



# 4G Solar-powered ANPR Camera Kit (Lite Version)

Applicable Solution:  
S100B96 (or S100B55)  
+ SP111 Camera+ SA02+ A02



Battery pack is available

## KEY FEATURES

### 17 Days Battery Life Guaranteed

Even on rainy days, it can achieve up to 17 days of extended standby time, providing long-term uninterrupted reliability to safeguard every moment that matters.

### Intelligent Energy-saving Operation Mode

Efficient and energy-saving, it focuses on the events you care about most. It also allows for scheduled sleep to conserve energy. Various modes ensure the stable and secure operation of the Kit system.

**Advanced AI algorithms** enable precise detection and alerting of abnormal situations.

Various intelligent analyses can be applied to multiple scenarios such as vehicle monitoring, No-plate Vehicle alerts, and White/Black List Management, making the management of remote areas easier.

**(ANPR, Vehicle Type, No-plate Vehicle Capture, White/Black List Management)**

**Rugged and sturdy waterproof design** with an **IP67** rating, capable of withstanding up to level **12** winds.

# 4G Solar-powered ANPR Camera Kit

## (Lite Version)



| Name  |                       | 4G Solar-powered ANPR Camera (4MP)                           |
|-------|-----------------------|--|
| Model |                       | <b>SP111</b><br><b>/41L</b>                                  |
| Image | Image Sensor          | 1/2.8" Progressive Scan CMOS                                 |
|       | Min. Illumination     | Color: 0.005Lux @F1.6<br>B/W: 0Lux with IR on                |
|       | WDR                   | 120dB Super WDR  |
|       | Shutter Time          | 1/100000s~1s   |
|       | Day/Night Mode        | Day/Night/Auto/Customize/Schedule                            |
|       | IR Wave Length        | 850nm/740nm  |
|       | IR Distance           | Up to 20 m (65.62 ft)  |
|       | S/N                   | >55dB  |
| Lens  | Lens                  | 6mm/16mm   |
|       | Mount                 | M12  |
|       | Field of View         | 6mm: H52.8°/D60.4°/V29.7°<br>16mm: H19.4°/D22.2°/V11°        |
| Video | Max. Image Resolution | 4MP (2688*1520)  |
|       | Primary Stream        | 60Hz/50Hz: 15fps@(2688*1520, 2304*1296, 1920*1080, 1280*720) |
|       | Secondary Stream      | 60Hz/50Hz: 15fps@(1280*720, 704*576, 640*480)                |
|       | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264                              |
|       | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                            |
|       | Privacy Masking       | Up to 4 areas (Mask)   |
|       | ROI                   | Up to 8 areas  |
|       | Image Setting         | Brightness/Contrast/Saturation/Sharpness                     |
|       | Web Access            | WIFI/VPN/Milesight VMS                                       |

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|                       |                           |   |
|-----------------------|---------------------------|---|
| Interface             | Alarm I/O                 | Input *1, Output *1   |
|                       | Audio I/O                 | Input *1, Output *1   |
|                       | Ethernet                  | 1*RJ45 10M/100M Ethernet Port   |
|                       | RS485                     | 1   |
| Wireless Network      | WLAN                      | 802.11n/802.11g   |
|                       | Cellular                  | 4G LTE<br>NA: LTE-FDD(B2/4/5/12/13/14/66/71)<br>AU: LTE-FDD(B1/2/3/4/5/7/8/28) ; LTE-TDD(B40)<br>JP: LTE-FDD(B1/3/8/18/19/26); LTE-TDD(B41)<br>EU: LTE-FDD(B1/3/7/8/20/28A); LTE-TDD(B38/40/41) |
|                       | SIM Card                  | Nano SIM  |
|                       |                           |   |
| Intelligent Analytics | ANPR Distance             | 6mm: Up to 10m<br>16mm: Up to 20m   |
|                       | Coverage                  | Up to 2 lanes   |
|                       | Recognition Accuracy      | ≥ 95%   |
|                       | Max. Vehicle Speed        | Vehicles with a speed of ≤ 70 km/h (43.5 mile/h)  |
|                       | Attributes Identification | Vehicle Type, No-plate Vehicle Capture, White/Black List Management   |
|                       | Country Region Supported  | More than 20 countries and regions  |
|                       | White/Black List          | Up to 20,000 records inside the camera  |
|                       |                           |   |
| System                | GPS                       | Built-in High-accuracy GPS Module   |
|                       | Storage                   | Support microSD/SDHC/SDXC Card Local Storage, up to 1TB   |
|                       | Advanced Function         | BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur  |
|                       | Event Trigger             | Intelligent Analytics, External Input, etc.   |
|                       | Event Action              | HTTP/MQTT Post, FTP Upload, SMTP Upload, SD Card Record, External Output, etc.  |
|                       | System Compatibility      | ONVIF Profile G & M & S & T, API  |
|                       |                           |   |
| General               | Working Temperature       | Charging: -20 °C to 45 °C (-4 °F to 113 °F)<br>Discharging: -20 °C to 60 °C (-4 °F to 140 °F)   |
|                       | Working Humidity          | 0~95% (Non-condensing)  |
|                       | Power Supply              | DC 12V±10%  |
|                       | Power Consumption         | <b>Sleep Mode:</b> 0.19 W<br><b>Basic:</b> 1.72 W (ANPR + 4G Module OFF)<br><b>Max:</b> 3.51 W (Illuminator + ANPR + 4G streaming ON)   |

