

## DS-2CD2787G2H-LIPTRZS2U/SL

8 MP ColorVu Motorized PTRZ Varifocal Dome Network Camera

ColorVu



- Motorized Pan, Tilt, Rotate, Zoom for easy installation and monitoring
- 24/7 colorful imaging via ColorVu technology
- IR light & White light & Smart Hybrid Light modes
- Clear imaging against strong back light due to 130 dB WDR technology
- Human and vehicle classification based on deep learning
- Clear two-way audio with dual-array microphone
- -SL model: Active strobe light and audio alarm to warn intruders off
- Water and dust resistant (IP66) and vandal resistant (IK10)
- Audio and alarm interface available

## ▪ Specification

| Camera                 |                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                               |
| Max. Resolution        | 3840 × 2160                                                                                                                                                                                |
| Min. Illumination      | Color: 0.0028 Lux @ (F1.2, AGC ON), 0 Lux with light                                                                                                                                       |
| Shutter Time           | 1/3 s to 1/100, 000 s                                                                                                                                                                      |
| Day & Night            | IR cut filter                                                                                                                                                                              |
| Angle Adjustment       | Remote adjustment (Max. 1000 cycles)<br>Pan: 0° to 350°, tilt: 0° to 85°, rotate: 0° to 350°                                                                                               |
| Lens                   |                                                                                                                                                                                            |
| Lens Type              | Varifocal lens, motorized lens, 2.8 to 12 mm                                                                                                                                               |
| Focal Length & FOV     | 2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58.1° to 23.1°, diagonal FOV 137.4° to 47.3°                                                                                    |
| Lens Mount             | Integrated                                                                                                                                                                                 |
| Iris Type              | Fixed                                                                                                                                                                                      |
| Aperture               | Max. F1.2                                                                                                                                                                                  |
| Depth of Field         | 1 m to ∞                                                                                                                                                                                   |
| DORI                   |                                                                                                                                                                                            |
| DORI                   | Wide: D: 89 m, O: 35 m, R: 18 m, I: 9 m<br>Tele: D: 220 m, O: 87 m, R: 44 m, I: 22 m                                                                                                       |
| Illuminator            |                                                                                                                                                                                            |
| Supplement Light Type  | IR, White Light                                                                                                                                                                            |
| Supplement Light Range | Up to 40 m                                                                                                                                                                                 |
| Smart Supplement Light | Yes                                                                                                                                                                                        |
| IR Wavelength          | 850 nm                                                                                                                                                                                     |
| Video                  |                                                                                                                                                                                            |
| Main Stream            | 50 Hz:<br>25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>24 fps (3840 × 2160)<br>30 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)          |
| Sub-Stream             | 50 Hz:<br>25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                 |
| Third Stream           | 50 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>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.264+/H.265+,<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 16 Mbps                                                                                                                                                                         |
| H.264 Type             | Baseline Profile, Main Profile, High Profile                                                                                                                                               |

|                             |                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                                                                          |
| 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                                                                                                                                                                                                                                                                                                                                         |
| <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, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP                                                                                                                                                                                               |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                                                                      |
| API                         | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                                                                             |
| 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)                                                                                                                                                                                                                                                                                                                                 |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                                                                   |
| Web Browser                 | Plug-in required live view: IE 11,<br>Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+                                                                                                                                                                                                          |
| <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                                                                                                                                                                                                                                                                                                                                                            |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                                                                                                                      |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                               |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                                                                                                                                |
| Privacy Mask                | 4 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                                                  |
| <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                                                                                                                                                                                                                                                                                                     |
| Built-in Microphone         | Yes, 2 built-in microphones                                                                                                                                                                                                                                                                                                                                                           |
| Built-in Speaker            | Yes, 1 built-in speaker, Max. power consumption: 2 W, max. sound pressure level: 10 cm: 97 dB.                                                                                                                                                                                                                                                                                        |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
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| Audio                            | 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium                                                       |
| Alarm                            | 1 input, 1 output (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, exception                                                                                                                                                                                                                           |
| Smart Event                      | Scene change detection                                                                                                                                                                                                                                                                                                                                |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email, audible warning, trigger alarm output, white light flashing                                                                                                                                                                                |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                   |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 1.35 A, max. 16 W, reverse polarity protection, two-core terminal block, PoE: IEEE 802.3at, Class 4, max. 18 W                                                                                                                                                                                                                      |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
| Dimension                        | $\varnothing$ 155 mm $\times$ 140.4 mm ( $\varnothing$ 6.10" $\times$ 5.23")                                                                                                                                                                                                                                                                          |
| Package Dimension                | 206 mm $\times$ 206 mm $\times$ 230 mm (8.1" $\times$ 8.1" $\times$ 9.1")                                                                                                                                                                                                                                                                             |
| Weight                           | Approx. 820 g (1.8 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 1200 g (2.6 lb.)                                                                                                                                                                                                                                                                                                                              |
| Storage Conditions               | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                     |
| Startup and Operating Conditions | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                     |
| General Function                 | Heartbeat, mirror, password reset via email, pixel counter, anti-banding, flash log                                                                                                                                                                                                                                                                   |
| 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 |
| Flashing Light                   | White Light                                                                                                                                                                                                                                                                                                                                           |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | 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                           | 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                       | IK10: IEC 62262:2002, IP66: IEC 60529-2013                                                                                                                                                                                                                                                                                                            |

