

## 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)

## ▪ 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                    |                                                                                       |
| DORI                    | D: 27.9 m<br>O: 11.1 m<br>R: 5.6 m<br>I: 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,<br>Smart RAM: 800 MB,<br>eMMC: 2 GB                                    |
| Computing Power         | 2 TOPS                                                                                |
| Open Capability         | HEOP 2.0 OpendevSDK                                                                   |
| Deep Learning Structure | Caffe, TensorFlow, PyTorch                                                            |
| Programming Language    | C, C++                                                                                |

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

|                             |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display Mode                | 20 display modes in total,<br>Software decoding: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder,<br>Hardware decoding: fisheye view, 180 panorama view, 180 dual channel panorama, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ISUP, 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<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                                          |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (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, host authentication (MAC address)                               |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                                                                                                                                                                                          |
| Client                      | iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect                                                                                                                                                                                                                                                                                                                                                                |
| Web Browser                 | Plug-in required live view: IE 10, IE 11,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                                                                                                                                                             |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                                                                                             |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                                                                         |
| Image Settings              | saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client 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.                                                                                                                                                                                                                                                                                                                                     |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                                                                           |
| 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 K $\Omega$ , interface type: non-equilibrium,<br>1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Event</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Basic Event                   | Motion detection, video tampering alarm, alarm input and output, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Smart Event                   | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Linkage                       | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Deep Learning Function</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| People Counting               | Counts people entering, exiting and passing by separately (The data is stored in the flash.)<br>Supports real-time uploading and uploading by statistic cycle<br>Sends email reports on daily, weekly, monthly or annually basis<br>Supports up to 3 detection regions, and independent arming schedule and linkage method                                                                                                                                                                                                                                                                                                                                                             |
| Queue Management              | Supports up to 8 detection regions, and independent arming schedule and linkage method<br>Supports 2 detection modes: regional people queuing-up, waiting time detection<br>Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue<br>Supports raw data export for further analysis<br>Supports real-time data uploading and scheduled data uploading<br>Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold<br>Waiting time detection: supports 1 alarm trigger condition, including greater than threshold |
| Heat Map                      | A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.,<br>Two report types are available, space heat map and time heat map line chart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Intersection Analysis         | Detects and analyze flow in an intersection-like scene, and generate reports<br>Support one intersection of up to 10 ways                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>General</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power                         | 12 VDC $\pm$ 20%, 1 A, max. 11.5 W, two-core terminal block,<br>PoE: IEEE 802.3af, Class 3, max. 12.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Material                      | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dimension                     | $\varnothing$ 140.3 mm $\times$ 59.4 mm ( $\varnothing$ 5.5" $\times$ 2.3")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Package Dimension             | 260 mm $\times$ 230 mm $\times$ 135 mm (10.2" $\times$ 9.1" $\times$ 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 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, flash log, password reset via email, password protection, one-key reset, anti-banding                                                                                                                                                                                                                                                      |
| Heater                           | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Cable Length                     | 0.31 m (1.02 ft.)                                                                                                                                                                                                                                                                                                                                     |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | 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, 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                                                                                                                                                                                                                         |
| 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

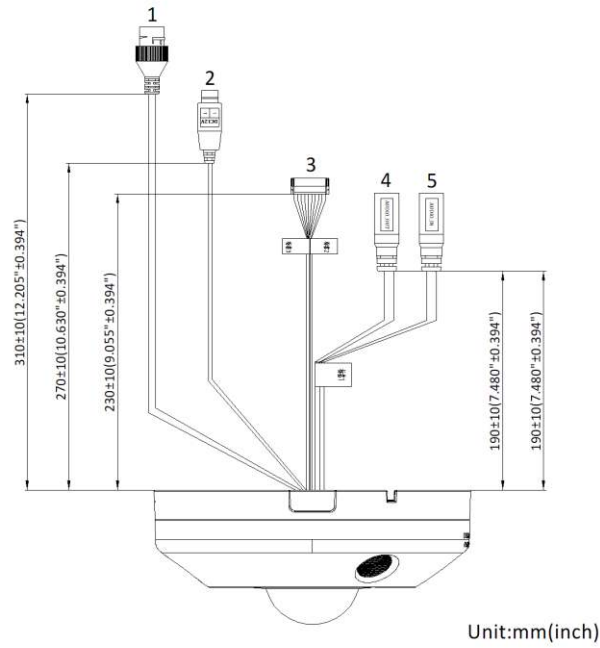
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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

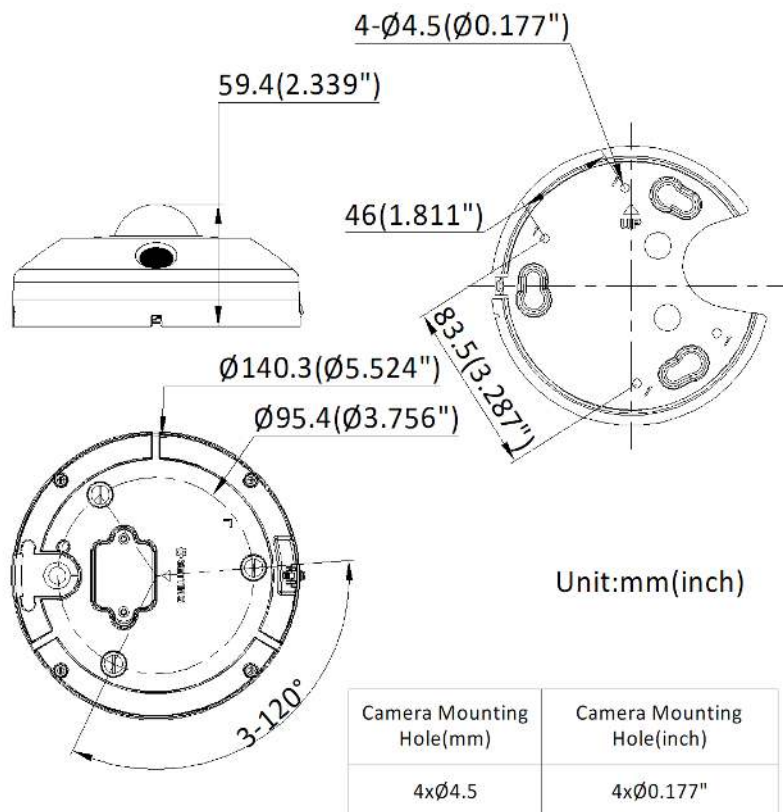
| No. | Interface Description   |
|-----|-------------------------|
| 1   | Network Interface       |
| 2   | Power Interface         |
| 3   | Alarm Interface, RS-485 |
| 4   | Audio Output Interface  |
| 5   | Audio Input Interface   |



#### ▪ Available Model

DS-2CD63C5G1-IVS(1.29mm)

#### ▪ Dimension



## ▪ Accessory

## ▪ Optional

| DS-1276ZJ-SUS<br>Corner Mount                                                     | DS-2280ZJ-WA140<br>Junction Box                                                   | DS-1275ZJ-SUS<br>Vertical Pole Mount                                              | DS-1273ZJ-140B<br>Wall Mount                                                        | DS-1273ZJ-140<br>Wall Mount                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-1271ZJ-140<br>Pendant Mount                                                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|  |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

*\*It is recommended to use DS-1276ZJ-SUS and DS-1275ZJ-SUS with DS-1273ZJ-140 or DS-1273ZJ-140B.*

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