

iDS-2CD7A87G0-XZHS(Y) 8MP ColorVu DeepinView Varifocal Bullet Camera





# - Deepin View

- High quality imaging with 8 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)



#### Function

#### **Face Recognition**

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. 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 Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.



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## Specification

Camera		
Image Sensor	1/1.8" Progressive Scan CMOS	
Max. Resolution	3840 × 2160	
Min. Illumination	Color: 0.0005 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 99.8° to 44.1°, vertical FOV 54.6° to 24.8°, diagonal FOV 113.8° to 51.1°	
Focus	Auto, Semi-auto, Manual	
Iris Type	P-iris	
Aperture	F1.0 to F1.2	
DORI		
DORI	Wide: D: 92 m, O: 36.5 m, R: 18.4 m, I: 9.2 m Tele: D: 204 m, O: 81 m, R: 40 m, I: 20.4 m	
Illuminator	Tele. D. 204 III, O. 01 III, N. 40 III, I. 20.4 III	
Supplement Light Type	Hybrid (IR and White Light)	
Supplement Light Range	Up to 50 m	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
Video		
Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)	
	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 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)	
	50 Hz: 25 fps (704 × 576, 640 × 480)	
Fourth Stream	$60 \text{ Hz}: 30 \text{ fps} (704 \times 480, 640 \times 480)$	
	50 Hz: 25 fps (704 × 480, 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	
	Fourth stream: H.265/H.264/MJPEG	
	Fifth stream: H.265/H.264	
Video Bit Rate	32 Kbps to 16 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	
	4 fixed region(s) for each stream	



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Target Cropping	Yes	
Audio		
Audio Type	Mono sound	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC	
Audia Dit Data	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, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,	
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS,	
	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	
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, TLS 1.3	
	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: 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 client	
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 $\Omega$ /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	
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 K $\Omega$ , interface type: non-equilibrium	
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,	
	output impedance: 100 $\Omega$ , interface type: non-equilibrium, mono sound	
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)	
	יוטיבא, דווגעזטוטוע, רפונטיר, רפונטיט, אפוו-dudpuve	



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Reset Key	Yes	
Power Output	12 VDC, max. 100 mA	
Event		
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error, abnormal reboot	
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.	
Queue Management	Detects queuing-up people number, and waiting time of each person Generates reports to compare the efficiency of different queuing-ups and display the 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)	



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, anti-banding, one-key reset, mirror, password protection, privacy mask, watermark, IP address filter, flash log, control timeout	
Heater	Yes	
Demist	Yes	
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	
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	

### 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.

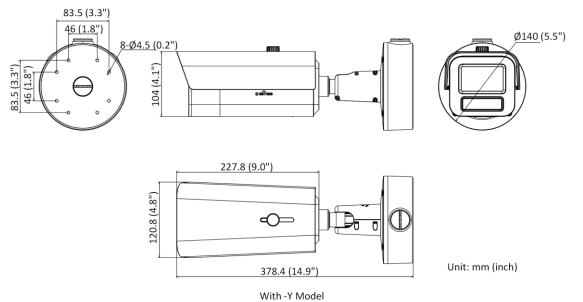
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2CD7A87G0-XZHSY (2.8 to 12 mm) iDS-2CD7A87G0-XZHS (2.8 to 12 mm)



## Dimension





#### Accessory

### Optional

CM1	PM1
Corner Mount	Vertical Pole Mount

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