

iDS-2CD5D87G2/V-XS

8MP DeepinViewX Fixed Lens Dome Camera for Perimeter Protection



DeepinView X











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 8 MP resolution
- Excellent low-light performance via Darkfighter 2.0 technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Water and dust resistant (IP67) and vandal proof (IK10)
- TPM 2.0 for cyber security



Function

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.



Specification

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	3840 × 2160			
Min. Illumination	Color: 0.002 Lux @ (F1.0, AGC ON),B/W: 0.0002 Lux @ (F1.0, AGC ON),B/W: 0 Lux with IR			
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 75°,rotate: 0° to 355°			
Lens				
Lens Type	Fixed focal lens, 2.8 and 4 mm optional			
Focal Length & FOV	2.8 mm, horizontal FOV 108.8°, vertical FOV 56.4°, diagonal FOV 134.3° 4 mm, horizontal FOV 93.0°, vertical FOV 47°, diagonal FOV 114°			
Inia Tuna	-			
Iris Type	Fixed			
Aperture	F1.0			
DORI				
DORI	2.8 mm: D (Detect): 89.2 m, O (Observe): 35.4 m, R (Recognize): 17.8 m, I (Identify): 8.9 m 4 mm: D (Detect): 104.6 m, O (Observe): 41.5 m, R (Recognize): 20.9 m, I (Identify): 10.5 m The DORI values are calculated using pixel densities for different use cases as			
recommended by the EN 62676-4 standard. Illuminator				
Supplement Light Type	Hybrid (IR and White Light)			
Supplement Light Range	Up to 40 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)			
Fourth 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, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG			
Video Bit Rate	32 Kbps to 16 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.264 and H.265 encoding		
Target Cropping	No		
Region of Interest (ROI)	8 fixed regions for each stream		
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/48 kHz		
Environment Noise Filtering	Yes		
Network			
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP, 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		
User/Host	Up to 32 users 3 user levels: administrator, operator, and user		
Security	Password protection, complicated password, HTTPS encryption, 802.1X authenticat (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest 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, AES128/256		
Network Storage	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		
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		
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser		
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger		
Wide Dynamic Range (WDR)	120 dB		
Image Enhancement	BLC,HLC,3D DNR,Defog,Distortion Correction		
Privacy Mask	8 programmable polygon privacy masks		
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.		
Image Stabilization	EIS		
Interface			
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port		
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB		
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)		
7 11 21 1111			
Built-in Microphone	2 built-in microphones		



	1 input (line in), input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type:		
Audio	non-equilibrium, 1 output (line out), output amplitude: 3.3 Vpp, output impedance:		
	100 Ω , interface type: non-equilibrium, mono sound		
Reset Key	Yes		
Power Output	12 VDC, max. 100 mA		
	External extension cord less than 10 meters.		
RS-485	1 RS-485 (Halfduplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)		
Event			
	Motion detection (support alarm triggering by specified target types (human and		
Basic Event	vehicle)),video tampering alarm,exception (HDD full, HDD error, network		
Dasic Event	disconnected, IP address conflict, illegal login, abnormal restart), alarmin put and		
	output,video quality diagnosis		
	Scene change detection, audio exception detection, defocus detection, unattended		
Smart Event	baggage detection, object removal detection, loitering detection, people gathering		
	detection, fast moving detection, parking detection		
Linkage	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm		
Lilikage	output,trigger recording,trigger capture,audible warning		
Deep Learning Function			
	Line crossing, intrusion, region entrance, region exiting		
	Support alarm triggering by specified target types (human and vehicle)		
Perimeter Protection	Support combined event alarm triggering		
Perimeter Protection	Dedicated large scale AI model for perimeter protection, reduce false alarms by 90%		
	compared to conventional Al cameras		
	VCA range: up to 40 m (nighttime)		
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting		
ivietadata	detection		
AcuSeek	Support search for humans, vehicles, This function requires use with AcuSeek		
Acuseek	NVR/Servers.		
General			
Power	12 VDC ± 20%, 1.3 A, max. 15.6 W,		
rowei	PoE: IEEE 802.3at, Type 2, Class 4, 42 V to 57 V, 0.37 A to 0.27 A, max. 15.6 W		
Material	Aluminum alloy body		
Dimension	Ø121.5 mm × 97.6 mm (Ø4.78" × 3.84")		
Package Dimension	150 mm × 150 mm × 141 mm (6.0" × 6.0" × 5.6")		
Weight	Approx. 630 g (1.39 lb.)		
With Package Weight	Approx. 810 g (1.79 lb.)		
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)		
Startup and Operating Conditions	-30 °C to 60 °C (-22 °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		
Language	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,flashlog		



Approval			
	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC		
EMC	61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,		
	RCM: AS/NZS CISPR 32: 2015		
Safety	CB: IEC 62368-1:2014+A11,		
	CE-LVD: EN 62368-1:2014/A11:2017		
Protection	IP67:IEC 60529-2013,IK10:IEC 62262:2002		
	CE-RoHS: 2011/65/EU,		
Environment	WEEE: 2012/19/EU,		
	Reach: Regulation (EC) No 1907/2006		
Transport Certification	IATA Dangerous Goods Regulations, Dangerous Goods List, International Maritime		
ir ansport Certification	Dangerous Goods Code, Railway Dangerous Goods List		

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.

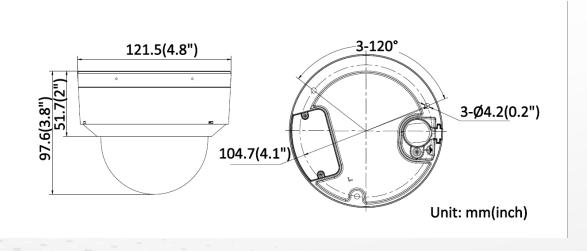
This model has NO SPECIFIC PROTECTION.

Level	Description		
	Hikvision products at this level are equipped for use in		
Top-level protection	areas where professional anti-corrosion protection is a		
Top-rever protection	must. Typical application scenarios include coastlines,		
	docks, chemical plants, and more.		
	Hikvision products at this level are equipped for use in		
	areas with moderate anti-corrosion demands. Typical		
Moderate protection	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		
No specific protection	areas where no specific anti-corrosion protection is needed.		

Available Model

iDS-2CD5D87G2/V-XS(2.8mm) iDS-2CD5D87G2/V-XS(4mm)

Dimension





Accessory

Optional

DS-1276ZJ-SUS	DS-1275ZJ-SUS	DS-1272ZJ-120B	DS-1271ZJ-120	DS-2280ZJ-WA120
DS-1272ZJ-120	DS-1280ZJ-DM46			

Installation Methods

Corner Mounting DS-1276ZJ-SUS+DS-22 80ZJ-WA120	Vertical Pole Mounting DS-1275ZJ-SUS+DS-22 80ZJ-WA120	Wall Mounting DS-1272ZJ-120B+DS-1 280ZJ-DM46	Wall Mounting DS-1272ZJ-120+DS-12 53ZJ-M	Pendant Mounting DS-1271ZJ-120
Junction Box DS-2280ZJ-WA120	Junction Box DS-1280ZJ-DM46			

See Far, Go Further



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