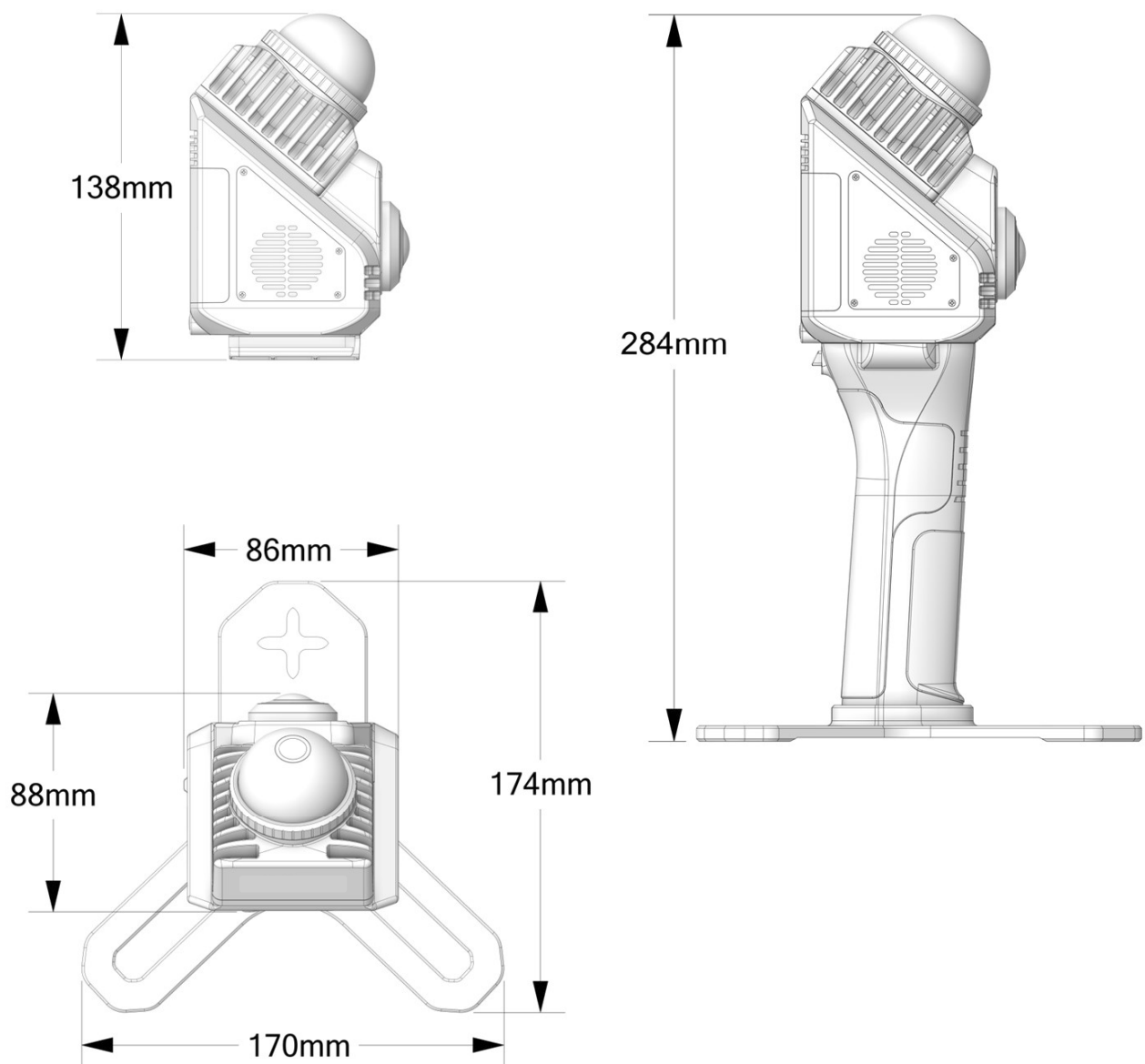
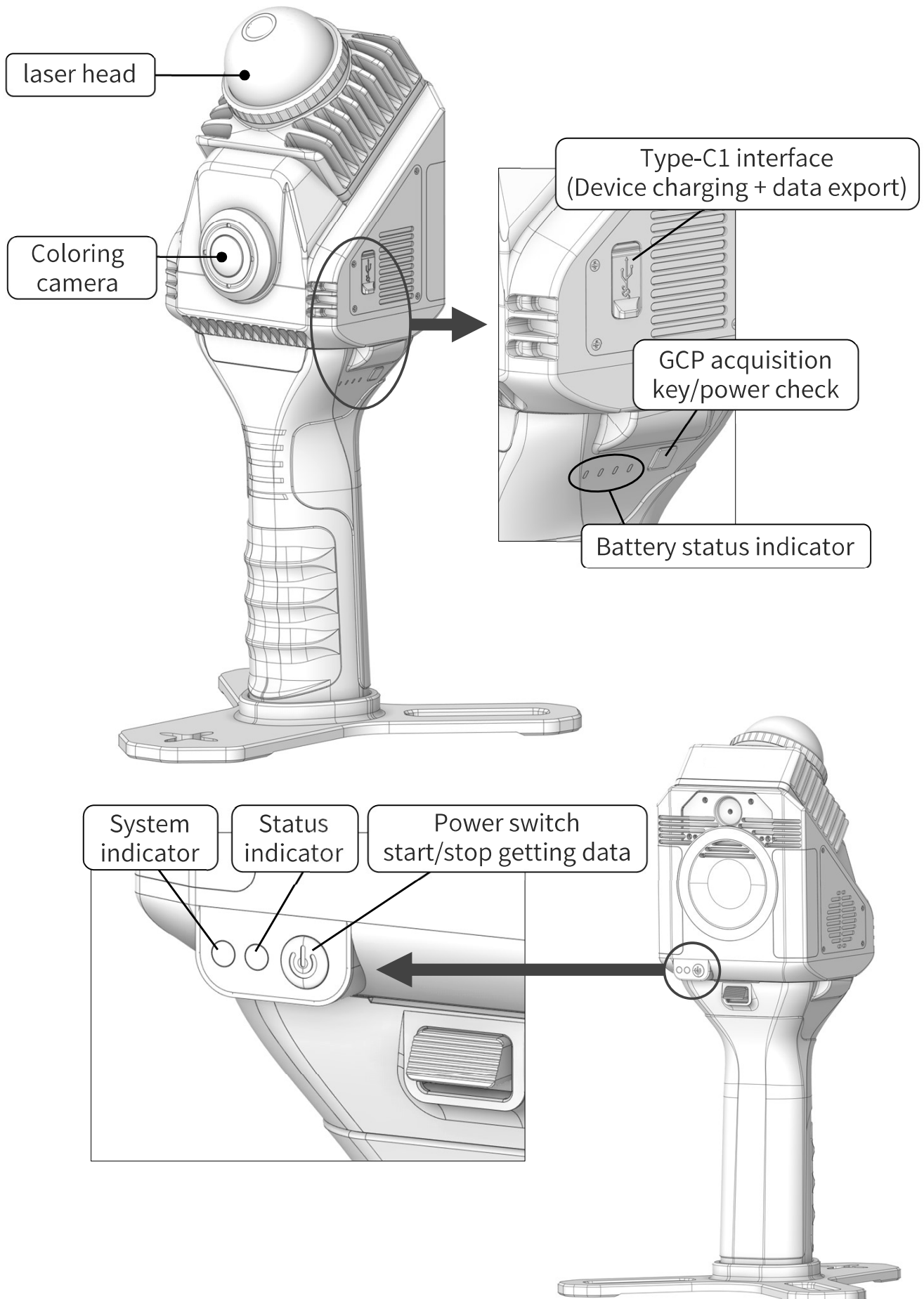


