

## DS-2CD2423G2-IW (W) 2 MP AcuSense Fixed Cube Network Camera



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

- High quality imaging with 2 MP resolution
- Clear imaging against strong backlight due to Digital WDR technology
- Focus on human classification based on deep learning
- Provide real-time security via built-in two-way audio

## ▪ Specification

| Camera                      |                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/3" Progressive Scan CMOS                                                                                                                                    |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR                                                                                                         |
| Max. Resolution             | 1920 × 1080                                                                                                                                                   |
| Shutter Time                | 1/3 s to 1/100,000 s                                                                                                                                          |
| Day & Night                 | IR cut filter                                                                                                                                                 |
| Angle Adjustment            | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°                                                                                                          |
| Lens                        |                                                                                                                                                               |
| Focal Length & FOV          | 2.8 mm, horizontal FOV 92°, vertical FOV 50°, diagonal FOV 110°<br>4 mm, horizontal FOV 75°, vertical FOV 41°, diagonal FOV 89°                               |
| Aperture                    | F1.6                                                                                                                                                          |
| Lens Mount                  | M12                                                                                                                                                           |
| DORI                        |                                                                                                                                                               |
| DORI                        | 2.8 mm: D: 38.6 m, O: 15.3 m, R: 7.7 m, I: 3.9 m<br>4 mm: D: 54.8 m, O: 21.7 m, R: 11.0 m, I: 5.5 m                                                           |
| Illuminator                 |                                                                                                                                                               |
| Supplement Light Type       | IR                                                                                                                                                            |
| Supplement Light Range      | Up to 10 m                                                                                                                                                    |
| IR Wavelength               | 850 nm                                                                                                                                                        |
| Smart Supplement Light      | Yes                                                                                                                                                           |
| Video                       |                                                                                                                                                               |
| Main Stream                 | 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 768 × 432)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 720, 768 × 432)                                                      |
| Sub-Stream                  | 50 Hz: 25 fps (768 × 432, 512 × 288)<br>60 Hz: 30 fps (768 × 432, 512 × 288)                                                                                  |
| Video Compression           | Main stream: H.265/H.264<br>Sub-stream: H.265/H.264                                                                                                           |
| Video Bit Rate              | Up to 1 M bps                                                                                                                                                 |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile                                                                                                                    |
| H.265 Type                  | Main Profile                                                                                                                                                  |
| Bit Rate Control            | CBR/VBR                                                                                                                                                       |
| Audio                       |                                                                                                                                                               |
| Environment Noise Filtering | Yes                                                                                                                                                           |
| Audio Sampling Rate         | 8 kHz/16 kHz                                                                                                                                                  |
| Audio Compression           | G.711/AAC-LC                                                                                                                                                  |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 to 64 Kbps (AAC-LC)                                                                                                          |
| Network                     |                                                                                                                                                               |
| Simultaneous Live View      | Up to 4 channels                                                                                                                                              |
| API                         | ONVIF, SDK                                                                                                                                                    |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, UPnP, IGMP, QoS, IPv4, UDP, Bonjour, SSL/TLS                                                 |
| User/Host                   | Administrator                                                                                                                                                 |
| Security                    | Password protection, HTTPS encryption, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE for Open Network Video Interface |

|                                  |                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------|
| Client                           | iVMS-4200, Hik-Connect, Hik-Partner-Pro                                                                     |
| <b>Wi-Fi</b>                     |                                                                                                             |
| Encryption Mode                  | WPA-PSK/WPA2-PSK                                                                                            |
| Wi-Fi Protocol                   | IEEE 802.11b, 802.11g, 802.11n                                                                              |
| Frequency Range                  | 2.412 GHz to 2.472 GHz                                                                                      |
| Channel Bandwidth                | 20 MHz                                                                                                      |
| Modulation                       | 802.11b: CCK, QPSK, BPSK<br>802.11g: OFDM<br>802.11n: OFDM                                                  |
| Wireless Range                   | Up to 50 m (The performance varies based on actual environment)                                             |
| Transfer Rate                    | 11b: up to 54 Mbps,<br>11g: up to 54 Mbps,<br>11n: up to 150 Mbps                                           |
| <b>Image</b>                     |                                                                                                             |
| Wide Dynamic Range (WDR)         | Digital WDR                                                                                                 |
| Privacy Mask                     | 4 programmable polygon privacy masks                                                                        |
| Day/Night Switch                 | Day, Night, Auto, Schedule                                                                                  |
| Image Parameters Switch          | Yes                                                                                                         |
| Image Settings                   | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software |
| <b>Interface</b>                 |                                                                                                             |
| Built-in Microphone              | Yes, 1 built-in microphone                                                                                  |
| Built-in Speaker                 | Yes, 1 built-in speaker                                                                                     |
| On-Board Storage                 | Built-in memory card slot, support microSD/microSDHC/microSDXC card, 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 (support alarm triggering by specified target types (human)), exception                    |
| Linkage                          | Upload to memory card, notify surveillance center, trigger capture, audible warning, auto-tracking lite     |
| <b>General</b>                   |                                                                                                             |
| Power                            | 12 VDC, 0.4 A, max. 4.9 W, Ø2.0 mm coaxial power plug,<br>PoE: IEEE 802.3af, Class 3                        |
| General Function                 | Heartbeat, Mirror                                                                                           |
| Storage Conditions               | -10 °C to 45 °C (14 °F to 113 °F). Humidity 95% or less (non-condensing)                                    |
| Startup and Operating Conditions | -10 °C to 45 °C (14 °F to 113 °F). Humidity 95% or less (non-condensing)                                    |
| Material                         | Plastic                                                                                                     |
| Dimension                        | 102.9 mm × 65.2 mm × 32.6 mm (4.1" × 2.6" × 1.3")                                                           |
| Package Dimension                | 150 mm × 125 mm × 99 mm (5.9" × 4.9" × 3.9")                                                                |
| Weight                           | Approx. 120 g (0.3 lb.)                                                                                     |
| With Package Weight              | Approx. 430 g (0.9 lb.)                                                                                     |

