SOUTH

Quick guide to SLAM RTK ME MEASURING SYSTEM

2025.08

Content

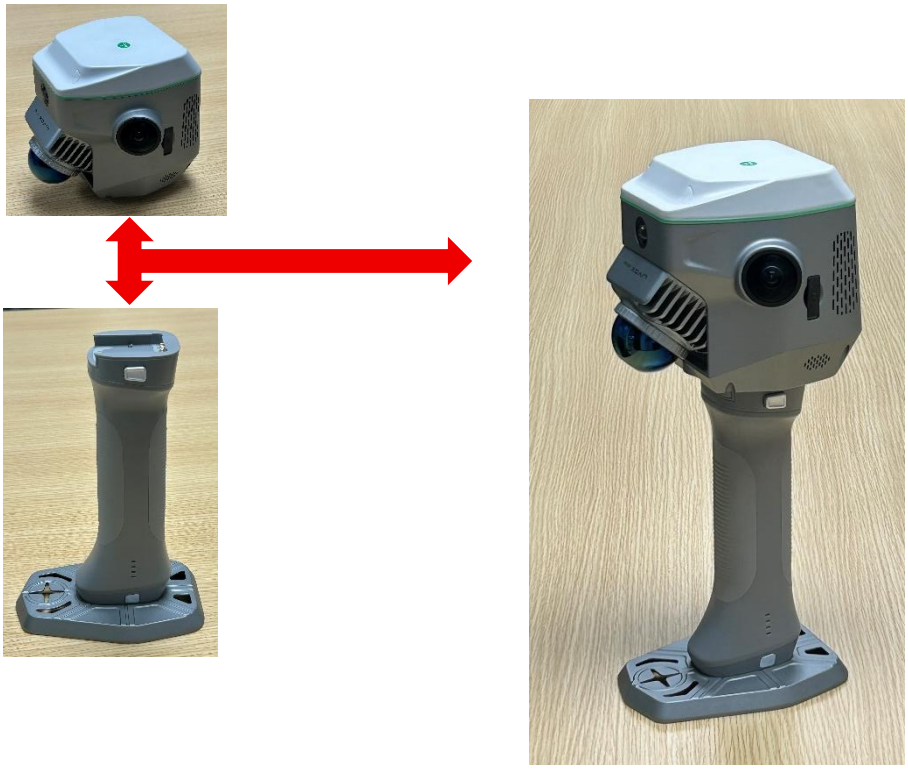
1.What is in the ME box?

①. ME 1x
②. Handheld battery 1x
③. Data controller 1x
④. Handheld battery charger and cable 1x
⑤. Built-in battery charge and cable 1x
⑥. Bracket connector 1x
⑦. TF card reader 1x
⑧. Dongle key for postprocessing software 1x
⑨. Processing software 1x
⑩. Base plate 1x
⑪. Magnetic plate 1x
⑫. Cleaning cloth 1x

2.ME installation

Connect the base Plate with the battery and fix it with the locking screw on the base plate.

One hand holds ME; the other hand holds the battery and then connect it.



3.Insert TF card (face to the scanner)

Before power on ME system, please make sure to insert the TF card into the TF Card slot, and note that the side with the chip is facing the direction of the laser scanner;

After installed TF card:

4.Power on ME

Dual battery setup: internal + handheld external. Power-on requires two steps.

1. Short press the battery button once, and then long press the button to power on the handheld battery

2. Press and hold the power button for 3 seconds until the red light turns on. The main unit will announce the current network mode.

3. Description of Indicator Lights, from left to right in sequence are **Slam light, Data light, Satellite light, Power light.**

Slam light: Red light - constantly on, flashing -lam exception; Green light -lam successfully started; blue light -lam operation.

Data light: Off - No differential signal received, Red light - Received differential signal but not fixed solution, Green light - Fixed

Satellite light: Green light - Search for Stars

Power light: Red light - charging, full light off (later changed to full green light)

5. Install ME with a handheld battery directly or on the Carbon fiber pole

		
Handheld mode	On a carbon pole without handheld battery (only for short time work)	on a carbon pole with handheld battery

6. Protective Covers

When the equipment is not in use for a long time or after the operation is completed, please install the laser protective cover and camera protective cover in a timely manner.

Hold the camera protective cover with both hands to avoid scratching the lens.

