

iDS-2CD7A46G0-IZHS(Y) 4 MP 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
- 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

Face Recognition

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

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.

Multi-Target-Type Recognition

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region and outputs the features, such as gender, age, top color, and vehicle type.



Specification

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Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	2560 × 1440			
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				
	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			
Aurantour	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			
6 1	2.8 to 12 mm: 50 m			
Supplement Light Range	8 to 32 mm: 100 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
Video				
A4 : 61	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280× 720)			
Main Stream	60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280× 720)			
	50 Hz: 25 fps (704 × 480, 640 × 480)			
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
Thind Change	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Faculty Character	50 Hz: 25 fps (704 × 480, 640 × 480)			
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fifth Change	50 Hz: 25 fps (704 × 480, 640 × 480)			
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)			
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG			
Video Bit Rate	32 Kbps to 8 Mbps			
H.264 Type	Baseline Profile/Main Profile/High Profile			
Н.265 Туре	Baseline Profile/Main Profile/High Profile			
Bit Rate Control	CBR/VBR			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Region of Interest (ROI)	4 fixed regions for main stream, sub-stream, third stream, fourth stream and fifth			
Target Cropping	stream			
Target Cropping	Yes			



Audio					
A 1' D' D 1	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64				
Audio Bit Rate	Kbps (AAC) /8 to 320 Kbps (MP3)				
Audio Type	Mono sound				
Environment Noise Filtering	Yes				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3				
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				
	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				
	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				
	Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11				
Web Browser	Plug-in free live view: Chrome 45.0+, Firefox 52.0+				
	Not recommended: Safari 11+, Edge				
Image					
Image Parameters Switch	Yes				
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by				
mage Settings	client software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger				
Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	BLC, HLC, Defog, 3D DNR				
SNR	≥ 52 dB				
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable				
Image Stabilization	EIS				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format				
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			
Event				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection			
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection			
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture			
Deep Learning Function				
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle features			
Face Capture	 Detects up to 60 faces simultaneously Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30° Uploads face with background and closed-up face pictures 			
Face Comparison	Up to 10 face libraries. Up to 150,000 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)			
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. 295A, max. 16.8 W			
Material	Aluminum alloy body			
Disconsista	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7")			
Dimension	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 Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or 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			
General Function	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter, one-key reset, five streams			
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)			



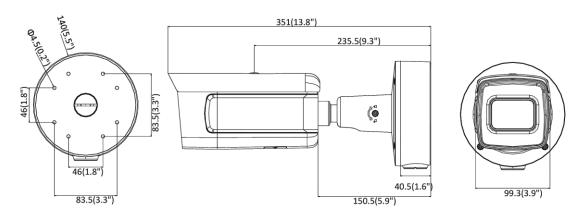
	UL (UL 62368-1);		
Safety	CB (IEC 62368-1:2014+A11);		
	CE-LVD (EN 62368-1:2014/A11:2017);		
	BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005);		
	LOA (IEC/EN 60950-1)		
Environment	CE-RoHS (2011/65/EU);		
	WEEE (2012/19/EU);		
	Reach (Regulation (EC) No 1907/2006)		
Protection	IK10 (IEC 62262:2002),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

Available Model

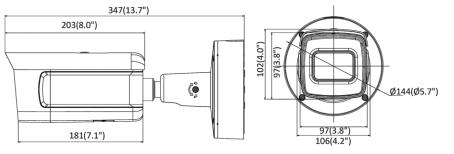
iDS-2CD7A46G0-IZHSY (2.8 to 12 mm, 8 to 32 mm) iDS-2CD7A46G0-IZHS (2.8 to 12 mm, 8 to 32 mm)

Dimension

-Y model:



Without -Y model:



Unit: mm(inch)



Accessory

Optional

DS-1475ZJ-Y Vertical Pole Mount	DS-1475ZJ-SUS Vertical Pole Mount	DS-1476ZJ-Y Corner Mount	DS-1476ZJ-SUS Corner Mount

Distributed by



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