D5E

Land Meter

User Manual

Simple·Accurate·Efficient

V 2.0

Receive satellite signal

The process of receiving the satellite signal maybe take 30 to 60 seconds.

1.Please go to the outdoor open area.

2.Press the power button to turn on the equipment.

3.Keep the screen horizontally up while waiting for the equipment search satellite signals.

4.The HDOP (accuracy factor) indicates the strength of the satellite signal. The value is less than 1.0 and the value is once stable, measurements can begin.

The first signal search will be slowly, the second will be faster. HDOP value below 1.0 will faster process. The HDOP is a quality indicator of GNSS location. The smaller the value, the better the accuracy.

The location of the signal search should be in outdoor open area without shielded things; bad weather; low battery ; tall buildings or strong signal destroyer, such as cell towers, substation and so on will affect the signal search effect.

Measurement Guidelines

Important considerations during the measurement process:

1.Improving Accuracy:

It is recommended that before measuring, if the HDOP is below 1.0, continue satellite searching for 5 more minutes to enhance the accuracy of the measurement results.

2.Antenna Direction:

During the measurement process, ensure that the antenna remains in a horizontal and upward position. Tilting may affect satellite signal reception, causing certain errors.

3.Maintain Stable and Even-Speed Measurement:

Try to maintain a stable and even speed during measurement. Pause briefly at turning points during walking before continuing the measurement; this helps ensure the continuity and accuracy of measurement data.

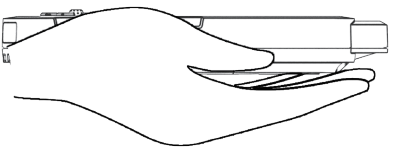
4.Inherent Errors in Satellite Positioning:

There are inherent errors in satellite positioning, which may result in larger errors when measuring particularly small areas.

5.Measurement Speed Requirements:

During the measurement process, the device's movement speed should not be lower than 0.5 meters per second. If the speed is too slow, the device may not accurately recognize your movement distance.

Overhead view



Side view

Recommendation: During measurement, keep the device horizontal and facing upwards for the most accurate measurements.

Failure to comply with the following may result in personal or property damage, or adversely affect the equipment.

This product is high precision equipment.Please don't open it privately, otherwise it will be deemed a waiver of our after-sales service.

⚠ Battery Alarm

1.This product powered by lithium batteries, don't immerse the equipment and battery in water and don't expose the equipment to heat sources or hot areas, such as the sun or empty car.

2.Don't use sharp objects to remove or disassemble the battery. Don't leave the battery in places accessible to children.

3.If this product is not used for a long time, please take out the battery.

4.Please use the original charger to charge the equipment.

