

# SR-S1

Share Reality System

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# SR-S1 Quick start guide

## Components








### SR-S1 components



- 1. GNSS antenna
- 2. Lidar sensor
- 3. 12 MP panoramic cameras
- 4. Visual SLAM camera
- 5. USB-C port
- 6. Locking handle
- 7. Anti-detachment button

- 8. Battery level indicator
- 9. GCP marker
- 10. Base stand
- 11. Smart battery
- 12. Acquisition status button and indicator
- 13. Power button and indicator

# Accessories

<p>Charger, cable, and socket adapter</p>	
<p>Li-ion battery 14.4 VDC (nominal) 16.8 VDC (maximum charge) 3450 mAh</p>	
<p>USB drive</p>	
<p>USB data cable</p>	
<p>Lidar and camera cover</p>	
<p>Phone holder</p>	
<p>Storage case</p>	

# Buttons and states

## SR-S1 Power button acquisition status indicator button



1. Power button and LED

2. Acquisition status indicator button and LED

Power indicator LED	
Power button	Sets power to ON or OFF and shows power status
OFF	Device has no power
Fast green flash	Device power to ON or OFF in process
Solid green	Device has power
Solid red	Device not active
Acquisition status indicator LED	
Acquisition status indicator button	Controls data collection and shows device activation and data collection status
OFF	Device has no power
Solid red	Available memory less than 5%
Solid green	Device active

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Fast green flash	Initialization or GCP collection
Slow green flash	Data collection

## Software

The current Topcon MAGNET Bridge and Topcon MAGNET Flow software is available at [myTopcon NOW!](#). Use MAGNET Flow to:

- Register your account
- Manage projects
- Configure
  - system settings
  - RTK settings
- Browse the pointcloud in real time

App requirements for phone or tablet	Description
Android version	System version 8 or higher
Android memory	> 6 GB
iOS version	System iOS version 12 or higher
iOS processor	A10 or higher

### NOTICE:

- ! Make sure that the app version is current. Use **Version Upgrade** to get the current app version.

## Software installation and device registration

1. Scan the QR code:

### MAGNET Flow for iOS



## MAGNET Flow for Android



2. Download MAGNET Flow.  
MAGNET Flow is also available from [myTopcon NOW!](#).
3. Start the MAGNET Flow app.
4. Complete the on-screen instructions.

## Assembly

1. Remove the device components from the package.
2. Align the bosses in the base with the holes in the bottom of the battery.

**NOTE:**

Correct alignment of the bosses and holes aligns the screw hole in the battery with the base.

### Bosses in base holes in battery



3. Insert the screw.
4. Tighten the screw until it cannot turn.

### Tighten screw



5. Open the locking handle.

### Open locking handle



6. Align the battery with the groove in the bottom of the device.

## Battery alignment



7. Push the battery into position on the device.
8. Close the locking handle.

## Close handle



## Assembled device



## Disassembly

The antenna must remain attached to the device.

### **WARNING:**

- ⚠** Set the device power to OFF before you install or remove the battery. Do not remove or install the battery while the power is ON.

1. Open the locking handle.

### Open handle



2. Push the anti-drop button.

**Push anti-drop button**



3. Carefully remove the battery.

**Battery removal**



4. Loosen the screw that attaches the base stand to the battery.

### Loosen screw



5. Remove the base stand from the battery.
6. Put the components in the storage case or safe location.

## Safe operation

Follow these guidelines to use and handle the battery safely.

### WARNING:

- ⚠ Do not use batteries that are swollen, leaking, or have damaged packaging. Tell Topcon or an authorized agent if these conditions occur.

- Keep the battery away from all liquids. Do not immerse the battery in water or let it get wet.
- If water enters the battery, it can cause chemical reactions that can cause fire or explosion.
- Use only batteries supplied by Topcon. Do not use batteries from other sources.
- For battery replacement, go to the official Topcon website for purchase information.
- Topcon is not responsible for accidents or failures caused by batteries that Topcon did not supply.
- Set the device power to OFF before you disconnect the battery.
- Set the device power to OFF before you install or remove the battery. Do not remove or install the battery while the power is ON.
- Do not use the battery in areas with strong static electricity or magnetic fields. This can cause damage to the battery protection circuit and cause device failure.
- The battery contains corrosive liquid. If a leak occurs, stay away from the area. If liquid contacts skin or eyes, rinse with water for a minimum of 15 minutes and get medical help immediately.
- Do not reuse the battery if it has been dropped or hit.
- If the battery falls into water, remove it and put it in a safe, open area. Keep a safe distance until it is dry. Do not reuse a dried battery. Dispose of it according to the instructions in this document.
- If the battery catches fire, use these extinguishing agents in order: water or water mist, sand, fire blanket, dry powder, carbon dioxide extinguisher.

