

**DS-2CD23123G2-LI(2U)Y****12MP Acusense Smart Hybrid Light Fixed Turret Network Camera**

AcuSense 3.0



- UHD: Ultra High Definition delivers lifelike immersion
- Smart Hybrid Light: Integrates IR and white lights, 3 supplemental lighting modes
- Person and vehicle classification based on deep learning
- Crystal-clear audio with Built-in Arrayed Dual-Mic (-2U models)
- 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

| 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 75°, rotate: 0° to 360°                                                                                                                                 |
| Lens                        |                                                                                                                                                                                      |
| Lens Type                   | Fixed focal lens, 2.8 and 4 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°                                          |
| 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 ∞                                                                                                                                               |
| 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                                                                                             |
| 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                 | 40Hz : 20fps(4608 × 2592)<br>50Hz : 25fps(3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz : 30fps(3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720)                      |
| Sub-Stream                  | 40 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360)<br>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 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                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Type                  | -2U: Mono sound                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Compression           | -2U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                         |
| Audio Bit Rate              | -2U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AAC-LC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)                                                                                                                                                                                                                                           |
| Audio Sampling Rate         | -2U: 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                                       |
| Environment Noise Filtering | -2U: 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) |
| 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+                                                                                                                                                                                                                                                                        |
| <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)    | 120 dB                                                                                                                                                                                                                                                                                                                                                                                |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                               |
| Image Enhancement           | BLC, HLC, 3D DNR, Distortion Correction, Defog                                                                                                                                                                                                                                                                                                                                        |
| Image Stabilization         | EIS                                                                                                                                                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                     |
| Audio                       | -2U: Built-in Microphone: Arrayed dual-microphone                                                                                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                             |

| 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 $\pm$ 25%, 0.7 A, max. 8.5 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 10.5 W                                                                                                                                                                                                 |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
| Dimension                        | $\varnothing$ 127.3 mm $\times$ 96.3 mm ( $\varnothing$ 5.0" $\times$ 3.8")                                                                                                                                                                                                                                                                           |
| Package Dimension                | 170 mm $\times$ 170 mm $\times$ 160 mm (6.7" $\times$ 6.7" $\times$ 6.3")                                                                                                                                                                                                                                                                             |
| Weight                           | Approx. 515 g (1.1 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 755 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                                                                                                                                                                                                                                                                   |
| 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

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-2CD23123G2-LI2UY(2.8mm)

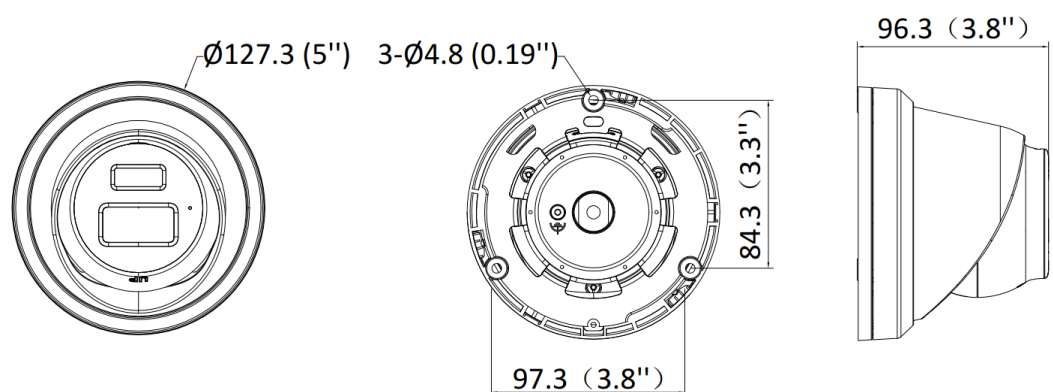
DS-2CD23123G2-LI2UY(4mm)

DS-2CD23123G2-LIY(2.8mm)

DS-2CD23123G2-LIY(4mm)

DS-2CD23123G2-LI2UY(2.8mm)(BLACK)

## ▪ Dimension



Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1275ZJ-SUS   | DS-1276ZJ-SUS | DS-1273ZJ-130-TRL | DS-2200ZJ-WA-130  | DS-2200ZJ-WAJ-130<br>0 |
|-----------------|---------------|-------------------|-------------------|------------------------|
|                 |               |                   |                   |                        |
| DS-1281ZJ-M     | DS-1280ZJ-DM8 | DS-2210ZJ-WA-130  | DS-1271ZJ-130-TRL | DS-1273ZJ-130B-T<br>RL |
|                 |               |                   |                   |                        |
| DS-2280ZJ-WA130 |               |                   |                   |                        |



## ■ Installation Methods

| Vertical Pole Mounting<br>DS-1275ZJ-SUS+DS-1280ZJ-DM8 | Corner Mounting<br>DS-1276ZJ-SUS+DS-2200ZJ-WAJ-130+DS-1253ZJ-L | Wall Mounting<br>DS-1273ZJ-130-TRL+DS-1253ZJ-L | Wall Mounting<br>DS-2200ZJ-WA-130+DS-1253ZJ-L | Wall Mounting<br>DS-2200ZJ-WAJ-130                   |
|-------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
|                                                       |                                                                |                                                |                                               |                                                      |
| Wall Mounting<br>DS-1273ZJ-130B-TRL+DS-1253ZJ-L       | Inclined Ceiling Mounting<br>DS-1281ZJ-M                       | Junction Box<br>DS-1280ZJ-DM8                  | Junction Box<br>DS-2280ZJ-WA130               | Pendant Mounting<br>DS-2210ZJ-WA-130+DS-2280ZJ-WA130 |
|                                                       |                                                                |                                                |                                               |                                                      |
| Pendant Mounting<br>DS-1271ZJ-130-TRL                 |                                                                |                                                |                                               |                                                      |
|                                                       |                                                                |                                                |                                               |                                                      |

# See Far, Go Further



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