# DS-2CD3766G2-IZS
# 6 MP AcuSense IR Varifocal Dome Network Camera

AcuSense

Powered by DarkFighter




Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 40 MB system memory, 350 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 6 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- False alarm reduction through human and vehicle target classification based on deep learning
- 3D DNR technology delivers clean and sharp images
- Motorized varifocal lens for easy installation
- Water and dust resistant (IP66) and vandal-resistant (IK10)

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | 1/2.4" Progressive Scan CMOS |
| Max. Resolution | 3200 × 1800 |
| Min. Illumination | Color: 0.003 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR |
| Shutter Time | 1/3 s to 1/100,000 s |
| Day ＆ Night | IR cut filter |
| Angle Adjustment | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355° |
| **Lens** | |
| Lens Type | Varifocal lens, motorized lens, 2.7 to 13.5 mm and 7 to 35 mm optional |
| Focal Length ＆ FOV | 2.7 to 13.5 mm: horizontal FOV 106° to 35.6°, vertical FOV 55.9° to 20°, diagonal FOV 127.4° to 40.8°<br>7 to 35 mm: horizontal FOV 34.4° to 12.5°, vertical FOV 19° to 7.1°, diagonal FOV 39.8° to 14.3° |
| Lens Mount | 2.7 to 13.5 mm: Ø14;<br>7 to 35 mm: Integrated |
| Iris Type | Auto-iris |
| Focus | Auto, Semi-auto, Manual |
| Aperture | F1.6 |
| **DORI** | |
| DORI | 2.7 to 13.5 mm: D: 68 to 200 m, O: 27 to 79 m, R: 13 to 40 m, I: 6 to 20 m<br>7 to 35 mm: D: 218 to 580 m, O: 86 to 230 m, R: 43 to 116 m, I: 21 to 58 m |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | 2.7 to 13.5 mm: up to 40 m; 7 to 35 mm: up to 50 m |
| Smart Supplement Light | Yes |
| IR Wavelength | 850 nm |
| **HEOP** | |
| Open Resources | Memory: 40 MB,<br>Smart RAM: 350 MB,<br>eMMC: 2 GB |
| Computing Power | 1.5 TOPS |
| Open Capability | HEOP 2.0 OpendevSDK |
| Deep Learning Structure | Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX |
| Programming Language | C, C++ |
| **Video** | |
| Main Stream | 50 Hz:<br>20 fps (3200 × 1800)<br>25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>20 fps (3200 × 1800)<br>30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) |

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| Third Stream | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| Fourth Stream | 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) |
| Video Compression | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>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 |
| Region of Interest (ROI) | 5 fixed regions for main stream and sub-stream |
| Target Cropping | Yes |
| **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/44.1 kHz/48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP |
| Simultaneous Live View | Up to 6 channels |
| API | ONVIF (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 1.1/1.2/1.3, 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, Hik-Connect, Hik-Central |
| 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+,<br>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 |

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| Wide Dynamic Range (WDR) | 120 dB |
| Image Enhancement | BLC, HLC, 3D DNR, Defog |
| SNR | ≥ 52 dB |
| Privacy Mask | 4 programmable polygon privacy masks |
| **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 512 GB |
| 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 | 1 input, 1 output (max. 24 VDC/24 VAC, 1 A) |
| Reset Key | Yes |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception |
| 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, audible warning |
| **Deep Learning Function** | |
| Face Capture | Yes |
| People Counting | Yes |
| **General** | |
| Power | 12 VDC ± 25%, 1.25 A, max. 15 W, two-core terminal block,<br>PoE: IEEE 802.3at, Class 4, max. 18 W |
| Material | Metal |
| Dimension | Ø153.5 mm × 133.1 mm (Ø6.0" × 5.2") |
| Package Dimension | 244 mm × 174 mm × 173 mm (9.6" × 6.9" × 6.8") |
| Weight | Approx. 875 g (1.9 lb.) |
| With Package Weight | Approx. 1770 g (3.9 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) |
| General Function | Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter |
| 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 |
| **Approval** | |
| EMC | CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015,<br>RCM: AS/NZS CISPR 32: 2015 |

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| Safety | UL: UL 62368-1,<br>CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,<br>LOA: IEC/EN 60950-1 |
| Environment | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006 |
| Protection | IP66: 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

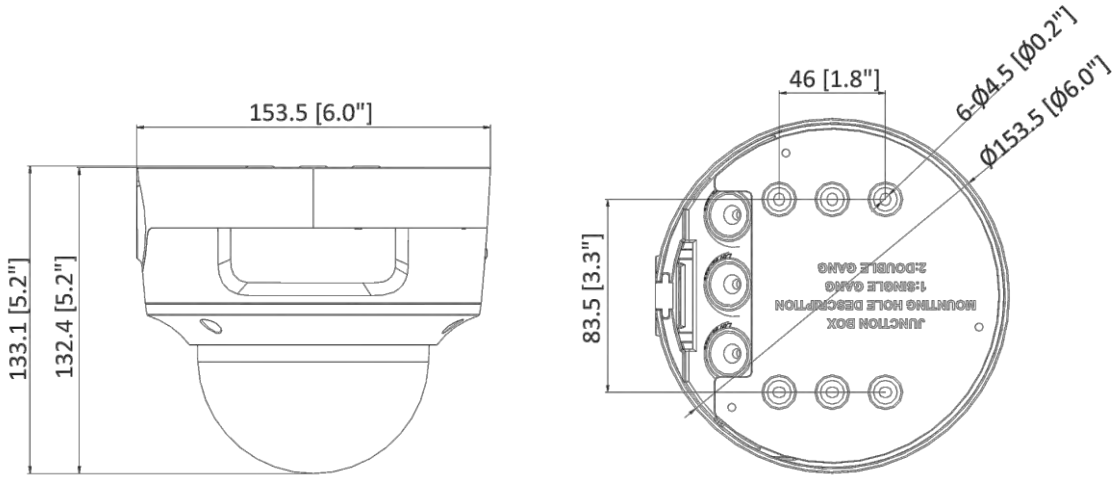
| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products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

## ▪ Available Model

DS-2CD3766G2-IZS (2.7 to 13.5 mm) (H)

DS-2CD3766G2-IZS (7 to 35 mm) (H)

## ▪ Dimension




Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1473ZJ-155B<br>Wall Mount | DS-1476ZJ-SUS<br>Corner Mount | DS-1253ZJ-L<br>Rain Shade | DS-1471ZJ-155<br>Pendant Mount | DS-1227ZJ-DM37<br>In-Ceiling Mount |
|---|---|---|---|---|
|  |  |  |  |  |

| DS-1473ZJ-155<br>Wall Mount | DS-1475ZJ-SUS<br>Vertical Pole Mount |
|---|---|
|  |  |


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