

DS-2CD63C5G1-IVS 12 MP DeepinView IR Network Fisheye Camera





DS-2CD63C5G1-IVS is a fisheye network camera capable of providing a 360-degree panoramic image of its scene. The progressive scan CMOS sensor provides high-resolution images of up to 3504 × 3504. Up to 20 live view display modes, designed for 3 mount types, meet various user preferences. Three independently controlled IR lights offer a range of 15 m and provide good vision in low or even zero-light environment.

- Heatmap: based on deep learning algorithms, the camera counts people and presents an intuitive map
- Multi dewarping modes: the image can be dewarped to normal image for viewing intuitively
- Built-in mic and speaker: the camera supports two-way audio for real-time audio security monitoring and communication
- Built-in IR light: an IR range of 15 meters provides good visibility in low or even zero-light environments
- High resolution 12 MP: capturing clear images even when dewarped into 4-image PTZ mode
- Each image is clear and detailed
- Panomorph lens RPL: 89VVT
- Water and dust resistant (IP67) and vandal resistant (IK10)



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Specification

Camera		
Image Sensor	1/1.8" Progressive Scan CMOS	
Max. Resolution	3504 × 3504	
Min. Illumination	Color: 0.03 Lux @ (F2.2, AGC ON), B/W: 0.006 Lux @ (F2.2, AGC ON), B/W: 0 Lux with IR	
Shutter Time	1 s to 1/100,000 s	
Day & Night	IR cut filter	
Lens		
Lens Type	Fixed focal lens, 1.29 mm	
Focal Length & FOV	1.29 mm, horizontal FOV 180°, vertical FOV 180°	
Iris Type	Fixed	
Aperture	F2.2	
Depth of Field	0.2 m to ∞	
DORI		
	D: 27.9 m	
DORI	0: 11.1 m	
DORI	R: 5.6 m	
	l: 2.8 m	
Illuminator		
Supplement Light Type	IR	
Supplement Light Range	Up to 15 m	
Supplement Light Number	3	
Smart Supplement Light	Yes	
IR Wavelength	850 nm	
HEOP		
Open Resources	Memory: 60 MB,	
	Smart RAM: 800 MB,	
	eMMC: 2 GB	
Computing Power	2 TOPS	
Open Capability	HEOP 2.0 OpendevSDK	
Deep Learning Structure	Caffe, TensorFlow, PyTorch	
Programming Language	C, C++	



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Video		
Video		
	50 Hz: 25 fps/60 Hz: 30 fps:	
	Fisheye View:	
	3504 × 3504, 3024 × 3024, 2560 × 2560, 2048 × 2048	
	180 Panorama View:	
	3072 × 2304, 2048 × 1536	
	180 Dual Channel Panorama View:	
	3072 × 1152	
Main Stream	Panorama View:	
	3072 × 2304, 2048 × 1536	
	4PTZ View:	
	camera 01/camera 02/camera 03/camera 04: 1600 × 1200	
	Fisheye + 3PTZ View:	
	camera 01: 2560 × 2560, 2048 × 2048, 1280 × 1280	
	camera 02/camera 03/camera 04: 1600 × 1200	
	4PTZ Fusion View:	
	3200 × 2400, 2048 × 1536	
	50 Hz: 25 fps/60 Hz: 30 fps:	
	Fisheye View:	
	720 × 720, 480 × 480	
	180 Panorama View:	
	640 × 480, 320 × 240	
	180 Dual Channel Panorama View:	
Cub Stroom	640 × 480, 320 × 240	
Sub-Stream	Panorama View:	
	640 × 360, 320 × 240	
	4PTZ View:	
	camera 01/camera 02/camera 03/camera 04: 640 × 480, 320 × 240	
	Fisheye + 3PTZ View:	
	camera 01: 720 × 720	
	camera 02/camera 03/camera 04: 640 × 480, 320 × 240	
	Main stream: H.265+/H.265/H.264+/ H.264,	
Video Compression	Sub-stream: H.265/H.264/MJPEG	
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	
Region of Interest (ROI)	4 fixed regions for each stream	
Fisheye Display	5	
Mount Type	Support wall/table/ceiling mounting	
Decoding Mode	Support hardware decoding and software decoding	
	Support hardware accounts and software accounts	