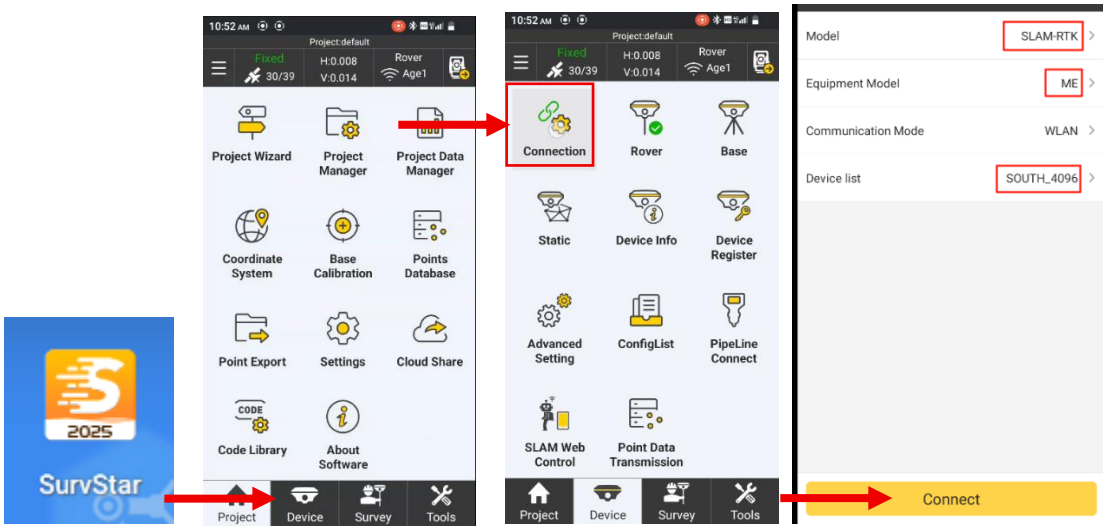
7. Survstar for ME

SurvStar software include the operations for ME measuring system,

7.1 Connect ME

Go to Device->Connection, set model to “SLAM-RTK”, Equipment Mode to “ME”, from the

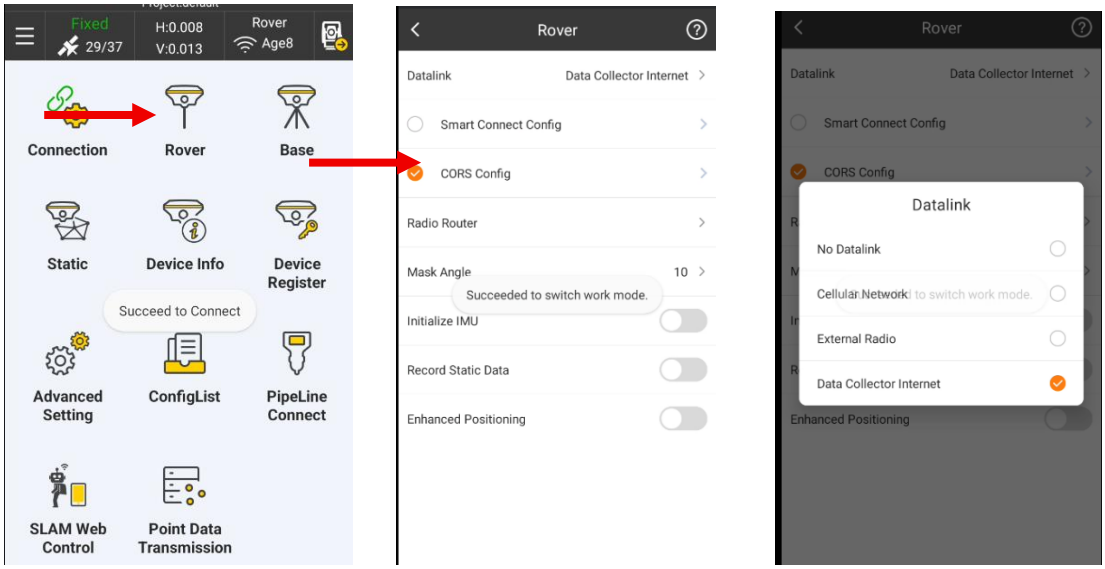
Communication Mode select ”WLAN”, and then from Device list find the ME serial number and connect it.



