

## DS-2CD2747G2T-LZS 4 MP ColorVu Motorized Varifocal 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
- Motorized varifocal lens for easy installation and monitoring
- 24/7 colorful imaging
- Clear imaging against strong backlight due to 130 dB WDR technology
- Focus on human and vehicle targets classification based on deep learning
- Efficient H.265+ compression technology
- Water and dust resistant (IP67) and vandal resistant (IK10)

## ▪ Specification

| <b>Camera</b>               |  |
|-----------------------------|--|
| Image Sensor                | 1/1.8" Progressive Scan CMOS   |
| Max. Resolution             | 2688 × 1520  |
| Min. Illumination           | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light   |
| Shutter Time                | 1/3 s to 1/100,000 s   |
| Angle Adjustment            | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°   |
| Day & Night                 | 24/7 color imaging   |
| <b>Lens</b>                 |  |
| Lens Type                   | Varifocal lens, motorized lens, 2.8 to 12 mm   |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 105.4° to 56.4°, vertical FOV 53.9° to 31.6°, diagonal FOV 131.8° to 65.1°  |
| Lens Mount                  | Integrated   |
| Iris Type                   | DC iris  |
| Aperture                    | F1.0   |
| Depth of Field              | 1.9 m to ∞   |
| <b>DORI</b>                 |  |
| DORI                        | D: 66.8 m to 110.4 m, O: 26.5 m to 43.8 m, R: 13.4 m to 22.1 m, I: 6.7 m to 11 m   |
| <b>Illuminator</b>          |  |
| Supplement Light Type       | White Light  |
| Supplement Light Range      | Up to 40 m   |
| Smart Supplement Light      | Yes  |
| <b>Video</b>                |  |
| 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 (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 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   |
| Bit Rate Control            | VBR, CBR   |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding   |
| Region of Interest (ROI)    | 1 fixed region(s) for main stream and sub-stream   |
| <b>Audio</b>                |  |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC   |
| 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-LC)  |
| 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<br>3 user levels: administrator, operator, and user  |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address) |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)<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, IE 11<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+   |
| <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            | Day, Night, Auto, Schedule  |
| Wide Dynamic Range (WDR)    | 130 dB  |
| SNR                         | ≥ 52 dB   |
| Image Enhancement           | BLC, HLC, 3D DNR  |
| Privacy Mask                | 4 regions of privacy mask   |
| <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/microSDHC/microSDXC card, up to 512 GB   |
| Audio                       | 1 input (line in), 2-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium<br>1 output (line out), 2-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium  |
| Alarm                       | 1 input(s), 1 output(s) (max. 24 VDC/24 VAC, 1 A)   |
| Reset Key                   | Yes   |
| <b>Event</b>                |   |
| Basic Event                 | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error   |

|                                  |   |
|----------------------------------|---|
| Smart Event                      | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), Scene change detection   |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email, trigger alarm output, white light flashing   |
| <b>Deep Learning Function</b>    |   |
| Face Capture                     | Yes   |
| <b>General</b>                   |   |
| Power                            | 12 VDC $\pm$ 25%, 0.9 A, max. 10.8 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection<br>PoE: 802.3af, Class 3, 36 V to 57 V, 0.36 A to 0.23 A, max. 12.9 W  |
| Dimension                        | $\varnothing$ 155 mm $\times$ 152 mm ( $\varnothing$ 6.1" $\times$ 6.0")  |
| Package Dimension                | 227 mm $\times$ 198 mm $\times$ 220 mm (8.9" $\times$ 7.8" $\times$ 8.7")   |
| Weight                           | Approx. 1600 g (3.4 lb.)  |
| With Package Weight              | Approx. 2150 g (4.6 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: 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                 | Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter   |
| <b>Approval</b>                  |   |
| EMC                              | FCC: 47 CFR Part 15, Subpart B<br>CE-EMC: EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014<br>RCM: AS/NZS CISPR 32: 2015<br>IC: ICES-003: Issue 7<br>KC: KN32: 2015, KN35: 2015   |
| Safety                           | UL: UL 62368-1<br>CB: IEC 62368-1: 2014 + A11<br>CE-LVD: EN 62368-1: 2014/A11: 2017<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<br>IK10: IEC 62262: 2002   |