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	20 display modes in total,	
	Software decoding: fisheye view, 180 panorama view, 360 panorama view, 360	
	panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ,	
Display Mode	2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder,	
	Hardware decoding: fisheye view, 180 panorama view, 180 dual channel panorama,	
	panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion	
Audio		
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC	
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (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		
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE,	
Protocols	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ISUP,	
	ARP, WebSocket, WebSockets, SIP	
Simultaneous Live View	Up to 20 channels	
	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP,	
API	Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP)	
	systems, peer to peer or integrated with SIP/PBX	
11	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, TL	
	1.2, host authentication (MAC address)	
	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, iVMS-4500, iVMS-5200, Hik-Connect	
	Plug-in required live view: IE 10, IE 11,	
Web Browser	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	saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client	
inage settings	software or web browser	
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger	
Wide Dynamic Range (WDR)	Digital WDR	
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog	
Privacy Mask	8 programmable polygon privacy masks	
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.	
Interface		
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 G	



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Built-in Microphone	Yes, 4 built-in microphones		
Built-in Speaker	Yes, 1 built-in speaker		
Audio	 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output 		
	impedance: 100 Ω , interface type: non-equilibrium		
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)		
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)		
Reset Key	1 Reset Key		
Event			
	Motion detection, video tampering alarm, alarm input and output, exception (network		
Basic Event	disconnected, IP address conflict, illegal login, HDD full, HDD error)		
	Line crossing detection, intrusion detection, region entrance detection, region exiting		
Smart Event	detection, scene change detection, audio exception detection, defocus detection,		
Sindit Event	unattended baggage detection, object removal detection		
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm		
Linkage	output, trigger recording, trigger capture		
Deep Learning Function			
Deep Learning I unction	Counts people entering, exiting and passing by separately (The data is stored in the		
	flash.)		
	Supports real-time uploading and uploading by statistic cycle		
People Counting	Sends email reports on daily, weekly, monthly or annually basis		
	Supports up to 3 detection regions, and independent arming schedule and linkage		
	method		
	Supports up to 8 detection regions, and independent arming schedule and linkage		
	method		
	Supports 2 detection modes: regional people queuing-up, waiting time detection		
	Generates reports to compare the efficiency of different queuing-ups and display the		
	changing status of one queue		
Queue Management	Supports raw data export for further analysis		
	Supports real-time data uploading and scheduled data uploading		
	Regional people queuing-up: supports 4 alarm trigger conditions, including greater		
	than threshold, less than threshold, equal to threshold, not equal to threshold		
	Waiting time detection: supports 1 alarm trigger condition, including greater than		
	threshold		
	A graphic description of visits (by calculating amount of people or amount of dwell		
Heat Map	time) in a configured area.,		
	Two report types are available, space heat map and time heat map line chart.		
	Detects and analyze flow in an intersection-like scene, and generate reports		
Intersection Analysis	Support one intersection of up to 10 ways		
General	Support one intersection of up to 10 ways		
General	12 VDC + 20% 1 A max 11 5 W two core terminal black		
Power	12 VDC ± 20%, 1 A, max. 11.5 W, two-core terminal block,		
Matarial	PoE: IEEE 802.3af, Class 3, max. 12.5 W		
Material	Metal		
Dimension	Ø140.3 mm × 59.4 mm (Ø5.5" × 2.3")		
Package Dimension	260 mm × 230 mm × 135 mm (10.2" × 9.1" × 5.3")		



Weight	Approx. 715 g (1.58 lb.)	
With Package Weight	Approx. 1206 g (2.66 lb.)	
Storage Conditions	-40 °C to 60 °C (-40 °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 60 C (-40 P to 140 P). Humaily 95% 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	
General Function	Heartbeat, flash log, password reset via email, password protection, one-key reset,	
	anti-banding	
Heater	Yes	
Cable Length	0.31 m (1.02 ft.)	
Approval		
	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-	
	2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, EN 50121-4: 2016+A1:2019,	
EMC	RCM: AS/NZS CISPR 32: 2015,	
	IC: ICES-003: Issue 7,	
	KC: KN32: 2015, KN35: 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	
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	

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	
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.	

Physical Interface

No.	Interface Description
1	Network Interface
2	Power Interface
3	Alarm Interface, RS-485