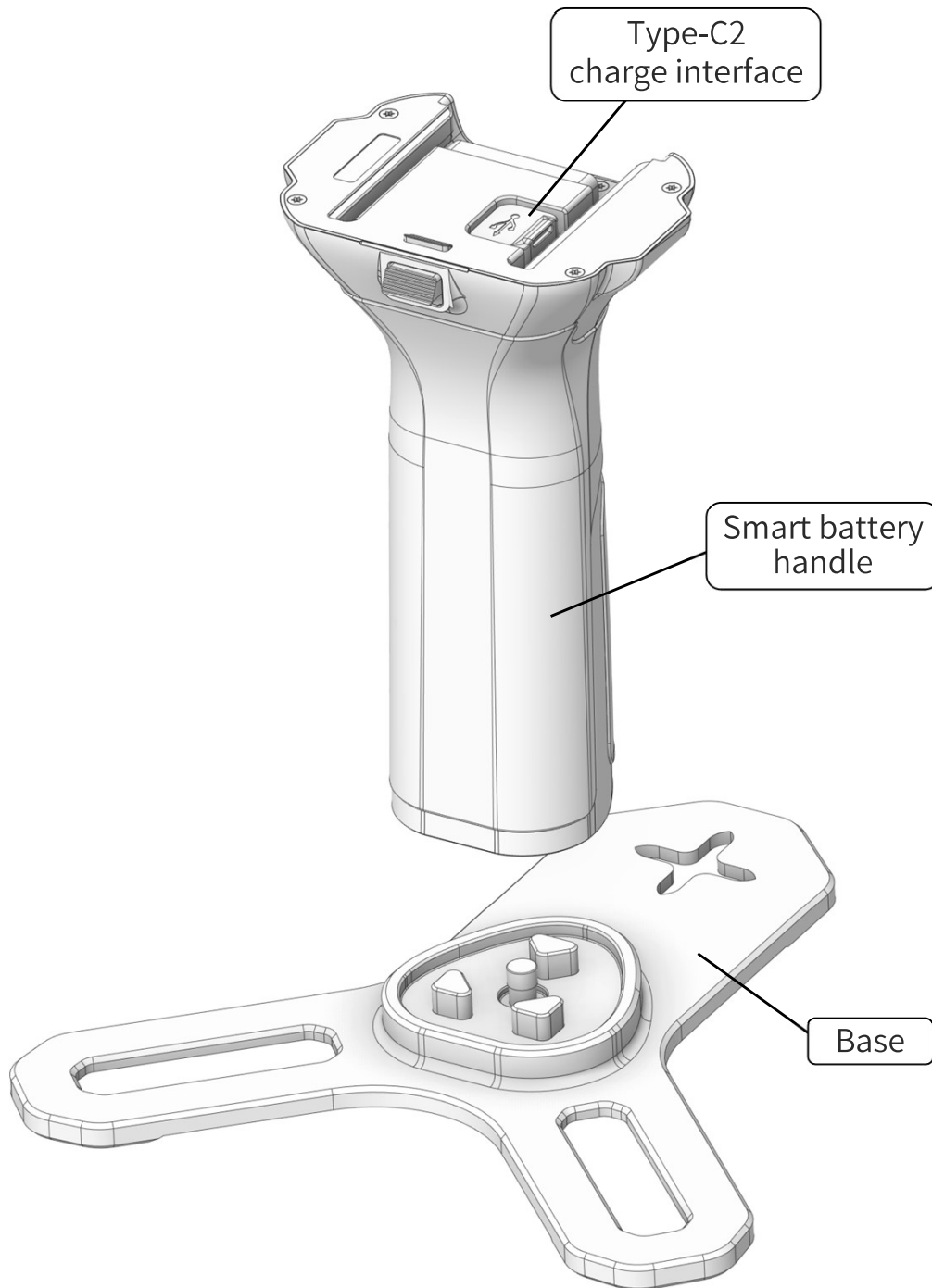
## Product Overview

The SLAM1000 is a high-precision handheld 3D laser scanner. The device features a panoramic laser field of view, an integrated color camera, a built-in high-precision inertial navigation chip, and a high-performance computing unit, enabling real-time high-precision data acquisition. It also includes a MagSafe magnetic ring for convenient phone attachment. The SLAM1000 can be widely used in various scenarios, including confined space mapping, volume measurement, emergency rescue, and real-time navigation.

