Solar Cellular Camera

User Manual



Model Numbers:

- **SCC100** (for UK/EU),
- **SCC100-NA** (for USA/Canada)

Thank you for choosing the Snapshot Live Solar Cellular Camera. This product provides a comprehensive monitoring solution in a compact and robust unit. This includes a multi-network 4G modem, an auto-focus 5MP camera, location tracking, a solar panel and rechargeable battery.

This camera is designed for use with the Snapshot Live Web Portal at **www.snapshot.live**, which allows Administrators and Users to:

- **View images and performance** (battery level, signal strength)
- **Configure settings** (exposure, brightness, schedule, interval)
- **Set up notifications** and analytics-based alerts
- **Generate reports** (PDFs, image downloads, timelapse videos)

Please read this manual carefully for important operational, safety, and legal information. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. The overall safety of any system incorporating this equipment is the responsibility of the assembler of the final end system.

Overview



Solar Cellular Camera

User Manual



Camera Operation

Wake-Up Button Functionality

Activating the Camera: Press the Wake-Up button (on the front panel) to power on the camera. If within its active schedule, the camera will capture an image and upload it to the web platform.
Outside Timer Schedule: If the Wake-Up button pressed outside of the active schedule, the camera will enter sleep mode and automatically wake at the next scheduled interval.
Installation Testing: The Wake-Up button is ideal for testing camera orientation and functionality during installation.

GPS Location Update

Pressing the Wake-Up button activates the onboard GNSS (GPS) module. The GNSS operation continues until a high-accuracy lock is achieved or the battery level drops below 75%. The camera should be woken up after every relocation to update GPS coordinates.

Depending on the wake-up schedule and interval timer, the location may not update on the first image capture. Location updates depend on both the orientation of the camera and the position of GPS satellites at that time. GPS satellites continuously move in orbit, resulting in varying satellite visibility over a 24-hour period. A higher number of satellites in view, generally results in a more accurate location.

While the GPS functionality may operate indoors or under structures, optimal accuracy is achieved outdoors with a clear, unobstructed view of the sky.

Power Down for Storage

To deactivate the camera for long-term storage/shipping, press and hold the Wake-Up button for 5 seconds, then release. This operation disconnects the internal battery, preventing it from charging and enabling safe, long-term storage. The camera can still draw power from the solar panel even when the internal battery is disconnected. Therefore, the solar panel should also be unplugged during storage and shipping to ensure the unit remains powered off. No LED indicator confirms disconnection so it is advisable to wake the camera first, then perform the shutdown procedure.

Solar Cellular Camera

User Manual



LED Indicators

Internal RGB LED:

- Flashing **Green**: ***Camera awake***
- Flashing **Blue**: ***Connecting to network***
- Pulsing **Blue**: ***Online and operational***
- Flashing White: ***Powering down***
- Flashing **Purple**: ***Firmware update in progress***

Side Indicators:

- Solid **Amber**: ***Power to camera sensor (1) and GNSS module (2)***
- Solid **Green**: ***External power (solar)***
- Solid **Red**: ***Battery charging (off when fully charged)***

Camera Registration and Access

- A QR code and serial number are located on the front panel.
- Scan the QR code via the Snapshot Live web portal to add the camera to your organisations account. Only Administrators can register new devices.
- Cameras cannot be added to a second organisation unless first removed by an Administrator.
- Admins can grant User access to cameras through the portal's Admin page.

Power & Battery

- The internal battery is a 3.7V 3450mAh Lithium-Ion
- The integrated solar panel continuously recharges the internal battery, enabling year round operation. Battery performance may vary depending on mobile signal strength and GPS activity, as these factors affect image upload speed and power consumption.
- Operates on 2G, 3G, and 4G networks. On weak 2G connections, image uploads may take up to 10 minutes.

Battery Safety Information

- Contains a Lithium-Ion battery. Do not expose to extreme heat, sunlight, or flame.
- Do not dismantle, crush, or short-circuit.
- Dispose of batteries responsibly, following local regulations.

Solar Cellular Camera

User Manual



Solar Panel Alignment

Orientation Instructions

The solar panel must not be placed in a shaded location. Ensure it has a clear, unobstructed view of the sun, ideally without tree coverage, as falling leaves can block sunlight and accumulate on the panel.

During installation, it is recommended to first position and orient the camera securely, confirming it is not in a shaded area, then align the solar panel for optimal exposure.

- The orientation of the solar panel may be adjusted by loosening the locking screws. The panel may then be flipped for a steeper angle to improve sun exposure.
- If required the panel can be swiveled or removed and mounted separately. Contact Snapshot Live support for additional mounts.
- The solar panel must be plugged into the rear of the camera using the attached DC power cable, to enable continuous charging and operation.
- Ensure all ball joints and locking screws on the camera are firmly tightened during initial installation to prevent movement or misalignment.



Solar Panel Orientation Options

Solar Cellular Camera

User Manual



Mounting Options

Clamp, magnetic and pole mounting options are available. The clamp and magnetic mounts are interchangeable and use the rear ball joint, fitted when the camera is initially supplied.

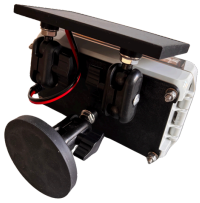
Pole Mount Installation:

- Remove ball joint by loosening the locking nut with a spanner. Attach pole mount using the same nut.
- Pole mount includes stainless steel locking straps for secure attachment.
- For public/unattended areas, mount at minimum height of 4m to prevent tampering.

