# DS-2XS6A46G1E-LIZS/C36S80

**4 MP Strobe Light and Audible Warning Solar Power 4G Network Camera Kit**

AcuSense

It can be used in the areas that are not suitable for laying wired network and electric supply lines, or used for the scenes that feature tough environment and have high demanding for device stability. It can be used for monitoring the farms, electric power cables, water and river system, oil pipelines and key forest areas.
It also can be used in the temporary monitoring scenes, such as the large-scale competitions, the sudden public activity, the temporary traffic control and the city construction.
Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- 80 W photovoltaic panel, 360 Wh chargeable lithium battery
- Clear imaging against strong back light due to 120 dB true WDR technology
- Focus on human and vehicle targets classification based on deep learning
- Support battery management, battery display, battery high-low temperature protection, charge-discharge protection, low-battery sleep protection and remote wakeup
- LTE-TDD/LTE-FDD/WCDMA/GSM 4G wireless network transmission, support Micro SIM card
- Active strobe light and audio alarm to warn intruders off
- Provides real-time security via built-in two-way audio
- Smart Hybrid Light: advanced technology with long range
- Water and dust resistant (IP66)
- Built-in high-capacity eMMC storage
- Supports external antenna expansion for more flexible antenna positioning and enhanced wireless signal quality

## ▪ Specification

| | |
|---|---|
| **Camera** | |
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Min. Illumination | Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0 Lux with light |
| Max. Resolution | 2688 × 1520 |
| Shutter Time | 1 s to 1/100,000 s |
| **Lens** | |
| Focal Length & FOV | 2.8 to 12 mm, horizontal FOV 103.9° to 48.2°, vertical FOV 55.1° to 27.2°, diagonal FOV 125.3° to 55.5°<br>8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° |
| Lens Type | Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional |
| Focus | Auto,Semi-auto,Manual |
| Iris Type | Auto-iris |
| Aperture | 2.8 to 12 mm: F1.4, 8 to 32 mm: F1.7 |
| Lens Mount | All In One Lens |
| **DORI** | |
| DORI | 2.8 to 12 mm:<br>Wide: D: 64.7 m, O: 25.7 m, R: 12.9 m, I: 6.5 m<br>Tele: D: 128.7 m, O: 51.1 m, R: 25.7 m, I: 12.9 m<br>8 to 32 mm:<br>Wide: D: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15.0 m<br>Tele: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m |
| **Illuminator** | |
| Supplement Light Type | IR and White |
| Supplement Light Range | 2.8 to 12 mm: Up to 30 m<br>8 to 32 mm: Up to 50 m |
| Smart Supplement Light | Yes |
| **Video** | |
| Main Stream | Performance mode:<br>50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>Proactive mode:<br>50 Hz: 12.5 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 15 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | Performance mode:<br>50 Hz: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (640 × 480, 640 × 360)<br>Proactive mode:<br>50 Hz: 12.5 fps (640 × 480, 640 × 360)<br>60 Hz: 15 fps (640 × 480, 640 × 360) |
| Third Stream | Performance mode/Proactive mode::<br>50 Hz: 1 fps (1280 × 720, 640 × 480)<br>60 Hz: 1 fps (1280 × 720, 640 × 480) |

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| Video Compression | Main stream: H.264/H.265<br>Sub-stream: H.264/H.265/MJPEG<br>Third Stream: H.265/H.264<br>*Performance mode: main stream supports H.264+, H.265+ |
| Video Bit Rate | 32 Kbps to 8 Mbps |
| H.265 Type | Main Profile |
| H.264 Type | Baseline Profile,Main Profile,High Profile |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding |
| **Audio** | |
| Audio Compression | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC |
| Audio Bit Rate | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC) |
| Audio Sampling Rate | 8 kHz/16 kHz/32 kHz/48 kHz |
| Environment Noise Filtering | Yes |
| **Network** | |
| Simultaneous Live View | Up to 6 channels |
| API | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP, OTAP |
| Protocols | RTSP, DDNS, RTP, ICMP, QoS, IGMP, SNMP, SFTP, DNS, Bonjour, SMTP, IPv4, UDP, NTP, FTP, SSL/TLS, IPv6, HTTPS, HTTP, WebSocket, DHCP, WebSockets, TCP/IP |
| User/Host | Up to 32 users<br>3 user levels: administrator, operator, and user |
| Security | Password protection, complicated password, HTTPS encryption,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, TLS 1.2, TLS 1.3 |
| Network Storage | Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported. |
| Client | Hik-Connect (proactive mode also supports), HikCentral Professional, iVMS-4200 |
| Web Browser | Plug-in required live view: IE 10, IE 11<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+ |
| **Mobile Communication** | |
| SIM Card Type | MicroSIM |
| Frequency | DS-2XS6A46G1E-LIZS/C36S80:<br>LTE-TDD: Band38/40/41<br>LTE-FDD: Band1/3/5/7/8/20/28<br>WCDMA: Band1/5/8<br>GSM: 850/900/1800 MHz<br><br>DS-2XS6A46G1E-LIZS/C36S80(LA):<br>LTE-TDD: Band38/40<br>LTE-FDD: Band1/2/3/4/5/7/8/12/17/28/66<br>WCDMA: Band1/2/3/4/5/8<br>GSM: 850/900/1800/1900 MHz |