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|               |                   |   |
|---------------|-------------------|---|
| General       | Surge Protection  | 4KV   |
|               | Weather Proof     | Up to IP67-rated for Weather-resistant Performance  |
|               | Camera Dimensions | 120*120*260 mm  |
|               | Camera Weight     | 2.2kg   |
| Certification | EMC               | CE-EMC (EN 55032,EN 55035)<br>FCC (PART 15B)<br>RCM (AS/NZS CISPR 32)   |
|               | Safety            | CE-LVD (EN IEC 62368-1)<br>RCM (AS/NZS 62368.1)   |
|               | FR                | CE-RED (EN 300 328,EN301489-1,EN301489-17,EN 62133)<br>FCC (Part 15.247)<br>RCM (AS/NZS 4268,AS/CA S042.1,AS/CA S042.4,AS/NZS 2772.2)<br>Telec (MIC Item 19 of Article 2 Paragraph 1) |
|               | Environment       | CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)   |
|               | Protection        | IP67<br>Wind Resistance: Level 12 (Hurricane-force)   |



# 4G Solar-powered ANPR Camera Kit

## (Lite Version)



| Name                       |                               | S100 Solar Power System  |  |
|----------------------------|-------------------------------|--|--|
| Model                      |                               | S100B55  | S100B96  |
| Appearance                 |                               |  |  |
| Solar Panel Modules in Kit |                               | <b>Default: 1 units;</b><br><b>Optional: 2 units</b>                               |  |
| Charge                     | PV Power                      | 100W   |  |
|                            | PV Input Voltage              | 18V  |  |
|                            | Material                      | Monocrystalline silicon  |  |
| Energy Storage             | Battery Type                  | NMC  |  |
|                            | Battery Capacity              | 50AH   | 90AH   |
|                            | Total Energy                  | 555Wh  | 962Wh  |
|                            | Battery Life                  | 9 days (without data transmission),<br>6 days (with data transmission)             | 17 days (without data transmission),<br>11 days (with data transmission) |
|                            | Deep Cycles                   | > 1000   |  |
|                            | Nominal Voltage               | 11.1V  |  |
|                            | Working Voltage Range         | 9~12.4V DC   | 9.6~12.6V DC   |
| Discharge                  | Output Voltage                | 9~12.6V DC   | 11.1~12.6V DC  |
|                            | Maximum Output Current        | 10A  |  |
|                            | Discharge Depth               | 95%DOD   |  |
| Function                   | Communication                 | RS485  |  |
|                            | Battery Heating               | Charging current > 2A and<br>lower than -5℃ turns on                               |  |
|                            | Protection Type               | Overcurrent/ Overvoltage/<br>Short Circuit/ Undervoltage/ Temperature              |  |
|                            | Charging Temperature Range    | 0℃~60℃   |  |
|                            | Discharging Temperature Range | -20℃~65℃   |  |
|                            | Status Indicator              | LED (charging status, battery status, output status)                               |  |

# 4G Solar-powered ANPR Camera Kit

(Lite Version)