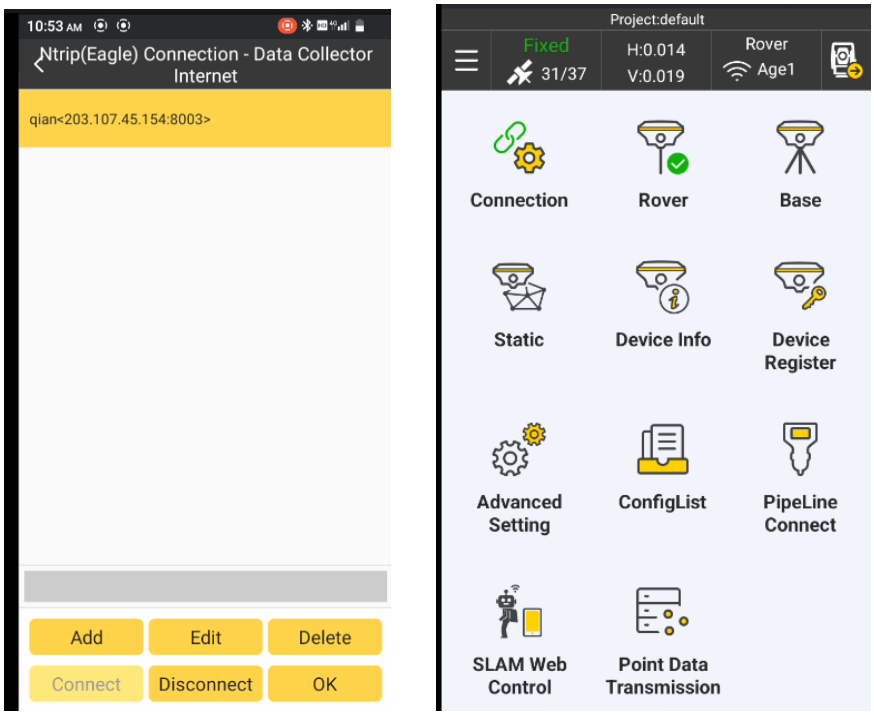
7.2 Set CORS information in Rover

Datalink has hour options, if insert a SIM card in ME system, please set Cellular network;

If insert a SIM card in the data controller, H9 for example, please set Data controller internet;

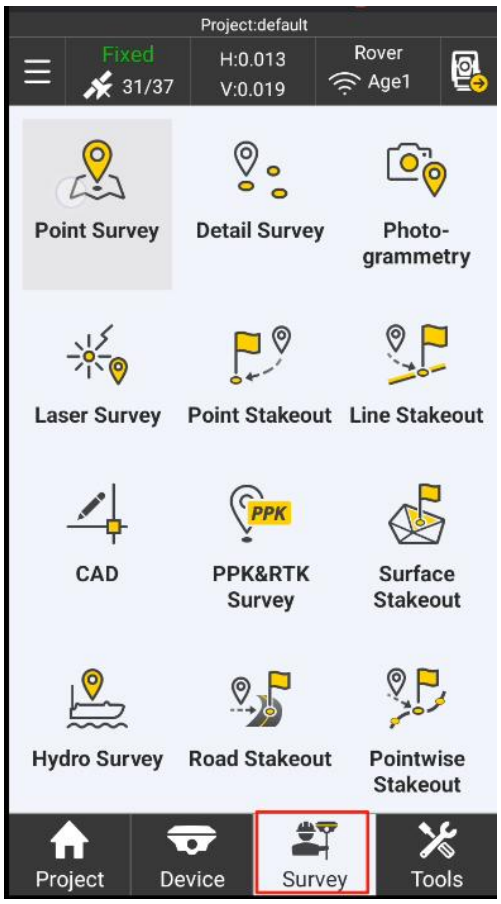


Then enter CORS config, ADD or Edit a existing CORS account; after that, click connect; after CORS setting is ready, ME system will get Fixed solution automatically in outdoor scenary.



It is ready to work now, enter Survey interface as follows:

