

**DS-2CD20123G2-LIUYY/S(L)(RB)****12MP Acusense Strobe Light and Audible Warning & Smart Hybrid Light Fixed Bullet**

- UHD: Ultra High Definition delivers lifelike immersion
- Active strobe light and audio alarm (/SL: white light, /SRB: red & blue light)
- Smart Hybrid Light: Integrates IR and white lights, 3 supplemental lighting modes
- Person and vehicle classification based on deep learning
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67)
- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA 4X)

## ▪ Specification

| Model       |                        | DS-2CD20123G2-LIUUY/S(L)(RB)                                                                                                                                                                                    |
|-------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera      | Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                    |
|             | Max. Resolution        | 4608 × 2592                                                                                                                                                                                                     |
|             | Min. Illumination      | Color: 0.005 Lux @ (F1.6, 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 90°, rotate: 0° to 360°                                                                                                                                                            |
| Lens        | Lens Type              | Fixed focal lens, 2.8, 4, and 6 mm optional                                                                                                                                                                     |
|             | Focal Length & FOV     | 2.8 mm, horizontal FOV 94.2°, vertical FOV 51.1°, diagonal FOV 110.2°<br>4 mm, horizontal FOV 73.1°, vertical FOV 40.2°, diagonal FOV 84.8°<br>6 mm, horizontal FOV 47°, vertical FOV 25.6°, diagonal FOV 54.6° |
|             | Lens Mount             | M16                                                                                                                                                                                                             |
|             | Iris Type              | Fixed                                                                                                                                                                                                           |
|             | Aperture               | F1.6                                                                                                                                                                                                            |
|             | Depth of Field         | 2.8 mm: 2.9 m to ∞<br>4 mm: 3.5 m to ∞<br>6 mm: 8.3 m to ∞                                                                                                                                                      |
| DORI        | DORI                   | 2.8 mm, D: 117 m, O: 46 m, R: 23 m, I: 11 m<br>4 mm, D: 148 m, O: 59 m, R: 29 m, I: 14 m<br>6 mm, D: 236 m, O: 93 m, R: 47 m, I: 23 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            | 50Hz:<br>20fps(4608 × 2592)<br>25fps(3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz:<br>20fps(4608 × 2592)<br>30fps(3840 × 2160, 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,                                                                                                         |

|         |                             |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                             | *Third stream is supported under certain settings.                                                                                                                                                                                                                                                                                                                                    |
|         | Video Bit Rate              | 32 Kbps to 20 Mbps                                                                                                                                                                                                                                                                                                                                                                    |
|         | H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                                                                                                                                                                                                                          |
|         | H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                                                                          |
|         | Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                                                                                                              |
|         | Bit Rate Control            | CBR, VBR                                                                                                                                                                                                                                                                                                                                                                              |
|         | Region of Interest (ROI)    | 1 fixed region for main stream                                                                                                                                                                                                                                                                                                                                                        |
|         | Target Cropping             | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio   | Audio Type                  | -U: Mono sound                                                                                                                                                                                                                                                                                                                                                                        |
|         | Audio Compression           | -U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                          |
|         | Audio Bit Rate              | -U: 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         | -U: 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                                        |
|         | Environment Noise Filtering | -U: 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 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) |
|         | Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                                                                   |
|         | Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)                                                                                                                                                                                                                                                                                                                                 |
|         | 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)         | 120 dB                                                                                                                                                                                                                                                                                                                                                |
|                        | SNR                              | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                               |
|                        | 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                                                                                                                                                                                                                                                                     |
|                        | Reset Key                        | Yes                                                                                                                                                                                                                                                                                                                                                   |
|                        | Built-in Speaker                 | 1 built-in speaker,Max. power consumption: 2 W, max. sound pressure level: 10 cm: 110 dB.                                                                                                                                                                                                                                                             |
|                        | Audio                            | Built-in Microphone: Single-microphone                                                                                                                                                                                                                                                                                                                |
| Event                  | 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                                                                                                                                                                                                                                                 |
| Deep Learning Function | Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                   |
|                        | Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                   |
| General                | Power                            | 12 VDC ± 25%, 1.3 A, max. 15.6 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 19 W                                                                                                                                                                                                                        |
|                        | Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
|                        | Dimension                        | Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94")                                                                                                                                                                                                                                                                                                                  |
|                        | Package Dimension                | 234 mm × 120 mm × 117 mm (9.21" × 4.72" × 4.61")                                                                                                                                                                                                                                                                                                      |
|                        | Weight                           | Approx. 515 g (1.1 lb.)                                                                                                                                                                                                                                                                                                                               |
|                        | With Package Weight              | Approx. 760 g (1.7 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                   | SRB models: Red and Blue Light<br>/SL model: White Light                                                                                                                                                                                                                                                                                              |

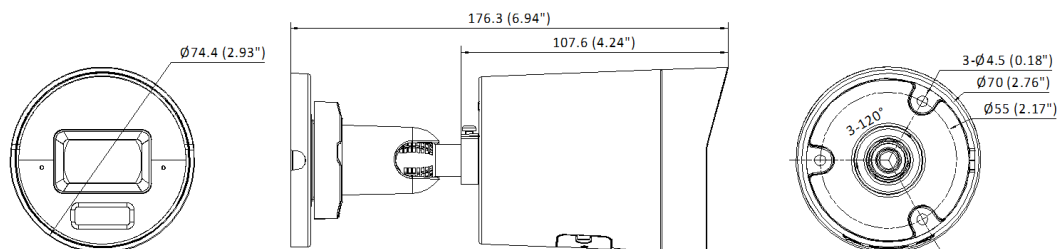
|          |                           |                                                                                                                          |
|----------|---------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 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 |
|          | Safety                    | CB: IEC 62368-1:2014+A11,<br>CE-LVD: EN 62368-1:2014/A11:2017                                                            |
|          | Environment               | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                         |
|          | Protection                | IP67: IEC 60529-2013                                                                                                     |
|          | Anti-Corrosion Protection | NEMA 4X (NEMA 250-2018)                                                                                                  |

## ▪ Typical Application

### ▪ Available Model

DS-2CD20123G2-LIUY/SL(2.8mm)  
DS-2CD20123G2-LIUY/SL(4mm)  
DS-2CD20123G2-LIUY/SL(6mm)  
DS-2CD20123G2-LIUY/SRB(2.8mm)  
DS-2CD20123G2-LIUY/SRB(4mm)  
DS-2CD20123G2-LIUY/SRB(6mm)  
DS-2CD20123G2-LIUY/SL(2.8mm)/BLACK  
DS-2CD20123G2-LIUY/SRB(2.8mm)BLACK

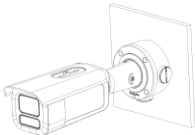
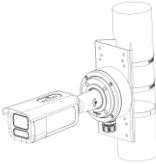
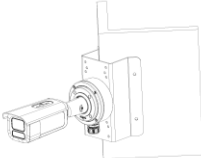
### ▪ Dimension



Unit: mm (inch)

▪ **Accessory**

▪ **Optional**

| DS-1280ZJ-XS-Y<br>Junction box                                                    | DS-1275ZJ-SUS<br>Vertical pole mount                                              | DS-1276ZJ-SUS<br>Corner mount                                                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
|  |  |   |

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