

# DS-2CD3021G0-I Datasheet

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## Overview

High quality imaging with 2 MP resolution  
Efficient H.265+ compression technology to save bandwidth and storage  
Water and dust resistant (IP67)

## Specification

| DS-2CD3021G0-I Specification |                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera                       |                                                                                                                                                                                                     |
| Image Sensor                 | 1/2.8" 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                                                                                                                                                                                                 |
| Wide Dynamic Range           | Digital WDR                                                                                                                                                                                         |
| Day & Night                  | IR Cut Filter                                                                                                                                                                                       |
| Angle Adjustment             | Pan: 0° to 360°, tilt: 0° to 180°, rotate: 0° to 360°                                                                                                                                               |
| Lens                         |                                                                                                                                                                                                     |
| Focus                        | Fixed                                                                                                                                                                                               |
| Lens Type                    | 2.8/4/6 mm                                                                                                                                                                                          |
| FOV                          | 2.8mm: Horizontal FOV: 103°, vertical FOV: 59°, diagonal FOV: 118° 4 mm: Horizontal FOV: 89°, vertical FOV: 47°, diagonal FOV: 107° 6 mm: Horizontal FOV: 54°, vertical FOV: 31°, diagonal FOV: 62° |
| Aperture                     | F2.0                                                                                                                                                                                                |
| Lens Mount                   | M12                                                                                                                                                                                                 |
| Auto-Iris                    | No                                                                                                                                                                                                  |
| Illuminator                  |                                                                                                                                                                                                     |
| IR Range                     | Up to 30 m                                                                                                                                                                                          |
| Wavelength                   | 850nm                                                                                                                                                                                               |
| Video                        |                                                                                                                                                                                                     |
| Max. Resolution              | 1920 × 1080                                                                                                                                                                                         |
| Main Stream                  | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)                                                                                                 |
| Sub-Stream                   | 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)                                                                                                         |

|                                 |                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Third Stream</b>             | 50Hz: 1fps (1280 × 720, 640 × 360) 60Hz: 1fps (1280 × 720, 640 × 360)                                                                                                                                                                                           |
| <b>Video Compression</b>        | Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264                                                                                                                                                                                |
| <b>Video Bit Rate</b>           | 32 Kbps to 16 Mbps                                                                                                                                                                                                                                              |
| <b>H.264 Type</b>               | Baseline Profile/Main Profile/High Profile                                                                                                                                                                                                                      |
| <b>H.265 Type</b>               | Main Profile                                                                                                                                                                                                                                                    |
| <b>H.264+</b>                   | Main stream supports                                                                                                                                                                                                                                            |
| <b>H.265+</b>                   | Main stream supports                                                                                                                                                                                                                                            |
| <b>Region of Interest (ROI)</b> | 1 fixed region for main stream                                                                                                                                                                                                                                  |
| <b>Network</b>                  |                                                                                                                                                                                                                                                                 |
| <b>Simultaneous Live View</b>   | Up to 6 channels                                                                                                                                                                                                                                                |
| <b>API</b>                      | ONVIF (PROFILE S, PROFILE G), ISAPI, SDK                                                                                                                                                                                                                        |
| <b>Protocols</b>                | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP™, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS                                                                                                                 |
| <b>User/Host</b>                | Up to 32 users,3 levels: Administrator, Operator and User                                                                                                                                                                                                       |
| <b>Security</b>                 | Password protection, complicated password, HTTPS encryption, watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2 |
| <b>Client</b>                   | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                             |
| <b>Web Browser</b>              | IE8+, Chrome 41.0-44, Firefox30.0-51, Safari8.0-11                                                                                                                                                                                                              |
| <b>Image</b>                    |                                                                                                                                                                                                                                                                 |
| <b>Day/Night Switch</b>         | Day/Night/Auto/Schedule                                                                                                                                                                                                                                         |
| <b>DNR</b>                      | 3D DNR                                                                                                                                                                                                                                                          |
| <b>Image Enhancement</b>        | BLC/3D DNR/HLC                                                                                                                                                                                                                                                  |
| <b>Image Settings</b>           | Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser                                                                                                                                                 |
| <b>SNR</b>                      | > 50dB                                                                                                                                                                                                                                                          |
| <b>Interface</b>                |                                                                                                                                                                                                                                                                 |
| <b>Communication Interface</b>  | 1 RJ45 10M/100M self-adaptive Ethernet port                                                                                                                                                                                                                     |
| <b>Smart Feature-Set</b>        |                                                                                                                                                                                                                                                                 |
| <b>Basic Event</b>              | Motion detection, video tampering alarm, exception (IP address conflict, illegal login)                                                                                                                                                                         |
| <b>Smart Event</b>              | Line crossing detection, 1 line configurable Intrusion detection, 1 region configurable                                                                                                                                                                         |
| <b>General</b>                  |                                                                                                                                                                                                                                                                 |
| <b>Linkage Method</b>           | Upload to FTP, notify surveillance center, send email, trigger capture                                                                                                                                                                                          |
| <b>Firmware Version</b>         | V5.5.93                                                                                                                                                                                                                                                         |
| <b>General Function</b>         | Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter, flash log                                                                                                                                                     |
| <b>Storage Conditions</b>       | -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)                                                                                      |
| Power Supply                     | 12 VDC ± 25%, reverse polarity protection; PoE (802.3af, class 3)                                                                                                |
| Power Consumption and Current    | 12 VDC, 0.4 A, max. 5 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.13 A, max. 7 W                                                                                  |
| Camera Dimension                 | Camera: 67.8 × 66.2 × 177.6 mm (2.7" × 2.6" × 7") With package: 216 mm × 121 mm × 118 mm (8.5" × 4.8" × 4.6")                                                    |
| Camera Weight                    | Camera: approx. 270 g (0.6 lb.) With package: approx. 500 g (1.1 lb.)                                                                                            |
| Approval                         |                                                                                                                                                                  |
| EMC                              | 47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015 |
| Safety                           | UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015, IEC/EN 60950-1             |
| Environment                      | 2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006                                                                                                             |
| Protection                       | Ingress protection: IP67 (IEC 60529-2013)                                                                                                                        |

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