

**DS-2CD2143G2-LIPTRZS2UY**  
**4 MP AcuSense PTRZ Dome Network Camera**

AcuSense 3.0



- Motorized Pan, Tilt, Rotate, Zoom for easy installation and monitoring
- 2.8/4 mm in one lens, point varifocal
- 3 supplemental lighting modes: Smart Mode & IR Mode & White Light Mode
- Person and vehicle classification based on deep learning
- Crystal-clear audio with Arrayed Dual-Mic (only -2U)
- 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)
- Anti-corrosion design (NEMA 4X), more reliable
- Audio and alarm interface available (only -S)

## ▪ Specification

| Camera                      |                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/3" Progressive Scan CMOS                                                                                                                                                           |
| Max. Resolution             | 2688 × 1520                                                                                                                                                                          |
| 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 346°, tilt: 0° to 75°, rotate: 0° to 344°, Remote adjustment (Max. 1000 cycles)                                                                                           |
| Lens                        |                                                                                                                                                                                      |
| Lens Type                   | Varifocal lens, motorized lens, 2.8 to 4 mm                                                                                                                                          |
| Focal Length & FOV          | 2.8 mm, horizontal FOV 99.1°, vertical FOV 58.6°, diagonal FOV 120°<br>4 mm, horizontal FOV 79.9°, vertical FOV 46.1°, diagonal FOV 93.9°                                            |
| Lens Mount                  | Ø14                                                                                                                                                                                  |
| Iris Type                   | Fixed                                                                                                                                                                                |
| Aperture                    | F1.6                                                                                                                                                                                 |
| Depth of Field              | 2.8 mm: 1.1 m to ∞<br>4 mm: 1.3 m to ∞                                                                                                                                               |
| DORI                        |                                                                                                                                                                                      |
| DORI                        | 2.8mm: D: 66.5 m, O: 26.4 m, R: 13.3 m, I: 6.6 m<br>4mm: D: 79.1 m, O: 31.4 m, R: 15.8 m, I: 7.9 m                                                                                   |
| Illuminator                 |                                                                                                                                                                                      |
| Supplement Light Type       | IR, White Light                                                                                                                                                                      |
| Supplement Light Range      | Up to 30 m                                                                                                                                                                           |
| Smart Supplement Light      | Yes                                                                                                                                                                                  |
| IR Wavelength               | 850 nm                                                                                                                                                                               |
| Video                       |                                                                                                                                                                                      |
| Main Stream                 | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                         |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                 |
| Third Stream                | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings. |
| Video Compression           | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>*Third stream is supported under certain settings.                        |
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                                                                    |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                         |
| H.265 Type                  | Main Profile                                                                                                                                                                         |
| 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                                                                                                                                                       |
| Audio                       |                                                                                                                                                                                      |
| 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)/32 to 160 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                               |
| 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, 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 |
| Network Storage               | NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                    |
| Client                        | iVMS-4200,Hik-Connect,Hik-Central                                                                                                                                                                                                    |
| Web Browser                   | Plug-in free liveview: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+,<br>Local service: Chrome 91+, Firefox 88+, Edge 91+                                                                                                            |
| <b>Image</b>                  |                                                                                                                                                                                                                                      |
| Image Parameters Switch       | Yes                                                                                                                                                                                                                                  |
| Day/Night Switch              | Day,Night,Auto,Schedule                                                                                                                                                                                                              |
| Image Settings                | Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser                                                                                                                 |
| Wide Dynamic Range (WDR)      | 120 dB                                                                                                                                                                                                                               |
| SNR                           | ≥ 52 dB                                                                                                                                                                                                                              |
| Image Enhancement             | BLC,HLC,3D DNR                                                                                                                                                                                                                       |
| 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                                                                                                                                                     |
| Reset Key                     | Yes                                                                                                                                                                                                                                  |
| Built-in Microphone           | -2U: Yes, 2 built-in microphones                                                                                                                                                                                                     |
| Alarm                         | -S: 1 input, 1 output (max. 12VDC, 30mA)                                                                                                                                                                                             |
| <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                       | notify surveillance center,send email,trigger recording,trigger capture                                                                                                                                                              |
| <b>Deep Learning Function</b> |                                                                                                                                                                                                                                      |
| 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%, 1.25 A, max. 15 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3at, Class 4, max. 16 W                                                                                                                                                                                                   |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
| Dimension                        | $\varnothing$ 121.6 mm $\times$ 101 mm ( $\varnothing$ 4.79" $\times$ 3.98")                                                                                                                                                                                                                                                                          |
| Package Dimension                | 150 mm $\times$ 150 mm $\times$ 142 mm (5.91" $\times$ 5.91" $\times$ 5.60")                                                                                                                                                                                                                                                                          |
| Weight                           | Approx. 730 g (1.61 lb.)                                                                                                                                                                                                                                                                                                                              |
| With Package Weight              | Approx. 1000 g (2.20 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, IK10: IEC 62262:2002                                                                                                                                                                                                                                                                                                            |
| Anti-Corrosion Protection        | NEMA 4X (NEMA 250-2018)                                                                                                                                                                                                                                                                                                                               |

