

DS-2CD2147G2(-SU)

4 MP ColorVu Fixed Dome Network Camera

ColorVu



Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- High quality imaging with 4 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 130 dB WDR technology
- 24/7 colorful imaging
- Focus on human and vehicle targets classification based on deep learning
- -SU: Built-in microphone for real-time audio security, audio and alarm interface available
- Water and dust resistant (IP67) and vandal resistant (IK10)



▪ Specification

| Camera | |
|-----------------------------|--|
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Min. Illumination | 0.0005 Lux @ (F1.0, AGC ON) |
| Shutter Speed | 1/3 s to 1/100,000 s |
| Slow Shutter | Yes |
| P/N | P/N |
| Wide Dynamic Range | 130 dB |
| Angle Adjustment | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355° |
| Lens | |
| Lens Type | Fixed focal lens, 2.8 and 4 mm optional |
| Focal Length & FOV | 2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134° 4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115° |
| Lens Mount | M16 |
| Iris Type | Fixed |
| Aperture | F1.0 |
| Blue Glass Module | Blue glass module to reduce ghost phenomenon |
| Working Distance | 2.8 mm: 2.5 m to ∞ 4 mm: 3.5 m to ∞ |
| DORI | |
| DORI | 2.8 mm, D: 58 m, O: 23 m, R: 11 m, I: 2 m 4 mm, D: 77 m, O: 30 m, R: 15 m, I: 7 m |
| Video | |
| Max. Resolution | 2688 × 1520 |
| Main Stream | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360) |
| Third Stream | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 *Third stream is supported under certain settings. |
| Video Bit Rate | 32 Kbps to 8 Mbps |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.265 Type | Main Profile |
| H.264+ | Main stream supports |
| H.265+ | Main stream supports |
| Bit Rate Control | CBR/VBR |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding |
| Region of Interest (ROI) | 1 fixed region for main stream and sub-stream |

| Audio | |
|-----------------------------|---|
| Environment Noise Filtering | -SU: Yes |
| Audio Sampling Rate | -SU: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |
| Audio Compression | -SU: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC |
| Audio Bit Rate | -SU: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC) |
| Network | |
| Simultaneous Live View | Up to 6 channels |
| API | Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP |
| 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 | MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported. |
| Client | iVMS-4200, Hik-Connect, Hik-Central |
| 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+ |
| Image | |
| SNR | ≥ 52 dB |
| Image Enhancement | BLC, HLC, 3D DNR |
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser |
| Interface | |
| Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port |
| On-Board Storage | Built-in memory card slot, support microSD/SDHC/SDXC/TF card, up to 256 GB |
| Built-in Microphone | -SU: Yes |
| Audio | -SU: 1 input (line in), max. input amplitude: 3.3 vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), max. output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound |
| Alarm | -SU: 1 input, 1 output (max. 12 VDC, 30 mA) |
| Hardware Reset | Yes |
| Event | |
| Basic Event | Motion detection (human and vehicle targets classification), video tampering alarm, exception |
| Smart Event | Scene change detection |
| Deep Learning Function | |
| Face Capture | Yes |

