

iDS-2CD7A47G0-XZHS(Y) 4MP ColorVu DeepinView Varifocal Bullet Camera















- DeepinView

- High quality imaging with 4 MP resolution
- Excellent low-light performance via ColorVu 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)



Specification

Camera						
Image Sensor	1/1.8" Progressive Scan CMOS					
Max. Resolution	2688 × 1520					
Min. Illumination	Color: 0.0003 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with light					
Shutter Time	1 s to 1/100,000 s					
Day & Night	IR cut filter Blue glass module (less ghost phenomenon)					
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°					
Lens						
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 98° to 44.1°, vertical FOV 53.2° to 22.5°, diagonal FOV 115.2° to 50.9°					
Focus	Auto, Semi-auto, Manual					
Iris Type	P-iris					
Aperture	F1.0 to F1.2					
DORI						
DORI	Wide: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m					
Illuminator	16.6. 5. 1.15 my 6. 55.1 my 11. 25.6 my 11. 1.15 m					
Supplement Light Type	Hybrid (IR and White Light)					
Supplement Light Range	Up to 50 m					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
Video						
	50 Hz: 50 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	60 Hz: 60 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 (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)					
	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					
	Fourth stream: H.265/H.264/MJPEG					
	Fifth stream: H.265/H.264					
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)	eo Coding (SVC) H.264 and H.265 encoding					
Region of Interest (ROI) 4 fixed region(s) for each stream						



Audio Type 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 Kbp (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 Network TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP, PPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL ARP, WebSocket, WebSockets 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 3 user levels: administrator, operator, and user Password protection, complicated password, HTTPS encryption, 802.1X authentication for HTTP/HTTPS, WSSE and digest authentication for Open Networ Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit LTLS 1.2, TLS 1.3 NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and head detection are supported.				
Audio Compression G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC Audio Bit Rate G4 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbp (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, DHCP, DNS, DDNS, SRTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL ARP, WebSocket, WebSockets 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 Password protection, complicated password, HTTPS encryption, 802.1X authentication for HTTP/HTTPS, WSSE and digest authentication for Open Netword Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit LTLS 1.2, TLS 1.3 NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and head				
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Network Storage Together with high-end Hikvision memory card, memory card encryption and heal				
detection are supported.	th			
Client iVMS-4200, Hik-Connect				
Plug-in required live view: IE 10, IE11				
Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+				
Image				
Image Parameters Switch Yes				
Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by clie	nt			
Image Settings software or web browser				
Day/Night Switch Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger				
Wide Dynamic Range (WDR) 140 dB				
Image Enhancement BLC, HLC, 3D DNR, Defog, EIS				
Privacy Mask 8 programmable polygon privacy masks				
Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24 bit 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 25	5 GB			
Alarm 2 input(s), 2 output(s) (max. 24 VDC, 1 A)				
1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
input impedance: 4.7 KΩ, interface type: non-equilibrium				
Audio 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3	√pp.			
output impedance: 100Ω , interface type: non-equilibrium, mono sound	I: I*7			
RS-485 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				



Reset Key	Yes				
Power Output	12 VDC, max. 100 mA				
Event					
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address confliction lilegal login, HDD full, HDD error, video quality diagnosis, vibration detection, abnoreboot				
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), scene change detection, audio exception detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, white light flashing, audible warning				
Deep Learning Function					
Multi-target-type Detection	Detects up to 60 targets simultaneously Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features Gets 13 human body features Gets 2 vehicle features				
Face Capture	Detects up to 120 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. 30,000 faces for each library. 150,000 faces in total. Recognizes face identity via face modeling, grading and comparing to those in face library Supports face library encryption				
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area. Two report types are available, space heat map and time heat map line chart.				
Detects queuing-up people number, and waiting time of each person Generates reports to compare the efficiency of different queuing-ups and displ changing status of one queue Supports raw data export for further analysis.					
General					
Power	Three-core terminal block 12 VDC ± 20%, 1.90 A, max. 22.7 W 24 VAC ± 20%, 1.39 A, max. 22.3 W PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.59 A to 0.44 A, max. 24.7 W				
Material	Aluminum alloy body				
Dimension	Ø140 mm × 378.4 mm (Ø5.5" × 14.9")				
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")				
Weight	Approx. 2280 g (5.0 lb.)				
With Package Weight	Approx. 3370 g (7.4 lb.)				
Storage Conditions	-40 °C to 60 °C (-40 °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)				



	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,					
Language	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 1:	Heartbeat, anti-banding, one-key reset, mirror, password protection, privacy mask,					
General Function	watermark, IP address filter, flash log, control timeout					
Heater	Yes					
Demist	Yes					
Approval						
	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					
FMC	50130-4: 2011 + A1: 2014					
EMC	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					
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 model: NEMA 4X (NEMA 250-2018)					
Automotive and Railway	EN50121-4					
Other	PVC FREE					

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.

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.

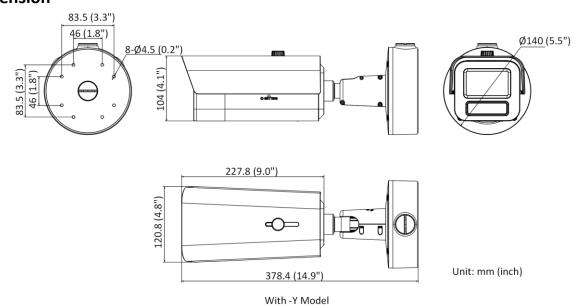


Level	Description			
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.			
Moderate protection	Hikvision products at this level 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.			

Available Model

iDS-2CD7A47G0-XZHSY (2.8 to 12 mm) iDS-2CD7A47G0-XZHS (2.8 to 12 mm)

Dimension





Accessory

Optional

DS-1476ZJ-SUS Corner Mount	DS-1475ZJ-Y Vertical Pole Mount	DS-1275ZJ-S-SUS Vertical Pole Mount	DS-1475ZJ-SUS Vertical Pole Mount	DS-1476ZJ-Y Corner Mount
	nnn	IB	ANN	

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