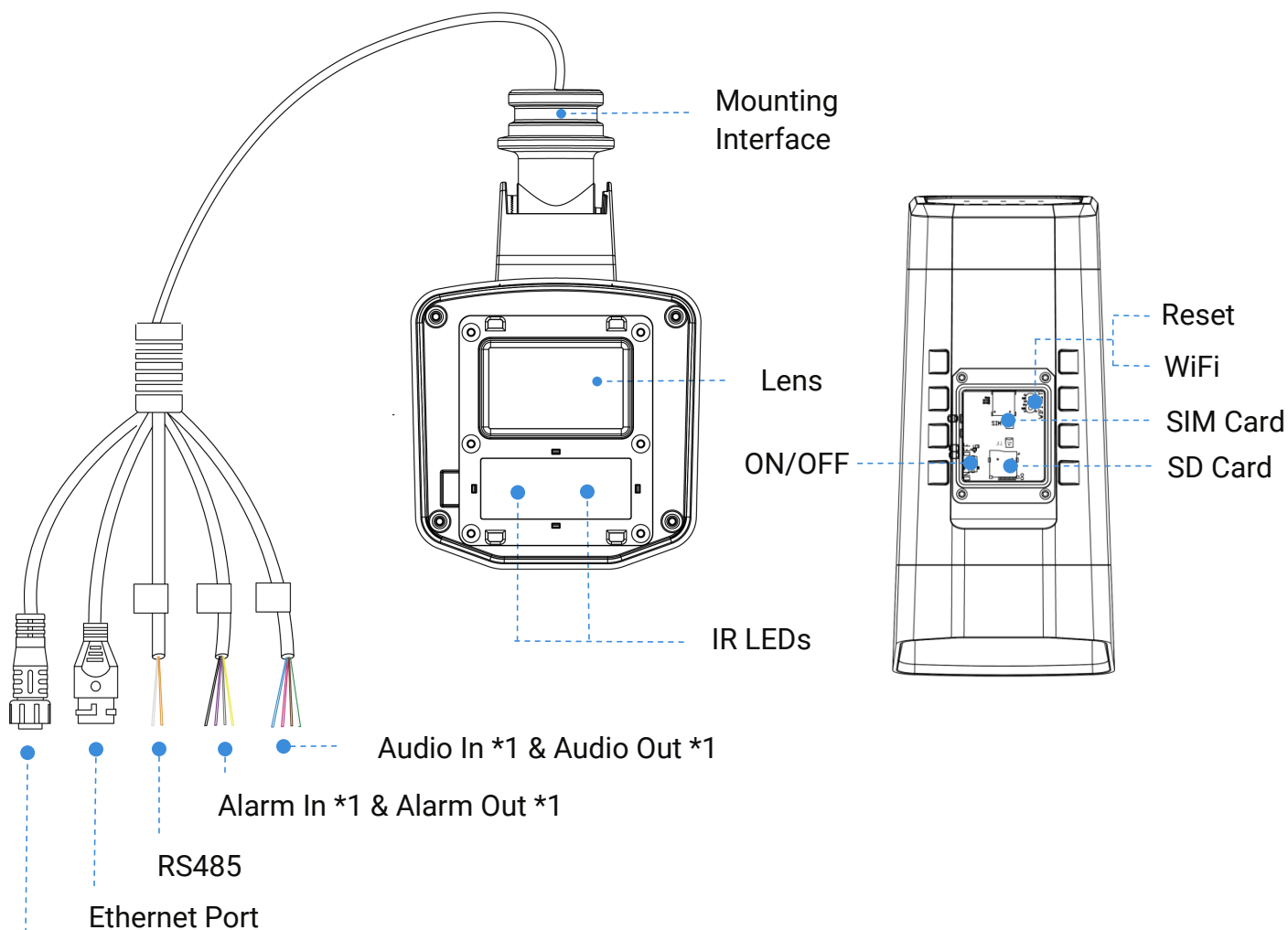


|                    |                                   |  |   |
|--------------------|-----------------------------------|--|---|
| General Parameters | Output Method                     | M12 5-pin Connector                            |   |
|                    | Output Line Length                | 1.5m   |   |
|                    | Waterproof                        | IP66   |   |
|                    | Humidity Range                    | 4-100% (no condensation)                       |   |
|                    | Cooling Method                    | Natural Heat Dissipation                       |   |
|                    | Hazardous Material Classification | 9  |   |
|                    | Shell Material                    | Galvanized Steel + Plastic                     |   |
|                    | Fixed Way                         | Hanging Rod / Wall Mounting                    |   |
|                    | Product Dimensions                | 765*630*69 mm<br>825*690*105 mm (with Package) | 765*630*112.5 mm<br>825*690*140 mm (with Package) |
|                    | Weight                            | 13kg   | 16kg  |
|                    | Warranty                          | 2 years  |   |
|                    | Certificate                       | UN38.3/MSDS/CE/ROHS                            |   |

