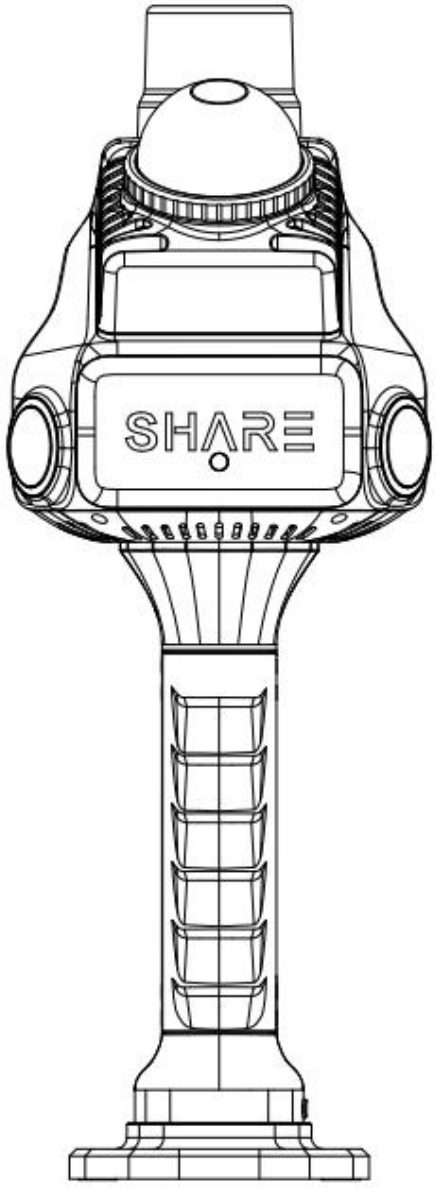
SHARE SLAM S20

User Manual V2.0



SHAREUAV Ltd

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Catalog

1 Product Overview

1.1 Product Introduction

SHARE SLAM S20 is handheld 3D LiDAR scanner designed and developed by SHAREUAV. It integrates high-precision LiDAR, surveying and mapping wide-angle camera, and integrated RTK module. It deeply integrates LiDAR and image, and cooperates with self-developed point cloud algorithm. Single person operation can obtain accurate color point cloud data in a short time, and scanning with a handheld LiDAR device can complete spatial mapping. Whether they are architectural designers, construction workers or surveying professionals, they can quickly obtain real-life 3D information by using SHARE SLAM S20.

1.2 Features

- Supports real-time calculation and post-processing calculation, and adds color to point clouds in real time. The appearance of color point cloud is industry-leading
- The point cloud thickness is within 1cm, and relative accuracy can reach 1cm
- Two one-inch ultra-wide-angle cameras with mechanical shutters, totaling 32 megapixels

  Built-in visual SLAM camera to solve laser SLAM degradation scenarios

  The built-in RTK module does not require external antennas and can be used by turning on the device with just one click;
- The new RTK antenna has stronger anti-interference ability and faster acquisition of fixed
- The new quick-release structure of the battery makes the installation more secure and the working time longer
- Standard “SHARE Capture” software, real-time feedback on data collection status, real-time preview of color point cloud;

- Standard SHARE Pointclouds Studio software can generate color point clouds with one-click and generate point clouds in a variety of common formats;
- Standard magnetic mobile phone holder, the mobile phone is more firmly adsorbed and more convenient to use
- Connect to WiFi with one-click encryption via Bluetooth, making the WiFi connection more stable

1.3 In the Box

Item	LiDAR Scanner	Grip Battery	Charger	Position Plate	Card Reader
QTY	1 PC	1 PC	1 PC	1 PC	1 PC
Item	Wipe Cloth	Certificate of Compliance	User Manual	Data Cable	Phone Holder
QTY	1 PC	1 PC	1 PC	1PC	1PC

1.4 Product Parameter

SHARE SLAM S20		
Basics	Weight	Main Unit: 700 g Grip Battery: 379 g Overall: 1079 g
	Protection Class	IP5X
	Working Temperature	-20℃ to 55℃
	Storage Temperature	-20℃ to 60℃
	WIFI	WIFI 6, Support 2.4G/5G 802.11 a/b/g/n/ac/ax Wi-Fi 2.4G: 2.400 GHz ~ 2.4835 GHz 5G: 5.15 ~ 5.35 GHz、5.47 ~ 5.725 GHz、5.725 ~ 5.85 GHz
	WIFI Distance	20 m

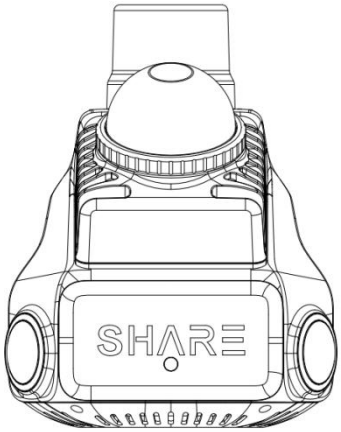
	Bluetooth	Support
	Dimensions	Overall: 110.5 * 140 * 313.3 mm; Main Unit: 110.5 * 114 * 143.1 mm
	Storage Capacity	256G(Support memory expansion)
	Supply Voltage	13.2 V ~ 16.8 V
	Working Power	＜ 24 W
	Interface	TF Card slot / Type-C
	Processor Performance	8-core 64-bit processor, clock speed 2.4 GHz
LiDAR	LiDAR Class	Class 1 / 905 nm
	Point Cloud Number	200,000 points/s
	Point Cloud Frequency	10 Hz (Typical Value)
	Scanning Range	0.1 ~ 40 m @ 10% reflectivity 0.1 ~ 70 m @ 80% reflectivity
	LiDAR FOV	Horizontal 360°; Vertical -7° ~ 52°
	LiDAR Installation	Tilt 25° to the ground
RTK	RTK Accuracy	Horizontal 0.8 cm + 1 ppm； Vertical 1.5 cm + 1 ppm
	Supported Regions	China / Overseas
	Support Satellite	BDS B11, B21, B31, B1C, B2a, B2b GPS L1C/A, L1C, L2C, L2P(Y), L5 GLONASS G1, G2, G3 Galileo E1, E5a, E5b, E6 QZSS LIC/A, L1C, L2C, L5 NavIC L5 SBAS LIC/A
Camera	Sensor Size	13.13 * 8.76 mm; 1 inch
	Pixel Size	2.4 μm
	Image Size	3504 * 4672 px
	Effective Pixels	Single lens 16 million
	Shutter Type	Mechanical shutter; Electronic shutter
	Aperture	Fixed F2.8
	Focal Length	3.5 mm
	Lens Number	2

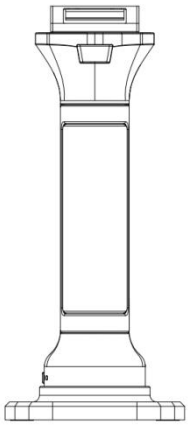
	Lens FOV	H: 140° ; V: 200°
	Image Format	JPG
V-SLAM Camera	Focal Length	1.68 mm
	Image Pixel	1280 * 800
	Effective Pixels	1 million
	Frame Rate	30 HZ
Battery	Battery Capacity	45.36 wh (3150 mAh)
	Supply Voltage	14.8 V ~ 16.8 V
	Working Time	150 min
	Charging Port	Type-C
	Charging Power	PD 30 W
	Charging Time	120 min
Data& Software	Point Cloud Thickness	≤ 1 cm
	Relative Accuracy	≤ 1 cm
	Absolute Accuracy	≤ 5 cm

2 Installation

2.1 Structure Introduction

The SHARE SLAM S20 device is divided into two parts, scanning module and the grip (contains a battery and position plate). The grip battery provides power and supports the scanning module; the scanning module includes LiDAR, lens, RTK module, storage module, etc.



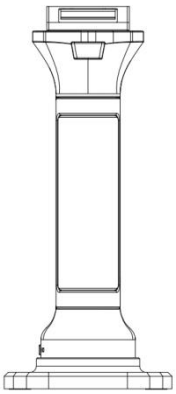


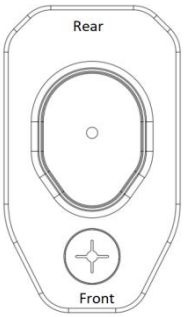
2.2 Installation

2.2.1 Install Position Plate

First, install the grip battery and the position plate together. Align the direction of the grip battery buttons with the rear end of the positioning plate. Align the screw holes at the bottom of the grip with the 1/4 foot screws at the bottom of the positioning plate. Turn the screws clockwise until they are tightened. Shake slightly to confirm that the grip and position plate are secure.

