

**DS-2CD2T23G2-2LI(2U)/4LI(2U)****2 MP Acusense Smart Hybrid Light Fixed Bullet Network Camera**

# AcuSense



- High quality imaging with 2 MP resolution
- Acusense: Focus on human and vehicle classification based on deep learning
- Smart Hybrid Light: Integrates IR and White lights, 4 supplemental lighting modes
- -2U: Built-in arrayed dual-microphone for real-time high quality audio security
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67) and vandal-resistant (IK10)

## ▪ Specification

| Camera                 |                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/2.7" Progressive Scan CMOS                                                                                                                                                                      |
| Max. Resolution        | 1920 × 1080                                                                                                                                                                                       |
| Min. Illumination      | Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light                                                                                                                                               |
| Shutter Time           | 1/3 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 112°, vertical FOV 61°, diagonal FOV 132°<br>4 mm, horizontal FOV 91°, vertical FOV 48°, diagonal FOV 110°<br>6 mm, horizontal FOV 56°, vertical FOV 30°, diagonal FOV 65° |
| Lens Mount             | M12                                                                                                                                                                                               |
| Iris Type              | Fixed                                                                                                                                                                                             |
| Aperture               | F1.6                                                                                                                                                                                              |
| Depth of Field         | 2.8 mm: 1 m to ∞<br>4 mm: 1.1 m to ∞<br>6 mm: 2.8 m to ∞                                                                                                                                          |
| DORI                   |                                                                                                                                                                                                   |
| DORI                   | 2.8 mm, D: 42 m, O: 16 m, R: 8 m, I: 4 m<br>4 mm, D: 52 m, O: 20 m, R: 10 m, I: 5 m<br>6 mm, D: 85 m, O: 33 m, R: 17 m, I: 8 m                                                                    |
| Illuminator            |                                                                                                                                                                                                   |
| Supplement Light Type  | IR, White Light                                                                                                                                                                                   |
| Supplement Light Range | -2LI and -2LI2U models: up to 60 m<br>-4LI and -4LI2U models up to 80 m                                                                                                                           |
| Smart Supplement Light | Yes                                                                                                                                                                                               |
| IR Wavelength          | 850 nm                                                                                                                                                                                            |
| Video                  |                                                                                                                                                                                                   |
| Main Stream            | 50 Hz:<br>25 fps (1920 × 1080, 1280 × 720)<br>60 Hz:<br>30 fps (1920 × 1080, 1280 × 720)                                                                                                          |
| Sub-Stream             | 50 Hz: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (640 × 480, 640 × 360)                                                                                                                      |
| Third Stream           | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings.              |
| Video Compression      | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>*Third stream is supported under certain settings.                                     |
| Video Bit Rate         | 32 Kbps to 8 Mbps                                                                                                                                                                                 |
| H.264 Type             | Baseline Profile, Main Profile, High Profile                                                                                                                                                      |
| H.265 Type             | Main Profile                                                                                                                                                                                      |

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 and sub-stream                                                                                                                                                                                        |
| Target Cropping             | Yes                                                                                                                                                                                                                                  |
| <b>Audio</b>                |                                                                                                                                                                                                                                      |
| Audio Compression           | -2LI2U and -4LI2U models: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                   |
| Audio Bit Rate              | -2LI2U and -4LI2U models: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                          |
| Audio Sampling Rate         | -2LI2U and -4LI2U models: 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                 |
| Environment Noise Filtering | -2LI2U and -4LI2U models: 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                                                          |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                     |
| API                         | ONVIF (ProfileS, 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, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                  |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                      |
| Web Browser                 | Plug-in required live view: IE 11,<br>Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+                                                         |
| <b>Image</b>                |                                                                                                                                                                                                                                      |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                  |
| Image Settings              | Rotate mode                                                                                                                                                                                                                          |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                           |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                               |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                              |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                     |
| Privacy Mask                | 8 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                                                                                                                                                    |
| Reset Key                   | Yes                                                                                                                                                                                                                                  |
| Audio                       | Built-in Microphone:<br>-2U: Arrayed dual-microphone                                                                                                                                                                                 |
| <b>Event</b>                |                                                                                                                                                                                                                                      |
| Basic Event                 | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                          |
| Smart Event                 | Face detection                                                                                                                                                                                                                       |