# 4G Solar-powered ANPR Camera Kit (Lite Version)

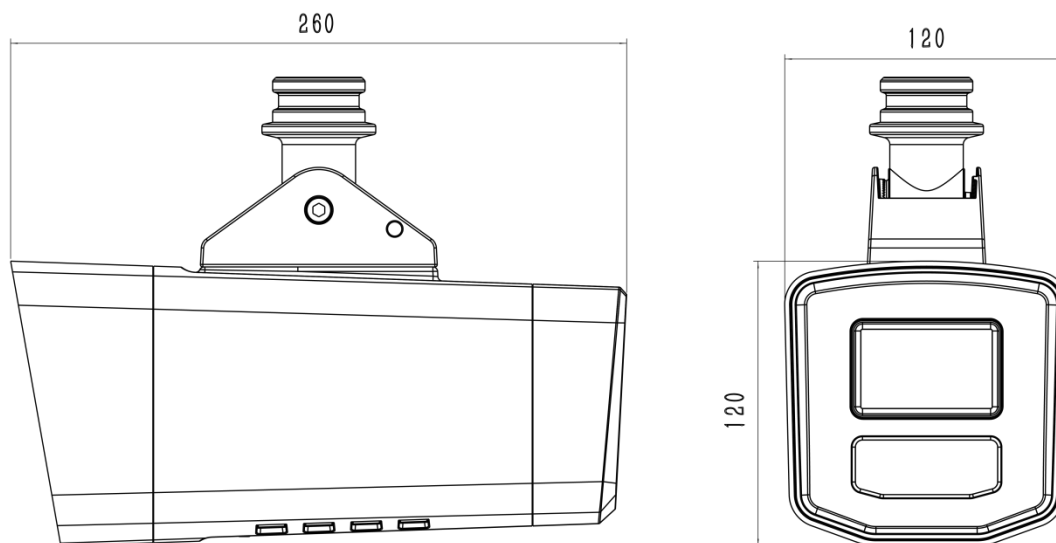


## Structure Diagrams



### Power Supply

(used for power supply and RS485 battery information communication with the battery system)



Units: mm

# 4G Solar-powered ANPR Camera Kit (Lite Version)



## S100B55

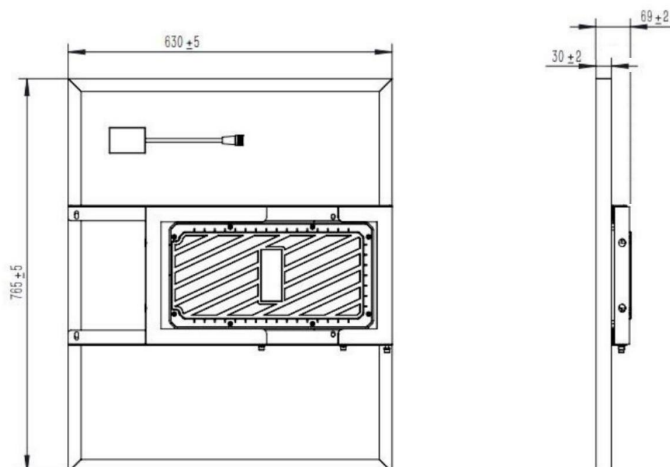
Weight: 13kg

Dimensions:

765\*630\*69 mm

825\*690\*105 mm

(with Package)



## S100B96

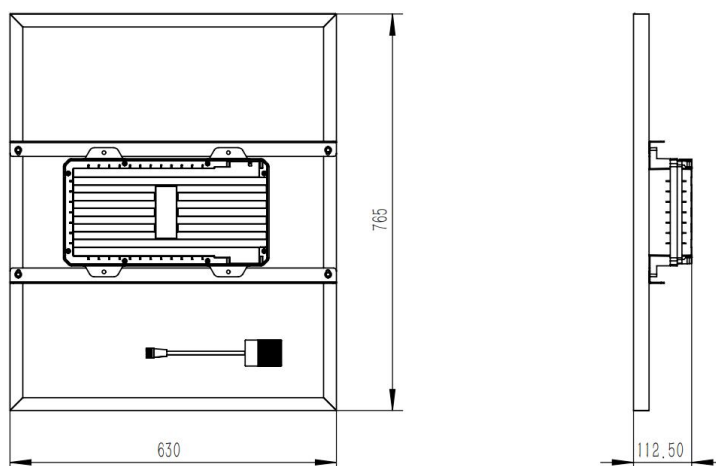
Weight: 16kg

Dimensions:

765\*630\*112.5 mm

825\*690\*140 mm

(with Package)



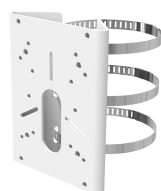
## Accessories Support

### A02 V2 Pole Mount

Weight: 1kg

Dimensions:

180\*136\*46 mm



### SA02 Wall Mount

Weight: 2.2kg

Dimensions:

150\*260\*400 mm



### S100 Expansion Module

Model: SA100



### Solar Power System Bracket

Model: BJ-N

Weight: 3.5kg

Dimensions: 220\*217.5\*30 mm



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