

## DS-2XS6A47G1/P-IZSC36S80

### 4 MP ANPR Bullet Solar Power 4G Network Camera Kit



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-FDD/WCDMA 4G wireless network transmission, support Micro SIM card
- Water and dust resistant (IP66)

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## ▪ Function

### Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

## **▪ Specification**

| <b>Camera</b>          |                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                           |
| Max. Resolution        | 2560 × 1440                                                                                                                                                                                                                                                            |
| Min. Illumination      | Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0 Lux with light                                                                                                                                                                                                              |
| Shutter Time           | 1 s to 1/100,000 s                                                                                                                                                                                                                                                     |
| <b>Lens</b>            |                                                                                                                                                                                                                                                                        |
| Lens Type              | Auto, Semi-auto, Manual                                                                                                                                                                                                                                                |
| Focal Length & FOV     | 2.8 to 12 mm, horizontal FOV 107.4° to 39.8°, vertical FOV 56° to 22.4°, diagonal FOV 130.1° to 45.7°<br>8 to 32 mm, horizontal FOV 40.3° to 14.5°, vertical FOV 22.1° to 8.2°, diagonal FOV 46.9° to 16.5°                                                            |
| Iris Type              | Auto-iris                                                                                                                                                                                                                                                              |
| Lens Mount             | All In One Lens                                                                                                                                                                                                                                                        |
| Aperture               | 2.8 to 12 mm: F1.2, 8 to 32 mm: F1.6                                                                                                                                                                                                                                   |
| <b>DORI</b>            |                                                                                                                                                                                                                                                                        |
| DORI                   | 2.8 to 12 mm:<br>Wide: D: 60.0 m, O: 23.8 m, R: 12.0 m, l: 6.0 m<br>Tele: D: 149.0 m, O: 59.1 m, R: 29.8 m, l: 14.9 m<br>8 to 32 mm:<br>Wide: D: 150.3 m, O: 59.7 m, R: 30.1 m, l: 15.0 m<br>Tele: D: 400 m, O: 158.7 m, R: 80 m, l: 40 m                              |
| <b>Illuminator</b>     |                                                                                                                                                                                                                                                                        |
| Supplement Light Type  | IR                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                    |
| <b>Video</b>           |                                                                                                                                                                                                                                                                        |
| Main Stream            | Performance mode:<br>50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)<br>Proactive mode:<br>50 Hz: 12.5 fps (2560 × 1440, 1920 × 1080, 1280 × 720)<br>60 Hz: 15 fps (2560 × 1440, 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           | 50 Hz: 1 fps (1280 × 720, 640 × 480)<br>60 Hz: 1 fps (1280 × 720, 640 × 480)                                                                                                                                                                                           |
| Video Compression      | Main stream: H.265<br>Sub-stream: H.265/MJPEG<br>Third Stream: H.265<br>*Performance mode: main stream supports H.265+                                                                                                                                                 |

|                             |                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                                                                                                                                                                                                               |
| H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                    |
| Bit Rate Control            | CBR/VBR                                                                                                                                                                                                                                                                                                                         |
| Scalable Video Coding (SVC) | H.265 encoding                                                                                                                                                                                                                                                                                                                  |
| Region of Interest (ROI)    | 4 fixed regions for main stream                                                                                                                                                                                                                                                                                                 |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                 |
| 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/44.1 kHz/48 kHz                                                                                                                                                                                                                                                                                             |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                             |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                 |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                |
| API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP, OTAP                                                                                                                                                                                                                                          |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets                                                                                                                                                                  |
| 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, TLS 1.2, TLS 1.3 |
| 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                      | Hik-Connect (proactive mode also supports), Hik-central Professional                                                                                                                                                                                                                                                            |
| Web Browser                 | Plug-in required live view: IE 10+<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                                                                                                                         |
| <b>Mobile Communication</b> |                                                                                                                                                                                                                                                                                                                                 |
| SIM Card Type               | MicroSIM                                                                                                                                                                                                                                                                                                                        |
| Frequency                   | LTE-FDD: Band2/4/5/12/13/66/71<br>WCDMA: Band2/4/5                                                                                                                                                                                                                                                                              |
| Standard                    | LTE-FDD/WCDMA                                                                                                                                                                                                                                                                                                                   |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                 |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                                                                          |
| Day/Night Switch            | Day, Night, Auto, Schedule, Video Trigger                                                                                                                                                                                                                                                                                       |
| Image Enhancement           | BLC, HLC, 3D DNR, Defog                                                                                                                                                                                                                                                                                                         |
| 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 polygon privacy masks                                                                                                                                                                                                                                                                                            |

