

**DS-2CD3H47G3-L1ZSU/SL****4 MP Dual Illumination Strobe Light and Audible Warning Motorized Varifocal Turret Network Camera**

Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

Hikvision Darkfighter 2.0 technology provides 24/7 vivid colorful images with F1.2 advanced lenses, high performance sensors and friendly lighting. F1.2 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- HIK AI-ISP for excellent noise reduction effect
- 24/7 colorful imaging via Darkfighter 2.0 technology
- Scene-adaptive WDR
- Focus on Person and Vehicle classification based on deep learning
- Built-in arrayed dual-microphone for real-time high quality audio security
- Provide real-time security via built-in two-way audio
- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA4X)
- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes
- Water and dust resistant (IP67) and vandal resistant (IK10)
- Active strobe light and audio alarm to warn intruders off

## ▪ 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        | Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°                                                                                                                                 |
| Lens                    |                                                                                                                                                                                      |
| Lens Type               | Varifocal lens, motorized lens, 2.7 to 13.5 mm                                                                                                                                       |
| Focal Length & FOV      | 2.7 to 13.5 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               | Auto-iris                                                                                                                                                                            |
| 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                                                                                                                                                                               |
| HEOP                    |                                                                                                                                                                                      |
| Open Resources          | Memory: 60 MB,<br>Smart RAM: 450 MB,<br>eMMC: 2 GB                                                                                                                                   |
| Computing Power         | 1.5 TOPS                                                                                                                                                                             |
| Open Capability         | HEOP 2.0 OpendevSDK                                                                                                                                                                  |
| Deep Learning Structure | Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX                                                                                                                                       |
| Programming Language    | C, C++                                                                                                                                                                               |
| Video                   |                                                                                                                                                                                      |
| Main Stream             | 50 Hz: 25 fps (2688 × 1520)<br>60 Hz: 30 fps (2688 × 1520)<br>50 Hz: 50 fps (1920 × 1080, 1280 × 720)<br>60 Hz: 60 fps (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. |
| Fourth Stream           | 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>*Fourth 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>Fourth stream: H.265/H.264/MJPEG                                                                                                                                                                                                                                           |
| 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)    | 5 fixed regions for main stream and sub-stream                                                                                                                                                                                                                                                                                                                                        |
| e-PTZ                       | Support Patrol and Auto Tracking settings                                                                                                                                                                                                                                                                                                                                             |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                                                                                                                                            |
| 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                                                                                                                                                                                                                                                                                                                                                                                   |
| <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 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 91+, Firefox 88+, Edge 91+, Safari 13+<br>Local service: Chrome 91+, Firefox 88+, Edge 91+                                                                                                                                                                                                                                                             |
| <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 Stabilization         | EIS                                                                                                                                                                                                                                                                                                                                                                                   |
| Image Enhancement           | BLC, HLC, 3D DNR, Distortion Correction, Defog                                                                                                                                                                                                                                                                                                                                        |
| Privacy Mask                | 8 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 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                            | 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)                                                                                                                                                                                                                                                                                                         |
| Reset Key                        | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Power Output                     | 12 VDC, max. 100 mA                                                                                                                                                                                                                                                                                                                                   |
| Event                            |                                                                                                                                                                                                                                                                                                                                                       |
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                                                                                                                                           |
| Smart Event                      | Scene change detection, audio exception detection, defocus 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                                                                                                                                                                                                                                                                                                                                                   |
| People Counting                  | Yes                                                                                                                                                                                                                                                                                                                                                   |
| General                          |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 1.4 A, max. 16.8 W, 2-core terminal block, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 20 W                                                                                                                                                                                                                       |
| Material                         | Base: Metal, cover: Metal                                                                                                                                                                                                                                                                                                                             |
| Dimension                        | $\varnothing$ 143.5 mm $\times$ 142.7 mm ( $\varnothing$ 5.7" $\times$ 5.6")                                                                                                                                                                                                                                                                          |
| Package Dimension                | 170 mm $\times$ 170 mm $\times$ 225 mm (6.7" $\times$ 6.7" $\times$ 8.9")                                                                                                                                                                                                                                                                             |
| Weight                           | Approx. 1265 g (2.8 lb.)                                                                                                                                                                                                                                                                                                                              |
| With Package Weight              | Approx. 1530 g (3.4 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)                                                                                                                                                                                                                                     |
| 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                   | Yes, White 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, RCM: AS/NZS CISPR 32: 2015                                                                                                                                                                                                  |
| 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                                                                   |

## ▪ 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.

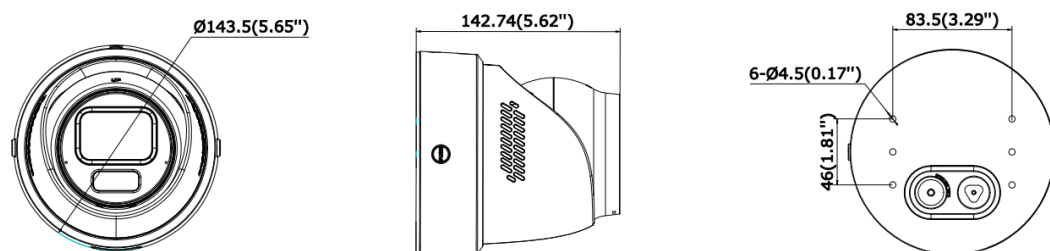
This model has MODERATE PROTECTION.

| 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-2CD3H47G3-LIZSUY/SL(2.7-13.5mm)

## ▪ Dimension



Unit: mm(inch)

## ▪ Accessory

### ▪ Optional

| DS-1476ZJ-SUS                                                                     | DS-1475ZJ-SUS                                                                     | DS-1271ZJ-140-Y                                                                   | DS-1273ZJ-140B-Y                                                                    | DS-1273ZJ-140-Y                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |

## ▪ Installation Methods

| Corner Mounting<br>DS-1476ZJ-SUS+DS-1273ZJ-140B-Y                                  | Vertical Pole Mounting<br>DS-1475ZJ-SUS+DS-1273ZJ-140-Y                            | Pendant Mounting<br>DS-1271ZJ-140-Y                                                | Wall Mounting<br>DS-1273ZJ-140B-Y                                                   | Wall Mounting<br>DS-1273ZJ-140-Y                                                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |

# See Far, Go Further



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