

HIKVISIO

iDS-2CD7A46G0/P-IZHSY(8-32mm)/UHK 4 MP ANPR IR Varifocal Bullet Network 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 technology
- Clear imaging against strong back light due to 140 dB WDR technology
- License Plate Recognition
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)



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Specification

Camera		
Image Sensor	1/1.8" Progressive Scan CMOS	
Max. Resolution	2688 × 1520	
	Color: 0.0005 Lux @ (F1.2, AGC ON);	
Min. Illumination	B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR	
Shutter Time	1 s to 1/100,000 s	
	IR cut filter	
Day & Night	Blue glass module to reduce ghost phenomenon	
Lens		
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal	
Focal Longth 9 FOV	FOV: 141.1° to 48°	
Focal Length & FOV	8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV:	
	49.6° to 17.3°	
Focus	Auto,Semi-auto,Manual	
Iris Type	P-iris	
Aporturo	2.8 to 12 mm: F1.2 to F2.5	
Aperture	8 to 32 mm: F1.7 to F1.73	
DORI		
	Wide:	
	2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify):	
	6 m	
	8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I	
DORI	(Identify): 15 m	
DONI	Tele:	
	2.8 to 12 mm: D (Detect): 149 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: 50 m	
	8 to 32 mm: 100 m	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
Video		
Main Stream	50 Hz:	
	25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)	
	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)	
	60 Hz:	
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)	
	60 fps (2560 × 1440, 1920 × 1080, 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)	



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	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/H.264M/H.264H,	
	Fourth stream: H.265/H.264/MJPEG/H.264B,	
	Fifth stream: H.265/H.264/MJPEG	
Video Bit Rate	32 Kbps to 8 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		
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/44.1 kHz/48 kHz	
Environment Noise Filtering	Yes	
Network		
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,	
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS,	
	WebSocket, WebSockets	
Simultaneous Live View	Up to 20 channels	
API	Open Network Video Interface (Profile S, Profile G, Profile T, Profile M),ISAPI,SDK,ISUP	
	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	
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network	
Network Storage	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),	
	Together with high-end Hikvision memory card, memory card encryption and health	
	detection are supported.	
Client	iVMS-4200,Hik-Connect,Hik-Central	
Circlit		
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+	
Image Image Parameters Switch		
	Yes	



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Image Settingsby client software or web browserDay/Night SwitchDay,Night,Auto,Schedule,Alarm Trigger,Video TriggerWide Dynamic Range (WDR)140 dBSNR≥ 52 dBImage EnhancementBLC,HLC,3D DNR,Distortion Correction,DefogPicture OverlayLOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.Image StabilizationEISPrivacy Mask8 programmable polygon privacy masksInterface1 Np-p Composite Output (75 Ω/CVBS) (Only for debugging)Ethernet Interface1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet portOn-Board StorageBuilt-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1AudioWith -Y: 1 input (line in), 1 output (line out), 3.5 mm connectorAlarm2 inputs, 2 outputs (max. 24 VDC, 1 A)Rs-485With -Y: 1 XP-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Reset KeyYesPower OutputWith -Y: 1 2 VDC, max. 100 mAWiegand-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)EventMotion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address con illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibra detectionSmart Eventscene change detection,audio exception detection,defocus detection			
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Wide Dynamic Range (WDR) 140 dB SNR ≥ 52 dB Image Enhancement BLC,HLC,3D DNR,Distortion Correction,Defog Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format. Image Stabilization EIS Privacy Mask 8 programmable polygon privacy masks Interface 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging) Ethernet Interface 1 R145 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 12 Addio Audio With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector Alarm 2 inputs, 2 outputs (max. 24 VDC, 1 A) RS-485 With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) Reset Key Yes Power Output With -Y: 1 VDC, max. 100 mA Wiegand -Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit) Event Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address co illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibra detection Smart Event scene change detection,audio exception detection,defocus detection Lin		by client software or web browser	
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Picture OverlayLOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.Image StabilizationEISPrivacy Mask8 programmable polygon privacy masksInterface1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)Ethernet Interface1 RI45 10 M/100 M/1000 M self-adaptive Ethernet portOn-Board StorageBuilt-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1AudioWith -Y: 1 input (line in), 1 output (line out), 3.5 mm connectorAlarm2 inputs, 2 outputs (max. 24 VDC, 1 A)RS-485With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Reset KeyYesPower OutputWith -Y: 1 2 VDC, max. 100 mAWiegand-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)EventSame change detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm, exception (network disconnected, IP address co illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibrar detectionSmart Eventscene change detection, audio exception detection, defocus detectionLinkageUpload to FTP/NAS/memory card, notify surveillance center, send email, trigger al output, trigger recording, trigger capture, audible warningDeep Learning FunctionLine crossing, intrusion, region entrance, region exiting	SNR	≥ 52 dB	
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Power OutputWith -Y: 12 VDC, max. 100 mAWiegand-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)EventBasic EventMotion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address co illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibratidetectionSmart Eventscene change detection,audio exception detection,defocus detectionLinkageUpload to FTP/NAS/memory card,notify surveillance center,send email,trigger aloutput,trigger recording,trigger capture,audible warningDeep Learning FunctionLine crossing, intrusion, region entrance, region exiting	RS-485	With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)	
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Linkage output,trigger recording,trigger capture,audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Smart Event	scene change detection, audio exception detection, defocus detection	
Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Linkago	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm	
Line crossing, intrusion, region entrance, region exiting	Linkage	output, trigger recording, trigger capture, audible warning	
	Deep Learning Function		
Perimeter Protection Support alarm triggering by specified target types (human and vehicle)		Line crossing, intrusion, region entrance, region exiting	
	Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)	
Support combined event alarm triggering		Support combined event alarm triggering	



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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	
LPR Countries/Regions:	
4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions	
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	
Intrusion detection, line crossing detection, region entrance detection, region exiting	
detection,road traffic	
Support distant view mode and close view mode	
Distant view mode: support status detection on up to 40 parking spaces, parking	
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	
12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block	
PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.396 A to 0. 295 A, max. 16.8 W	
Aluminum alloy body	
Without -Y: Ø144 mm × 347 mm (Ø5.7" × 13.7")	
With -Y: Ø140 mm × 351 mm (Ø5.5" × 13.8")	
405 mm × 190 mm × 180 mm (15.9" × 7.5" × 7.1")	
Approx. 1950 g (4.2 lb.)	
Approx. 1950 g (4.2 lb.) Approx. 3070 g (6.7 lb.)	
-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
-50 C to 60 C (-22 F to 140 F). Humaity 55% of less (non-condensing)	
-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)	
33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,	
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	
Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter	
Yes	
Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6	



Approval		
EMC	FCC: 47 CFR Part 15, Subpart B,	
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN	
	50130-4: 2011 +A1: 2014,	
	RCM: AS/NZS CISPR 32: 2015,	
	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 2015	
Safety	UL: UL 62368-1,	
	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	
	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	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
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical 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 areas where no specific anti-corrosion protection is needed.