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

DeepinView series

IMMERVISION enables®

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 | |
|---|---|
| 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 | Fisheye View:<br>3504 × 3504, 3024 × 3024, 2560 × 2560, 2048 × 2048<br>180 Panorama View:<br>3072 × 2304, 3072 × 1152<br>180 Dual Channel Panorama View:<br>3072 × 1152, 2560 × 960<br>Panorama View:<br>3072 × 2304, 3072 × 1152<br>4PTZ View:<br>camera 01: 1600 × 1200<br>camera 02: 1600 × 1200<br>camera 03: 1600 × 1200<br>camera 04: 1600 × 1200<br>Fisheye + 3PTZ View:<br>camera 01: 2560 × 2560, 2048 × 2048, 1280 × 1280<br>camera 02: 1600 × 1200<br>camera 03: 1600 × 1200<br>camera 04: 1600 × 1200<br>4PTZ Fusion View:<br>3200 × 2400, 1600 × 1200, 1280 × 960, 1024 × 768 |
| Sub-Stream | Fisheye View:<br>720 × 720, 480 × 480<br>180 Panorama View:<br>640 × 360, 320 × 240<br>180 Dual Channel Panorama View:<br>640 × 360, 320 × 240<br>Panorama View:<br>640 × 360, 320 × 240<br>Fisheye + 3PTZ View:<br>camera 01: 720 × 720<br>camera 02: not supported<br>camera 03: not supported<br>camera 04: not supported |
| 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 |
|---|---|
| **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** | |
| 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+ |
| **Image** | |
| 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. |
| **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 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 KΩ, interface type: non-equilibrium,<br>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** | |
| 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 |
| **Deep Learning Function** | |
| 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 |
| **General** | |
| Power | 12 VDC ± 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 | 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.) |

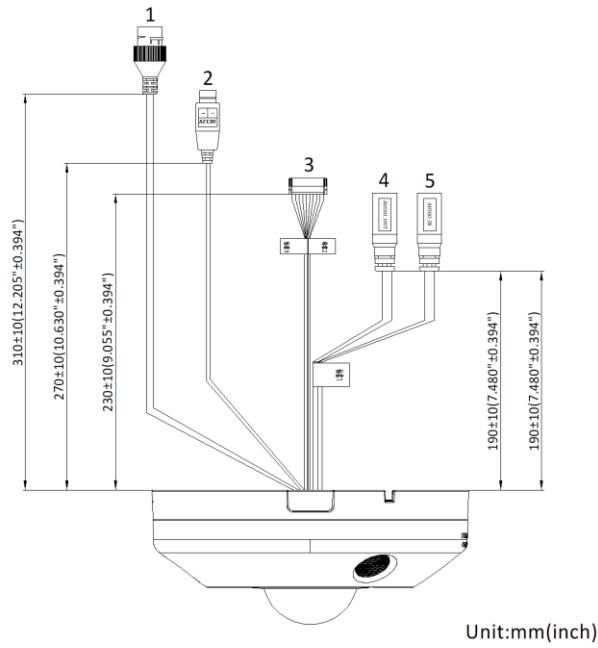| Storage Conditions | -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) |
|---|---|
| Startup and Operating Conditions | -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Language | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, 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.) |
| **Approval** | |
| 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.

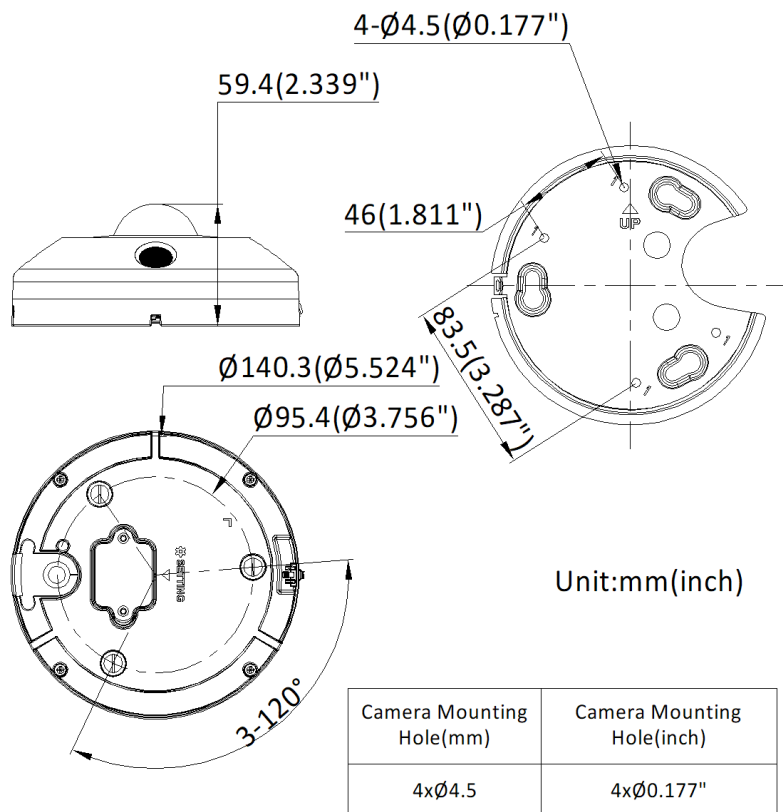| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products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

Unit:mm(inch)

▪ **Available Model**

DS-2CD63C5G1-IVS(1.29mm)

▪**Dimension**

4-Ø4.5(Ø0.177")

59.4(2.339")

46(1.811")

83.5(3.287")

Ø140.3(Ø5.524")

Ø95.4(Ø3.756")

Unit:mm(inch)

3-120°

| Camera Mounting Hole(mm) | Camera Mounting Hole(inch) |
|---|---|
| 4xØ4.5 | 4xØ0.177" |

## ▪ Accessory

### ▪ Optional

| DS-1276ZJ-SUS Corner Mount | DS-2280ZJ-WA140 Junction Box | DS-1275ZJ-SUS Vertical Pole Mount | DS-1273ZJ-140B Wall Mount | DS-1273ZJ-140 Wall Mount |
|---|---|---|---|---|
|  |  |  |  |  |

| DS-1271ZJ-140 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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