- Do not put the battery in a microwave oven or pressure cooker.
- Do not put the battery on a conductive surface.
- Do not short-circuit the battery terminals with wires or metal objects.
- Do not strike or hit the battery. Do not put heavy objects on the battery or charger.
- If the battery connector is dirty, clean it with a dry cloth. Failure to clean can cause poor contact and charging problems.
- Do not use the battery charger in temperatures greater than 104 °F (40 °C) or less than 68 °F (20 °C).
- Store the battery in temperatures between 72 °F (22 °C) and 86 °F (30 °C).
- You must discharge the battery to less than 80% before it is safe to take it on a flight.
- Keep the battery away from ignition sources when charging or discharging.

## Set power to ON

1. Push the **Power** button and hold it.

**Power button**



2. Release the **Power** button when the LED flashes green.

## Power ON



3. Wait for the Power LED and Data collection status indicator LED to show solid green.

## LEDs solid green



The device is active.

### NOTICE:



The Data collection status indicator LED shows solid red when the device is not active or available memory is < 5%.

## Set power to OFF

1. Push and hold the **Power** button.

### Power button



2. Wait for the Power LED to flash rapidly, then go OFF.  
The device is OFF when the Power LED does not flash.

### Power OFF



## General data collection guidelines

Follow these guidelines to make sure that the device operates correctly during data collection.

- Keep the device stationary during the initialization of the collection process.
- Do not initialize the collection process near strong electromagnetic interference.

- Do not initialize the collection process near moving objects such as traffic or pedestrians.
- Walk at a pace that does not exceed 12.4 mph (20 kmh) during data collection. The best practice is to not be followed during data collection. If it is necessary to be followed, keep a minimum distance of 16.4 ft. (5 m) behind the person with the .
- Do not use the device in extreme weather conditions such as strong wind, rain, or snow.
- Set the device power to OFF before you disconnect the battery.
- There is no maximum time limit for data collection. However, 30 minutes is the recommended maximum time for one collection cycle.

## Data collection types and requirements

Collect from	Data collection method							Real-time point cloud	
	Pure SLAM	GCP	RTK	PPK	Breakpoint continuation scan	RTL+SLAM (pole mode)	Open area collection	Display	Save
<b>App<sup>1</sup></b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Button</b>	Yes	Yes	No	Yes	No	No	Yes (PPK)	No	Yes

## GNSS/RTK data collection

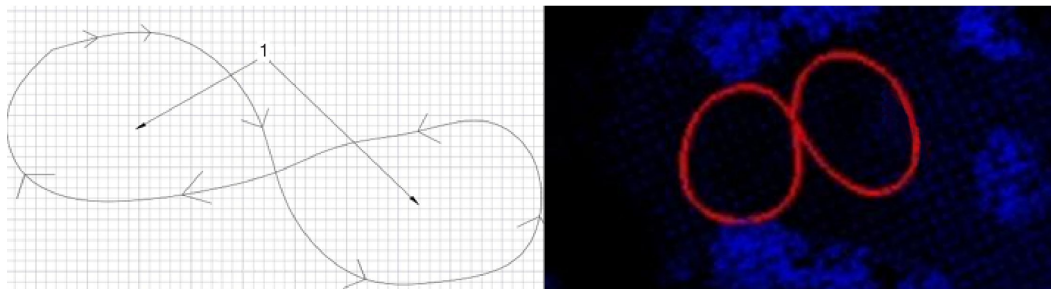
- Use the app when you collect data with RTK.
- Make sure that the RTK connection shows **Fixed** before you start the collection process.
- Start GNSS collection in an area with good satellite visibility.

Topcon recommends that the app shows a minimum of 20 connected satellites.

### 1. Initialize the device.

If you are in an open area, make a figure-8 pattern of two circles with a minimum radius of 6.6 ft. (2 m).

**Figure-8 pattern**



<sup>1</sup> Recommended

- Radius equals 6.6 ft. (2 m)

**NOTE:**

The figure-8 pattern is only necessary in open areas.