Technology Parameters

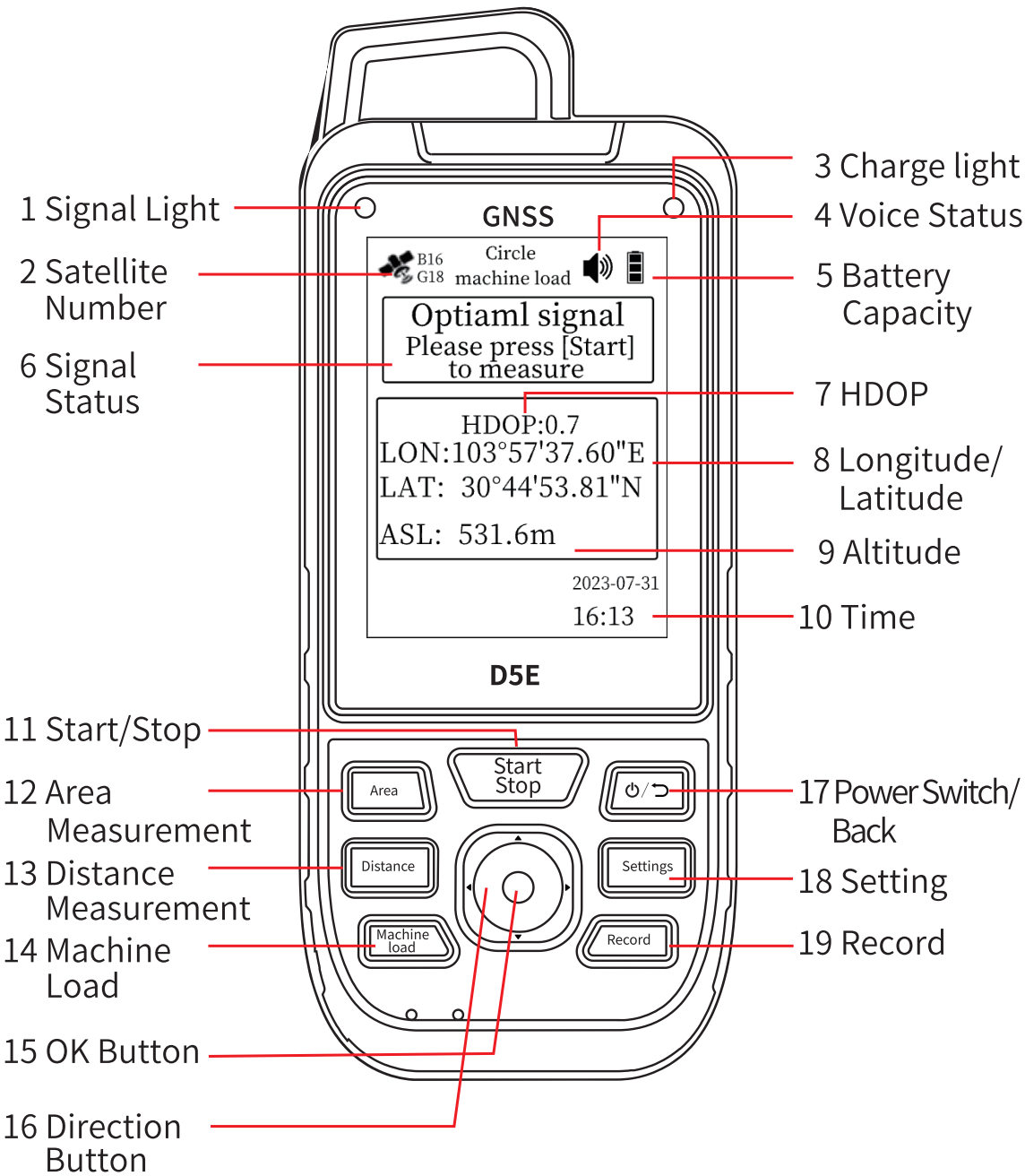
Model	D5E
Chip	High Sensitivity Measurement Level GNSS Chip
Antenna	Passive Large-Size Flat Panel Antenna
Positioning time	Hot start 0.5 seconds, cold start 20 seconds
Positioning Accuracy	±2.0 m (when HDOP lower than 1.0), ±1 m (SBAS insert)
Area Accuracy	±0.003 acre(0.16-0.5 acre), ±1%(more than 0.5 acre)(when HDOP below 1.0)
Distance Accuracy	±1 m (when HDOP lower than 1.0, 100 m range)
Height Accuracy	±1 m (barometer measurement, altitude needs to be calibrated), ±5 m (GNSS measurement)
Prompt tone	English
Area Record	200 pieces
Distance Record	200 pieces
Waypoint	2000 points
Work Temp	-20°C~70°C
Storage Temp	-30°C~80°C
Work time	30 hours
Size	161mm×65mm×26mm

Function introduction

[Normal area measurement, L/W area measurement, Fixed width area measurement, Fixed point measurement, Circle machine load, Round-trip machine load, Intelligent slope, Intelligent mountain measurement, Normal distance, Fixed point distance, Slope distance, Fixed point slope distance, Altitude measurement, Waypoint, Barometer, Flashlight, Data export, Data import, Real-time update graph, View graphics in record]

Standard configuration：Equipment*1、Lithium battery*1、Power cable*1、Charger*1、Sling*1、 Soft bag*1、specification*1、Certificate*1, Packing box*1

Product Introduction



Attention The OK and Direction button in the same position, OK button need press while Direction button need pull.

1 Signal Light	Positioning is successful and blue signal light is blinking
2 Satellite Number	Displays searched the number of satellites currently
3 Charge Light	When charging through the rear USB port, the red light is long on. Turn to green light when full charge
4 Voice Status	The volume of the prompt tone
5 Battery Capacity	Battery status display
6 Signal Status	When the signal status is optimal, the measurement begins
7 HDOP	The smaller the value, the higher the accuracy reliability
8 Longitude/Latitude	Display longitude and latitude
9 Altitude	Display altitude height
10 Time	
11 Start/Stop	Stop and start measurement
12 Area Measurement	Normal area, L/W area measurement, fixed width area measurement, fixed point area measurement, intelligent slope, intelligent mountain
13 Distance Measurement	Normal distance, fixed point distance, normal slope, fixed slope
14 Machine Load	Circle machine load,Round-trip machine load
15 OK Button	Confirm the option
16 Direction Button	Up/Down/Right/Left move to select option