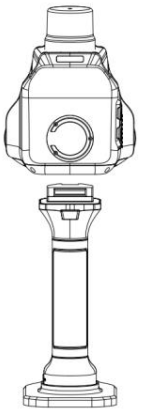
In order to facilitate users to measure control points, an acrylic cross transparent hole is set at the front end of the positioning plate.





2.2.2 Install Scanner Module

Align power interface on the top of the grip battery with the power interface on the bottom of the scanner, with the magnetic ring of the scanner facing user. Gently press down on the scanner and insert it directly. A click sound indicates installation is complete. The battery grip's unlock button will eject completely once installation is complete.



2.3 Disassembly

2.3.1 Main Unit Disassembly

There is a button above the grip battery. Press and hold the button while pulling out the scanner module. At this time, be careful not to use excessive force to avoid bumping the device.

2.3.2 Positioning Plate Disassembly

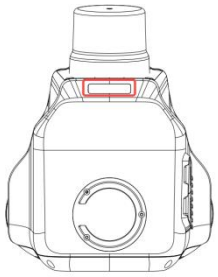
First, make sure the grip battery and scanner have been disassembled, then pull up the 1/4-inch screw pull ring at the bottom of the positioning plate and rotate it counterclockwise until the positioning plate and grip battery can be easily separated. This completes the disassembly.

2.4 Charge

When charging the device, disassemble the scanner module from grip battery. The grip battery and position plate do not need to be disassembled. Take out the charging device provided in the box and insert it into the TYPE-C charging port at the bottom of the grip. Wait until the power indicator lights light up one by one, which indicates that the grip battery is charging.

3 Scanner Operation

When starting the scan, use the SHARE Capture App to control the device. Through this app, user can control the device to start scanning, end scanning, manage data and do other operations. There is an indicator light under the RTK antenna of the scanner, which can be used to check the working status. The color and corresponding status of the indicator light are as shown in the table below.



Device Status	Display
POST	chaser lights
Booting	rapid blue flash
Boot Completed	solid blue light
Firmware Upgrading	solid yellow light
Data Saving	slow yellow flash
Shutting Down	rapid yellow flash
Device Abnormality	solid red light
Starting Operation	rapid green flash

During operation, the light on the left indicate the working status of the device, and the light on the right indicate the RTK status.

Device Status	Left	Right
Scanning	slow green flash	depends on RTK status display
RTK is not used (RTK function is turned off or no GPS signal)	–	slow blue flash
RTK has no signal (GPS signal exists, but no RTK or RTCM. The base station may not be configured properly)	–	slow red flash
RTK single &RTK floating (antenna interfered)	–	slow yellow flash
RTK Fixed (normal)	–	slow green flash
RTK Abnormality	–	solid red light

3.1 Power On

Find the battery button on the bottom of the device's grip battery. Short press and then long press the battery button to turn on the device, the battery indicator light will light up. When the battery indicator light stays on, it means that SHARE SLAM S20 is power on. Different numbers of lights on indicate different levels of power.

Light Number	Power
Red	15%
1	15%-25%
2	25%-50%
3	50%-75%
4	75%-100%

User can short press grip battery button to see the number of four indicator lights on and check the current battery level of the grip battery.

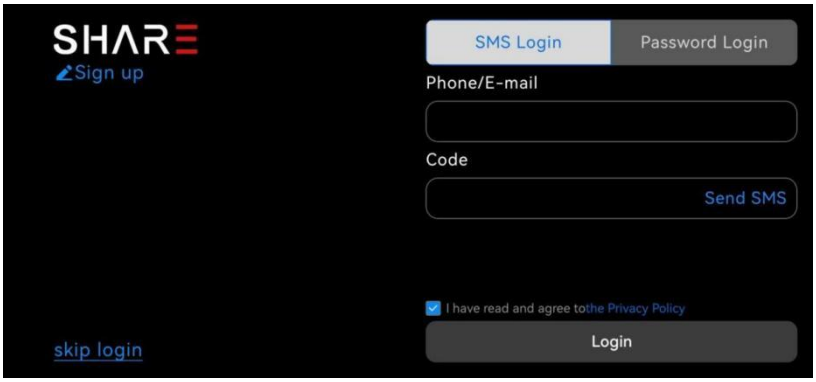
3.2 Device Starting Up

After turning on SHARE SLAM S20, wait for about a minute for the device to start up in order to prepare for subsequent scanning. SHARE SLAM S20 vibrates slightly and the device indicator light is always on indicating that the device has been successfully started.

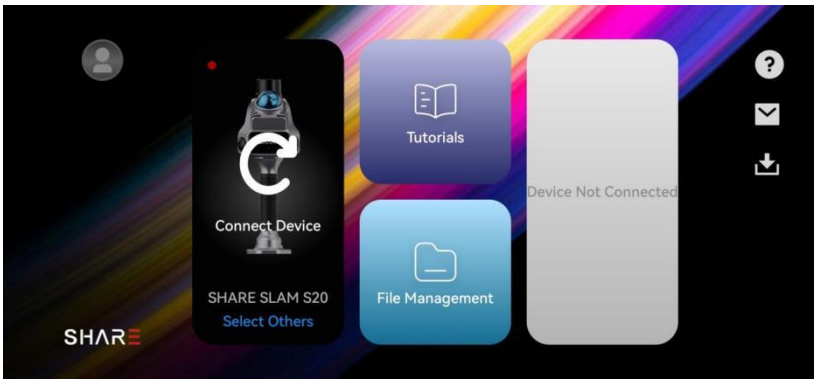
3.3 Device Connect Mobile APP

3.3.1 First Time Connecting To the APP

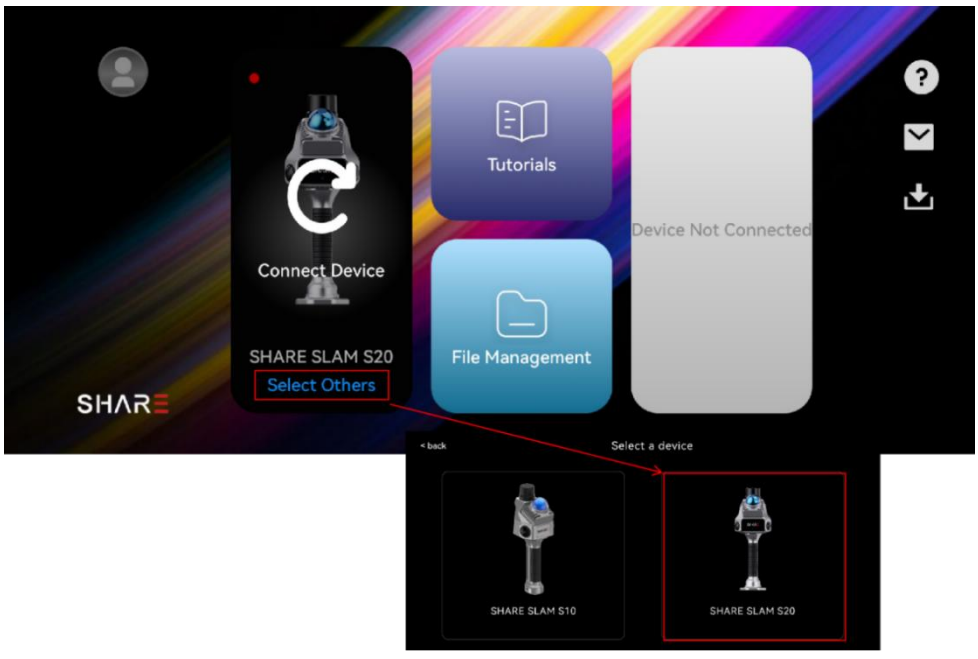
User can download the “SHARE Capture” installation package from the SHAREUAV official website. Please register an account and log in for the first time use. (Click "Sign up" for the first time and register an account using email address)



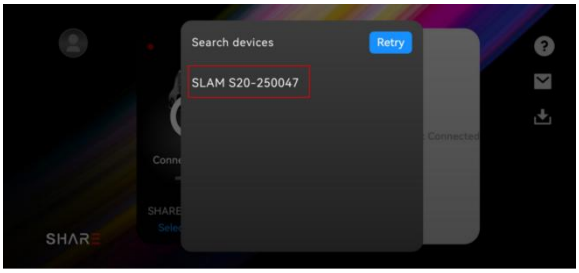
In the software interface, the SAHRE SLAM S20 loading status is visible.