## ▪ 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.

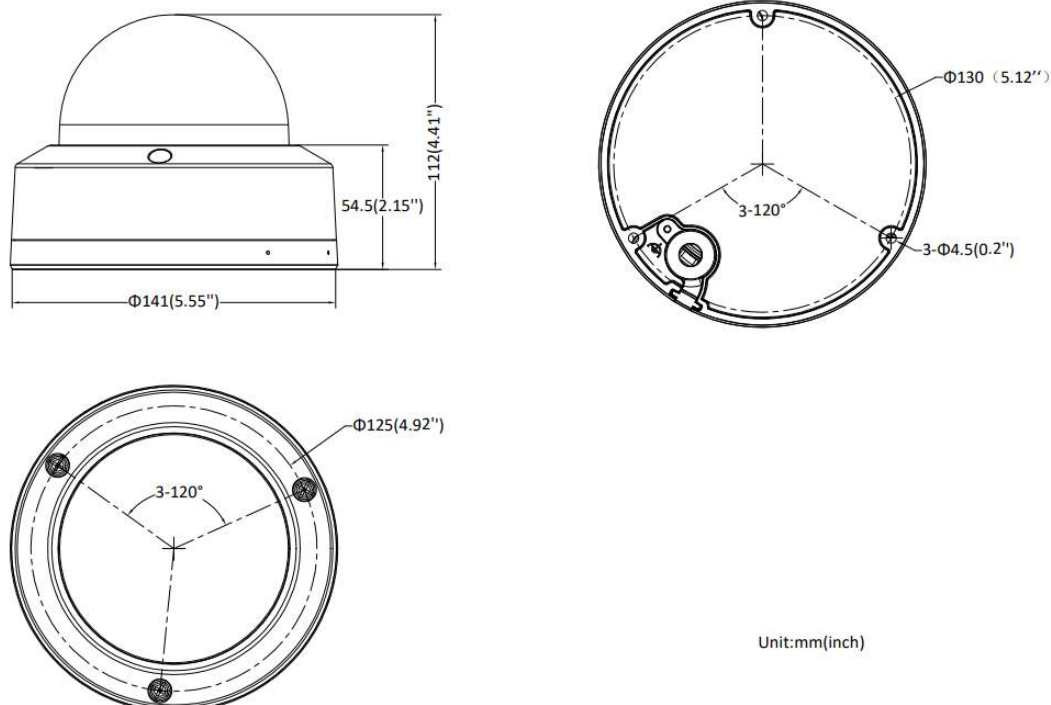
This model has NO SPECIFIC PROTECTION.

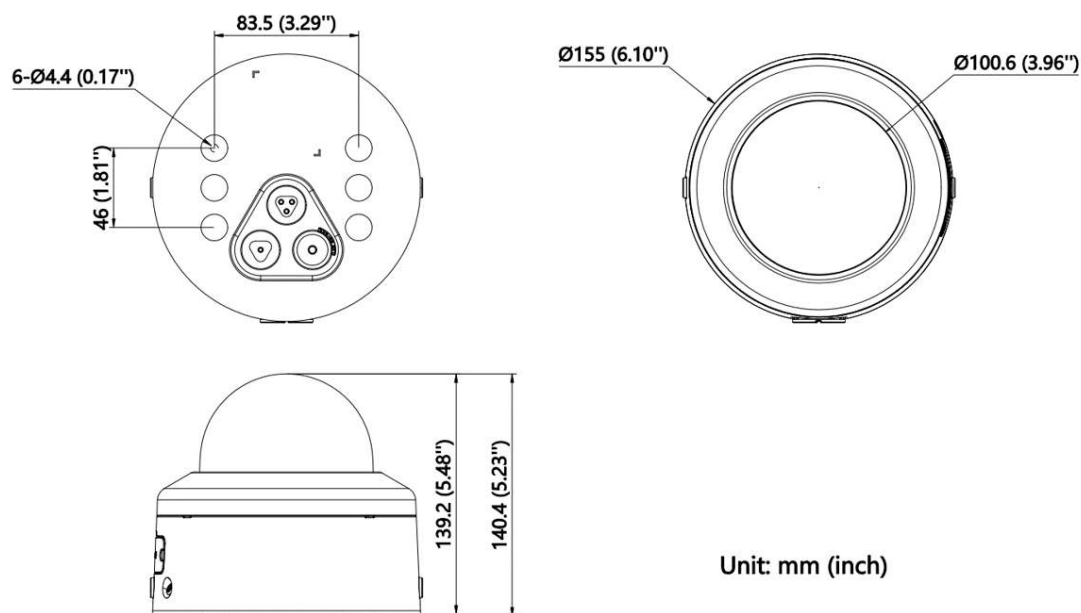
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD2787G2H-LIPTRZS2U/SL(2.8-12mm)

## ▪ Dimension





## ▪ Accessory

### ▪ Optional

| DS-1473ZJ-155<br>Wall mount                                                         | DS-1471ZJ-155<br>Pendant Mount                                                      | DS-1475ZJ-SUS<br>Vertical pole mount                                                | DS-1476ZJ-SUS<br>Corner mount                                                         | DS-1250ZJ<br>Water-proof                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |

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