8. Measuring functions

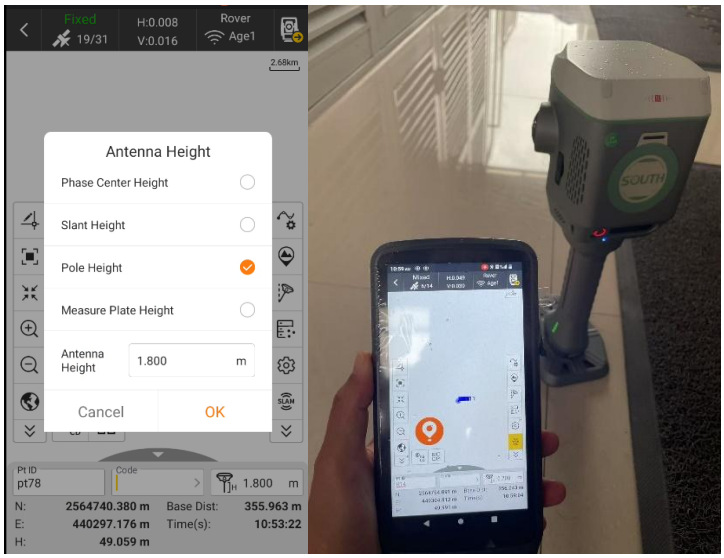


8.1 antenna height value input

Please input the antenna height value first, the handheld battery height is 0.2m,

 if only use the handheld battery, please input antenna height to 0.2m,

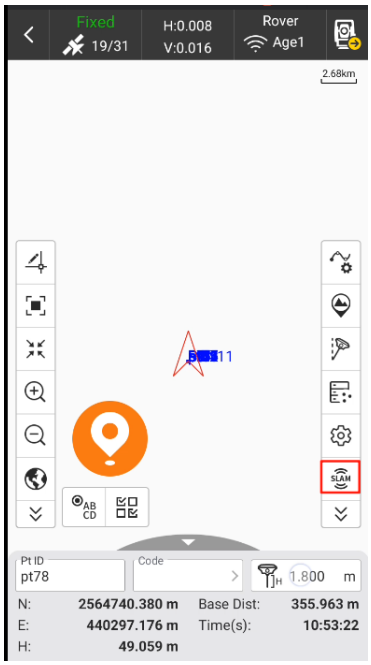
 if work like this, please input the pole height plus the value of the battery 0.2m, for example, if the pole height is 1.4m, antenna height value, please input 1.6m.

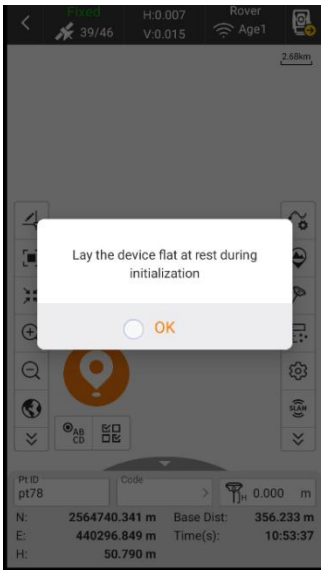


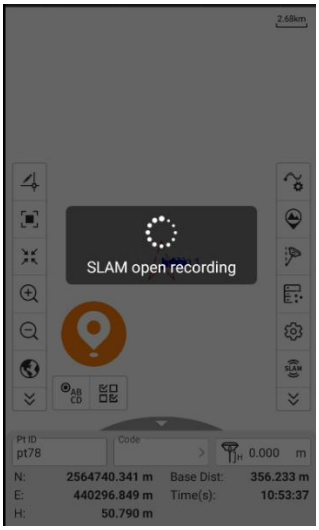
At this sample, I only use the handheld battery, so I input the antenna height value to 0.2m.

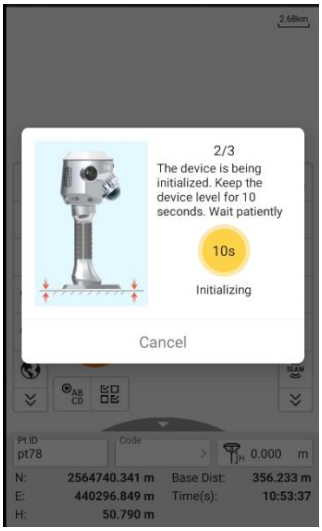
8.2 Magic Calculation

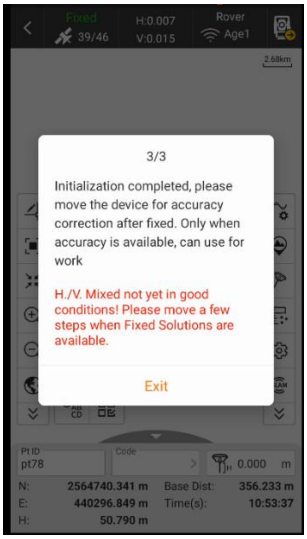
There is a SLAM icon on the right column, click it to activate the function for Magic calculation, the system will enter a 50s initialization and a 10s initialization,