|                                  |                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture                                                                                                                                                                                                                                                        |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                                  |
| Perimeter Protection             | Line crossing, intrusion<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                                                               |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                                  |
| Power                            | -2LI and -2LI2U models:<br>12 VDC $\pm$ 25%, 0.58 A, max. 7 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 8.5 W<br>-4LI and -4LI2U models:<br>12 VDC $\pm$ 25%, 0.83 A, max. 10 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 11 W |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                            |
| Dimension                        | 88.7 mm $\times$ 93.1 mm $\times$ 286.7 mm (3.5" $\times$ 3.7" $\times$ 11.3")                                                                                                                                                                                                                                                                                   |
| Package Dimension                | 386 mm $\times$ 156 mm $\times$ 155 mm (15.2" $\times$ 6.1" $\times$ 6.1")                                                                                                                                                                                                                                                                                       |
| Weight                           | Approx. 1115 g (2.5 lb.)                                                                                                                                                                                                                                                                                                                                         |
| With Package Weight              | Approx. 1640 g (3.6 lb.)                                                                                                                                                                                                                                                                                                                                         |
| Storage Conditions               | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                |
| Startup and Operating Conditions | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                              |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                                  |
| EMC                              | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015                                                                                                                                                 |
| Safety                           | CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,<br>LOA: IEC/EN 60950-1                                                                                                                                                                                                                      |
| Environment                      | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                                                                                                                                                                                                                                                                 |
| Protection                       | IP67: IEC 60529-2013                                                                                                                                                                                                                                                                                                                                             |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

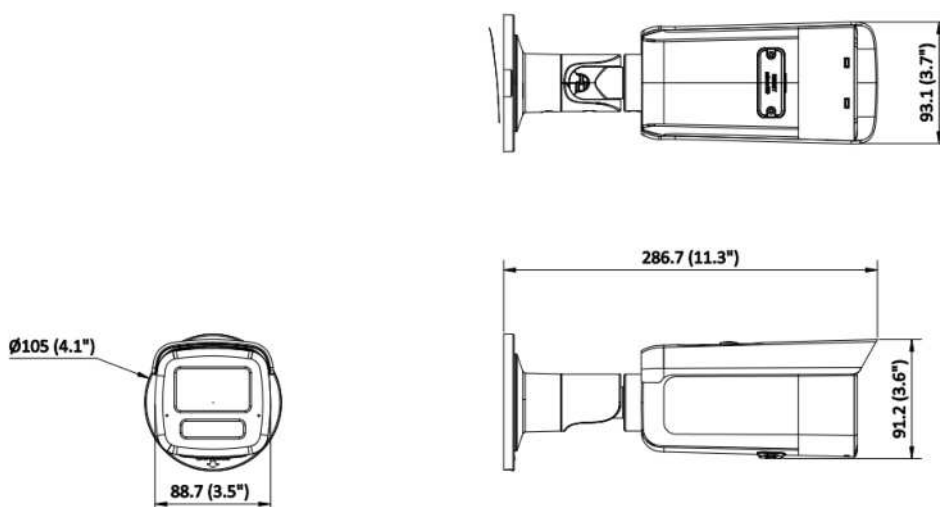
This model has NO SPECIFIC PROTECTION.

| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.                                             |
| Moderate protection    | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

## ▪ Available Model

DS-2CD2T23G2-2LI(2.8mm)  
 DS-2CD2T23G2-2LI(4mm)  
 DS-2CD2T23G2-2LI(6mm)  
 DS-2CD2T23G2-2LI2U(2.8mm)  
 DS-2CD2T23G2-2LI2U(4mm)  
 DS-2CD2T23G2-2LI2U(6mm)  
 DS-2CD2T23G2-2LI2U(2.8mm)(BLACK)  
 DS-2CD2T23G2-4LI(2.8mm)  
 DS-2CD2T23G2-4LI(4mm)  
 DS-2CD2T23G2-4LI(6mm)  
 DS-2CD2T23G2-4LI2U(2.8mm)  
 DS-2CD2T23G2-4LI2U(4mm)  
 DS-2CD2T23G2-4LI2U(6mm)  
 DS-2CD2T23G2-4LI2U(2.8mm)(BLACK)  
 DS-2CD2T23G2-4LI2U(4mm)(BLACK)

## ▪ Dimension



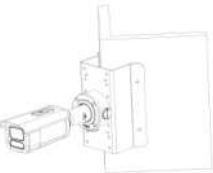
Unit:mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1275ZJ-S-SUS                                                                   | DS-1275ZJ-SUS                                                                     | DS-1260ZJ                                                                          | DS-1276ZJ-SUS                                                                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |

## ▪ Installation Methods

| Vertical Pole Mounting<br>DS-1275ZJ-S-SUS                                          | Vertical Pole Mounting<br>DS-1275ZJ-SUS                                            | Junction Box<br>DS-1260ZJ                                                           | Corner Mounting<br>DS-1276ZJ-SUS                                                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |

# See Far, Go Further



[www.hikvision.com](http://www.hikvision.com)  
[support@hikvision.com](mailto:support@hikvision.com)