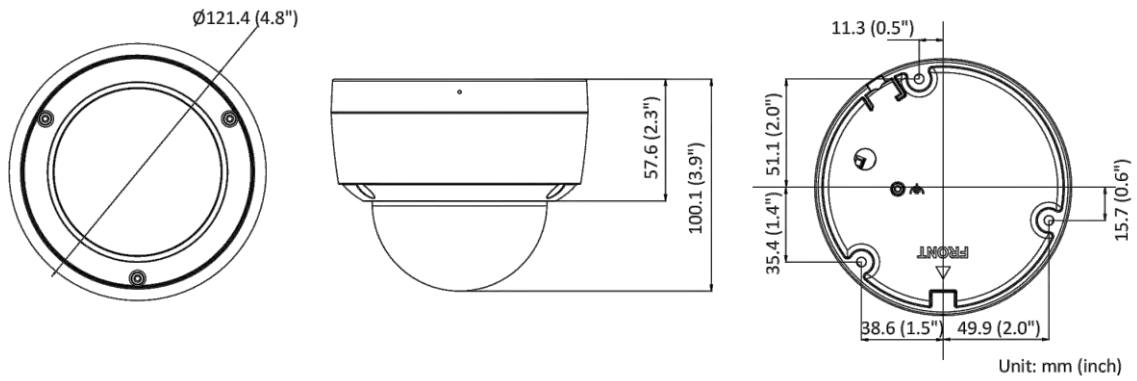
| | |
|----------------------------------|---|
| Perimeter Protection | Line crossing detection, intrusion detection, region entrance detection, region exiting detection |
| General | |
| Power | 12 VDC \pm 25% PoE: 802.3af, Class 3 |
| Camera Material | Metal |
| Screw Material | SUS304 |
| Camera Dimension | \varnothing 121.4 mm \times 100.1 mm (\varnothing 4.8" \times 3.9") |
| Package Dimension | 150 mm \times 150 mm \times 141 mm (5.9" \times 5.9" \times 5.6") |
| Camera Weight | Approx. 580 g (1.2 lb.) |
| With Package Weight | Approx. 820 g (1.6 lb.) |
| 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) |
| Linkage Method | Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger capture, send email -SU: audible warning |
| Firmware Version | V5.5.112 |
| Power Consumption and Current | 12 VDC, 0.4 A, max. 5 W PoE (802.3af, 36 V to 57 V), 0.20 A to 0.15 A, max. 6.5 W |
| Power Supply | 12 VDC \pm 25% PoE: 802.3af, Class 3 |
| Power Interface | \varnothing 5.5 mm coaxial power plug |
| Web Client 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, privacy mask, flash log, password reset via email, pixel counter |
| Software Reset | Yes |
| Approval | |
| EMC | FCC SDoC (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 VoC (ICES-003: Issue 6, 2016) |
| Safety | UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014) |
| 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) |

▪ **Available Model**

DS-2CD2147G2 (2.8/4 mm)

DS-2CD2147G2-SU (2.8/4 mm)

▪ **Dimension**



▪ **Accessory**

▪ **Optional**

| DS-1253ZJ-M Rain Shade | DS-1271ZJ-120 Pendant Mount | DS-1272ZJ-120B Wall mount | DS-1275ZJ-SUS Vertical Pole Mount |
|---|---|--|---|
|  |  |  |  |
| DS-1280ZJ-DM46 Junction Box | DS-1276ZJ-SUS Corner Mount | DS-1272ZJ-120 Wall mount | |
|  |  |  | |

Distributed by

**HIKVISION****Headquarters**

No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
overseasbusiness@hikvision.com

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Australia
T +61-2-8599-4233
salesau@hikvision.com

Hikvision India
T +91-22-28469900
sales@pramahikvision.com

Hikvision Canada
T +1-866-200-6690
sales.canada@hikvision.com

Hikvision Thailand
T +662-275-9949
sales.thailand@hikvision.com

Hikvision Europe
T +31-23-5542770
sales.eu@hikvision.com

Hikvision Italy
T +39-0438-6902
info.it@hikvision.com

Hikvision Brazil
T +55 11 3318-0050
Latam.support@hikvision.com

Hikvision Turkey
T +90 [216]521 7070- 7074
sales.tr@hikvision.com

Hikvision Malaysia
T +601-7652-2413
sales.my@hikvision.com

Hikvision UK & Ireland
T +01628-902140
sales.uk@hikvision.com

Hikvision South Africa
Tel: +27 (10) 0351172
sale.africa@hikvision.com

Hikvision France
T +33(0)1-85-330-450
info.fr@hikvision.com

Hikvision Kazakhstan
T +7-727-9730667
nikia.panfilov@hikvision.ru

Hikvision Vietnam
T +84-974270888
sales.vt@hikvision.com

Hikvision UAE
T +971-4-4432090
salesme@hikvision.com

Hikvision Singapore
T +65-6684-4718
sg@hikvision.com

Hikvision Spain
T +34-91-737-16-55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9438
uzb@hikvision.ru

Hikvision Hong Kong
T +852-2151-1761
info.hk@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Korea
T +82-(0)31-731-8817
sales.korea@hikvision.com

Hikvision Poland
T +48-22-460-01-50
info.pl@hikvision.com

Hikvision Indonesia
T +62-21-2933759
Sales.Indonesia@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com