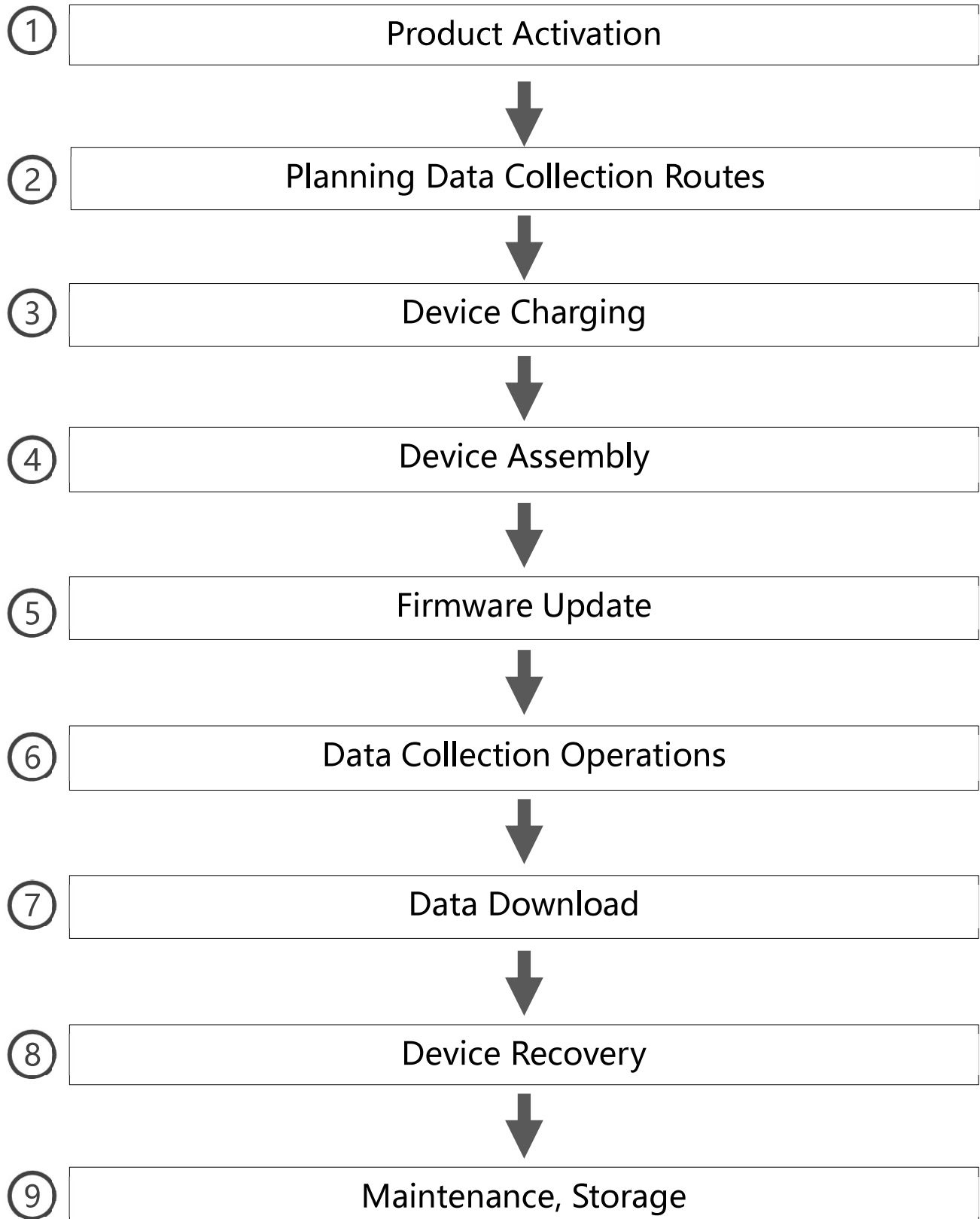
## Part Introduction





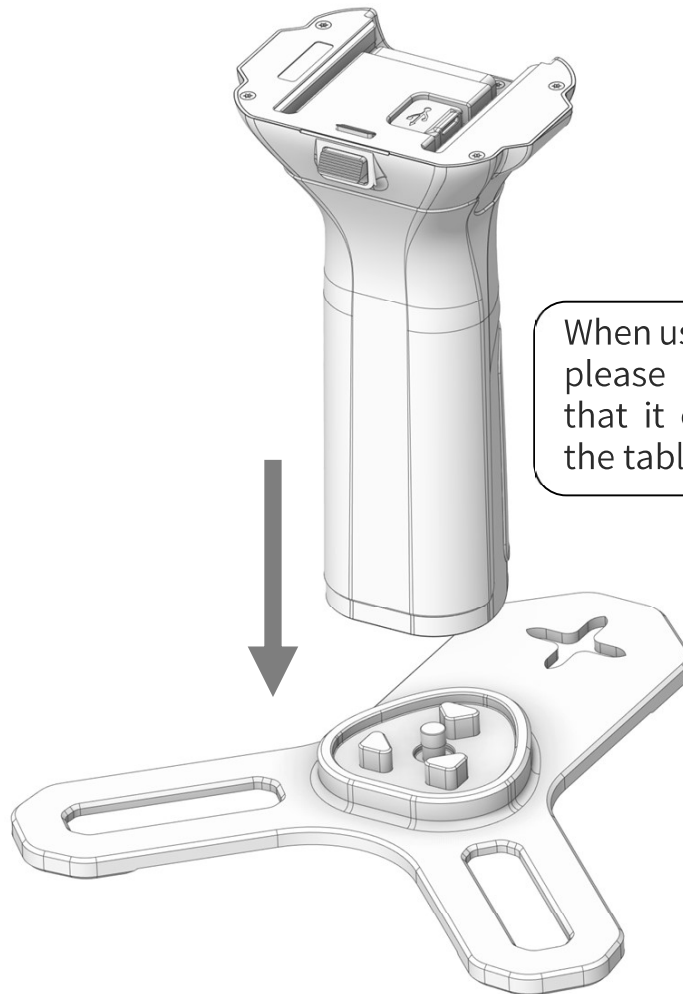


## SLAM1000 Operating Process



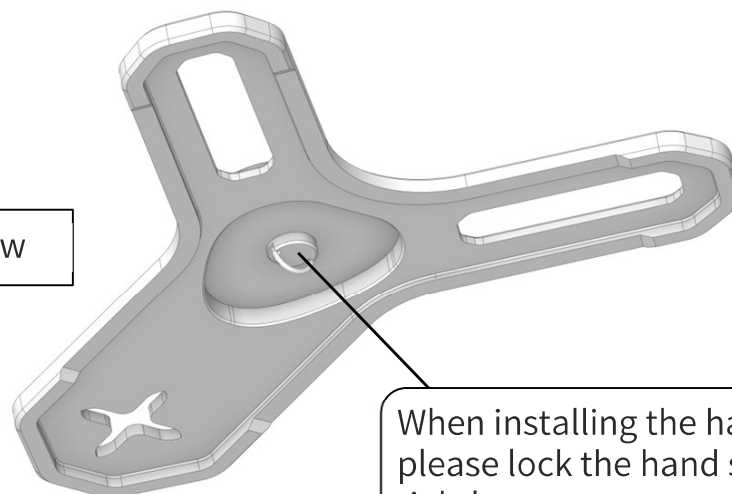