2. Start data collection.
3. Make another figure-8 pattern of two circles with a minimum radius of 6.6 ft. (2 m).

**CAUTION:**

If any part of the data collection is in an area without satellite signals, such as inside a building, underground, in a cave, or in a tunnel, the process uses SLAM only. Follow the SLAM collection guidelines.



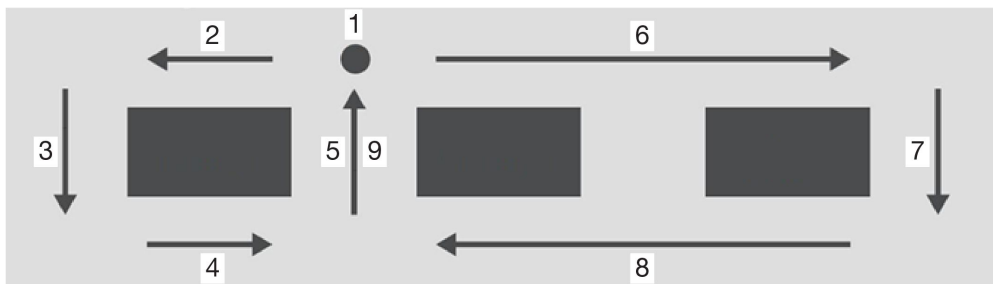
If part of the data collection is indoors, do not go to multiple floors.

A closed loop is necessary for all parts of the data collection without a satellite signal.

## SLAM data collection

1. Initialize the device in an area that has some objects or features.
2. Make a loop as shown in the diagram:
  - a. Start at the first point (1).
  - b. Make a closed loop that follows the path (2) through (5).
  - c. Make the second closed loop that follows the path (6) through (9).

### Data collection paths



**CAUTION:**

Do not go backward or use the same trajectory at any point during data collection.



Avoid overlaps and do not cross the trajectory in a perpendicular direction.

Do not make sudden movements or sharp turns.

# Battery charging

The internal battery is the only power source for the device. Obey safety precautions and complete the step-by-step instructions to charge the battery pack. Connect external AC power to the charge port and make sure that all connections are correct.

## **WARNING:**



Use only the dedicated charger that Topcon supplies to charge the intelligent battery. If you use a charger that Topcon does not supply, it can cause damage, injury, or death. Topcon does not accept responsibility for these results.

## **CAUTION:**



Always put the charger on a surface such as a concrete floor away from all flammable or combustible materials. Always monitor the charging process.

**CAUTION:** Make sure that no moisture is on the USB port before a charge process starts.



**CAUTION:** You must use a grounded outlet or grounded surge protector to charge the battery pack.

1. Make sure that the battery is at a safe temperature before you start the charging process.  
Lidar operations can cause the battery to reach a temperature greater than the safe charging temperature. Wait for the battery to become sufficiently cool before you start the charging process.
2. Connect the supplied battery charger cable to the charge port on the battery.
3. Connect the charger to an available AC outlet until the battery is fully charged.
4. Disconnect the battery charger.

## Battery storage

Always store the battery out of reach of children. Always store the battery in a dry environment in which the temperature is between 72 °F (22 °C) and 86 °F (30 °C).

Never store the battery in direct sunlight, in a hot vehicle, near an ignition source, or near a furnace.

## Battery transportation

Never transport a battery near or in contact with metal objects. Never transport a battery that has damage.

# Regulatory

Information is available about this product's compliance with government regulation for use.

## General cautions and warnings

### Usage restrictions

#### WARNING:

- ⚠ You must never use Topcon products in dangerous environments. You can use Topcon products in rain or snow for a limited period of time.

#### WARNING:

- ⚠ Do not tamper with this Topcon product. Do not let non-factory approved technicians do work on this Topcon product. Do not do the procedures that follow, or the warranty will be voided:
  - Open the Topcon product and change internal components
  - Cause a short circuit.

#### CAUTION:

You must never use this Topcon product when:

- You do not thoroughly understand the Operator's Manual and Quick Reference Guide
- ⚠ • The safety systems are disabled or this Topcon product was changed
- There are unauthorized accessories
- There are no proper safeguards at the job site
- It is contrary to applicable laws, rules, and regulations.

## Electrical safety

### General precautions

1. Read and become familiar with the machine manufacturer's operator's manual, including safety information, before you install or use Topcon components.
2. Use extreme caution on the job site.  
Working around heavy construction equipment can be dangerous.
3. DO NOT attach Topcon brackets, cables, or hose connections while the machine is running.
4. DO NOT let any Topcon components limit the visibility of the operator.
5. Use cable ties to safely install hoses and cables away from possible wear or pinch points.
6. Wear eye protection when welding, cutting, or grinding on the machine.

