

## DS-2CD2T47G2-LSU/SL

4 MP ColorVu Strobe Light and Audible Warning Fixed Bullet 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 backlight due to 130 dB WDR technology
- Focus on human and vehicle targets classification based on deep learning
- 24/7 colorful imaging
- Active strobe light and audio alarm to warn intruders off
- Provide real-time security via built-in two-way audio
- Audio and alarm interface available
- Water and dust resistant (IP67)



## ▪ Specification

| Camera                 |                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                      |
| Min. Illumination      | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light                                                                                                                                                        |
| Shutter Speed          | 1/3 s to 1/100,000 s                                                                                                                                                                                              |
| Slow Shutter           | Yes                                                                                                                                                                                                               |
| Wide Dynamic Range     | 130 dB                                                                                                                                                                                                            |
| Angle Adjustment       | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°                                                                                                                                                              |
| Lens                   |                                                                                                                                                                                                                   |
| Focal Length & FOV     | 2.8 mm, horizontal FOV 111.9°, vertical FOV 60.5°, diagonal FOV 133.6°<br>4 mm, horizontal FOV 95.2°, vertical FOV 50.6°, diagonal FOV 114.7°<br>6 mm, horizontal FOV 58.4°, vertical FOV 31°, diagonal FOV 68.7° |
| Lens Mount             | M16                                                                                                                                                                                                               |
| Aperture               | F1.0                                                                                                                                                                                                              |
| Depth of Field         | 2.8 mm: 3.1 m to ∞<br>4 mm: 5.4 m to ∞<br>6 mm: 12.1 m to ∞                                                                                                                                                       |
| DORI                   |                                                                                                                                                                                                                   |
| DORI                   | 2.8 mm, D: 58.2 m, O: 23.1 m, R: 11.6 m, I: 5.8 m<br>4 mm, D: 77 m, O: 30.5 m, R: 15.4 m, I: 7.7 m<br>6 mm, D: 115.6 m, O: 45.9 m, R: 23.1 m, I: 11.6 m                                                           |
| Illuminator            |                                                                                                                                                                                                                   |
| Smart Supplement Light | Yes                                                                                                                                                                                                               |
| White Light Range      | Up to 60 m                                                                                                                                                                                                        |
| Visual Alarm           | Yes                                                                                                                                                                                                               |
| Video                  |                                                                                                                                                                                                                   |
| Max. Resolution        | 2688 × 1520                                                                                                                                                                                                       |
| Main Stream            | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                                                      |
| Sub-Stream             | 50 Hz: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (640 × 480, 640 × 360)                                                                                                                                      |
| Third Stream           | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings.                              |
| Video Compression      | Main stream: H.265/H.264/H.265+/H.264+<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264<br>*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.265 and H.264 encoding                                                                                                                                                                                                                                                       |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream                                                                                                                                                                                                                                  |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                |
| Audio Compression           | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC                                                                                                                                                                                                                            |
| Audio Bit Rate              | 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)                                                                                                                                                 |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                                                                                                            |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                            |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                |
| 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, WebSocket, WebSockets                                                                                                     |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                               |
| API                         | Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK                                                                                                                                                                                                     |
| 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             | NAS (NFS, SMB/CIFS), auto network replenishment (ANR), MicroSD/SDHC/SDXC card (256 GB) local storage<br>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+<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                                                                        |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                            |
| Image Settings              | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser                                                                                                                                                     |
| Day/Night Switch            | Auto, Schedule                                                                                                                                                                                                                                                                 |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                        |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                               |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                  |
| On-Board Storage            | Built-in memory card slot, support microSD/SDHC/SDXC slot, up to 256 GB                                                                                                                                                                                                        |
| Built-in Microphone         | Yes                                                                                                                                                                                                                                                                            |
| Built-in Speaker            | 2 W, 10 cm: 97 dB                                                                                                                                                                                                                                                              |
| Audio                       | 1 input (line in), two-core terminal block , max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium<br>1 output (line out),two-core terminal block , max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm                       | 1 input, 1 output (max. 24 VDC/24 VAC, 1 A)                                                                                                                                                                                                                                    |
| Reset Key                   | 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<br>Supports human and vehicle targets classification                                                                                                                                                                                                  |
| General                          |                                                                                                                                                                                                                                                                                                                                                         |
| Linkage Method                   | Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, strobe light, audible warning, trigger alarm output                                                                                                                                                                                          |
| Material                         | Aluminum alloy body                                                                                                                                                                                                                                                                                                                                     |
| Dimension                        | 289.5 mm × Ø105 mm (11.4" × Ø4.1")                                                                                                                                                                                                                                                                                                                      |
| Package Dimension                | 386 mm × 156 mm × 155 mm (15.2" × 6.1" × 6.1")                                                                                                                                                                                                                                                                                                          |
| Weight                           | Approx. 1165 g (2.6 lb.)                                                                                                                                                                                                                                                                                                                                |
| With Package Weight              | Approx. 1639 g (3.6 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)                                                                                                                                                                                                                                                                               |
| Language                         | 33 languages<br>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                                                                                                                                                                                                                                                       |
| Firmware Version                 | V5.5.114                                                                                                                                                                                                                                                                                                                                                |
| Software Reset                   | Yes                                                                                                                                                                                                                                                                                                                                                     |
| Power Consumption and Current    | 12 VDC, 0.67 A, max. 8 W<br>PoE (802.3af, 36 V to 57 V), 0.25 A to 0.16 A, max. 9 W                                                                                                                                                                                                                                                                     |
| Power Supply                     | 12 VDC ± 25%, reverse polarity protection<br>PoE: 802.3af, Class 3                                                                                                                                                                                                                                                                                      |
| Power Interface                  | Ø5.5 mm coaxial power plug                                                                                                                                                                                                                                                                                                                              |
| Approval                         |                                                                                                                                                                                                                                                                                                                                                         |
| EMC                              | FCC SDoC: 47 CFR Part 15, Subpart B;<br>CE-EMC: EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014;<br>RCM: AS/NZS CISPR 32: 2015;<br>IC VoC: ICES-003: Issue 6, 2016;<br>KC: KN 32: 2015, KN 35: 2015                                                                                                                  |
| Safety                           | UL: UL 60950-1;<br>CB: IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014;<br>CE-LVD: EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014;<br>LOA: IEC/EN 60950-1                                                                                                                                                                         |

