04 DataTransfer

The battery pack is plugged into the battery and powered on, the LEMO port of the data transmission cable is connected to the LAN port above the battery pack, and the network port is connected to the computer.

IPaddress:192.168.1.99 SubnetMask:255.255.255.0

Enter the URL "\\192.168.1.200" in the computer network to enter the internal storage space of device, open the "share" folder, copy the bag folder corresponding to the time to the computer, and complete the data export.

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Name	Data modified
a) 2021-11-25-10-56-25.txt	2021/11/25 10:56
2021-11-30-10-13-47.txt	2021/11/30 10:13
2021-11-30-10-14-15.bag	2021/11/30 10:17
2021-11-30-10-14-15.imr	2021/11/30 10:1
2021-11-30-10-14-15.log	2021/11/30 10:17
2021-11-30-10-18-26.bag	2021/11/30 10:2
2021-11-30-10-18-26.imr	2021/11/30 10:2
2021-11-30-10-18-26.log	2021/11/30 10:2









GREENVALLEY INTERNATIONAL

2120 University Ave, Berkeley, CA, USA 94704 w.greenvalleyintl.com info@greenvalleyintl.com



Handheld LiDAR Scanner







- 1. LiGrip main handheld body
- LiGrip battery pack
- ③. Carrying strap
- 4. Power cord
- (5). Data transfer cord
- 6. Battery
- ⑦. Laser protective cover
- $(\verb"8". System charger")$
- (9). Camera
- 10. GCP collector stand

02 LiGrip System Setup



1 Insert battery





3 Connect to body

4 Remove laser cover

2 Power on

03 Data Collection

- 1. Device powering on
- ① Short press the battery for 1s and then long press for 2s to power on.
- **②** The host button flashes for 40s and turns off.



2. Device initialization

① Long press the main unit operation button, the button will rotate one and a half turns while it is flashing, after 35s the button light goes out, the device rotates stably, that is, the device starts to work normally.

② Keep the device still for 25s, whilst the base map builds.

Notice:

Try to choose an open and featureful space for initialization.

However, when holding it or placing it on the ground, make sure that the device does not move and the laser is not aimed at the ground, wall, or sky during initialization.

3. Data collection for preplanned route

Note:

- (1) Collection time should not exceed 15 minutes.
- (2) Walking speed should not exceed 1m/s, normal driving speed is sufficient for vehicle mounted collection operations.
- (3) When collecting indoor scenes, open the door to pass through in advance, and do not move the door during the collection process.
- (4) Pay attention to planning the route of collection in advance when collecting, and try to use a closed loop where conditions permit.
- (5) The laser should always be aimed at objects of effective reflectance.
- (6) When in narrow space or scene switching, pass sideways slowly.
- (7) If you are concerned about the facade information, it is recommended to walkside always when collecting, and the laser scans towards the facade. It is also recommended to work when there are few moving targets to reduce data noise and errors.
- (8) When scanning muli-story stairs, first tilt device back at the platform of each floor, after scanning the entire stairs, lower the device to a normal angle, and then go up.

4.GCP collection

- 1 Aim the reticle at the control point and stabilize the device.
- ② Short press the host button, the light flashes for 8s and then goes out to indicate a successful collection.
- 3 Slowly pick up the device and contiune to collect.



5.End collection: After the data collection is completed, hold the device firmly in place, press and hold the operation button for 3s, the button light starts to flash, after about 25s, the flashing is completed, and the green light goes out, that is, the data collection is stopped.

Note: If you need to continue the acquisition, start from step 2.

6. Powering off the device: short press the battery button for 1s and then long press for 2s, the device is now powered off.

🛕 Note: Unplug the power cord if the device is not powered off.