## ▪ Typical Application

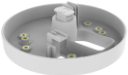
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has MODERATE PROTECTION.

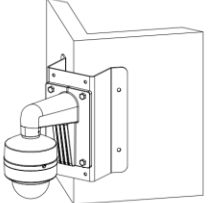
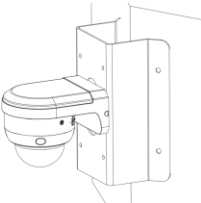
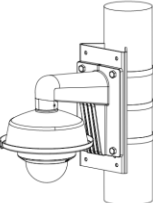
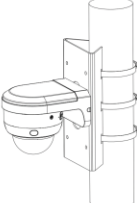
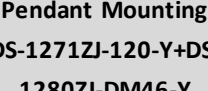
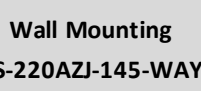
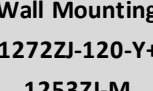
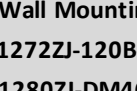
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------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

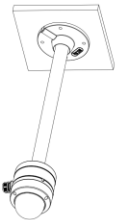
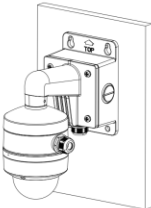
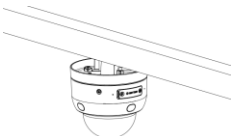
## ▪ Accessory

### ▪ Optional

| DS-1276ZJ-SUS                                                                       | DS-1275ZJ-SUS                                                                       | DS-1271ZJ-120-Y                                                                   | DS-220AZJ-145-WA<br>Y                                                               | DS-1475ZJ-SUS                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |    |  |   |  |
| DS-1272ZJ-120-Y                                                                     | DS-1275ZJ-S-SUS                                                                     | DS-1280ZJ-DM46-Y                                                                  | DS-1476ZJ-SUS                                                                       | DS-1272ZJ-120B-Y                                                                    |
|    |    |  |  |  |
| DS-2274ZJ-125-WP                                                                    | DS-220AZJ-130-WA<br>Y                                                               |                                                                                   |                                                                                     |                                                                                     |
|  |  |                                                                                   |                                                                                     |                                                                                     |

## ▪ Installation Methods

| Corner Mounting<br>DS-1276ZJ-SUS+DS-1272ZJ-120-Y                                    | Corner Mounting<br>DS-1476ZJ-SUS+DS-220AZJ-130-WA                                   | Vertical Pole Mounting<br>DS-1275ZJ-SUS+DS-1253ZJ-M+DS-1272ZJ-120-Y                 | Vertical Pole Mounting<br>DS-1475ZJ-SUS+DS-220AZJ-145-WA                             | Vertical Pole Mounting<br>DS-1275ZJ-S-SUS+DS-220AZJ-145-WAY                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Pendant Mounting<br>DS-1271ZJ-120-Y+DS-1280ZJ-DM46-Y                                | Wall Mounting<br>DS-220AZJ-145-WAY                                                  | Wall Mounting<br>DS-1272ZJ-120-Y+DS-1253ZJ-M                                        | Wall Mounting<br>DS-1272ZJ-120B-Y+DS-1280ZJ-DM46-Y                                   | Wall Mounting<br>DS-220AZJ-130-WAY                                                    |
|  |  |  |  |  |

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>Junction Box</b><br><b>DS-1280ZJ-DM46-Y</b>                                    | <b>Others</b><br><b>DS-2274ZJ-125-WP</b>                                          |                                                                                   |                                                                                    |                                                                                     |
|  |  |                                                                                   |                                                                                    |                                                                                     |

# See Far, Go Further



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