## Device Assembly

# 1

 Mounting Base

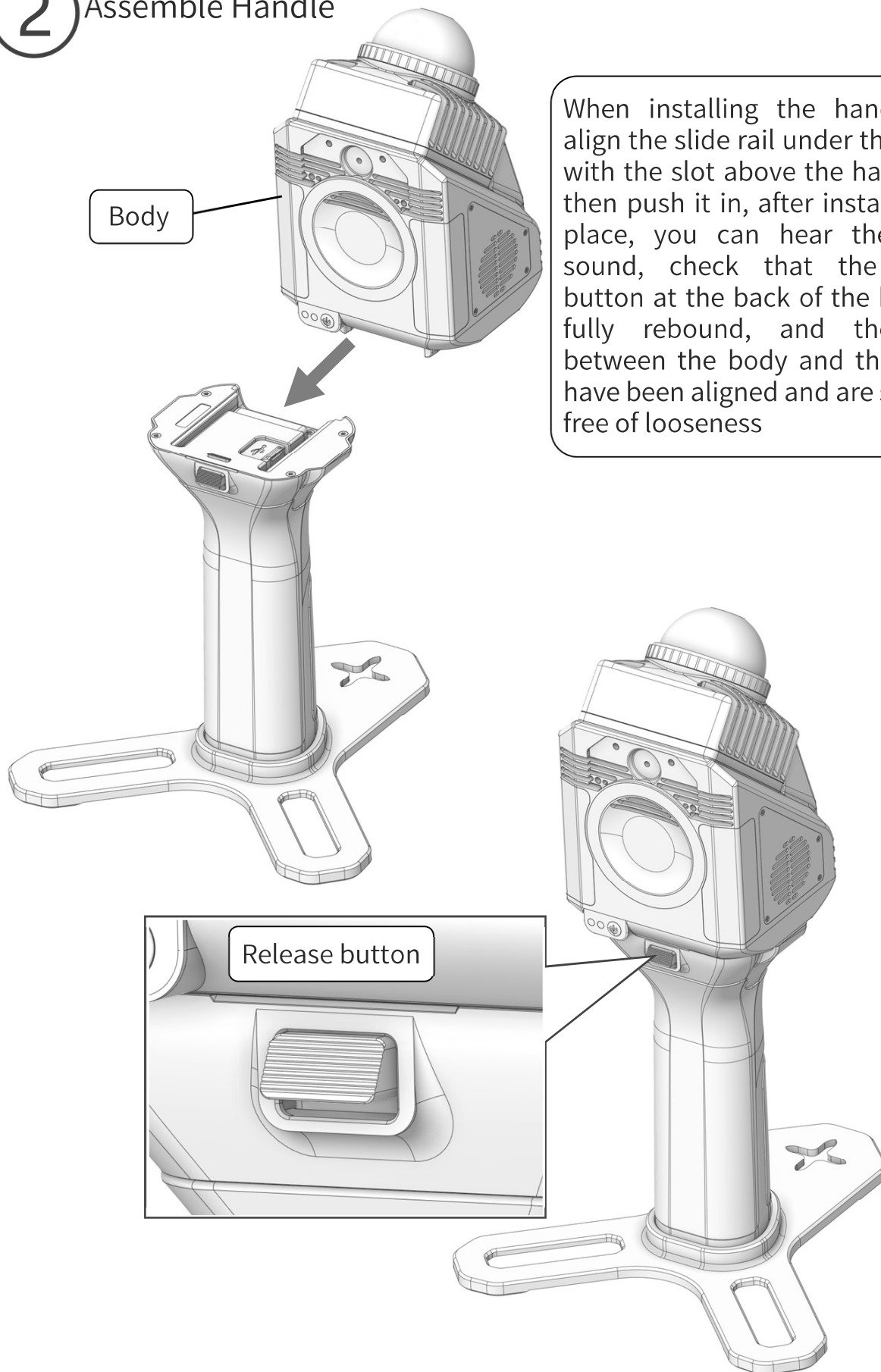
When using the device handheld, please install the base first, so that it can be safely placed on the table or floor

