# DS-2CD2H47G3-LIZS2UY/S(L)(RB)

**4 MP Smart Hybrid Light with ColorVu Motorized Varifocal Turret Network Camera**

ColorVu 3.0







- Motorized varifocal lens for easy installation and monitoring
- Innovative socket design, highly waterproof and user-friendly
- 24/7 colorful imaging and HikAI-ISP for excellent noise reduction effect
- Anti-corrosion design for stable protection (NEMA 4X)
- Crystal clear audio with Arrayed Dual-Mic
- Active strobe light and audio alarm to warn trespassers off
- Smart Hybrid Light: integrates IR and White lights, 3 supplemental lighting modes
- Focus on person and vehicle classification based on deep learning
- Clear imaging against strong back light due to 130 dB WDR technology
- Water and dust resistant (IP67) and vandal resistant (IK10)

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max. Resolution | 2688 × 1520 |
| Min. Illumination | Color: 0.0005 Lux @ (F1.2, AGC ON),0 Lux with light |
| Shutter Time | 1 s to 1/100,000 s |
| Day & Night | IR cut filter |
| Angle Adjustment | DS-2CD2H47G3-LIZS2UY/S(L)(RB):Pan: 0° to 360°,tilt: 0° to 75°,rotate: 0° to 360°<br>Pan: 0° to 360°,tilt: 0° to 75°,rotate: 0° to 360° |
| **Lens** | |
| Lens Type | Varifocal lens, motorized lens, 2.8 to 12 mm |
| Focal Length & FOV | 2.8 to 12 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° to 48.1° |
| Lens Mount | Integrated |
| Iris Type | Fixed |
| Aperture | Max. F1.2 |
| Depth of Field | 1 m to ∞ |
| **DORI** | |
| DORI | Wide: D: 61.5 m, O: 24.4 m, R: 12.3 m, I: 6.2 m<br>Tele: D: 151.7 m, O: 60.2 m, R: 30.3 m, I: 15.2 m |
| **Illuminator** | |
| Supplement Light Type | IR,White Light |
| Supplement Light Range | IR: up to 40 m<br>White Light: up to 40 m |
| Smart Supplement Light | Yes |
| IR Wavelength | 850 nm |
| **Video** | |
| 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.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 8 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 |
| **Audio** | |
| Audio Type | Mono sound |

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| 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/48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| 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 T, Profile G),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 free live view: Chrome 80+, Firefox 80+, Edge 89+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+ |
| **Image** | |
| 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 Stabilization | EIS |
| Image Enhancement | BLC,HLC,3D DNR,Distortion Correction,Defog |
| Privacy Mask | 4 programmable polygon privacy masks |
| **Interface** | |
| 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 Speaker | Max. power consumption: 2 W, max. sound pressure level: 10 cm: 97 dB. |
| Audio | Built-in Microphone: Arrayed dual-microphone,<br>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 | 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A) |
| Reset Key | Yes |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception |

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| Smart Event | Scene change detection |
| Linkage | Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning,strobe light |
| **Deep Learning Function** | |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |
| Face Capture | Yes |
| **General** | |
| Power | 12 VDC ± 25%, 1.4 A, max. 16.8 W,2-core terminal block,reverse polarity protection,<br>PoE: IEEE 802.3at, Class 4, max. 20 W |
| Material | DS-2CD2H47G3-LIZS2UY/S(L)(RB):Base: Metal, cover: Metal<br>Base: Metal, cover: Metal |
| Dimension | Ø143.5 mm × 142.7 mm (Ø5.7" × 5.6") |
| Package Dimension | 170 mm × 170 mm × 225 mm (6.7" × 6.7" × 8.9") |
| Weight | Approx. 1265 g (2.8 lb.) |
| With Package Weight | Approx. 1525 g (3.4 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,mirror,flash log,password reset via email,pixel counter,anti-banding |
| Flashing Light | -SL: White Light<br>-SRB: Red and Blue Light |
| **Approval** | |
| EMC | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,<br>IC: ICES-003: Issue 7 |
| Safety | CB: IEC 62368-1:2014+A11 |
| Environment | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006,<br>NEMA 4X (NEMA 250-2018) |
| Protection | IP67: IEC 60529-2013,IK10: IEC 62262:2002 |

## ▪ Available Model

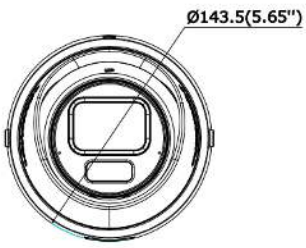
DS-2CD2H47G3-LIZS2UY/SL(2.8-12mm)

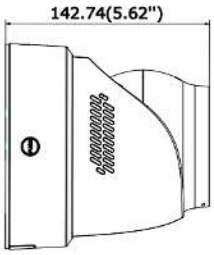
DS-2CD2H47G3-LIZS2UY/SL(2.8-12)O-STDBLK

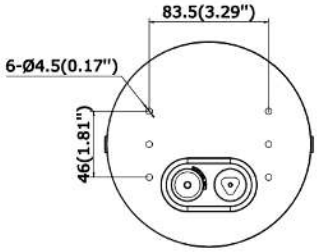
DS-2CD2H47G3-LIZS2UY/SRB(2.8-12mm)

DS-2CD2H47G3-LIZS2UY/SRB(2.8-12)O-STDBLK

## ▪ Dimension




Unit: mm(inch)

## ▪ Accessory

### ▪ Optional

| DS-1475ZJ-SUS | DS-1273ZJ-140B-Y | DS-1476ZJ-SUS | DS-1273ZJ-140-Y | DS-1271ZJ-140-Y |
|---|---|---|---|---|
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### ▪ Installation Methods

| Vertical Pole Mounting DS-1475ZJ-SUS+DS-1253ZJ-L+DS-1273ZJ-140-Y | Wall Mounting DS-1273ZJ-140B-Y | Wall Mounting DS-1273ZJ-140-Y+DS-1253ZJ-L | Corner Mounting DS-1476ZJ-SUS+DS-1273ZJ-140B-Y | Pendant Mounting DS-1271ZJ-140-Y |
|---|---|---|---|---|
|  |  |  |  |  |

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www.hikvision.com
support@hikvision.com

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