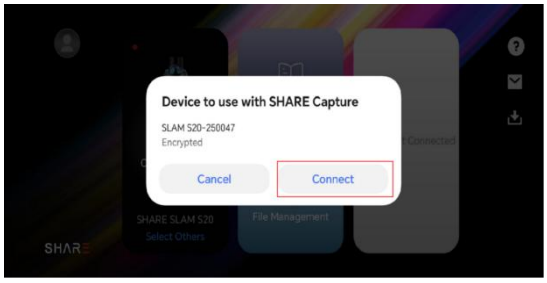


Turn on mobile's Bluetooth first. When connecting device for the first time, click the "Select Others" button and select SHARE SLAM S20 in the pop-up connection device selection.

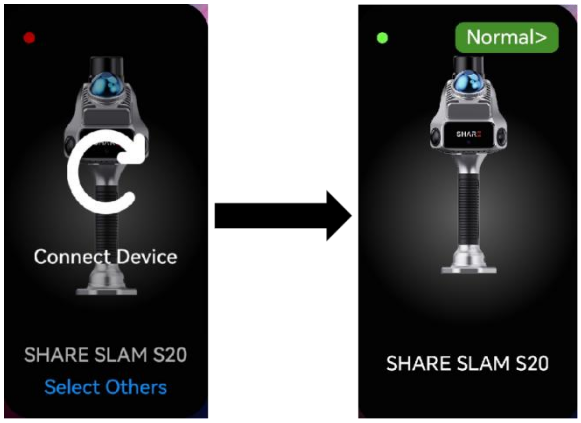


Select the network name **"SLAM S20-xxxxxx"** to connect the device.When the following prompt appears, showing SN and "Encrypted", click **"Connect"**





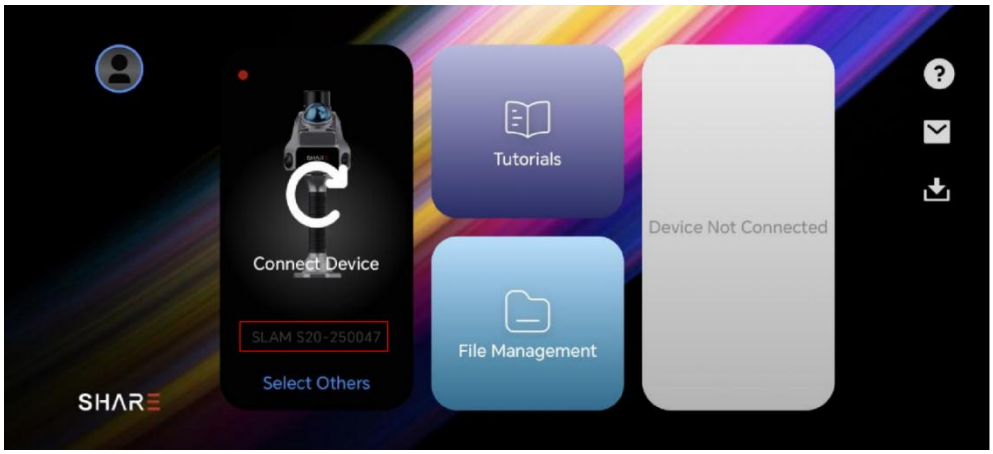
When the red dot in the upper left corner of the phone screen turns green and there is no loading icon, it means that SHARE SLAM S20 is successfully connected to user's phone.



3.3.2 Device Repeatedly Connects to APP

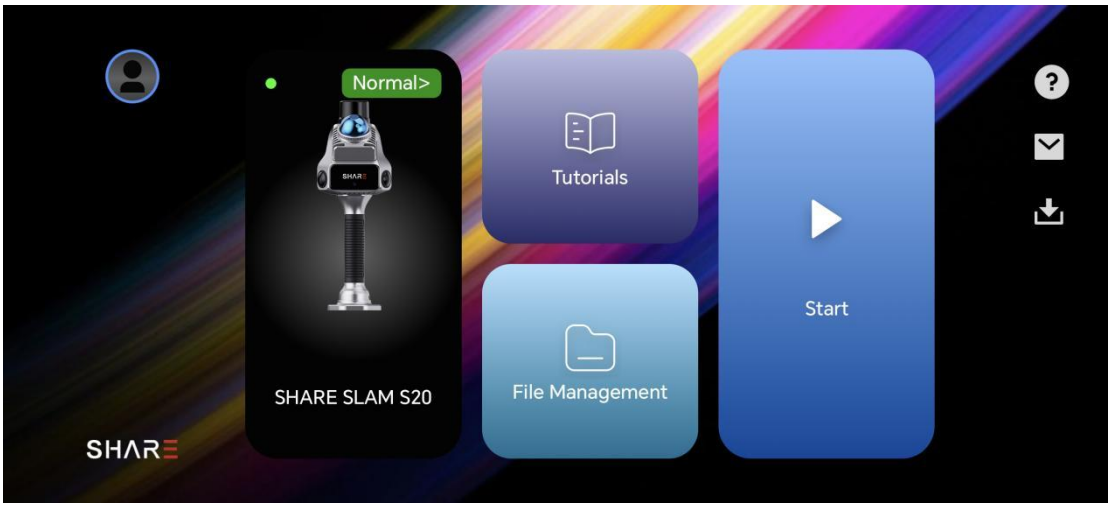
After the device is connected to the app for the first time, the app will record the device's WIFI information. When the device needs to connect to the app next time, just click **"Connect Device"** and the app will automatically connect to the device with SN of the last time.

Note: The device that can be repeatedly connected can only be the device that was disconnected last time.(As shown below, user can check the SN under the "Loading" icon in the app.)

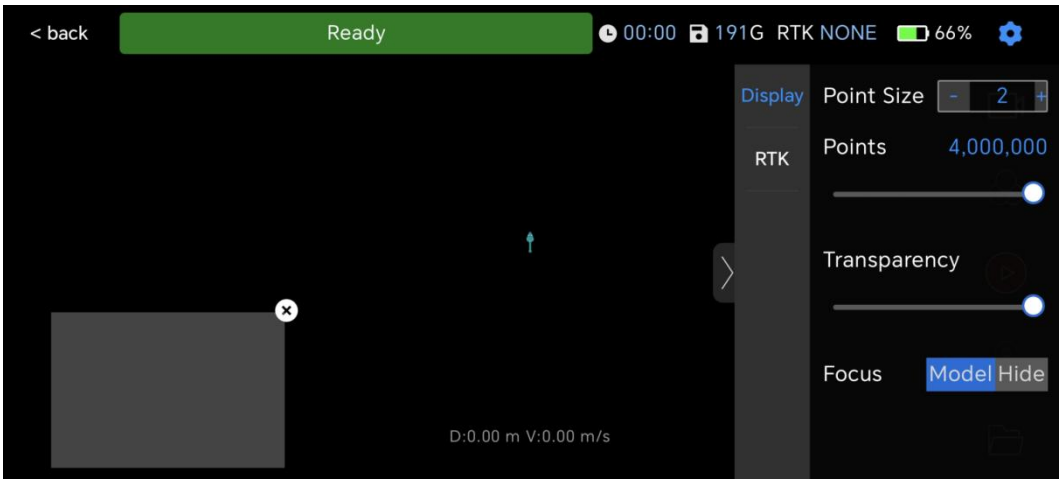


3.4 Start Scanning

After the device is connected, click **"Start "** to enter the scanning interface. Users can set relevant parameters according to their own needs before starting scanning.