|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| Environment | CE-RoHS: 2011/65/EU;<br>WEEE: 2012/19/EU;<br>Reach: Regulation (EC) No 1907/2006 |
| Protection  | IP67: IEC 60529-2013                                                             |

### ▪ Available Model

DS-2CD2T47G2-LSU/SL (2.8/4/6 mm)

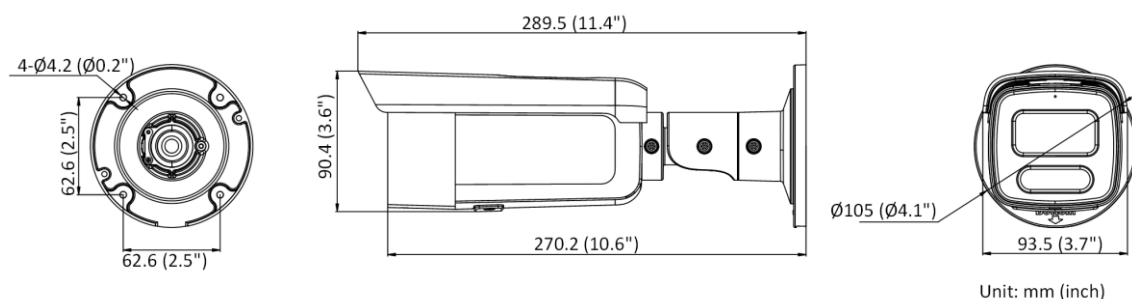
### ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.                                             |
| Moderate protection    | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

### ▪ Dimension



**▪ Accessory**
**▪ Optional**

| DS-1276ZJ-SUS<br>Corner Mount                                                     | DS-1275ZJ-S-SUS<br>Vertical Pole<br>Mount                                         | DS-1280ZJ-S<br>Junction Box                                                       | DS-1275ZJ-SUS<br>Vertical Pole<br>Mount                                             | DS-1260ZJ<br>Junction Box                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |

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