- **17 Power Switch/ Back**

  Power on: Press the power switch 2 sec, success power on when the screen lights up
  Power off: Press the power switch 2 sec, success power off when the screen lights up (Except measuring state)

  Back： Back to last interface

- **18 Setting/ Voice switch**

  Settings: Device data management and parameter setting
  Voice switch: You can quickly turn on or off the ringtone

- **19 Record**

  Area, distance, waypoint, import record view and management

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Quick Actions (Long press these button 2 sec can operate specific action)

Button 18 —— Turn on/off prompt tone

Button 19 —— Turn on/off light

Short press button 15 to set different values in different states

Status	Set
Area	Slope
Fixed-width area	Width
Circle machine load	Edge distance
Round-trip machine load	Onboard width

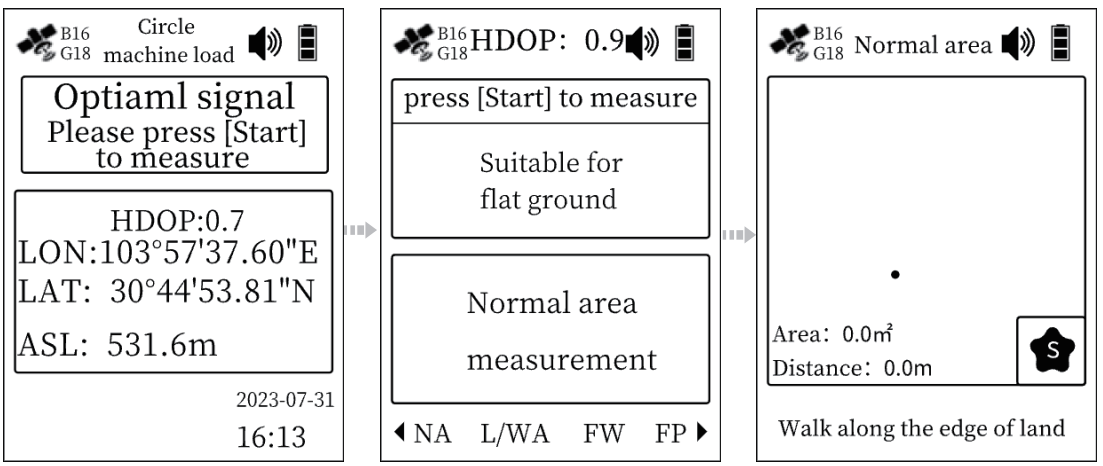
Choose Function

Select	Pull the direction  button move to select option
Confirm	Press OK  button, execute the selected option
Save	Press OK  button to save the option
Back	When you need to back to the previous page, press the 

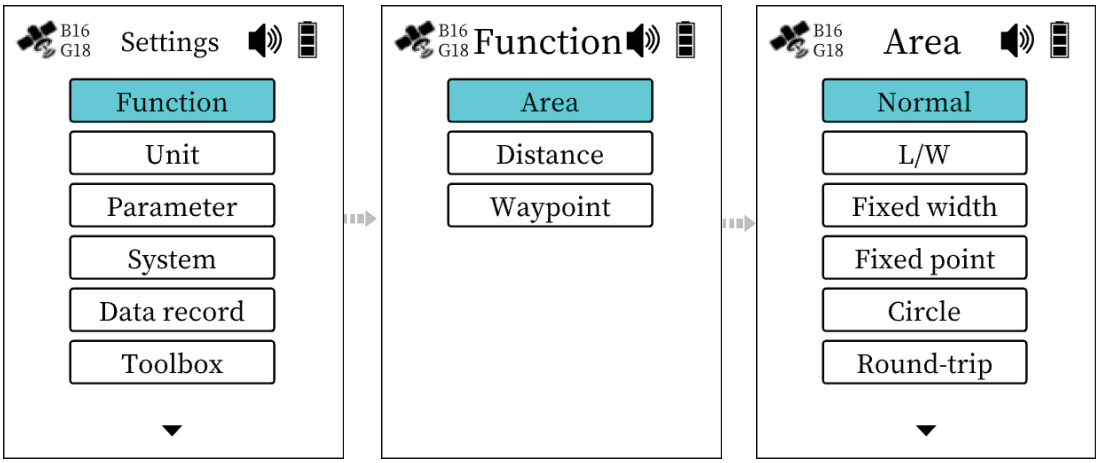
Measure Function

Function select	First by pressing the different function  switch to the corresponding interface
Back	When you need to return to the previous page, press the 
Select	Press the  to move the cursor in four directions and switch to the option on which the operation will be performed
Start	Press  execute selected function