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|---|---|
| Standard | DS-2XS6A46G1E-LIZS/C36S80: LTE-TDD/LTE-FDD/WCDMA/GSM<br>DS-2XS6A46G1E-LIZS/C36S80 (LA): LTE-TDD/LTE-FDD/WCDMA/GSM |
| **Image** | |
| Wide Dynamic Range (WDR) | 120 dB |
| Day/Night Switch | Day,Night,Auto,Schedule,Alarm Trigger |
| Image Enhancement | HLC,BLC,3D DNR |
| Image Parameters Switch | Yes |
| Image Settings | Saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser |
| SNR | ≥ 52 dB |
| Privacy Mask | 4 programmable rectangle privacy masks |
| **Interface** | |
| Built-in Microphone | Yes |
| Built-in Speaker | 1 built-in speaker,Max. power consumption: 1.5 W, max. sound pressure level: 10 cm: 98 dB. |
| Alarm | 1 input, 1 output (max. 12 VDC, 1 A) |
| On-Board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB,<br>Built-in eMMC storage, up to 256 GB |
| Reset Key | Yes |
| RS-485 | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) |
| Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port |
| Power Output | 12 VDC, max. 1000 mA |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,alarm input and output |
| Smart Event | Line crossing detection,intrusion detection,region entrance detection,region exiting detection,unattended baggage detection,object removal detection |
| Linkage | Upload to FTP/NAS/memory card,trigger alarm output,audible warning,trigger recording,notify surveillance center,send email,white light flashing |
| **Deep Learning Function** | |
| Perimeter Protection | Line crossing detection, intrusion detection, region entrance detection, region exiting detection<br>Support alarm triggered by specified target types (human and vehicle) |
| **General** | |
| Power | 12 VDC ± 10%,<br>1. Standby power consumption: 0.14W<br>2. The average power consumption of 24 hours (4G transmission is excluded): 2.96 W<br>3. The max. power consumption: 20 W (7 W if without 12 V load) |
| Material | Battery:<br>Front cover: metal, Battery body: plastic<br>Camera:<br>Front cover: metal, body: plastic,<br>Rracket: metal |
| Dimension | 662.11 mm × 720 mm × 579.76 mm (26.07" × 28" × 22.83") (Max. size of the camera after it is completely assembled) |
| Package Dimension | 834 mm × 414 mm × 702 mm (32.9" × 16.3" × 27.6") |

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| Weight | Approx. 13.045 kg (28.76 lb.) |
| With Package Weight | Approx. 21.82 kg (48.10 lb.) |
| Storage Conditions | -25 °C to 60 °C (-13 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -25 °C to 60 °C (-13 °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 | Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter |
| Flashing Light | Red and Blue Light |
| **Battery** | |
| Battery Type | Lithium |
| Capacity | 360 Wh (90 Wh for each battery) |
| Max. Output Voltage | 12.6 V |
| Battery Voltage | 10.8 V |
| Operating Temperature | Charging: -25 °C to 45 °C (-13 °F to 113 °F)<br>Discharging: -25 °C to 60 °C (-13 °F to 140 °F) |
| Battery Life | More than 500 cycles |
| Cycle Lifetime | Proactive mode: 5 days, Standby mode: 80 days<br>*in cloudy/rainy days (25 °C) |
| Battery Weight | Approx. 2.74 kg (6.0 lb.) (0.685 kg (1.5 lb.) for each battery) |
| **Approval** | |
| EMC | CE-EMC/UKCA (EN 55032:2015+A11:2020+A1:2020,EN 50130-4:2011+A1:2014);<br>RCM (AS/NZS CISPR 32: 2015);<br>IC (ICES-003: Issue 7) |
| RF | CE-RED/UKCA (EN 301908-1,EN 301908-2,EN 301908-13, EN 301511,EN 301489-1,EN 301489-52,EN 62133);<br>ICASA: same as CE-RED;<br>IC ID (RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3, RSS-130 Issue 2, RSS-102 Issue 5);<br>MIC (Article 49-6-4 and 49-6-5 the relevant articles and MIC Notice No. 1299 of the Ordinance Regulating Radio Equipment) |
| Safety | CB (IEC 62368-1:2014+A11)<br>CE-LVD/UKCA (EN 62368-1:2014/A11:2017)<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 | Camera: IP66 (IEC 60529-2013)<br>Wind resistance 12 level, up to 40 m/s wind speed resistance |