3.5 Parameter Setting



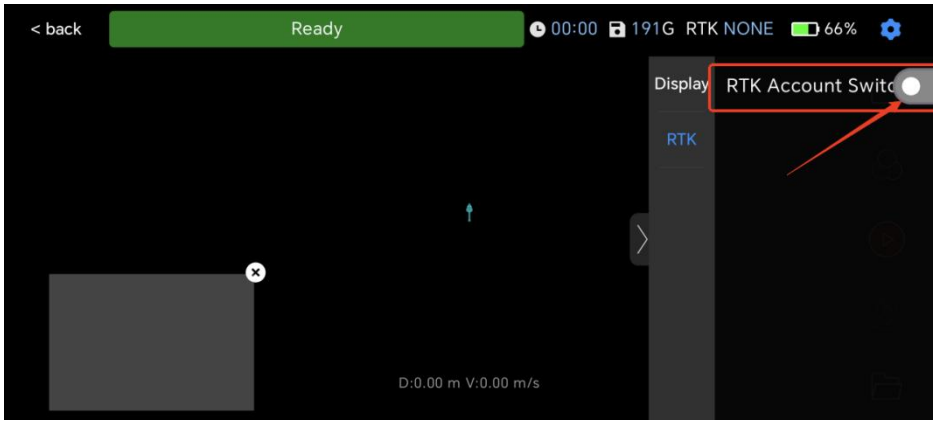
Click the "" settings button in the upper right corner of the APP interface to set point cloud display and RTK.

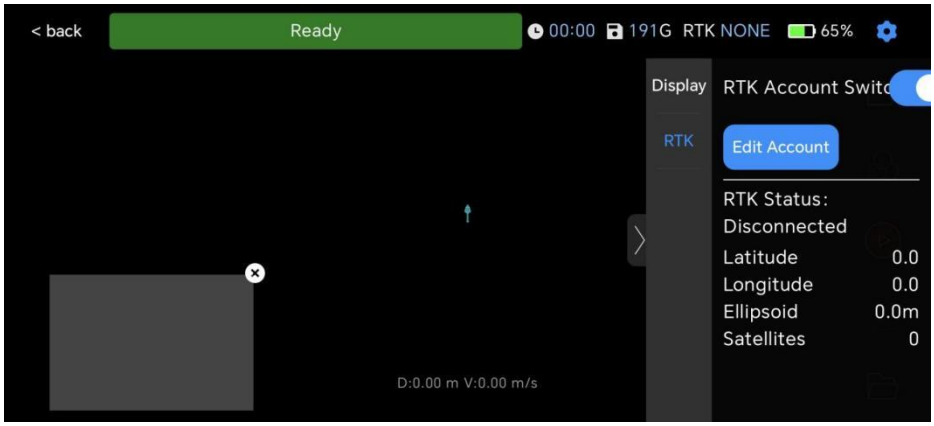
Display	Point Size	Range 1-10
	Point Number	The maximum value can be set to 4 million
	Focus	Users can switch handheld device Model or Hide, Can display the current device location
	Transparency	0-100 Transparency
RTK	RTK Switch	Control RTK switch

3.5.1 RTK Setting

In RTK settings, turn on the "RTK Account Switch" button. When it turns blue, user can set the account.(When RTK is off, the button is gray.)

Click “Edit Account” to start setting.

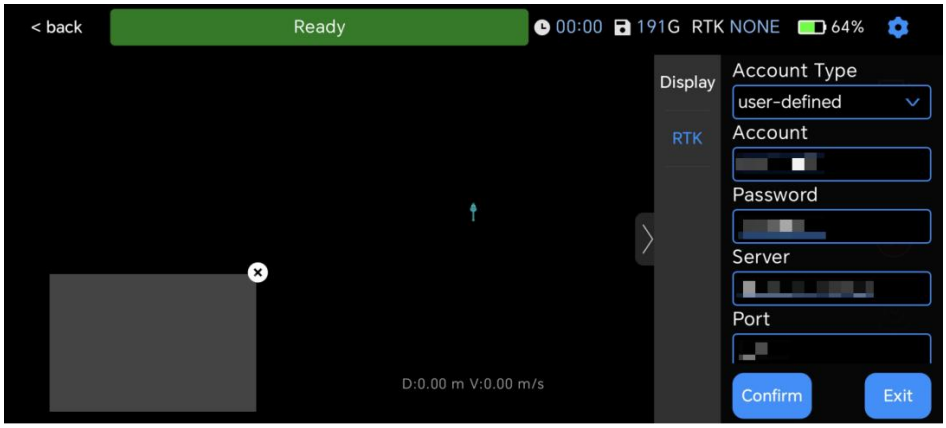




The default account type is "User-defined". After setting, click “Confirm” to save the account.

Next time user set up the RTK account, user don't need to edit the content, just click

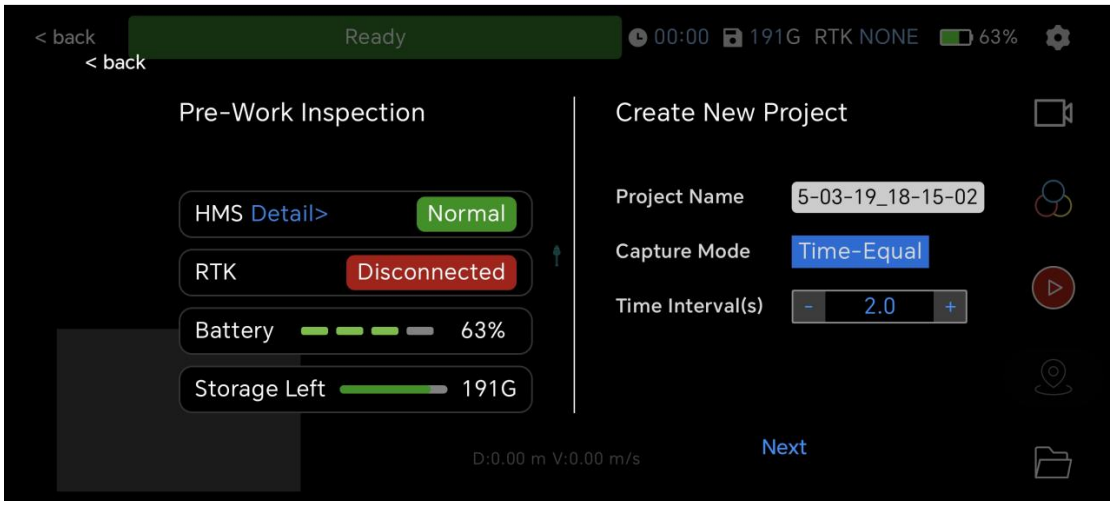
"**Confirm**" to connect to RTK.



3.6 New Project

When the device status shows "Ready", user can click the "Start" button on the right to start the project.

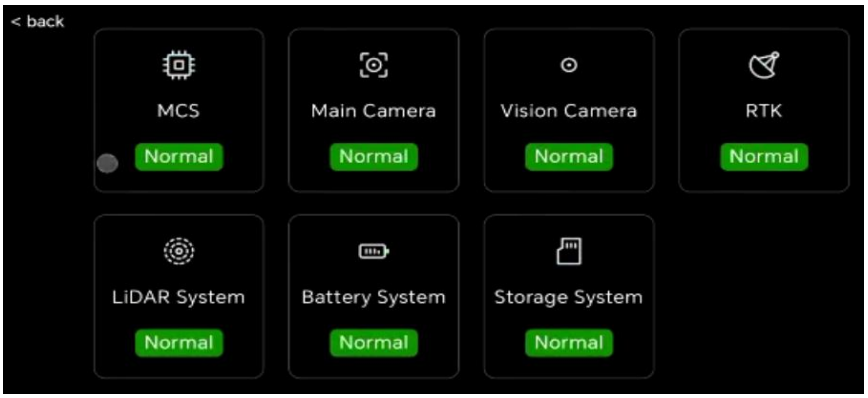
A pop-up window will appear. On the left side of the pop-up window is "Pre-Work Inspection", which includes HMS(Health Management System), RTK status, battery status, and storage left. On the right side of the pop-up window is "Create New Project". Before starting the operation, user can set the project name and the time interval. Click "Next" and the device will start working.