Bottom view



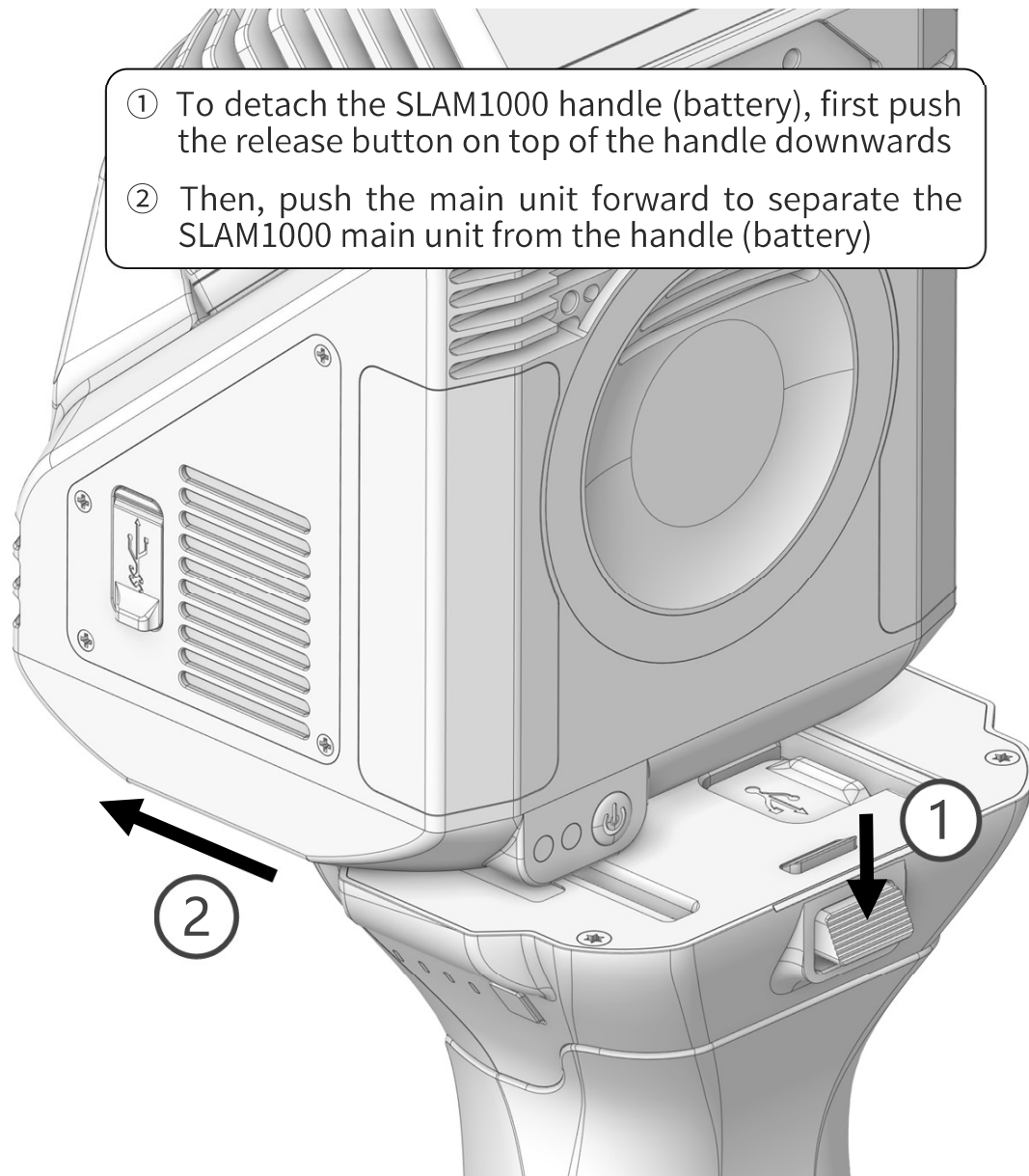
When installing the handle please lock the hand screw tightly

## ② Assemble Handle

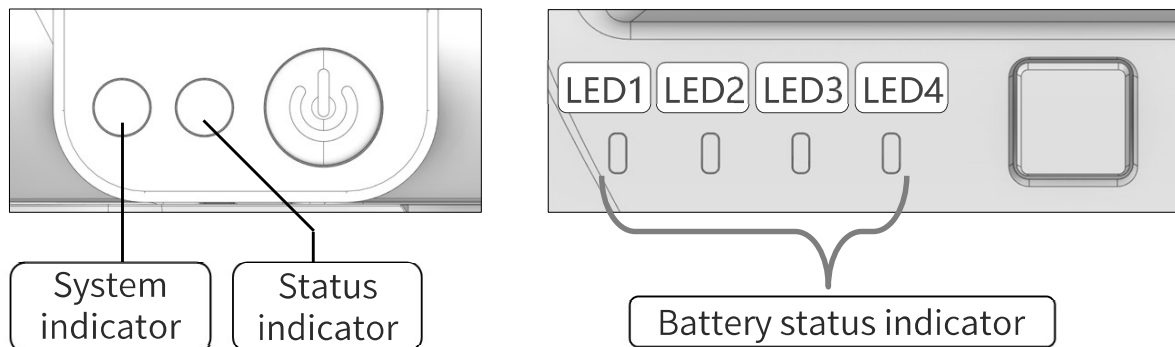


When installing the handle, first align the slide rail under the handle with the slot above the handle and then push it in, after installing it in place, you can hear the "click" sound, check that the release button at the back of the handle is fully rebound, and the joints between the body and the handle have been aligned and are solid and free of looseness

## Equipment Recovery



## Indicator Description



LED	Display	Introduction
Status Indicator	White Light Fast Flashing	MCU Firmware Upgrading
	Red Light On	Device Initializing and Not Ready
	Green Light On	Device Ready
	Green Light Flashing	Data Collecting
	Green Light Fast Flashing	Stop Collection, Saving Data
	Blue Light Flashing to End	Power Off
System Indicator	White Light On	System Firmware Upgrade in Progress
	Red Light Flashing	System Not Ready
	Blue Light Always On	System Ready

Buzzer	Status	Prompt Tone
	Power On	Beep
	Power Off	Beep
	Low Battery	Beep Every 10 Seconds
	Ultra-low Battery	Beep Every Second
	Mark Point Information Collection	Click Information Collection Success
	Start Collection	Beep
	Stop Collection	Beep
	Start Work 1 Minute to Start Mapping	Beep
	Data Storage Complete	Beep



X40GO Battery LED Indicator Status List					
Status		LED1	LED2	LED3	LED4
Discharge Protection Status	Undervoltage	Flash(5Hz)	Slow Flash(1Hz)	Out	Out
	Discharge Low Temperature	Flash(5Hz)	Out	Slow Flash(1Hz)	Out
	Discharge Over Temperature	Flash(5Hz)	Out	Out	Slow Flash(1Hz)
	Discharge Overcurrent	Flash(5Hz)	Slow Flash(1Hz)	Slow Flash(1Hz)	Out
	Discharge Short Circuit	Flash(5Hz)	Slow Flash(1Hz)	Slow Flash(1Hz)	Slow Flash(1Hz)
Charge Protection Status	Overvoltage	Slow Flash(1Hz)	Out	Out	Flash(5Hz)
	Charging Low Temperature	Out	Slow Flash(1Hz)	Out	Flash(5Hz)
	Charging Over Temperature	Out	Out	Slow Flash(1Hz)	Flash(5Hz)
	Charging Overcurrent	Slow Flash(1Hz)	Slow Flash(1Hz)	Out	Flash(5Hz)
Power Indicator	0%~12%	Slow Flash(1Hz)	Out	Out	Out
	13%~24%	Always On	Out	Out	Out
	25%~37%	Always On	Slow Flash(1Hz)	Out	Out
	38%~49%	Always On	Always On	Out	Out
	50%~62%	Always On	Always On	Slow Flash(1Hz)	Out
	63%~74%	Always On	Always On	Always On	Out
	75%~87%	Always On	Always On	Always On	Slow Flash(1Hz)
	88%~100%	Always On	Always On	Always On	Always On

