

**DS-2CD2583G2-I(S)**  
**8 MP AcuSense Fixed mini Dome Network Camera**

AcuSense



Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 8 MP resolution
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle targets classification based on deep learning
- -S: Audio and alarm interface available
- Water and dust resistant (IP67) and vandal resistant (IK08)



## • Specification

| Camera                 |                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/2.8" Progressive Scan CMOS                                                                                                                                                                 |
| Max. Resolution        | 3840 × 2160                                                                                                                                                                                  |
| Min. Illumination      | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR                                                                                                                                        |
| Shutter Speed          | 1/3 s to 1/100,000 s                                                                                                                                                                         |
| Day & Night            | IR cut filter                                                                                                                                                                                |
| Angle Adjustment       | Pan: -30° to 30°, tilt: 0° to 75°, rotate: 0° to 360°                                                                                                                                        |
| Lens                   |                                                                                                                                                                                              |
| Lens Type              | Fixed focal lens, 2.8 and 4 mm optional                                                                                                                                                      |
| Focal Length & FOV     | 2.8 mm, horizontal FOV 106.4°, vertical FOV 58.4°, diagonal FOV 124.8°<br>4 mm, horizontal FOV 87.6°, vertical FOV 44.4°, diagonal FOV 104.9°                                                |
| Lens Mount             | M12                                                                                                                                                                                          |
| Iris Type              | Fixed                                                                                                                                                                                        |
| Aperture               | F1.6                                                                                                                                                                                         |
| Depth of Field         | 2.8 mm: 1.4 m to ∞<br>4 mm: 2.1 m to ∞                                                                                                                                                       |
| DORI                   |                                                                                                                                                                                              |
| DORI                   | 2.8 mm:<br>D: 88 m<br>O: 35 m<br>R: 18 m<br>I: 9 m<br>4 mm:<br>D: 118 m<br>O: 47 m<br>R: 24 m<br>I: 12 m                                                                                     |
| Illuminator            |                                                                                                                                                                                              |
| Supplement Light Type  | IR                                                                                                                                                                                           |
| Supplement Light Range | Up to 30 m                                                                                                                                                                                   |
| Smart Supplement Light | Yes                                                                                                                                                                                          |
| IR Wavelength          | 850 nm                                                                                                                                                                                       |
| Video                  |                                                                                                                                                                                              |
| Main Stream            | 50 Hz:<br>20 fps (3840 × 2160)<br>25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>20 fps (3840 × 2160)<br>30 fps (3200 × 1800, 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)                                                                                         |
| 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)<br>*Third stream is supported under certain settings.         |

|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                             |
| 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)    | 1 fixed region for main stream and sub-stream                                                                                                                                                                                    |
| <b>Audio</b>                |                                                                                                                                                                                                                                  |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                              |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                                                              |
| Audio Compression           | G.711ulaw/G.711alaw/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)/32-192 Kbps (MP2L2)/8 -320 Kbps (MP3)/16-64 Kbps (AAC-LC)                                                                                                        |
| <b>Network</b>              |                                                                                                                                                                                                                                  |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                 |
| API                         | Open Network Video Interface (Profile S, Profile G), ISAPI, SDK                                                                                                                                                                  |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, WebSocket, WebSockets                                                                        |
| User/Host                   | Up to 32 users. 3 user levels: administrator, operator and user                                                                                                                                                                  |
| Security                    | Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface |
| Network Storage             | NAS (NFS, SMB/CIFS), auto network replenishment (ANR)                                                                                                                                                                            |
| 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+<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                   |
| <b>Image</b>                |                                                                                                                                                                                                                                  |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                           |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                          |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                       |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                 |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                              |
| Image Settings              | Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser                                                                                      |
| <b>Interface</b>            |                                                                                                                                                                                                                                  |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                    |
| On-Board Storage            | Built-in memory card slot, support microSD card, up to 512 GB                                                                                                                                                                    |
| Built-in Microphone         | Yes                                                                                                                                                                                                                              |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio                            | -IS:<br>1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium                                                |
| Alarm                            | -IS:<br>1 input, 1 output (max. 12 VDC, 20 mA)                                                                                                                                                                                                                                                                                                        |
| Reset Key                        | Yes                                                                                                                                                                                                                                                                                                                                                   |
| <b>Event</b>                     |                                                                                                                                                                                                                                                                                                                                                       |
| Basic Event                      | Motion detection (human and vehicle targets classification), video tampering alarm, exception                                                                                                                                                                                                                                                         |
| Smart Event                      | Line crossing detection, intrusion detection, face detection                                                                                                                                                                                                                                                                                          |
| Linkage                          | Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger capture, send email                                                                                                                                                                                                                                             |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Perimeter Protection             | Line crossing, intrusion<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                                                    |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 0.54 A, max. 6.5 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection<br>PoE: (802.3af, Class 3, 36 V to 57 V), 0.22 A to 0.14 A, max. 8 W                                                                                                                                                                       |
| Camera Material                  | Base: aluminum, cover: plastic                                                                                                                                                                                                                                                                                                                        |
| Camera Dimension                 | $\varnothing$ 113.6 mm $\times$ 72.6 mm ( $\varnothing$ 4.5" $\times$ 2.9")                                                                                                                                                                                                                                                                           |
| Package Dimension                | 134 mm $\times$ 134 mm $\times$ 108 mm (5.3" $\times$ 5.3" $\times$ 4.3")                                                                                                                                                                                                                                                                             |
| Camera Weight                    | Approx. 400 g (0.9 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 635 g (1.4 lb.)                                                                                                                                                                                                                                                                                                                               |
| Storage Conditions               | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                     |
| Startup and Operating Conditions | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ 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                 | Anti-flicker, heartbeat, password reset via e-mail, pixel counter                                                                                                                                                                                                                                                                                     |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | FCC (47 CFR Part 15, Subpart B)<br>CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014)<br>RCM (AS/NZS CISPR 32: 2015)<br>IC (ICES-003: Issue 7)<br>KC (KN32: 2015, KN35: 2015)                                                                                                                        |
| Safety                           | UL (UL 62368-1)<br>CB (IEC 62368-1: 2014+A11)<br>CE-LVD (EN 62368-1: 2014/A11: 2017)                                                                                                                                                                                                                                                                  |

