

## DS-2CD2421G0-I(D)(W) 2 MP PIR Cube Network Camera



- High quality imaging with 2 MP resolution
- Efficient H.265+ compression technology
- Provide real-time security via built-in two-way audio
- Detect human body through passive infrared which is sensitive to body temperature (PIR)



## ▪ Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	1920 × 1080
Min. Illumination	2 mm: Color: 0.01 Lux @ (F2.25, AGC ON), B/W: 0 Lux with IR 2.8 mm and 4 mm: Color: 0.01 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 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal length, 2, 2.8, and 4 mm optional
Focal Length & FOV	2 mm, horizontal FOV 137.2°, vertical FOV 80.1°, diagonal FOV 157.4° 2.8 mm, horizontal FOV 113.4°, vertical FOV 59.8°, diagonal FOV 135.6° 4 mm, horizontal FOV 91.5°, vertical FOV 46.1°, diagonal FOV 109.8°
Iris Type	Fixed
Aperture	2 mm: F2.25 2.8 mm: F1.6 4 mm: F1.6
Lens Mount	M12
DORI	
DORI	2 mm: D: 30.3 m, O: 12.0 m, R: 6.1 m, I: 3.0 m 2.8 mm: D: 37.3 m, O: 14.8 m, R: 7.5 m, I: 3.7 m 4 mm: D: 52.9 m, O: 21.0 m, R: 10.6 m, I: 5.3 m
Illuminator	
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) 60 Hz: 30 fps (1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG
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
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC

Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC)
<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface, ISAPI
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X(-W model does not support), QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS, SNMP, PPPoE
User/Host	Up to 32 users. 3 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
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
<b>Wi-Fi</b>	
Encryption Mode	-IW: 64/128-bit WEP, WPA-EAP/WPA2-EAP, WPA-PSK/WPA2-PSK
Wi-Fi Protocol	-IW: 802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM
Frequency Range	-IW: 2.412 GHz - 2.472 GHz
Channel Bandwidth	-IW: 20/40 MHz
Modulation	-IW: 802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM
Transfer Rate	-IW: 11b/g: 54 Mbps 11n: up to 150 Mbps
Wireless Range	-IW: Up to 50 m (The performance varies based on actual environment)
<b>Image</b>	
Wide Dynamic Range (WDR)	120 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser.
<b>PIR</b>	
PIR Angle	Horizontal: 90°, vertical: 80°
PIR Range	Up to 8 m
<b>Interface</b>	
Built-in Microphone	Yes
Built-in Speaker	Power: 1 W. Max. sound pressure level: 10 cm: 91 dB.