Charging Indicator	0%~24%	LED1->LED4 Streaming Lamp Display			
	25%~49%	Always On	LED2->LED4 Streaming Lamp Display		
	50%~74%	Always On	Always On	LED3->LED4 Streaming Lamp Display	
	>=75%	Always On	Always On	Always On	Slow Flash(1Hz)
	Full	Always On	Always On	Always On	Always On
Upgrade Status		Slow Flash(1Hz)	Slow Flash(1Hz)	Slow Flash(1Hz)	Slow Flash(1Hz)

### Description:

The LED will light up for 6 seconds when you press the key to check the power level, the first 3 seconds will show the power level, the last 3 seconds will show the power level if the battery is normal, otherwise it will show the protection.

## Battery Charging

### Battery Charger



Charge the SLAM1000 battery handle, about 2 hours to full (0% to 100%)

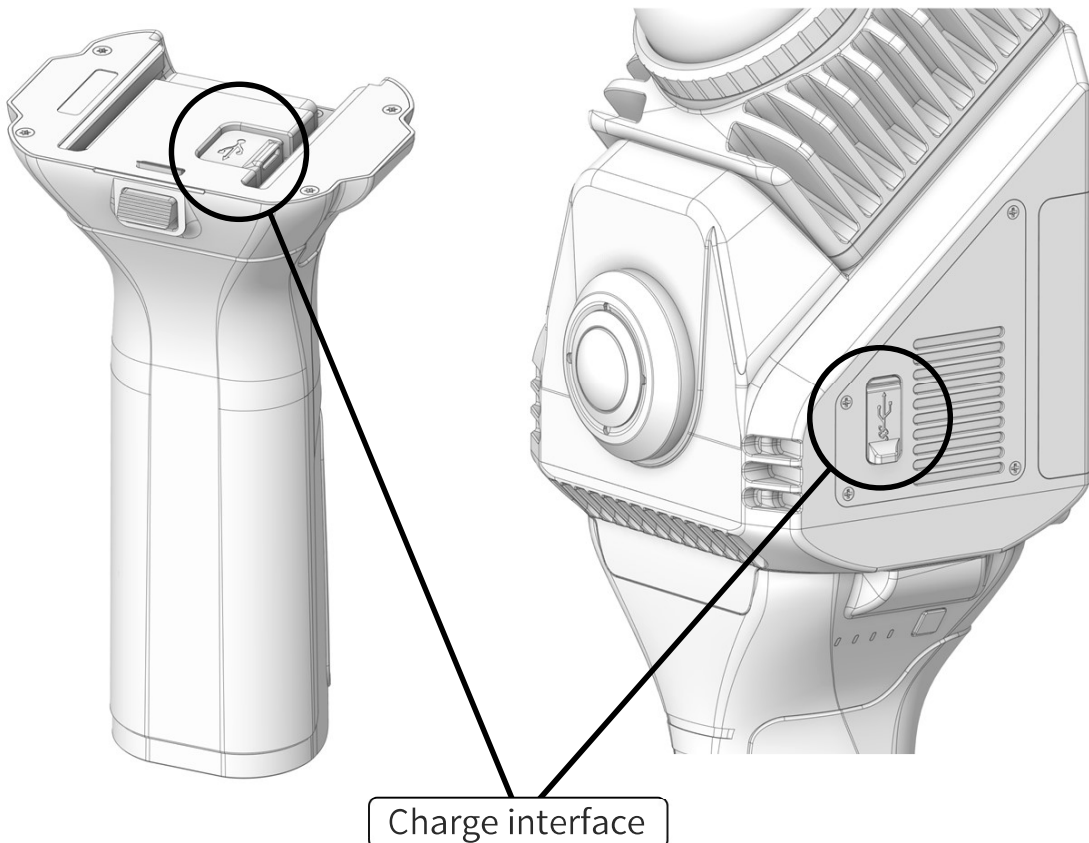
Input: AC 100 V to 240V to 50/60 Hz

Output: Support PD3.0 Protocol 20V 3A

### Charging Method

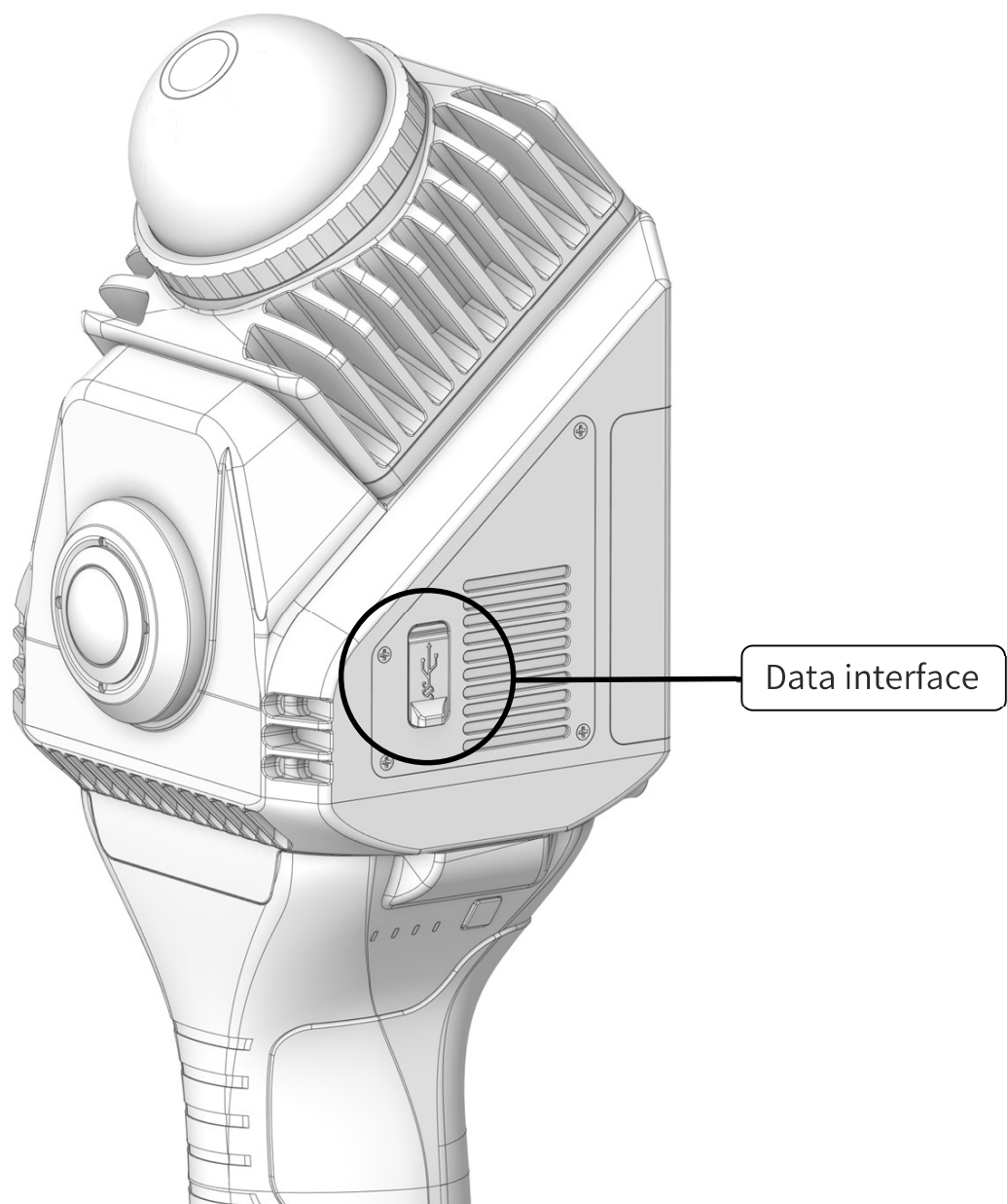
Method 1: Connect the charger to the Type-C2 port of the SLAM1000 smart battery handle for charging.

Method 2: When the smart battery handle is installed on the SLAM1000 body, connect the charger to the Type-C1 port on the body for charging.



## Data Storage

- The SLAM1000 uses an internal SSD with a capacity of 512GB, and data can be transferred via a data cable connected to a PC.
- The SLAM1000 SSD interface (Type-C1) supports data reading in both powered-on and powered-off states.
- It is recommended to keep at least 5% of the SSD disk space free to avoid slow read/write speeds and insufficient capacity due to excessive data.
- When deleting data, it is recommended to use formatting (quick format is acceptable) to optimize the SSD disk's storage speed.



## Device Activation

The scanner must be registered with a Feima account and activated before use. For specific software download addresses and the registration and activation process, please refer to the "SLAM GO" section in the *SLAM1000 Product Manual*.

## Data Collection

### Device Power-On

Press and hold the scan button for 3 seconds to power on the device. After powering on, the device will perform a self-test. Please wait...

- The system indicator light will show a **steady blue light**.
- The status indicator light will show a **steady green light**.

At this point, the device has successfully started and is in standby mode.

### Notice !

- When powering on the device, please hold the scanner steadily, keeping the laser head facing upward.
- You can place the scanner on a stable, flat surface such as a desk or floor.

### Start Data Collection

Before starting data collection, the scanner needs to perform a calibration. The placement requirements are: the distance from the object being measured should be greater than 0.4 meters, but not too far. The calibration phase must last at least 60 seconds before motion-based data collection begins. During calibration, do not hold the scanner in your hand; it must be placed steadily on a safe surface like the floor or a table.

