

## DS-2CD2H43G2-IZS

### 4 MP AcuSense Motorized Varifocal Turret Network Camera



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 4 MP resolution
- Motorized varifocal lens for easy installation and monitoring
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67) and vandal resistant (IK10)
- Focus on human and vehicle targets classification based on deep learning

## ▪ Specification

| Camera                      |  |
|-----------------------------|--|
| Image Sensor                | 1/3" Progressive Scan CMOS   |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on  |
| Shutter Time                | 1/3 s to 1/100,000 s   |
| Day & Night                 | ICR Cut  |
| Angle Adjustment            | Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°   |
| Max. Resolution             | 2688 × 1520  |
| Lens                        |  |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 95.8° to 29.2°, vertical FOV 50.6° to 16.4°, diagonal FOV 114.6° to 33.4°                         |
| Aperture                    | F1.6   |
| Lens Mount                  | Ø14  |
| Lens Type                   | Varifocal lens, motorized lens, 2.8 to 12 mm   |
| Iris Type                   | Fixed  |
| DORI                        |  |
| DORI                        | 2.8 to 12 mm: D: 64 m to 200 m, O: 25.4 m to 79.4 m, R: 12.8 m to 40 m, I: 6.4 m to 20 m                                       |
| Illuminator                 |  |
| Supplement Light Type       | IR   |
| Supplement Light Range      | Up to 40 m   |
| IR Wavelength               | 850 nm   |
| Smart Supplement Light      | Yes  |
| Video                       |  |
| Main Stream                 | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 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)                           |
| 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) |
| 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 8 Mbps  |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile   |
| H.265 Type                  | Main Profile   |
| Bit Rate Control            | CBR/VBR  |
| Scalable Video Coding (SVC) | Yes  |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream  |
| Audio                       |  |
| 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)/16-64 Kbps (AAC-LC)/32-192 Kbps (MP2L2)/8-320 Kbps (MP3)       |

| <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>                     |  |
| 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  |
| Wide Dynamic Range (WDR)         | 120 dB   |
| <b>Interface</b>                 |  |
| Audio                            | 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                            | 1 input, 1 output (max. 12 VDC, 30 mA)   |
| On-Board Storage                 | Built-in microSD, up to 512 GB   |
| Reset Key                        | Yes  |
| Ethernet Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet port  |
| <b>Event</b>                     |  |
| Basic Event                      | Motion detection (human and vehicle targets classification), video tampering alarm, exception  |
| Smart Event                      | Line crossing detection, intrusion detection (support alarm triggered by specific target types (human and vehicle))<br>Face detection  |
| Linkage                          | Upload to FTP/memory card/NAS, notify surveillance center, trigger record, trigger capture, Email  |
| <b>General</b>                   |  |
| General Function                 | Anti-flicker, heartbeat, password reset via e-mail, pixel counter  |
| 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)  |
| Material                         | Aluminum alloy body  |
| Dimension                        | $\varnothing$ 138.3 × 126 mm ( $\varnothing$ 5.4" × 5.0")  |
| Package Dimension                | 216 × 121 × 118 mm (8.5" × 4.8" × 4.6")  |

|                     |   |
|---------------------|---|
| Weight              | Approx. 830 g (1.8 lb.)   |
| With Package Weight | Approx. 1115 g (2.5 lb.)  |
| Power               | 12 VDC $\pm$ 25%, 0.92 A, max. 11 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection<br>PoE: 802.3af, Class 3, 36 V to 57 V, 0.35 A to 0.22 A, max. 12.5 W   |
| Language            | 33 languages<br>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 |
| <b>Approval</b>     |   |
| EMC                 | FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)  |
| Safety              | UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)   |
| 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.

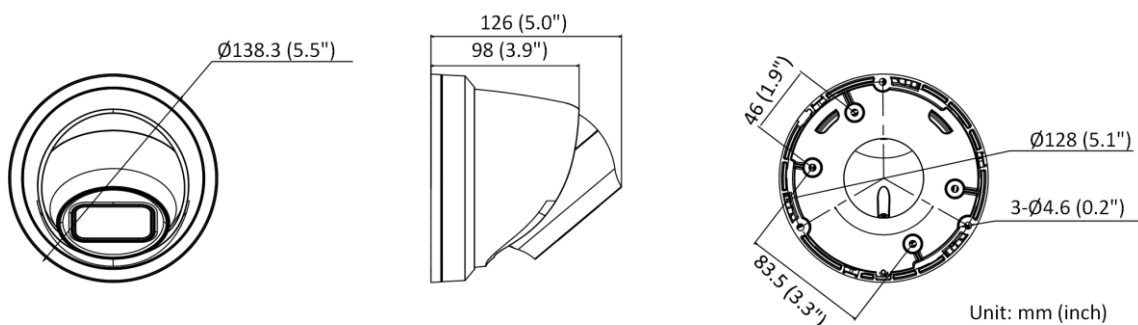
This model has NO SPECIFIC PROTECTION.

| 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.  |

## ▪ Available Model







DS-2CD2H43G2-IZS (2.8 to 12mm)

▪ **Dimension**



▪ **Accessory**

▪ **Optional**

| DS-1276ZJ-SUS<br>Corner Mount   | DS-1273ZJ-140<br>Wall Mount  | DS-1273ZJ-140B<br>Wall Mount  | DS-1280ZJ-PT6<br>Junction Box   | DS-1275ZJ-SUS<br>Vertical Pole Mount   |
|---|--|---|---|--|
|   |  |  |  |  |
| DS-1271ZJ-140<br>Pendant Mount  |  |   |   |  |
|  |  |   |   |  |

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