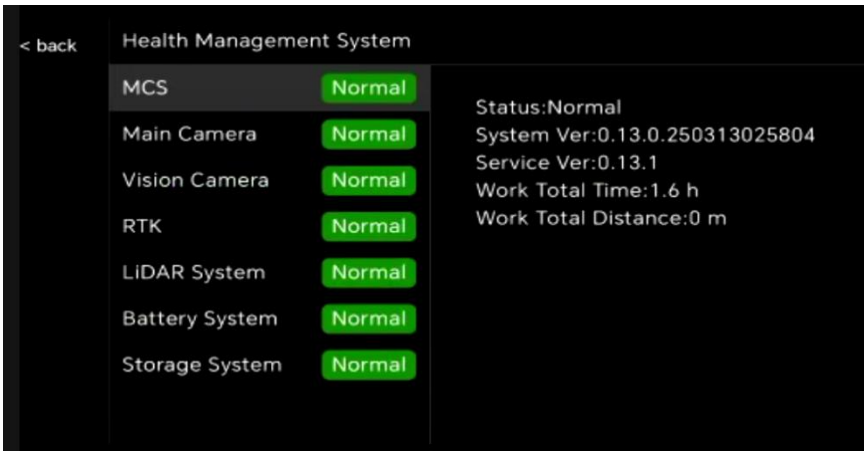
3.6.1 HMS(Health Management System)

Before creating a new project, user can view the details of the HMS. Click on the "Detail" to see the status of each part, including the MCS (main control system), Main Camera, Vision

Camera, RTK, LiDAR System, Battery System, and Storage System.

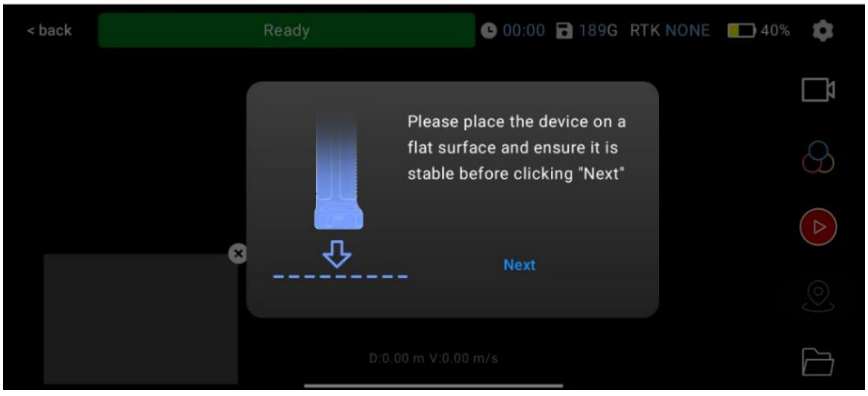


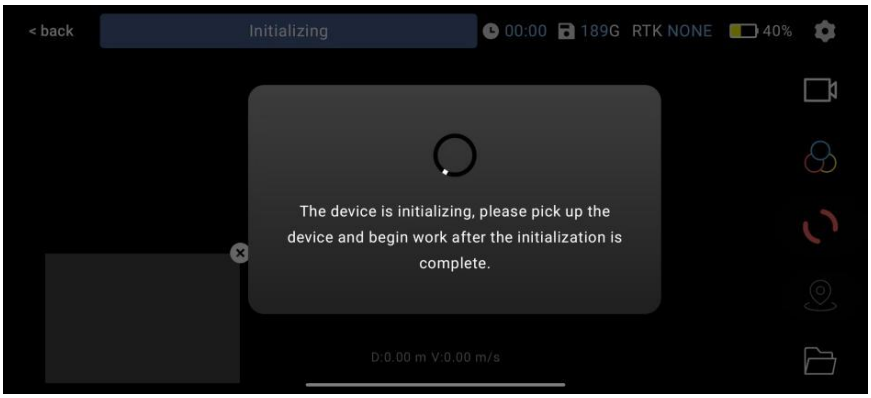
Click the "MCS" to view it, and the following interface will pop up. The left side shows each module and its corresponding status, and the right side shows the relevant information of the corresponding module. If user switch to other modules on this page, the information on the right side will also be updated accordingly.



3.6.2 Device Initialization

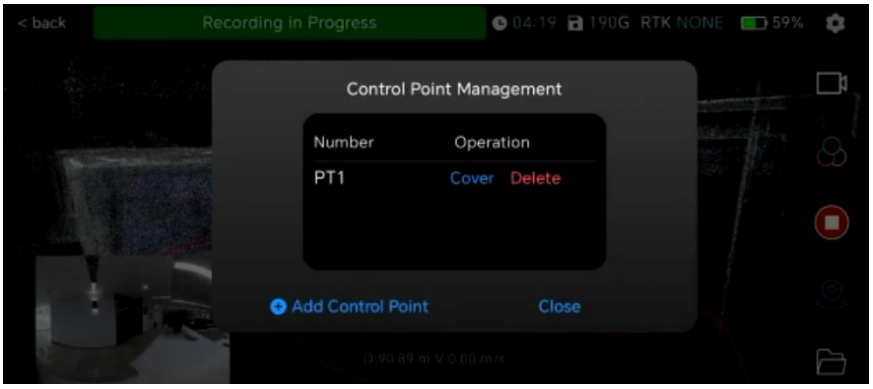
Before starting the operation, please follow the prompts of SHARE Capture and place the device on a level surface until the prompt disappears.



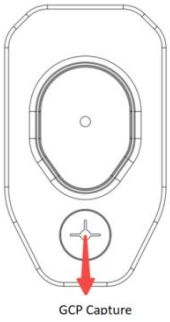


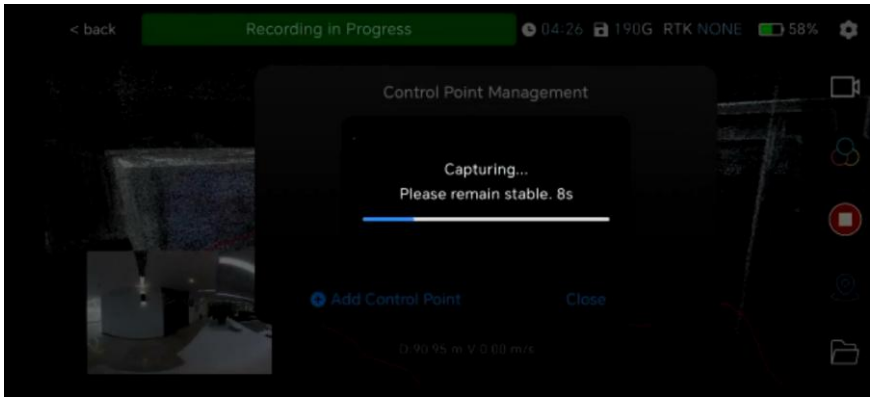
3.7 Control Point Collection

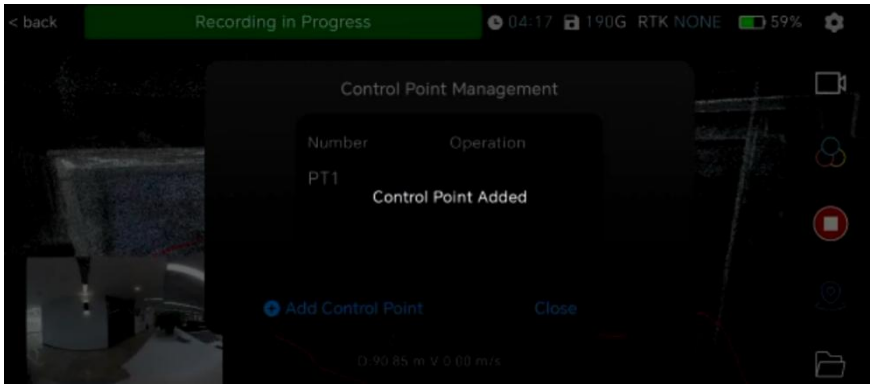
When user needs to place control points, user can click  button on the right side of the interface to add or delete control points. After the control points participate in the point cloud processing, the point cloud results can be converted into the coordinate system of the control points.



When collecting control points, user needs to align the center of the acrylic plate of the positioning plate with the control point position, and then click “Add Control Point”. Keep the device stable for about 10 seconds to complete the collection. After the collection is completed, “Control Point Added” will be displayed and the next control point can be collected in the same way.