## ▪ 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.

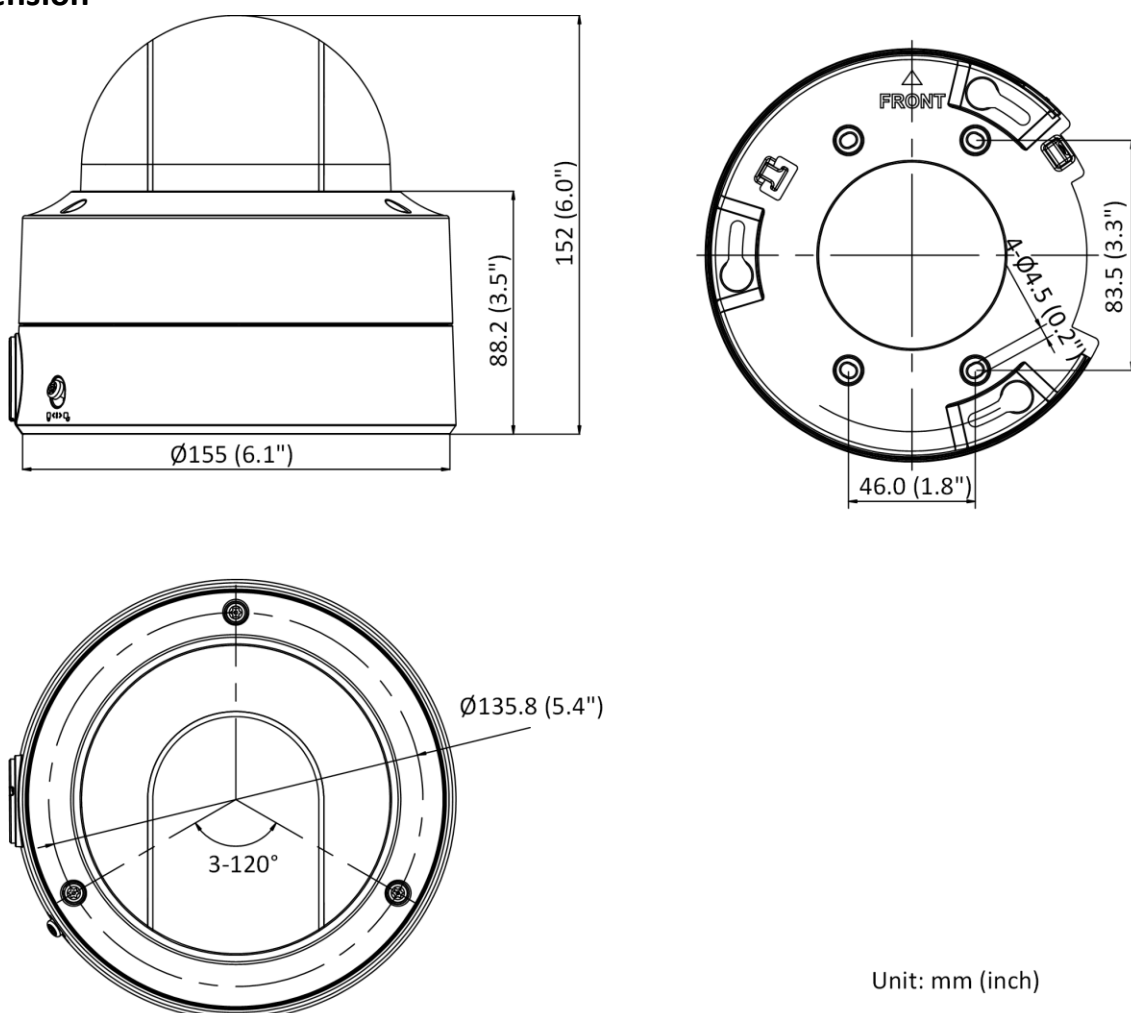
This model has NO SPECIFIC PROTECTION.

| 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.  |

▪ **Available Model**

DS-2CD2747G2T-LZS (2.8-12 mm)






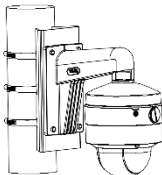

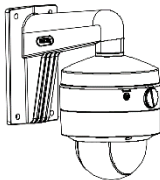
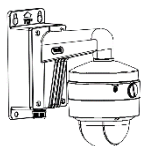
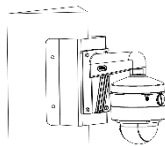
▪ **Dimension**



Unit: mm (inch)

▪ **Accessory**

▪ **Optional**

| DS-1475ZJ-SUS<br>Vertical Pole Mount  | DS-1471ZJ-155<br>Pendant Mount  | DS-1473ZJ-155<br>Wall Mount   | DS-1473ZJ-155B<br>Wall Mount  | DS-1476ZJ-SUS<br>Corner Mount   |
|---|---|---|---|---|
|  |  |  |   |  |
|  |  |  |  |  |

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