7. Protect yourself at all times, and wear protective clothing when working on or near hydraulic lines. Hydraulic lines can be under extreme pressure, even when the machine is turned off.

## Rechargeable battery recycling

1. Make sure that batteries or battery packs are intact and show no signs of leakage.

**⚠ DANGER:**  
Never disassemble batteries.

2. Apply protective tape to metal terminals on individual batteries. This prevents short circuits and heat buildup.
3. Put batteries in plastic bags.
4. Comply with all federal, state, and local regulations for packing, labeling, recycling, and disposal of batteries. Refer to the available information in your locale for the proper recycling or disposal of rechargeable batteries.

## Regulatory information and safety warnings

### RF radiation hazard warning

**⚠ CAUTION:** To ensure compliance with FCC and ISED Canada exposure requirements, this device must be installed in a location where the antennas of the device will have a minimum distance of at least 7.87 in. (20 cm) from all persons. Using higher gain antennas and types of antennas not certified for use with this product is not allowed. The device shall not be located with another transmitter.

Installez l'appareil en veillant à conserver une distance d'au moins 20 cm entre les éléments rayonnants et les personnes.

**⚠ CAUTION:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### 5 GHz WiFi usage (indoor/outdoor restrictions)

#### United States (FCC)

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.

For the 5150–5250 MHz band, indoor use only to reduce interference with satellite systems.

Outdoor operation in other 5 GHz bands must comply with FCC requirements, including Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC).

Maintain a minimum distance of 7.87 in. (20 cm) between the antenna and your body during operation.

### **Canada (ISED)**

Operation in the 5150–5250 MHz band is restricted to indoor use only to reduce potential interference to co-channel mobile satellite systems.

High-power radars are primary users of 5250–5350 MHz and 5650–5850 MHz bands and may cause interference or damage to this device.

This device complies with ISED licence-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received.

### **European Union (RED)**

This device meets EU requirements under the Radio Equipment Directive.

For 5 GHz operation, DFS and TPC are mandatory to avoid interference with radar systems.

Follow local regulations regarding indoor/outdoor use; some channels may be restricted outdoors.

### **Australia (ACMA)**

Devices operating in the 5150–5250 MHz band are for indoor use only.

Maximum EIRP must not exceed 125 mW at elevation angles above 30 degrees from the horizon.

## **EU declaration of conformity**

Hereby, Topcon declares compliance with Directive 2014/53/EU for radio equipment type . The full text of the EU declaration of conformity is available at the following internet address: [myTopcon NOW! https://mytopconnow.topconpositioning.com](https://mytopconnow.topconpositioning.com).

English	Topcon hereby declares that SR-S1 is in accordance with requirements and other relevant provisions of Directive 2014/53/EC.
Español [Spanish]	Topcon declara que SR-S1 están de acuerdo con los requisitos y otras disposiciones pertinentes de la Directiva 2014/53/CE.

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Ελληνικά [Greek]	Topcon δια του π αρούσα δηλώνει ότι SR-S1 είναι σύμφ ωνα με τις απ αιτήσεις και άλλες σχετικές διατάξεις της οδηγίας 2014/53/EK.
Français [French]	Topcon déclare par la présente que SR-S1 sont conformes aux exigences et autres dispositions pertinentes de la directive 2014/53/EC.
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Latviski [Latvian]	Topcon ar šo deklarē, ka SR-S1 ir saskaņā ar prasībām un citiem attiecīgiem direktīvas 2014/53/EK noteikumiem.
Lietuvi [Lithuanian]	Topcon pareiškia, kad SR-S1 atitinka Direktyvos 2014/53/EB reikalavimus ir kitas atitinkamas nuostatas.
Nederlands [Dutch]	Topcon verklaart hierbij dat SR-S1 in overeenstemming zijn met de eisen en andere relevante bepalingen van Richtlijn 2014/53/EG.
Malti [Maltese]	Topcon b ' dan tiddikjara li SR-S1 huma skont ir-rekwi žiti u dispożizzjonijiet rilevanti oħra tad-Direttiva 2014/53/KE.
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Slovensko [Slovenian]	Topcon izjavlja, da so SR-S1 v skladu z zahtevami in drugimi ustreznimi določbami Direktive 2014/53/ES.
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## **Safety**

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