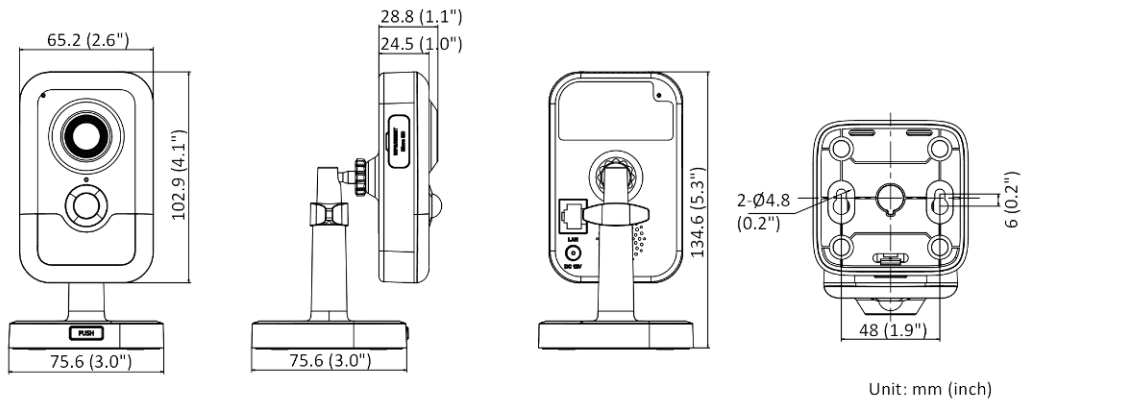
On-Board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
<b>Event</b>	
Basic Event	Motion detection, video tampering alarm, exception
Smart Event	Line crossing detection, intrusion detection
Linkage	Upload to FTP/memory card, notify surveillance center, send email, trigger recording, trigger capture, audible warning
<b>General</b>	
Power	-I: 12 VDC $\pm$ 25%, 0.49 A, max. 5.8 W, $\varnothing$ 5.5 mm coaxial power plug PoE: 802.3af, Class 3, 36 V to 57 V, 0.19 A to 0.12 A, max. 6.8 W -IW: 12 VDC $\pm$ 25%, 0.66 A, max. 7.9 W, $\varnothing$ 5.5 mm coaxial power plug PoE: 802.3af, Class 3, 36 V to 57 V, 0.25 A to 0.16 A, max. 8.9 W
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, mirror, password protection, privacy mask, watermark, IP address filter
Storage Conditions	-10 °C to 40 °C (14 °F to 104 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-10 °C to 40 °C (14 °F to 104 °F). Humidity 95% or less (non-condensing)
Dimension	2 mm: 102.9 mm $\times$ 65.2 mm $\times$ 28.8 mm (4.1" $\times$ 2.6" $\times$ 1.1") 2.8 mm and 4 mm: 102.9 mm $\times$ 65.2 mm $\times$ 32.6 mm (4.1" $\times$ 2.6" $\times$ 1.3")
Package Dimension	150 mm $\times$ 125 mm $\times$ 99 mm (5.9" $\times$ 4.9" $\times$ 3.9")
Weight	Approx. 115 g (0.3 lb.)
With Package Weight	Approx. 330 g (0.7 lb.)
<b>Approval</b>	
EMC	FCC (47 CFR Part 15, Subpart B) CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014)
RF	-IW: FCC ID (FCC Part 15.247(BT or 2.4G)); 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	CB (IEC 62368-1: 2014+A11) CE-LVD (EN 62368-1: 2014/A11: 2017)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

▪ **Available Model**

- DS-2CD2421G0-IW (2/2.8/4 mm)
- DS-2CD2421G0-I (2/2.8/4 mm)
- DS-2CD2421G0-IDW (2/2.8/4 mm)

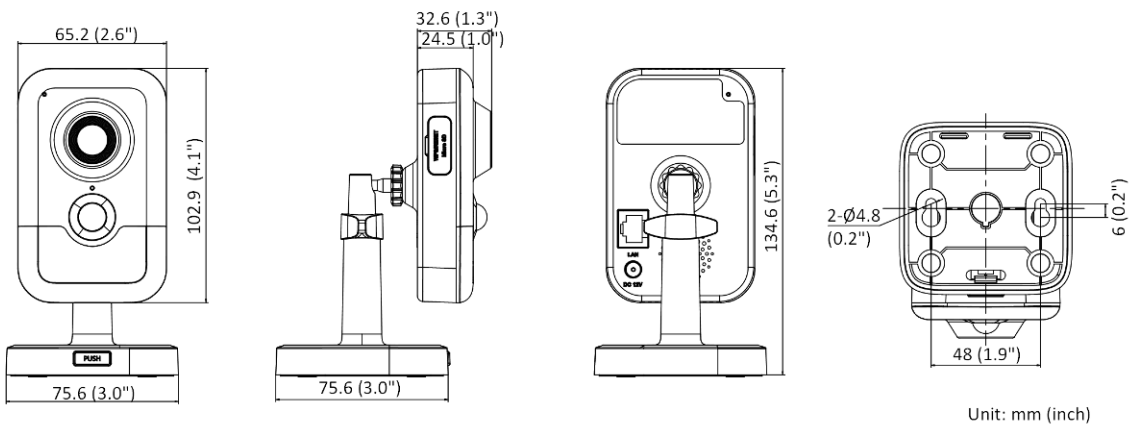
▪ **Dimension**

2 mm Model



Unit: mm (inch)

2.8 and 4 mm Model



Unit: mm (inch)

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