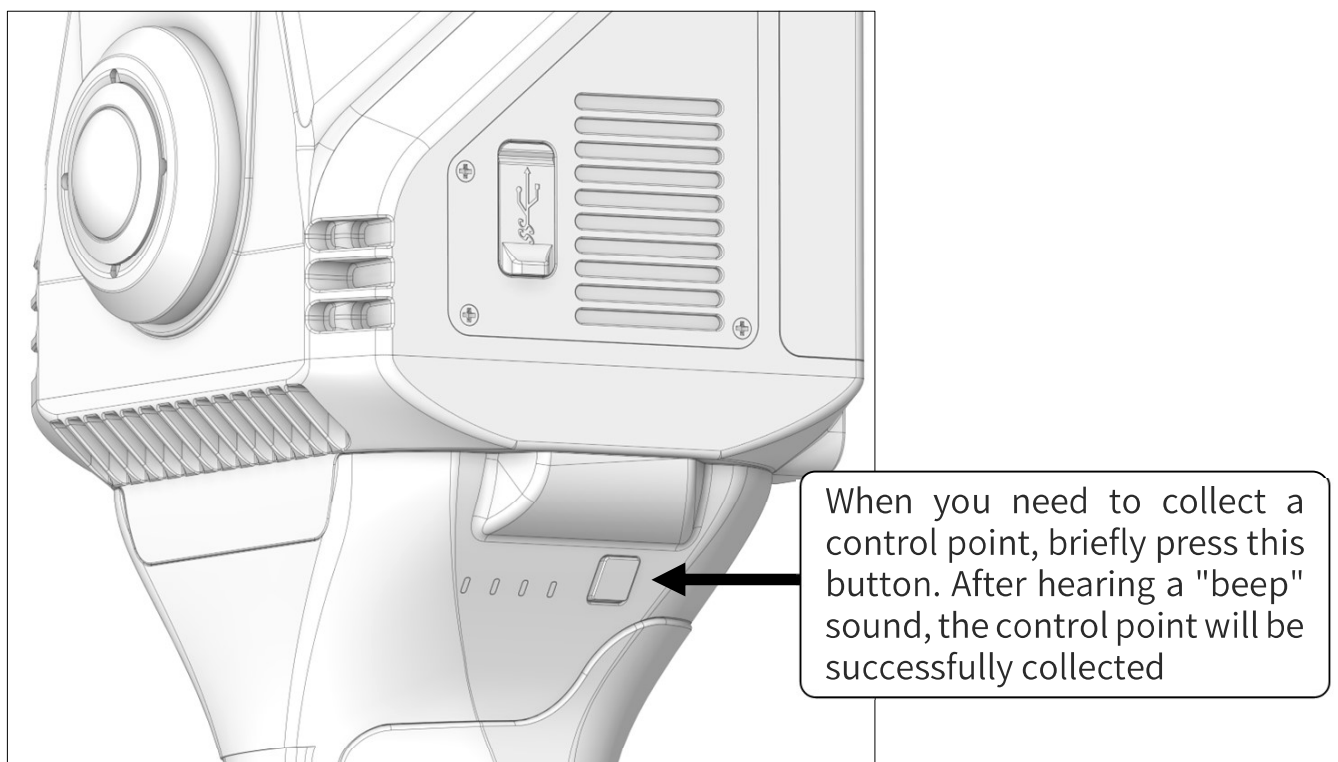
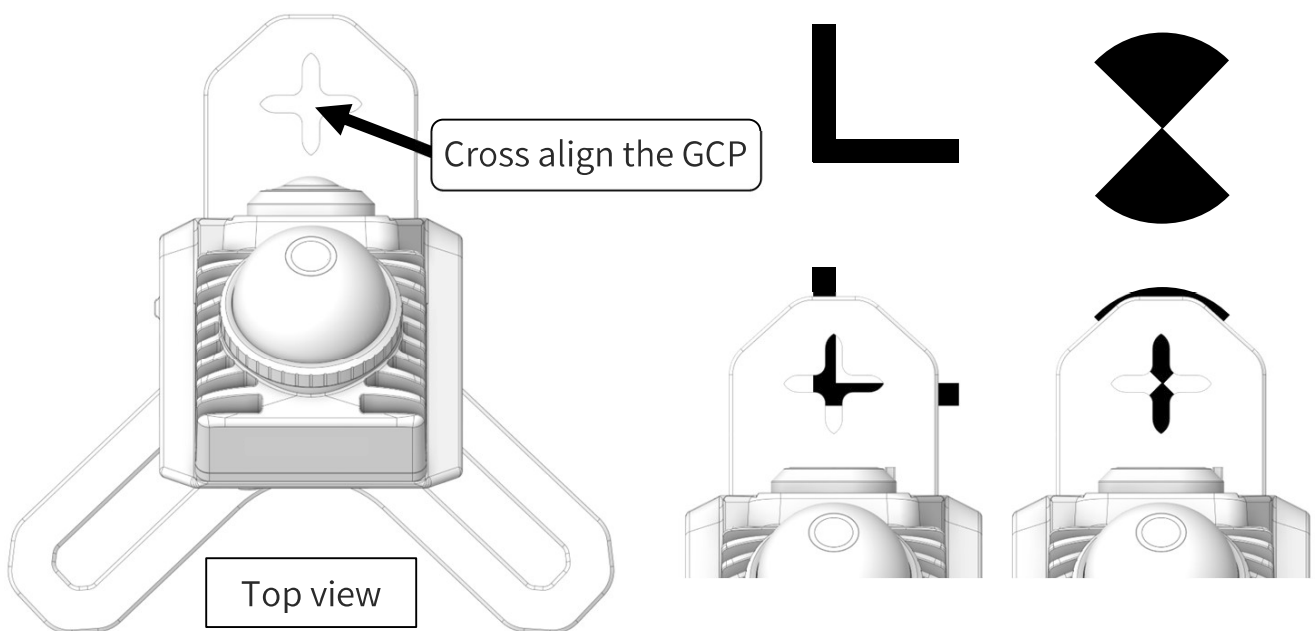
Press the scan button briefly, and the status indicator light will start flashing green rapidly. At this time, the device is performing calibration, which takes 60 seconds (the mobile app will show a countdown). After 60 seconds, the status indicator light will switch to flashing green slowly, and data collection will begin. If the scanner is placed at a slight angle but remains stationary, it still meets the calibration requirement.

**Tips :**

- During data collection, keep the scanner in front of your body and aligned with your walking direction. Please keep the device upright.
- After powering on and during data collection, the device may heat up, and the sound of the cooling fan may be heard. This is a normal phenomenon.

## Control Point Collection

When collecting control points (GCPs), first align the cross center on the device base with the control point. Then, briefly press the control point collection button. After hearing a “beep” sound, the control point will be successfully collected. There is no need to wait during control point collection; once the current point information is collected, you can continue with the subsequent data collection.



## Stop Data Collection

Press the scan button briefly to stop data collection. The status indicator light will return to steady green, indicating the device is in standby mode.

## Power Off the Device

Press and hold the scan button to power off the device. Wait until both the system indicator and status indicator lights are completely off, at which point the device will be powered off.

### Notice !

- Please do not remove the smart battery handle before both the system and status indicator lights are completely off.

## Data Check

After data collection is completed, you can turn off the scanner and connect the SLAM1000 to a PC using a data cable. Locate the folder named “SN\_XXXXX” and copy it to a backup directory. After each data collection session, the system will automatically generate this folder. The numerical suffix at the end of the folder name helps identify the order in which the data was collected.

## Troubleshooting

If there are any issues with the collected data, please compress and submit the folder named “LOG” from the scanner’s storage card to your dealer for analysis.



## FCC Warning

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation of this device in the band 5150-5250MHz is restricted to indoor use only.

## Specific Absorption Rate (SAR) information:

This product meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety

margin designed to assure the safety of all persons regardless of age or health.

## **FCC RF Exposure Information and Statement**

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Model: SLAM1000 (FCC ID: 2A7JA-SLAM1000) has also been tested against this SAR limit. This device was tested for typical body-worn operations 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body.

## **Body-worn Operation**

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user's body, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.



For more detailed product information, please visit the following website:

<http://knowledge.cheesi.cn/>

If you have any questions or suggestions regarding the manual, please feel free to contact us via email at:

[aftersales@feimarobotics.com](mailto:aftersales@feimarobotics.com).



[www.feimarobotics.com](http://www.feimarobotics.com)