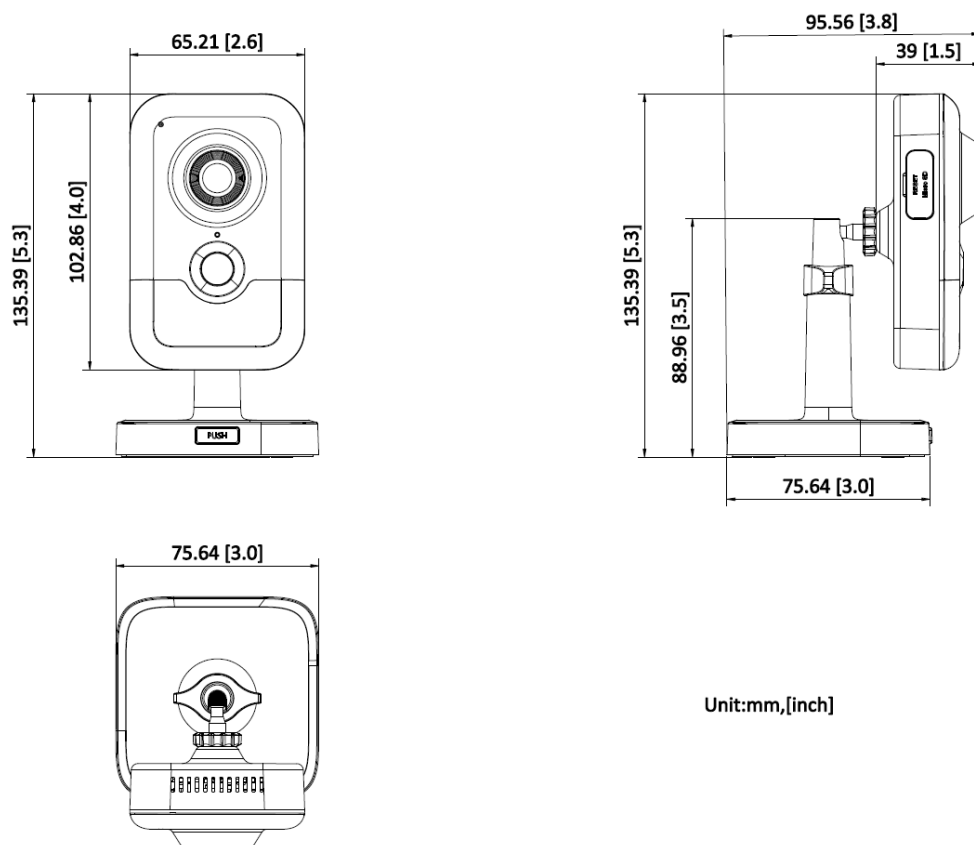
| Approval    |                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EMC         | CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014)                                 |
| RF          | CE-RED (EN 301489-1 V2.1.1(BT or 2.4G); EN 301489-17 V3.1.1(BT or 2.4G); EN 300328 V2.1.1(BT or 2.4G); EN 62311:2008(BT or 2.4G)) |
| Safety      | CE-LVD (EN 62368-1:2014/A11:2017)                                                                                                 |
| Environment | CE-RoHS (2011/65/EU)<br>WEEE (2012/19/EU)                                                                                         |

## ▪ Available Model

DS-2CD2423G2-IW(2.8mm)(W)

DS-2CD2423G2-IW(4mm)(W)

## ▪ Dimension



Unit:mm,[inch]

# See Far, Go Further



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