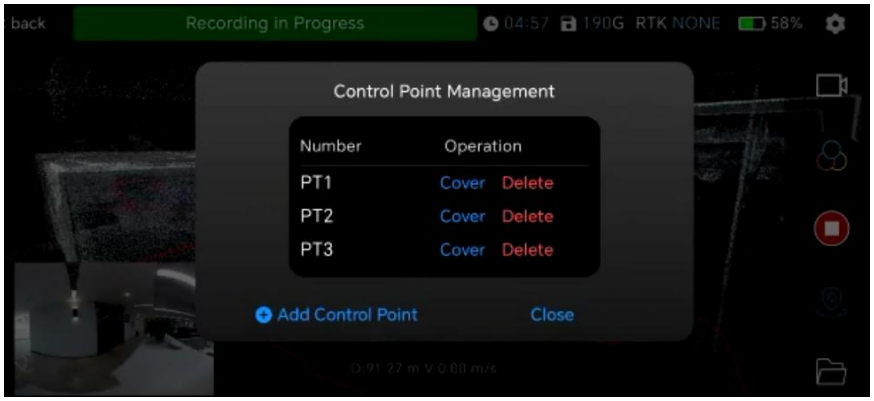






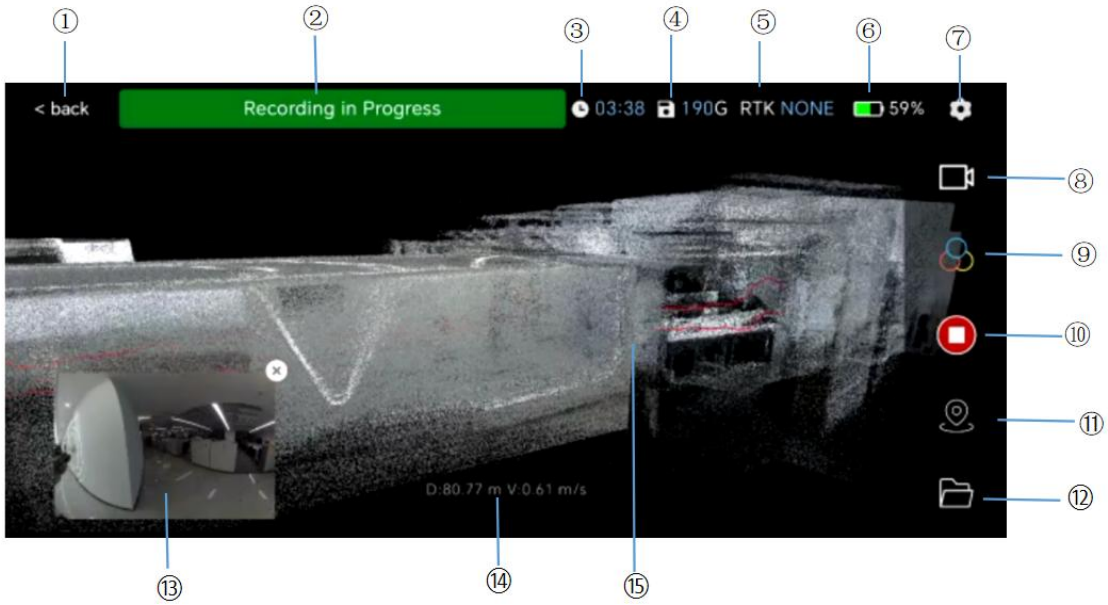
For the collected control points, users can overwrite or delete them according to their needs.

Click "Close" to exit the control point interface.



3.8 Data Collection

When the device status shows "Ready", the scanning operation can be started. The APP displays the reconstructed three-dimensional space point cloud information and trajectory in real time, and user can manually view the spatial three-dimensional color point cloud.



The operation interface function description is as follows:

① Back : Click to return to the main interface of the software;

② Status Description: Prompts the current status of the project;

③ Working Time: Prompts the working time of the current project;

④ Remaining Storage Space: Memory card remaining space;

⑤ RTK Status: Prompts the status of the RTK;Click to view details;

⑥ Power: Device power description;

⑦ Setting: Project parameter setting, click to set relevant parameters;

⑧ Roaming Mode: Switch roaming modes, including free roaming and third-person;

⑨ Point Cloud Mode: Switch the display mode of point cloud in the three-dimensional scene, supports three modes: color point cloud, intensity coloring and elevation gradient;

⑩ ON/OFF: Control the start and end of project;

(Continued on next page)

⑪ Control Point Management: Operations such as adding, deleting and covering control points of the project;

⑫ File Management: Jump to the file management page, where user can manage, delete, view and do other operations on local (save in mobile) or device project data;

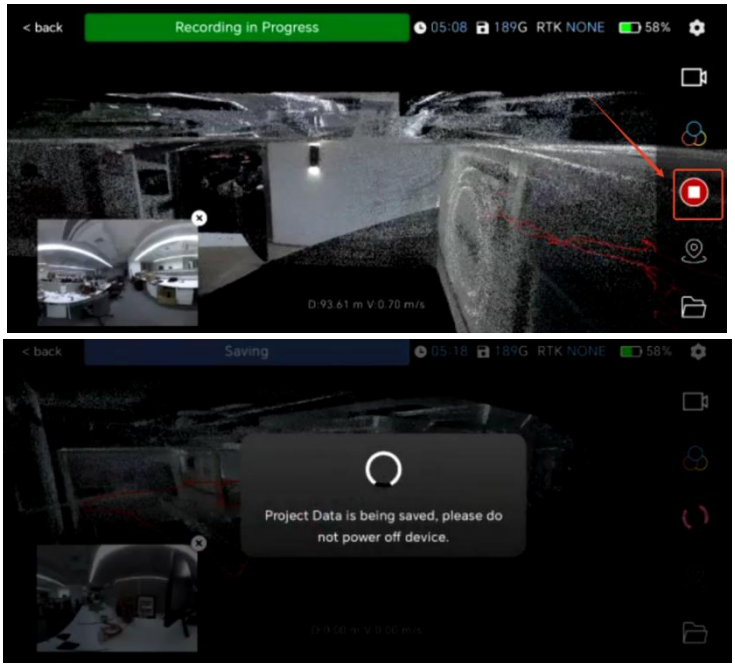
⑬ Image: View image information taken by the device;

⑭ Cumulative distance/travel speed: Displays the accumulated length of data collected in the current project and the current travel speed;

⑮ Three-dimensional Scene: Display point cloud and trajectory lines, and can be manually operated to view details.

3.9 Data Saving

To end the scan, please click the red button on the right side of the screen. After clicking the button, a prompt "Project Data saved completed" will be displayed after the data is saved.



3.10 Power Off

First, make sure that the device has completed collecting data and saved it. Short press and long press the power button on the grip battery. After about 5 seconds, the indicator light goes out and there is no working sound from the device, which means the device has been turned off.

4 SHARE Capture

SHARE Capture provides various functions for data management. Users can upload, download, rename, delete and do other functions of files through the "File Management" page.

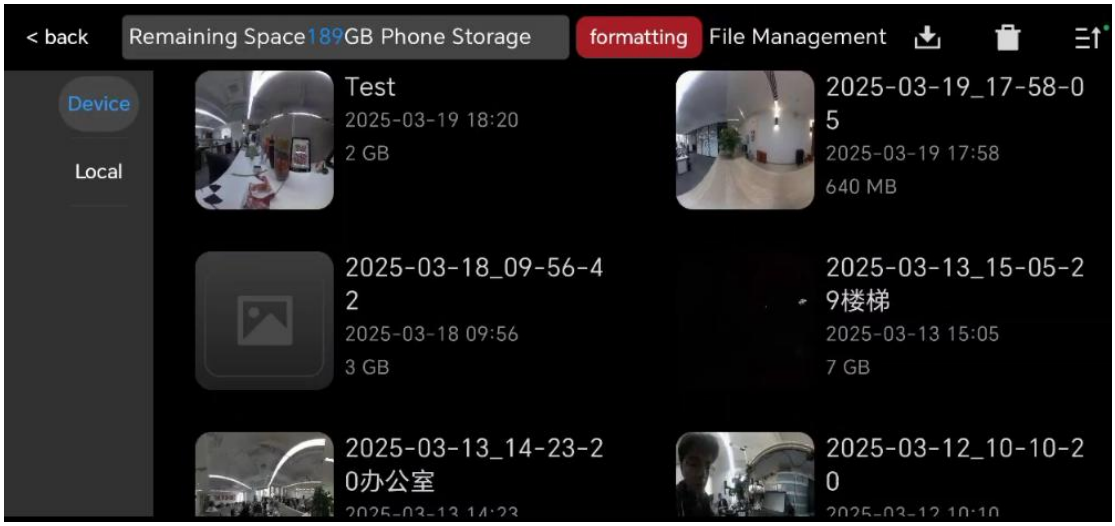
4.1 Data Storage

4.1.1 Device Files

Please note that although can view the entire process of scanning data on mobile phone, after each project, the project data is saved in the TF card of SHARE SLAM S20. User can find data which just scanned in the "File Management" by clicking "Device" option. The default file name is the time when scanning started.

