

iDS-2CD7A46G0/P-IZHS(Y) 4 MP ANPR IR Varifocal Bullet Network Camera



















- 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)





Function

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	2688 × 1520
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON);
	B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
	Blue glass module to reduce ghost phenomenon
Lens	
Forell enough & FOV	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal
	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 P-iris
Aperture	2.8 to 12 mm: F1.2 to F2.5
Aperture	8 to 32 mm: F1.7 to F1.73
Illuminator	
Supplement Light Type	IR
Supplement Light Range	2.8 to 12 mm: 50 m
Supplement Light Runge	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)
	60 Hz: 30 fps (2688 × 1520, 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)
Fourth 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)
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
Vi.d Dit D	Sub-stream/Third stream/Fourth stream/Fifth stream: H.265/H.264/MJPEG
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.265 and H.264 encoding
Region of Interest (ROI)	4 fixed regions for each stream
Target Cropping	Yes



Audio Type	Mono sound			
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3			
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64			
	Kbps (AAC)/8 to 320 Kbps (MP3)			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz			
Environment Noise Filtering	Yes			
Network				
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP			
User/Host	Up to 32 users. 3 user levels: administrator, operator and user			
<u> </u>	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			
	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: IE8+			
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+			
	Local service: Chrome 41.0+, Firefox 30.0+			
Image				
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger			
Wide Dynamic Range (WDR)	140 dB			
SNR	≥ 52 dB			
Image Enhancement	BLC, HLC, Defog, 3D DNR			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit 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 256 GB			
Audio	With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector			
Alarm	2 input, 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: 12 VDC, max. 100 mA			
Wiegand	/P-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)			



Event	
	Motion detection, video tampering alarm, exception (network disconnected, IP
Basic Event	address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality
	diagnosis, vibration detection
Smart Event	Intrusion detection, scene change detection, audio exception detection, defocus
	detection
	Line crossing detection, up to 4 lines configurable
	Intrusion detection, up to 4 regions configurable
	Region entrance detection, up to 4 regions configurable
	Region exiting detection, up to 4 regions configurable
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm
Linkage	output, trigger recording, trigger capture
Deep Learning Function	output, trigger recording, trigger cupture
beep tearning runction	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types
	Blocklist and allowlist: up to 10,000 records
Road Traffic and Vehicle	Captures vehicle that has no license plate
Detection	Support license plate recognition of motorcycles (only in checkpoint scenario)
	Support vehicle attribute detection, including vehicle type, color, brand, etc. (City
	Street mode is recommended.)
Metadata	Metadata of road traffic is supported.
General	
Power	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V), 0.396 A to 0. 295 A, max. 16.8 W
Material	Aluminum alloy body
Dimension	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")
	With -Y: Ø140 × 351 mm (Ø5.5" × 13.8")
Package Dimension	405 × 190 × 180 mm (15.9" × 7.5" × 7.1")
Weight	Approx. 1950 g (4.2 lb.)
With Package Weight	Approx. 3070 g (6.7 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Conditions	-40 C to 00 C (-40 T to 140 T). Humility 35% of less (non-condensing)
Language	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
0 15 11	Anti-flicker, 5 streams, EPTZ, heartbeat, mirror, privacy mask, flash log, password reset
General Function	via email, pixel counter
Approval	
EMC	FCC (47 CFR Part 15, Subpart B);
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN
	50130-4: 2011 +A1: 2014);
	RCM (AS/NZS CISPR 32: 2015);
	IC (ICES-003: Issue 7);
	KC (KN 32: 2015, KN 35: 2015)



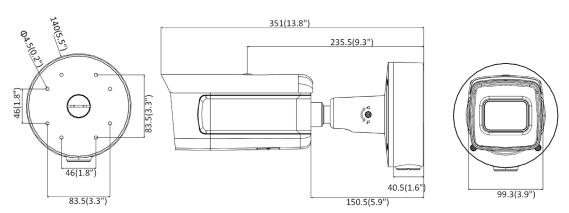
	UL (UL 62368-1);
	CB (IEC 62368-1:2014+A11);
Safety	CE-LVD (EN 62368-1:2014/A11:2017);
	BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005);
	LOA (IEC/EN 60950-1)
	CE-RoHS (2011/65/EU);
Environment	WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)
Protection	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)
Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)
Automotive and Railway	EN50121-4
Other	PVC FREE

Available Model

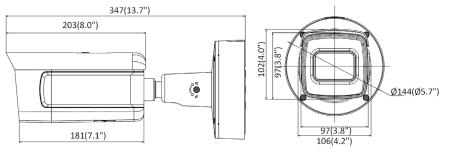
iDS-2CD7A46G0/P-IZHSY (2.8 to 12 mm, 8 to 32 mm) iDS-2CD7A46G0/P-IZHS (2.8 to 12 mm, 8 to 32 mm)

Dimension

-Y model:



Without -Y model:



Unit: mm(inch)



Distributed by

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