|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| Environment                  | CE-RoHS (2011/65/EU)<br>WEEE (2012/19/EU)<br>Reach (Regulation (EC) No 1907/2006) |
| Electrical Safety Protection | IP67 (IEC 60529-2013)<br>IK10 (IEC 62262: 2002)                                   |

### ▪ Available Model

DS-2CD2583G2-IS (2.8/4 mm)

DS-2CD2583G2-I (2.8/4 mm)

DS-2CD2583G2-IS (2.8 mm) (BLACK)

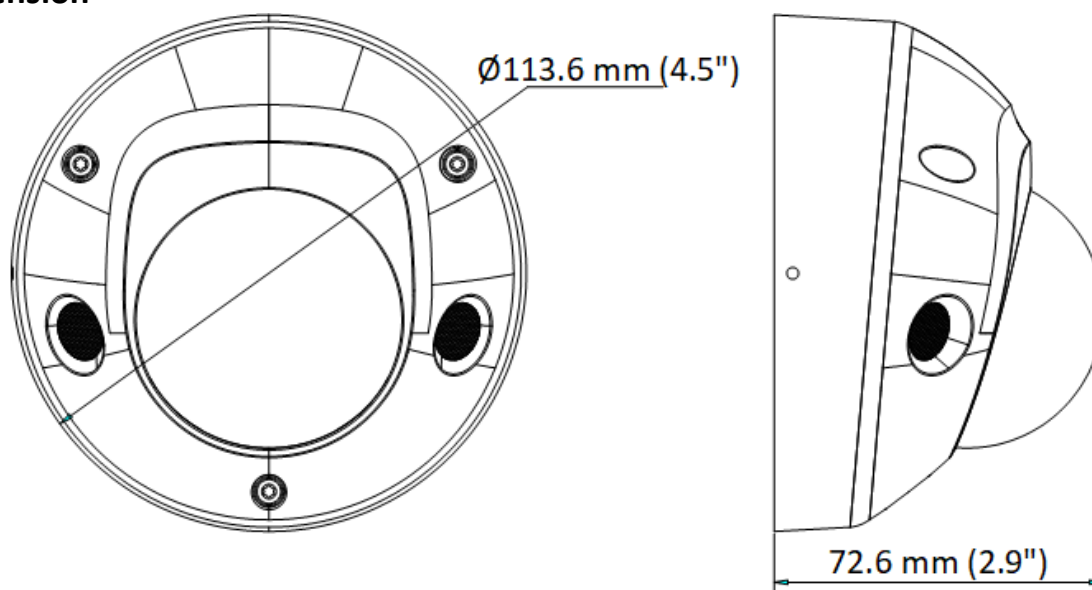
### ▪ Typical Application

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.                                                                                                                                  |

### ▪ Dimension



Unit: mm (inch)



▪ Accessory

▪ Optional

| CM<br>Corner Mount                                                                 | PM<br>Vertical Pole Mount                                                         | DS-1275ZJ-SUS(Black)<br>Vertical Pole Mount                                        | WMS+PC120<br>Wall Mount                                                              | CB120B<br>Junction Box                                                               |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |  |   |    |   |
| DS-1276ZJ-SUS(Black)<br>Corner Mount                                               | CB120<br>Junction Box                                                             | WMS+PC120<br>Wall Mount                                                            | CPMB+PC120B<br>Pendant Mount                                                         | CPM+PC120<br>Pendant Mount                                                           |
|  |  |  |  |  |

Distributed by

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