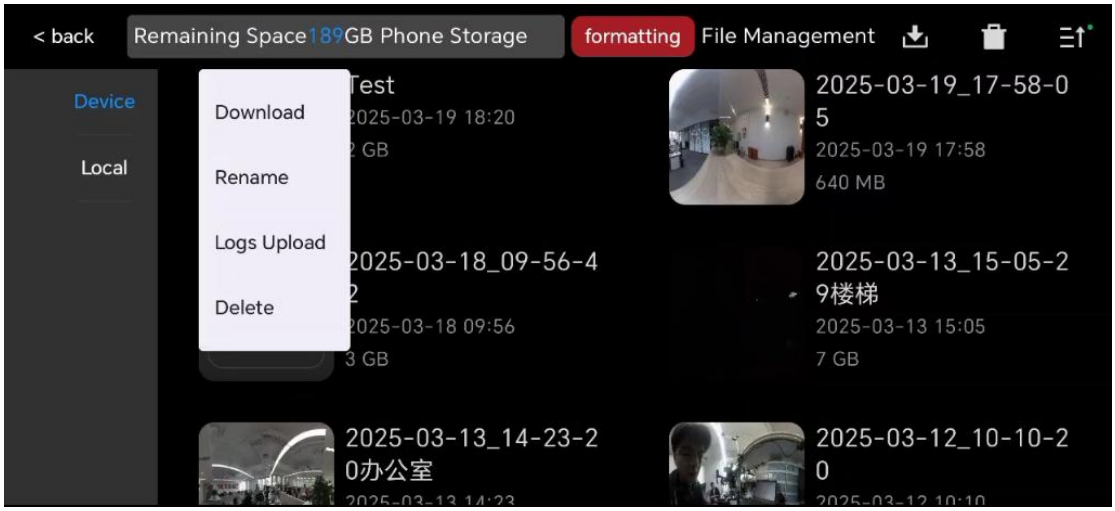
The default preview cover is the first image when recording is started. It is recommended to use the "Rename" function to change each project to a name specified by user, so that the file can be found again later easily. The function buttons in the upper right corner are "Download", "Delete" and “Sort” from left to right. The “Sort” menu can help user sort the project by name or size.

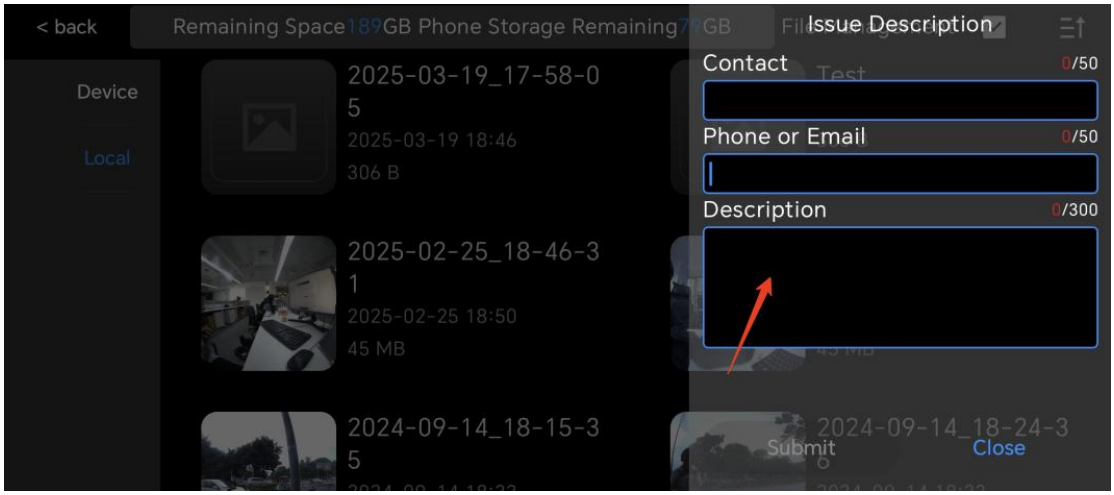
Please note that once deleted, project data cannot be retrieved.



4.1.2 File Operation and Log Upload

Select a file and press 1-2 seconds to download, rename, upload logs, delete, etc. If user needs to upload the log of the corresponding project, user can click "Logs Upload" and describe the issue and the phenomenon that occurred to SHARE.



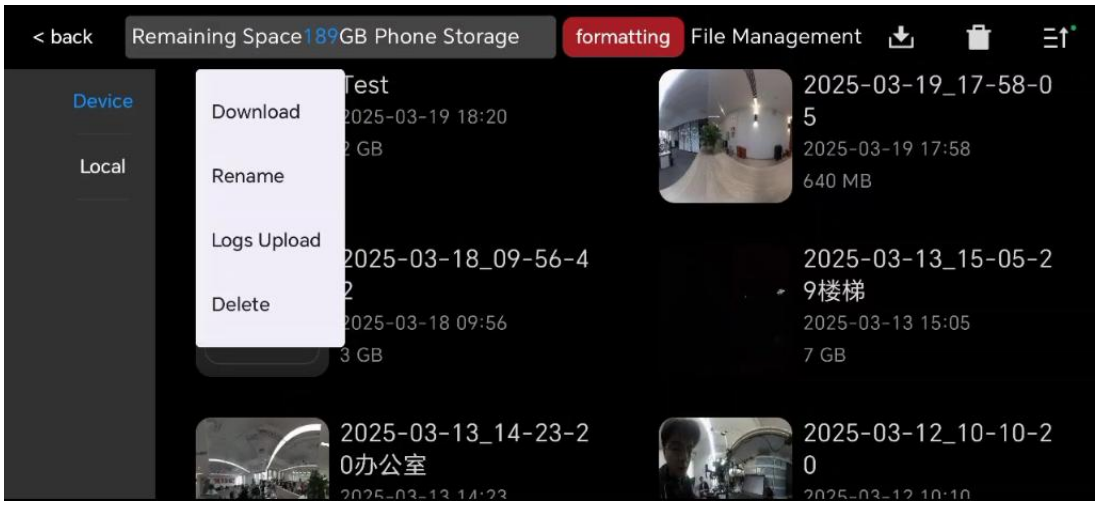


Fill in the relevant information in the "Issue Description" window and click the "Submit" button to upload the log file corresponding to the project.(Note that the mobile must be connected to the network to upload logs)

Note: Only SHARE SLAM S20 device log files can be uploaded.

4.2 Local

If user wants to download the scanned project data to user's mobile, user can first click on the file user wants to download on the "Device" page, click "Download", and then user can find the downloaded file in "Local" later.



From the "Local" interface user can view the scanned area. Please note that due to the limited computing power of mobile phones, the point clouds seen in "Review" are thinned out point cloud data and are only used to help user check the area user have traveled. If user needs to see a better complete effect, user needs to post-process data in SHARE Pointclouds Studio.

4.3 Review Data

Switch to “Local” file management, click on the corresponding project, and in the "Review" interface, user can rotate/zoom and pan point cloud.

5 SHARE Pointclouds Studio

SHARE PointClouds Studio software is a data processing tool software for SHARE handheld 3D LiDAR scanner series products. The software provides functions such as original data reconstruction, 3D point cloud viewing, and measurement analysis. When matched with SHARE handheld LiDAR products, it can completely cover the entire process of data collection data processing and data analysis, and fully supports the application of 3D LiDAR point cloud.