Pause	During the measurement process, When you need view the detailed measurement quantity, press Start Stop to view, press Start Stop again to continue measurement
Save data	After complete, press ⏻/⮌ to save and leave current measurement mode

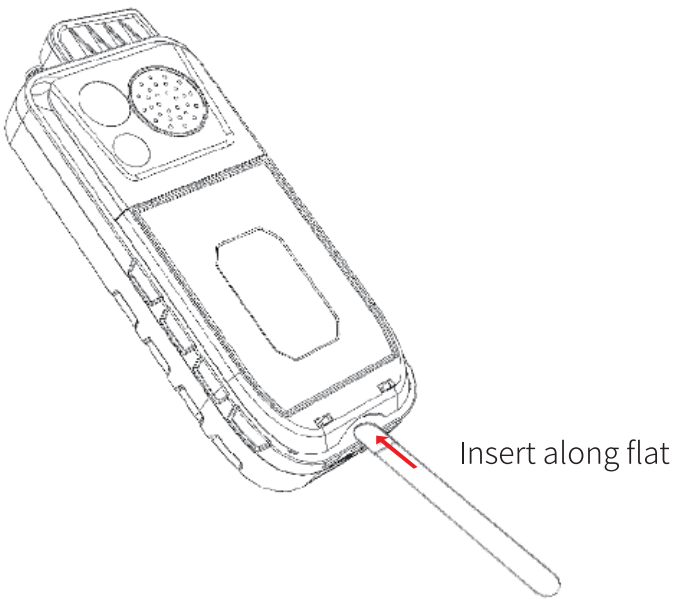


Note: Apart from the methods mentioned above, you can also enter the Settings menu by pressing Settings , select [Function], press the OK button to enter, and then choose the desired measurement mode for measurement. Waypoint mode can only be selected through this method.

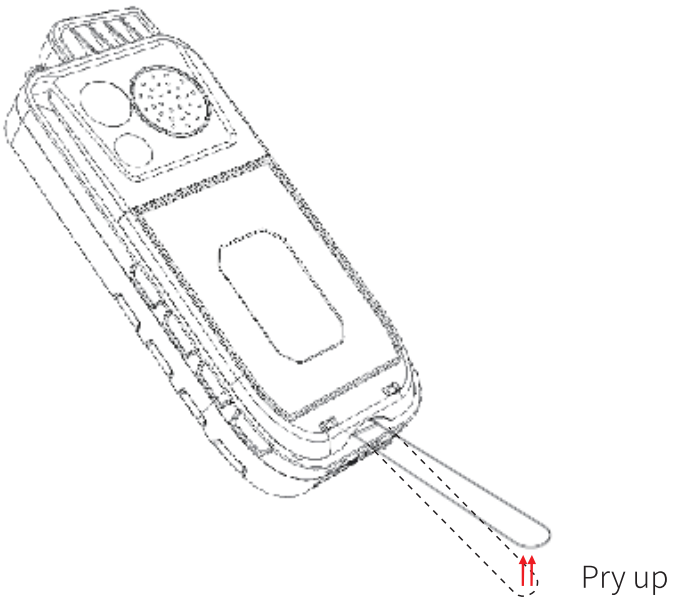


Battery Uninstall

1.Insert a non-sharp tool straight through the hole at the end of the back of the equipment

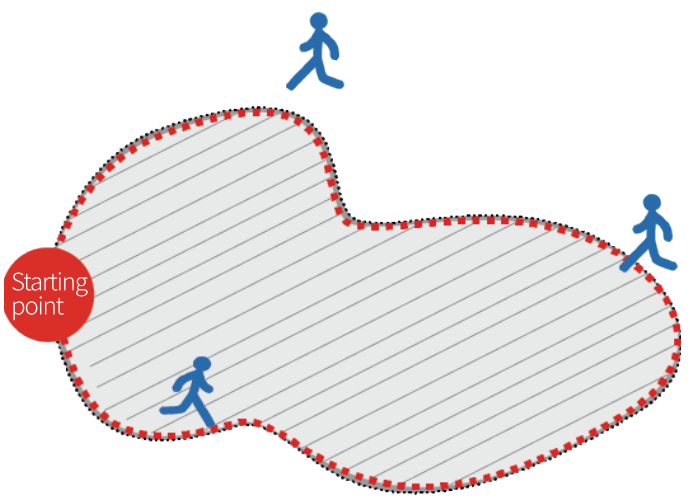


2.Pry the battery upwards



Normal Area Measurement

This mode is suitable for all flat surfaces.



