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**HIKVISION**

*Full* HD  
**1080p**

**DS-2CD2421G0-IDW**



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



- 1/2.7" Progressive Scan CMOS
- 1920 × 1080@30fps
- H.265, H.265+, H.264, H.264+
- Two-way Audio
- PIR: 10 m
- IR range: Up to 10 m
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- Wi-Fi (Optional)



## Specifications

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.028 Lux @ (F2.0, AGC ON)
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
WDR	DWDR
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°
Lens	
Lens Type	Fixed lens, 2 mm/2.8 mm/4 mm
Aperture	F2.0
FOV	2 mm: horizontal FOV: 132°, vertical FOV: 77°, diagonal FOV: 153° 2.8 mm: horizontal FOV: 107°, vertical FOV: 57°, diagonal FOV: 126° 4 mm: horizontal FOV: 85°, vertical FOV: 45°, diagonal FOV: 101°
Lens Mount	M12
Illuminator	
IR Range	Up to 10 m
Wavelength	850 nm
PIR	
Angle	Horizontal: 90°, vertical: 80°
Range	10 m
Video	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 720)
Sub-Stream	50Hz: 25fps (640 × 360) 60Hz: 30fps (640 × 360)
Video Compression	Main stream: H.265+/H.264+/H.265/H.264 Sub-stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile
H.265 Type	Main Profile
Video Bit Rate	32 Kbps to 8 Mbps
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz

Smart Feature-Set	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, audible warning
Image	
Image Enhancement	BLC, HLC, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
SNR	> 50dB
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB) local storage, ANR and NAS (NFS,SMB/CIFS)
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, IPv6, UDP, QoS, Bonjour
API	ONVIF(PROFILE S,PROFILE G), ISAPI, SDK
Security	Password protection, complicated password, IP address filter, Watermark, HTTPS encryption, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, 802.1X authentication (EAP-MD5)
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users, 3 levels: administrator, operator and user
Client	IVMS-4200, Hik-Connect, IVMS-4500, IVMS-5200
Web Browser	IE8+, Chrome 31.0-44, Firefox30.0-51, Safari8.0+
Interface	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Audio	1 input (built-in microphone), 1 output (built-in speaker)
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Wi-Fi	
Protocol	IEEE802.11b, 802.11g, 802.11n
Frequency	2.4 GHz - 2.4835 GHz
Channel Bandwidth	20/40MHz Support
Modulation	802.11b: DSSS, 802.11g: OFDM, 802.11n(20MHz&40MHz): OFDM
Security	64/128-bit WEP, WPA-EAP/WPA2-EAP, WPA-PSK/WPA2-PSK
Transfer Rate	11b: 11Mbps, 11g: 54Mbps, 11n: up to 150Mbps
Wireless Range	50 meters (The performance varies based on actual environment)
General	
General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, flash log
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-10 °C to 40°C (14 °F to 104 °F), humidity 95% or less (non-condensing)
Storage Conditions	-10 °C to 40°C (14 °F to 104 °F), humidity 95% or less (non-condensing)

Power Supply	DS-2CD2421G0-IW: 12 VDC $\pm$ 25%, $\Phi$ 5.5 mm coaxial power plug; PoE (802.3af, class 3) DS-2CD2421G0-IDW: 12 VDC $\pm$ 25%, $\Phi$ 5.5 mm coaxial power plug DS-2CD2421G0-I: 12 VDC $\pm$ 25%, $\Phi$ 5.5 mm coaxial power plug; PoE (802.3af, class 3)
Power Consumption and Current	DS-2CD2421G0-IW: 12 VDC, 0.54 A, max. 6.5 W PoE (802.3af, 36 V to 57 V), 0.21 A to 0.13 A, max. 7.5 W DS-2CD2421G0-IDW: 12 VDC, 0.54 A, max. 6.5 W DS-2CD2421G0-I: 12 VDC, 0.42 A, max. 5 W PoE (802.3af, 36 V to 57 V), 0.17 A to 0.11 A, max. 6 W
Material	Plastic
Dimensions	Camera: 102.9 $\times$ 65.2 $\times$ 32.6 mm (4" $\times$ 2.6" $\times$ 1.3") With package: 150 $\times$ 125 $\times$ 99 mm (5.9" $\times$ 4.9" $\times$ 3.9")
Weight	Camera: Approx. 120 g (0.3 lb.) With package: Approx. 380 g (0.8 lb.)
<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); LOA (IEC/EN 60950-1)
Chemistry	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## Available Model

DS-2CD2421G0-IDW (2.8 mm), DS-2CD2421G0-IW (2.8 mm), DS-2CD2421G0-I (2.8 mm)

## Dimension