5.1 Software Configuration Requirements

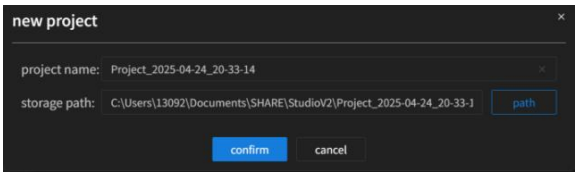
To ensure that the software uses smoothly, the recommended configuration is as follows:

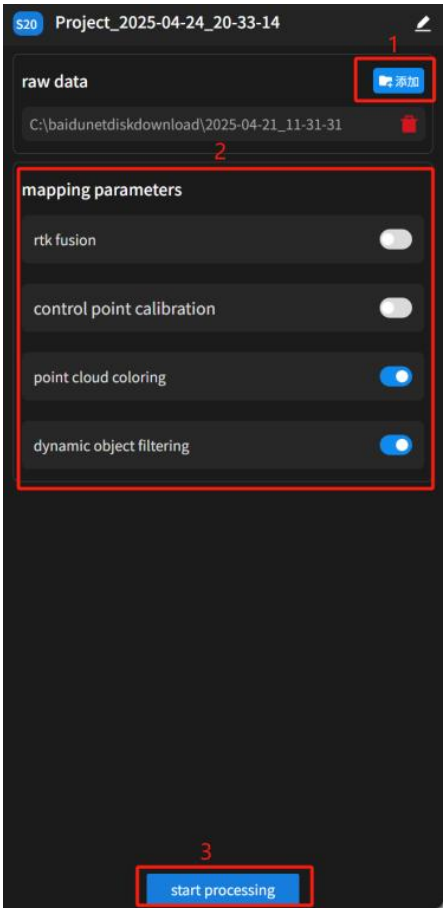
CPU	Intel® Core™ i7-10700H@2.90 GHz（Or equivalent performance processor to AMD)）
GPU	GeForce RTX2060 4GB
RAM	32GB
Hard Drive Capacity	64G capacity available
Operating System	Windows 11 series

5.2 Data Processing

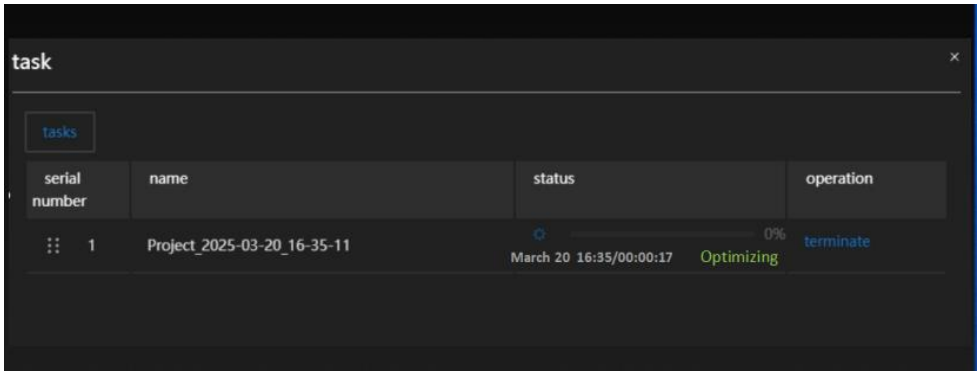
Remove TF card from device, insert it into the card reader, connect it to the computer to read the data, and copy project file (Such as 2024-03-26_xxx) to the computer local disk.

Open SHARE Pointclouds Studio software, click “New Project”, set the project name and storage path, and click the "Confirm" button to enter the "Project Configuration" interface.Then import the original project file, configure the processing parameters, and then click "Start Processing" to perform the "Point Cloud Mapping" process for the project.





The software automatically pops up the "Task " pop-up window to view the progress of the point cloud mapping of the project.



After the processing is completed, the status of the corresponding project is displayed as "Success".

Please see the QR code on the right for detailed product operation instructions, including detailed software operation instructions

Reconstruction Completed

SHARE SLAM S20 Instruction Manual

6 Device Maintenance

Do not disassemble or the device without permission.

Handheld LiDAR Device checking and debugging have been completed before delivery. Please do not alter or dismantle the device. The consequences caused by users' unauthorized modification of the camera shall be borne by users. If user needs to design or modify the camera to install and load, please contact SHARE technical support staff.

6.1 Charge

If user needs to charge, please take out the charger included with SHARE SLAM S20. After inserting the charger into the TYPE-C port of the charging slot, the power indicator light on the grip battery will light up, indicating that the battery is connected to the charger. User can press the power button on the grip to check the remaining battery power. When charging, charging progress can be checked by observing the number of indicator lights on the battery.

6.2 Precaution

(1) Please store the Handheld LiDAR Device in a dry and ventilated place at normal temperature to avoid lens fogging caused by excessive humidity. The recommended storage environment temperature is from -20℃ to 60℃, If the lens fogs up, water vapor will dissipate automatically after the Handheld LiDAR Device is turned on and heat up for a period of time.

(2) Avoid storing the Handheld LiDAR Device in a place of strong vibration and strong magnetic.

(3) Avoid bringing the equipment directly from cold places to warm places to prevent moisture condensation.

(4) Do not place the Handheld LiDAR Device in strong light for too long.

(5) Avoid scratching the lens & LiDAR surface coating by hand or hard objects, otherwise

the camera image will be blurred.

(6) Keep the Handheld LiDAR Device interface clean and dry.

(7) When cleaning the lens, please use a soft and dry cleaning cloth to wipe. Please do not use a cleaner containing organic solvents such as thinner or gasoline to clean the UV lens.

(8) Do not use unstable power supply or power supply that exceeds the voltage range of the Handheld LiDAR Device.

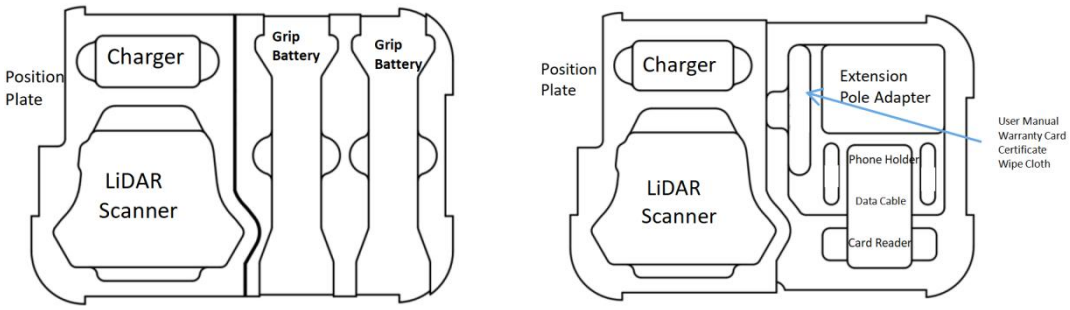
(9) Do not turn on or turn off the camera frequently. Please wait for more than 60 s at the interval of continuous power on or off, otherwise it will affect the life of the Handheld LiDAR Device.

(10) The Handheld LiDAR Device is kind of a precision equipment, please keep it stored in the shipping box during transportation process.

7 After Sales

7.1 Shipment

All equipment delivered by SHARE UAV shall be packed in accordance with the standard protective measures for packaging and transportation. Such packaging shall meet the requirements according to the specific properties of the equipment for long-distance transportation, moisture resistance, shock resistance, rust prevention, etc. to ensure that the equipment could be arrived safely at the place of delivery.



Shipping Box Contents

The lining of the SHARE SLAM S20 shipping box adopts a two-layer design. The left side of the lining is fixed with the main unit , charger and positioning plate. The upper layer on the right side of the lining can hold two grip battery , and the lower layer can hold accessories such as mobile phone holder, card readers, data cables, mapping pole adapters, manual, etc.

The shipping box adopts an industrial-grade box manufacturing process. The case uses an engineering plastic moisture-proof box. The structure is strong and durable.

Keep the cover of the shipping box upward, and do not place it upside down. Avoid severe vibration and turbulence during transportation.

7.2 After-sales Service

Party A: Buyer of Products **Party B**: SHAREUAV Ltd

1) Hardware warranty terms: 1 year warranty since delivery. During the warranty period, Party B shall only undertake the delivery, maintenance and quality guarantee of Party A's goods within the territory of the People's Republic of China.

2) Warranty service: Regulations on after-sales service of SHARE UAV

The after-sales service content shall refer to the after-sales service regulations of SHARE UAV;

a. During the warranty period, Party B will provide Party A with regular technical support free of charge, and bear the related costs of repair and replacement caused by product quality problems.

b. Devices with below conditions will be out of warranty even if within warranty time: water damaged, for damage caused by non-quality problems, Party B will provide repairing service and charge to Party A.

c. The warranty label shall not be opened, torn or destroyed privately, otherwise the warranty will be invalid.

If user have any questions, please contact SHAREUAV Ltd

After-sales service and technical support tel: +86-755-23216686 (working days 9:00-18:00 Beijing time)

FCC Caution

1 Labelling requirements.

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.

2 Information to user.

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

3 Information to the user.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated withminimum distance 20cm between the radiator & user's body

SHAREUAV 赛尔

Official Website

LinkedIn

YouTube

Facebook

If user have any questions about the product
Please contact us via below email：
INFO@SHAREUAVTEC.COM

SHAREUAV Ltd