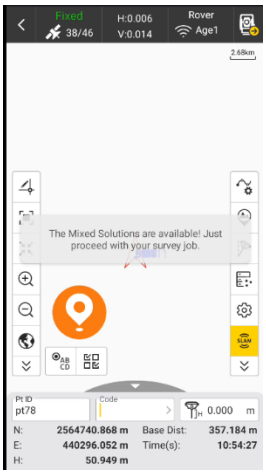




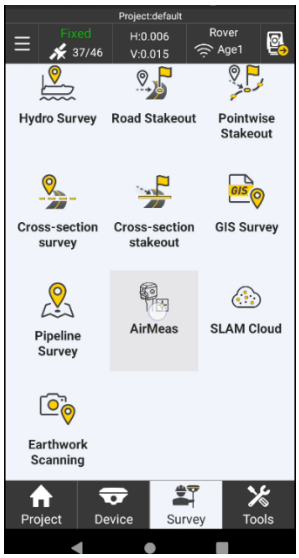


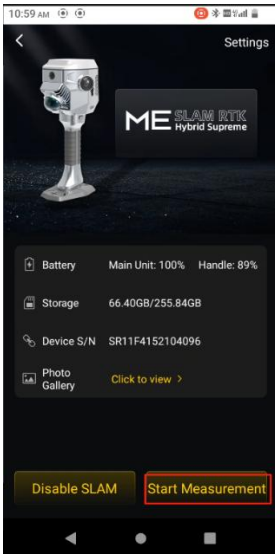


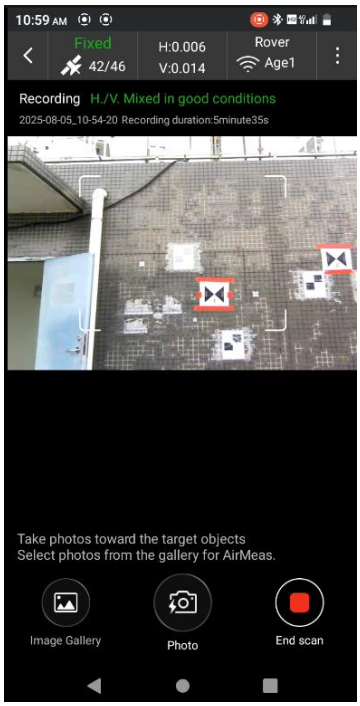




8.3 Air Measurement

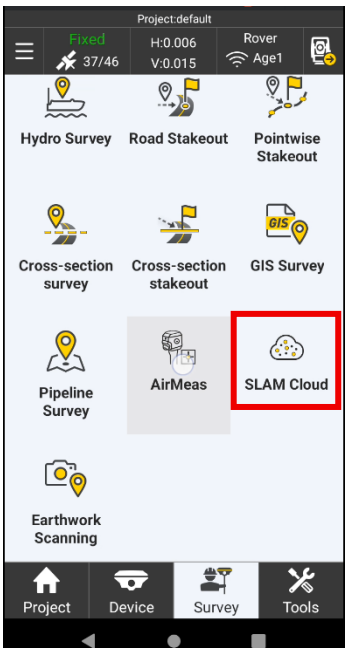


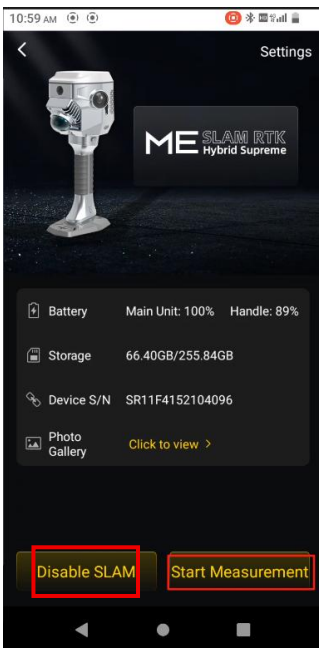


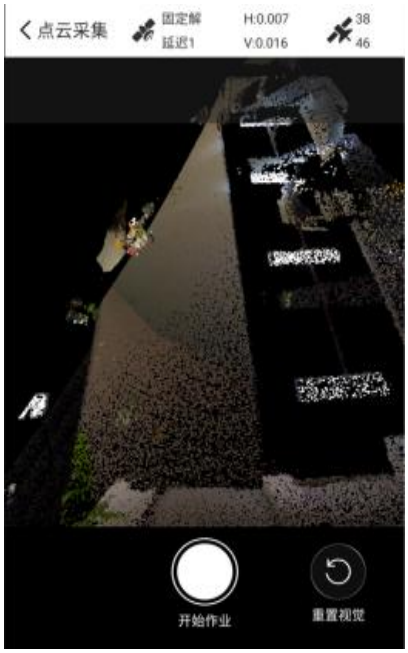


9. Point cloud scanning（SLAM Cloud）

1. Enable SLAM
