

iDS-2CD7A46G2/LM-IZHS(Y) 4MP DeepinViewX Moto Varifocal Bullet Camera



DeepinView X















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 DarkFighter2.0 technology
- Clear imaging against strong back light due to 150 dB WDR 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)
- Built-in heater to ensure clear image under rainy or snowy weather
- Supports Guanlan large model algorithms, license plate recognition, vehicle attribute analysis, perimeter protection, AIOP with built-in PPE detection model
- Capable of loading trained large model algorithm packages from the AI training platform



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 allow list are available for plate categorization and separate alarm triggering.



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,0 Lux with light			
Shutter Time	1 s to 1/100,000 s			
Day & Night	IR cut filter, Blue glass module (less ghost phenomenon)			
Lens				
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 112.5° to 47.7°, vertical FOV 58.2° to 26.7°, diagonal FO 138.2° to 54.8° 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: F1.4 to F2.1 8 to 32 mm: F1.7 to F1.7			
DORI				
DORI	Wide: 2.8mm to 12mm: D (Detect): 60.7 m, O (Observe): 24.1 m, R (Recognize): 12.1 m, I (Identify): 6.1 m 8mm to 32mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m Tele: 2.8mm to 12mm: D (Detect): 128.3 m, O (Observe): 50.9 m, R (Recognize): 25.7 m, I (Identify): 12.8 m 8mm to 32mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 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			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			



AI Open Platform	
	1. Up to 3 models. Model type: detection model, classification model, mixed model
	(detection model and classification model).
	2. Supports video analysis (detection, classification, mixed, OCR, segmentation,
	comparison) and scheduled capture analysis (classification).
	(1) Detection: Region target exception status detection, line crossing target detection,
	line crossing target counting, region target number counting, full analysis rule,
	combined rule, area overlap ratio counting, area overlap ratio exception detection.
	(2) Classification: Region exception status detection, full analysis rule.
	(3) Mixed: Region target exception status detection, line crossing target detection, line
Model Specification	crossing target counting, region target number counting, full analysis rule, combined
Woder Specification	rule; area overlap ratio counting, area overlap ratio exception detection.
	(4) Picture Comparison: Area status change detection.
	(5) OCR: OCR-triggered capture.
	(6) OVD: Region target exception status detection, line crossing target detection, line
	crossing target counting, region target number counting, full analysis rule, combined
	rule, area overlap ratio counting, area overlap ratio exception detection.
	3. Supports 4 model packages, each capable of detecting 16 target types and
	classifying 4 targets. The targets can be classified as 64 types. The device runs only 1
	model at the same time.
Vida	4. Built-in models for PPE detection (hard hat and reflective clothing).
Video	50 Hz:25 fps(2688 × 1520,2560 × 1440,1920 × 1080,1280 × 720)
Main Stream	60 Hz:30 fps(2688 × 1520,2560 × 1440,1920 × 1080,1280 × 720)
	50 Hz: 25 fps (704 × 576, 640 × 480)
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)
	50 Hz:25 fps(1920 × 1080,1280 × 720,704 × 576,640 × 480)
Third Stream	60 Hz:30 fps(1920 × 1080,1280 × 720,704 × 480,640 × 480)
	Main stream: H.265+/H.265/H.264+/H.264,
Video Compression	Sub-stream: H.265/H.264/MJPEG,
,	Third stream: H.265/H.264
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	No
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 Dit Poto	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				
Drotocole	IPv6,RTP,ICMP,PPPoE,DNS,WebSocket,TCP/IP,SSL/TLS,HTTPS,RTSP,IGMP,SNMP,NTP,S			
Protocols	MTP,WebSockets,SFTP,UPnP,DHCP,802.1X,IPv4,FTP,UDP,QoS,RTCP,HTTP,DDNS			
Simultaneous Live View	Up to 20 channels			
API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)			
	Up to 32 users			
User/Host	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, CC EAL4+), 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 clients of tware 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			
Built-in Microphone	2 built-in microphones			
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)			
Built-in Speaker	1 built-in speaker,Max. power consumption: 1.5 W			
Audio	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, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Voutput impedance: 100Ω , 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: 12VDC,max.100mA,External extension cord less than 10 meters.			



Event					
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, video quality diagnosis, exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error), vibration detection				
Smart Event	scene change detection, audio exception detection, defocus detection, unattended baggage detection, loitering detection, object removal detection, people gathering detection, fast moving detection, parking detection				
Linkage	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm 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 and Vehicle Detection	Accuracy (under recommended installation and lighting conditions) Capture rate > 98% Vehicle moving direction recognition accuracy > 96% Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint) Blocklist and allowlist: up to 10000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (Cit Street mode is recommended.)				
General					
Power	three-core terminal block, -Y: 12 VDC ± 20%, 2.08 A, max. 24.95 W, 24 VAC ± 20%, 1.52 A, max. 24.05 W, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.58 A to 0.44 A, max. 24.95 W without Y: 12 VDC ± 20%, 1,97 A, max. 23.6 W, 24 VAC ± 20%, 1.46 A, max. 22.84 W, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.55 A to 0.42 A, max. 23.6 W				
Material	Aluminum alloy body				
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. 2280 g (5.03 lb.)				
With Package Weight	Without -Y: Approx. 3364 g (7.42 lb.), -Y: Approx. 3406 g (7.5 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,				
Laurence	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				
Davisa Managament	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6				
Device Management	output alarminterfaces				
Integrated Connector Panel	-Y: No				
Approval					
	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC				
EMC	61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,				
	RCM: AS/NZS CISPR 32: 2015				
	CB: IEC 62368-1:2014+A11,				
Safety	CE-LVD: EN 62368-1:2014/A11:2017,				
	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)				
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-2CD7A46G2/LM-IZHSY(2.8-12mm) iDS-2CD7A46G2/LM-IZHSY(8-32mm) iDS-2CD7A46G2/LM-IZHS(2.8-12mm)

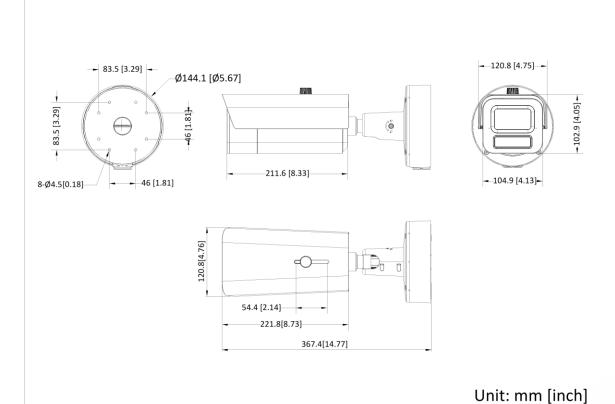


SCALE

1:1

iDS-2CD7A46G2/LM-IZHS(8-32mm)

Dimension



Accessory

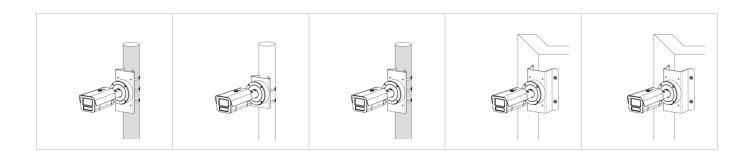
Optional

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

Installation Methods

Vertical Pole	Vertical Pole	Vertical Pole	Corner Mounting	Corner Mounting
Mounting	Mounting	Mounting	DS-1476ZJ-SUS	DS-1476ZJ-Y
DS-1475ZJ-SUS	DS-1275ZJ-S-SUS	DS-1475ZJ-Y	D3-14702J-303	D3-1470ZJ-1





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