	Yes				
-	Support Patrol and Auto Tracking settings				
Audio	Mana assured				
Audio Type					
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					
	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, 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				
0000711000	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				
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				



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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					
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				
	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB,				
On-Board Storage	With -1T: Built-in 1 TB SSD storage (1 TB device model supports)				
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)				
AldIII					
	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,				
	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	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				
Event					
	Motion detection (support alarm triggering by specified target types (human and				
	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				
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
	Supports simultaneous detection and capture of human body, face, and vehicle,				
	Gets 7 face features,				
	Gets 13 human body features,				
Multi-target-type Detection	Gets 2 vehicle features,				
	Supports counting the number of line crossing targets by type, including human body,				
	non-motor vehicle, motor vehicle,				
	Supports dynamic mosaic mask				
	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame				
	simultaneously and uploads up to 10 face pictures per second,				
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,				
Face Capture					
	Uploads face with background and closed-up face pictures,				
	Supports best shot and quick shot for capture mode,				
	Supports dynamic mosaic mask,				
	Gets 7 face features				
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,				
·	Supports face library encryption				
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting				
	Support alarm triggering by specified target types (human and vehicle)				
	Support combined event alarm triggering				



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General						
	IZHS(Y)(/5G):					
	three-core terminal block,					
	12 VDC ± 20%, 2.38 A, max. 28.56 W,					
	24 VAC ± 20%, 2.04 A, max. 28.01 W,					
Power	-IZHS(Y) & -IZHS(Y)(1T):					
Tower	three-core terminal block,					
	12 VDC ± 20%, 1.88 A, max. 22.56 W,					
	24 VAC ± 20%, 1.57 A, max. 21.5 W,					
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.6 W					
Material	Aluminum alloy body					
Dimension						
Package Dimension	Ø140 mm × 378.4 mm (Ø5.5" × 14.9") 425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")					
Weight	Approx. 2170 g (4.78 lb.)					
With Package Weight	With -Y: 3275 g (7.22 lb.),					
	Without -Y: 3364 g (7.42 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,					
Language	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 6					
Device Management	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					
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.

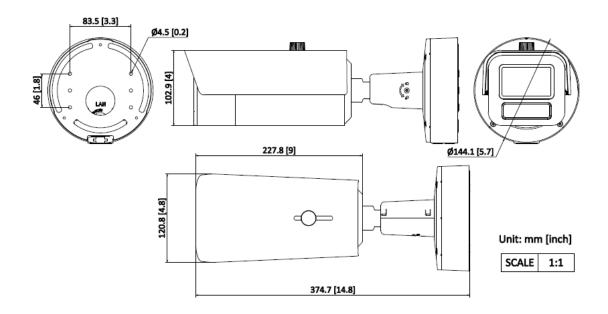
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

Level	Description		
	Hikvision products at this level are equipped for use in		
Top-level protection	areas where professional anti-corrosion protection is a		
	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.		

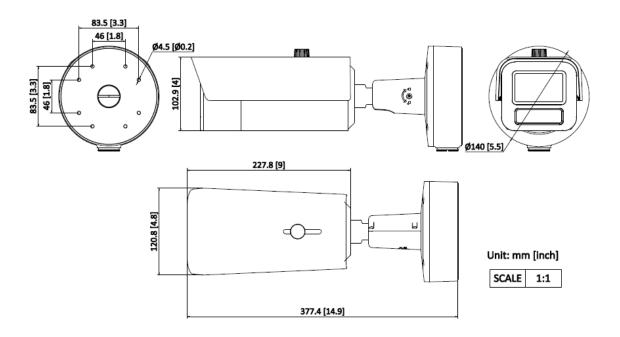
Available Model

iDS-2CD7A46G2-IZHS(1T)(2.8-12mm) iDS-2CD7A46G2-IZHS(1T)(8-32mm) iDS-2CD7A46G2-IZHSY(2.8-12mm) iDS-2CD7A46G2-IZHSY(8-32mm) iDS-2CD7A46G2-IZHS(2.8-12mm) iDS-2CD7A46G2-IZHSY(1T)(2.8-12mm) iDS-2CD7A46G2-IZHSY(1T)(8-32mm)

Dimension



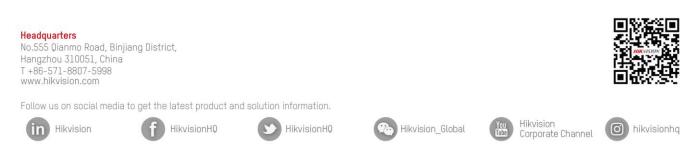




Accessory

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
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