2. Start Measurement

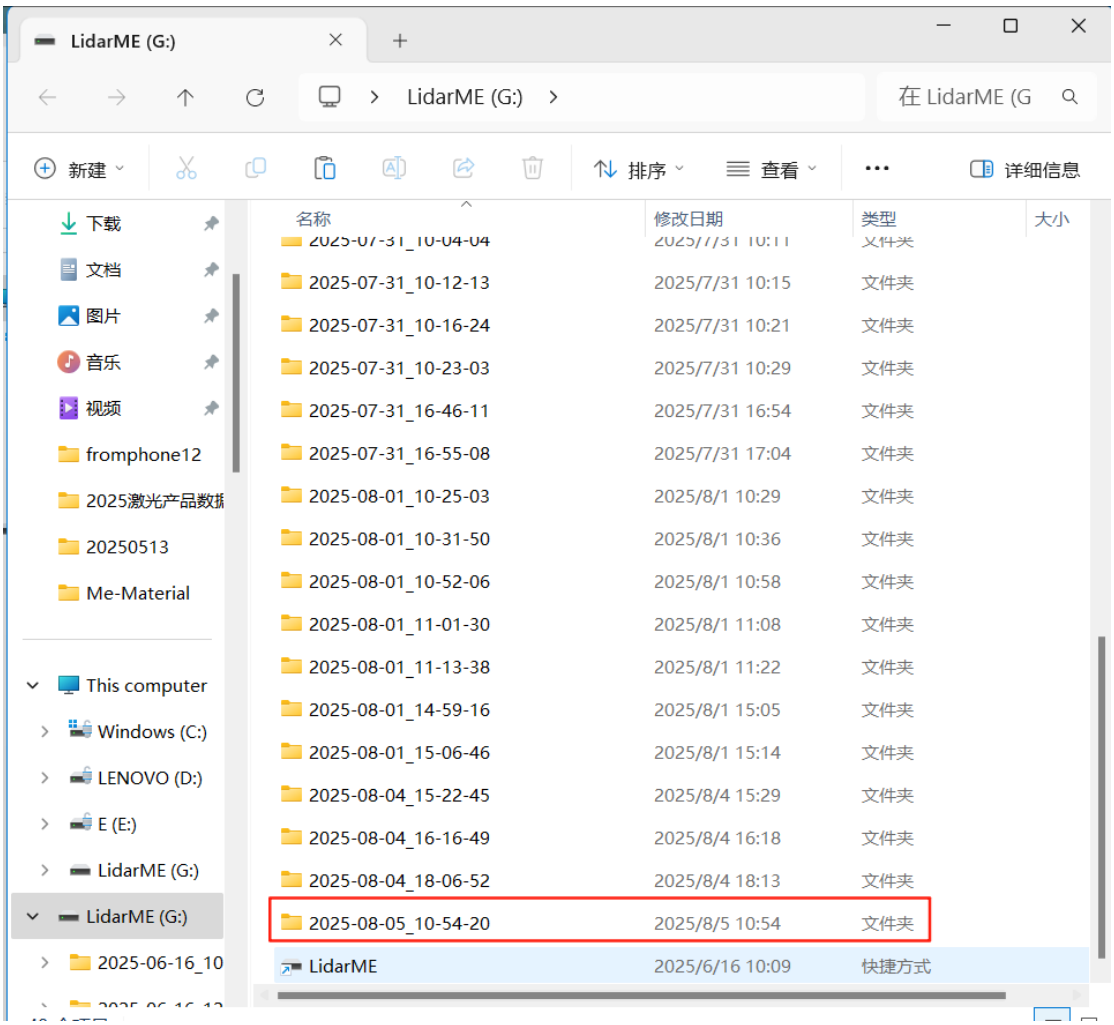






10. Data download

Plug out the TF card from ME system, and then insert it to the TF card reader, after that Plug the reader to laptop, and find the project folder according to data collection time.



11. Battery Charge

11.1 Handheld battery charge

11.2 ME built-in battery charge

11.3 Data controller charge