| Interface                          |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio                              | 1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,<br>1 output (line out), max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium                                                                                                         |
| Alarm                              | 1 input, 1 output (max. 12 VDC, 1 A)                                                                                                                                                                                                                                                                                                                  |
| On-Board Storage                   | Built-in memory card slot, support microSD card, up to 256 GB,<br>Built-in 256 GB eMMC storage                                                                                                                                                                                                                                                        |
| Reset Key                          | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Ethernet Interface                 | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                         |
| Wiegand                            | 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)                                                                                                                                                                                                                                                                                         |
| Event                              |                                                                                                                                                                                                                                                                                                                                                       |
| Basic Event                        | Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD error)                                                                                                                                                                                                                              |
| Smart Event                        | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, scene change detection, face detection                                                                                                                                                     |
| Linkage                            | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning                                                                                                                                                                                                      |
| Deep Learning Function             |                                                                                                                                                                                                                                                                                                                                                       |
| Road Traffic and Vehicle Detection | Blocklist and allowlist: up to 10, 000 records<br>Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)<br>License plate recognition rate $\geq$ 95%                                                                                                                                     |
| General                            |                                                                                                                                                                                                                                                                                                                                                       |
| Power                              | 12 VDC $\pm$ 20%, 4-pin M8 waterproof connector<br>1. Standby power consumption: 45 mW<br>2. The average power consumption of 24 hours: 3.5 W (4G transmission is excluded).<br>3. The max. power consumption: 7 W                                                                                                                                    |
| Material                           | Front cover: metal, body: metal, bracket: metal                                                                                                                                                                                                                                                                                                       |
| Dimension                          | 816.2 mm $\times$ 735.9 mm $\times$ 760 mm (32.1" $\times$ 28.9" $\times$ 29.9") (Max. size of the camera after it is completely assembled)                                                                                                                                                                                                           |
| Package Dimension                  | 862 mm $\times$ 352 mm $\times$ 762 mm (33.9" $\times$ 13.9" $\times$ 30.0")                                                                                                                                                                                                                                                                          |
| With Package Weight                | Approx. 31.885 kg (70.3 lb.)                                                                                                                                                                                                                                                                                                                          |
| Weight                             | Approx. 25.650 kg (56.5 lb.)                                                                                                                                                                                                                                                                                                                          |
| Storage Conditions                 | -20 $^{\circ}$ C to 60 $^{\circ}$ C (-4 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                      |
| Startup and Operating Conditions   | -20 $^{\circ}$ C to 60 $^{\circ}$ C (-4 $^{\circ}$ 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                   | Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter                                                                                                                                                                                                                                                                   |
| 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: -20 °C to 45 °C (-4 °F to 113 °F)<br>Discharging: -20 °C to 60 °C (-4 °F to 140 °F)            |
| Cycle Lifetime        | Performance mode: 5 days, Proactive mode: 8 days, Standby mode: 80 days<br>*in cloudy/rainy days (25 °C) |
| Battery Life          | More than 500 cycles                                                                                     |
| Battery Weight        | Approx. 2.74 kg (6.0 lb.) (0.685 kg (1.5 lb.) for each battery)                                          |
| <b>Approval</b>       |                                                                                                          |
| EMC                   | FCC (47 CFR Part 15, Subpart B);                                                                         |
| RF                    | FCC ID (47 CFR Part15 Subpart C);                                                                        |
| 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.

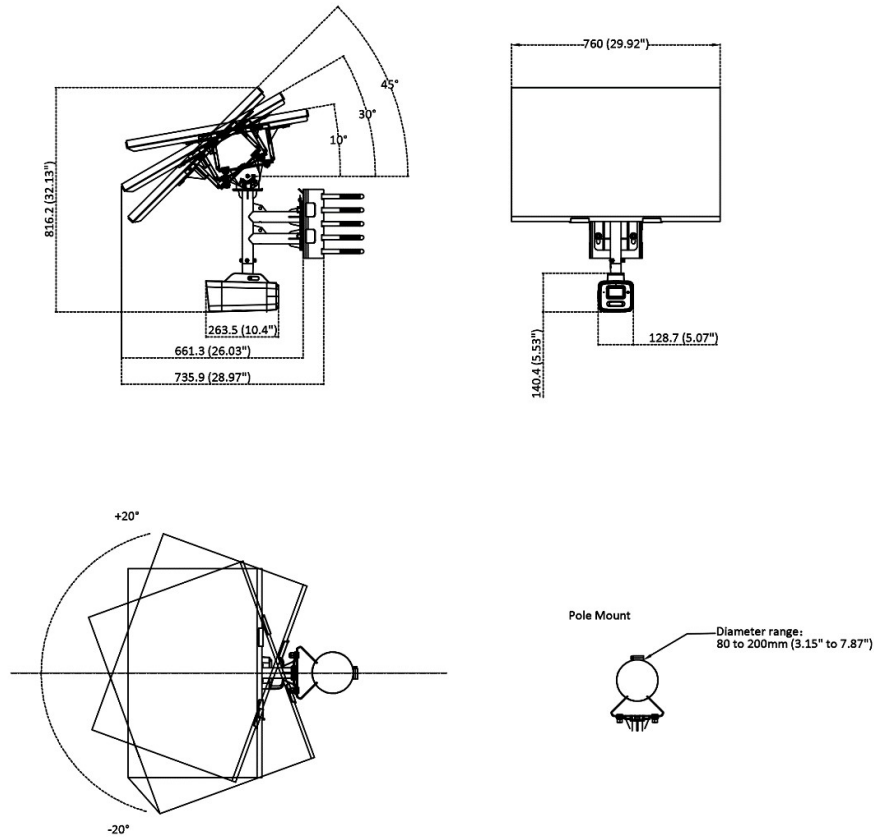
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2XS6A47G1/P-IZSC36S80 (2.8-12mm)

DS-2XS6A47G1/P-IZSC36S80 (8-32mm)

## Dimension



Unit: mm (inch)

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