## ▪ 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.

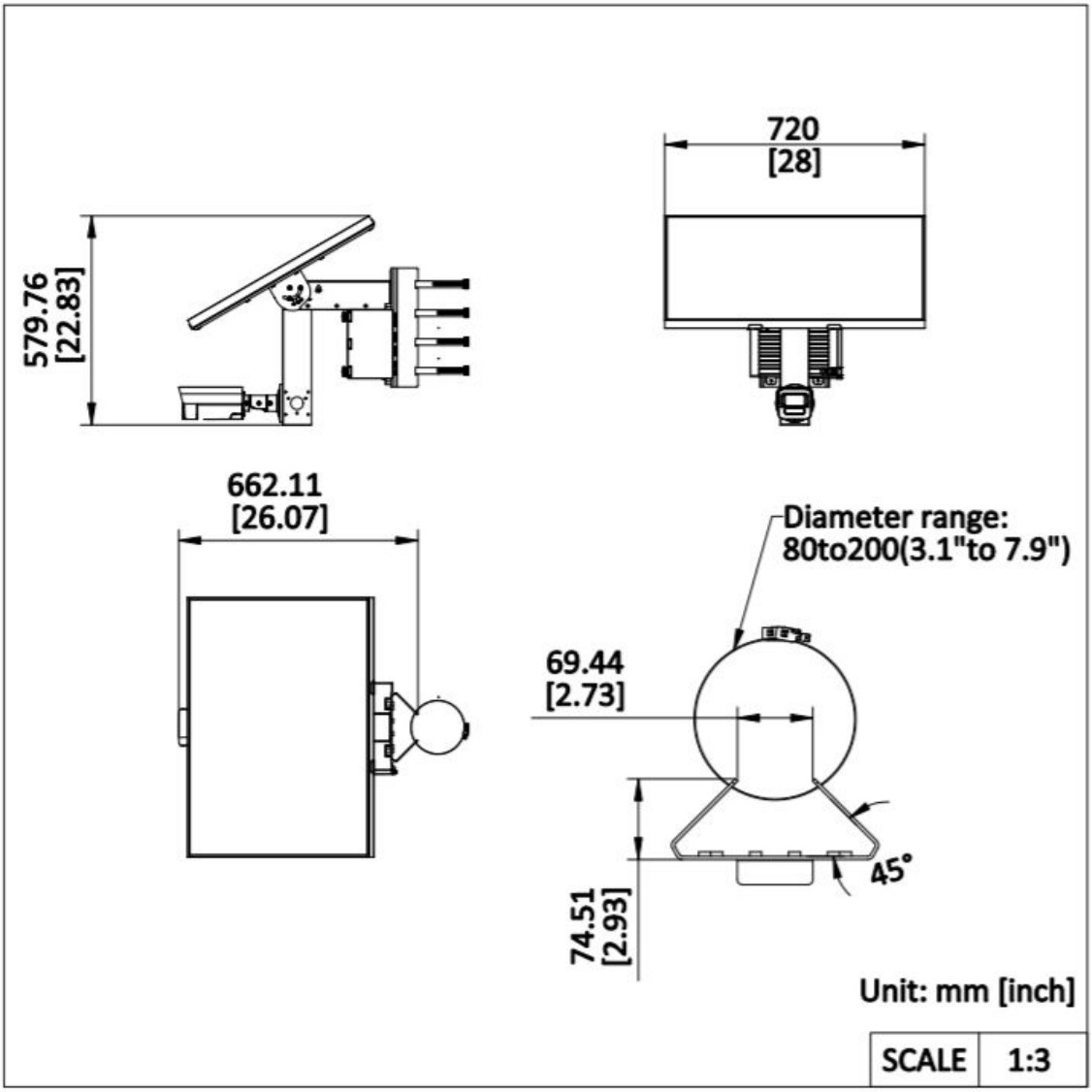
This model has NO SPECIFIC PROTECTION.

| 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-2XS6A46G1E-LIZS/C36S80(2.8-12)O-STDNB
DS-2XS6A46G1E-LIZS/C36S80(8-32mm)O-STDNB
DS-2XS6A46G1E-LIZS/C36S80(2812)O-STDNBLA
DS-2XS6A46G1E-LIZS/C36S80(8-32)O-STDNBLA
DS-2XS6A46G1-LIZS/4G(2.8-12mm)
DS-2XS6A46G1E-LIZS/C36S80(2.8-12mm)O-STD
DS-2XS6A46G1E-LIZS/C36S80(8-32mm)
DS-2XS6A46G1E-LIZS/C36S80(2.8-12)OSTD/LA
DS-2XS6A46G1E-LIZS/C36S80(8-32mm)OSTD/LA
DS-2XS6A46G1E-LIZS/C36S80(2.8-12)O-NEUNB
DS-2XS6A46G1E-LIZS/C36S80(2.8-12mm)O-NEU

## ▪ Dimension


579.76
[22.83]
720
[28]
662.11
[26.07]
Diameter range:
80to200(3.1"to 7.9")
69.44
[2.73]
45°
74.51
[2.93]
Unit: mm [inch]
SCALE
1:3

See Far, Go Further

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