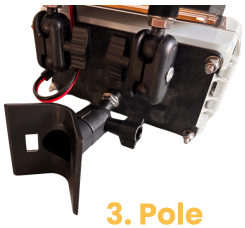
Flexible Mounting Options



1. Clamp



2. Magnet



3. Pole

Maintenance & Safety

- No user-serviceable parts. Do not open or attempt maintenance unless qualified.
- In case of damage, quarantine the camera and contact Snapshot Live for collection.
- Regularly clean the lens and solar panel. Cleaning frequency depends on the operating environment.
- Use appropriate personal protective equipment (PPE) during installation, especially when working at height.
- Ensure the mounting surface is stable and secure. Do not install in very close proximity to unprotected power lines or in explosive atmospheres.
- Ensure all power connections are secure and dry. Do not expose connectors to water.
- Only use the supplied solar panel and cables for power. Do not connect to unauthorised power sources.
- Disconnect the solar panel and power down the camera before transport or maintenance.
- Handle the camera carefully. Avoid impacts or using sharp tools on the lens or panel.
- Do not submerge the camera in water.
- Operating temperature range: -20°C to +40°C.

Solar Cellular Camera

User Manual



Proper Use and Privacy Guidance

Intended Use:

The Snapshot Live Solar Cellular Camera is intended for:

- Time-lapse image capture of construction, infrastructure, and industrial sites
- Remote site monitoring for safety, maintenance, and environmental oversight
- Generating progress reports and visual documentation
- Enhancing project transparency with stakeholders through visual media

Acceptable Use:

- Camera must be installed in compliance with all local laws and regulations
- Use should be focused on site conditions, infrastructure, and operational activity
- Images must be captured at intervals that are proportional to the monitoring purpose (e.g., 15 min – daily)

Unacceptable Use:

- Do not use the camera for continuous surveillance or covert monitoring of individuals
- Do not install the camera with the intention to track personal movements or invade privacy
- Avoid positioning the camera where it will regularly capture private property or sensitive locations without consent

Privacy and Compliance:

- Operators are responsible for ensuring the use of this device complies with applicable data protection and privacy laws, including GDPR and equivalent regional regulations
- Signage should be placed near the camera informing individuals that image capture is in operation
- Personal data, including images where individuals may be identified, must be:
  - Collected lawfully and transparently
  - Stored securely
  - Retained only for the duration necessary to achieve its purpose

Snapshot Live Ltd is not responsible for the misuse of the camera in violation of privacy or surveillance legislation.

Solar Cellular Camera

User Manual



Regulatory and Legal Compliance

GDPR Compliance (EU/UK)

This device may capture images of individuals. If used in the European Union or United Kingdom, it must comply with GDPR and privacy laws.

User Responsibilities:

- Operate the camera lawfully, fairly, and transparently.
- Post clear signage informing individuals of surveillance.
- Use images only for stated purposes (e.g., safety, auditing and training).
- Store data securely and retain it only as long as necessary.
- Respect data subject rights, including access requests.

For guidance, consult the UK ICO or relevant EU Data Protection Authority.
Snapshot Live Ltd is not responsible for misuse of this device in violation of privacy laws.

CE & UKCA Compliance (EU/UK Markets)

This device complies with:

- EU Directive 2014/53/EU (RED)
- EU RoHS Directive 2011/65/EU
- UKCA Regulations for Great Britain

Disposal: Marked with the WEEE symbol. Do not dispose of in household waste. Follow local e-waste and battery recycling regulations.

FCC Compliance (USA/Canada)

FCC Statement:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Contains FCC ID: 2AEMI-B504

Technical Specification

Camera
Resolution: 5 Megapixels, auto-focus
Shutter Type: Rolling shutter
Filter: IR-cut for daylight color accuracy
Operation: Daytime (optimized for natural lighting)

Connectivity
Modem: LTE Cat 1, (bands: 1, 3, 7, 8, 20, 28A) with 2G, 3G fallback
SIM: Embedded roaming SIM with private APN
Certifications: EMEAA (Europe, Middle East, Africa, Asia)
Note: U.S., Canada, and Mexico available on request

GNSS & Monitoring
GNSS Receiver: L1 supporting GPS, GLONASS, Galileo, and BeiDou
Antenna: Integrated active patch antenna
Monitoring: Remote battery and location tracking

Remote Configuration
Camera Settings: Automatic or manual (exposure, focus, etc.)
Scheduler: Wake-up timer and 24-hour schedule
AI Analytics: Custom question-based configuration
Notifications: Remotely configurable email alerts

Power & Charging
Battery: 3.7 V, 3500 mAh rechargeable lithium-ion
Solar Charging Socket: 6V DC @ 1000 mA
Solar Panel: 1.2 W monocrystalline with ETFE coating for durability

Physical & Environmental
Enclosure: Shockproof ABS
Ingress Protection: IP68 (waterproof and dust-tight)
Operating Temperature: -20degC to +60degC
Mounting: Pole, Plate, Clamp, or Magnet
Dimensions/Weight: 150mm x 70mm x 120mm / 550g

Firmware & Updates
OTA Updates: Full over-the-air firmware update capability

Solar Cellular Camera

User Manual



Contact Information

For technical support or general information, please contact us:

Snapshot Live Ltd.
📍 8 St. Lukes Close, Thurnby, Leicester, UK
✉ info@Snapshot.Live
🌐 www.Snapshot.Live

For documentation and legal notices, visit:
🌐 www.Snapshot.Live

We're here to help with installation advice, platform support or questions about compliance and privacy.

Version: 1.0
Manual: SCC100 and SCC100-NA