1.Press the Start Stop button at the starting point to begin the measurement.

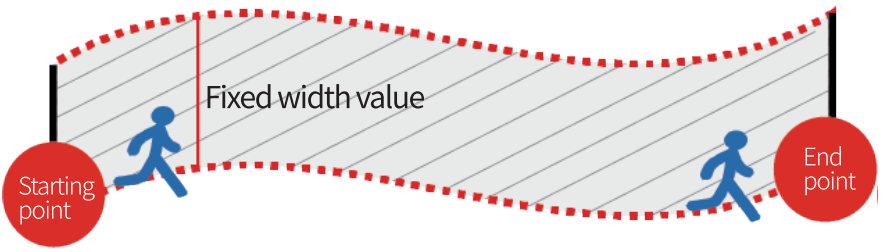
2.Start from the starting point, carry the device around the area, and return to the starting point.

3.Press the Start Stop button to pause the measurement and view the measurement data. (Note: Pressing the Start Stop button again will resume the current measurement.)

4.Press the ⏻/↩ to save and exit the current measurement mode.

Fixed-Width Area Measurement

This mode is suitable for strip-like terrains with consistent width.



1.First, set the width value in [Parameter] - [Measurement] for fixed width.

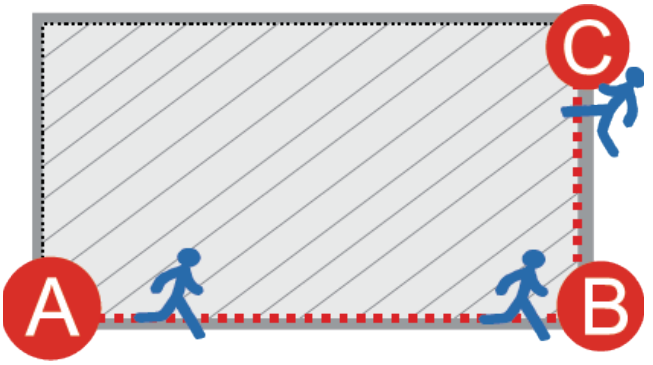
2.Press the Start Stop button at the starting point to begin the measurement.

3.Walk to the endpoint and press the Start Stop button to pause the measurement and view the data. (Note: Pressing the Start Stop button again will resume the measurement.)

4.Press the ⏻/↩ to save and exit the current measurement mode.

L/W Area Measurement

To measure an area using three points,This mode is suitable for rectangular shapes with smaller length-to-width ratios.



1.Press the Start Stop button at starting point A to begin measurement, then press the button to save information for point A.

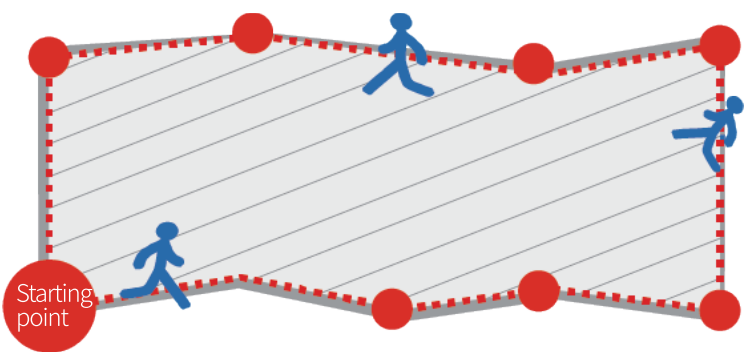
2.Press the button at points B and C to save their information.

3.Press the Start Stop button to view data. (Note: Pressing the Start Stop button again allows you to return to view the graphic.)

4.Press the to save and exit the current measurement mode.

Fixed Point Area Measurement

This mode is suitable for irregular terrains with straight edges of three or more turning points. Position information needs to be saved at each turning point by pressing the OK button.



1.Press the Start Stop button at starting point A to begin measurement, and press the OK button to save the starting point.

2.Walk to each turning point and press the OK button to save the turning point information.

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Circle Machine Load Measurement

This mode is primarily used for airborne circular measurement patterns.

First, set the airborne margin, then position the instrument in the middle of the operating carriage. Start from the starting point, circle around the perimeter of the working area, and return to the starting point. There is no need to repeat measurements inside the circle (entering the inner circle will cause less precise measurements).

Airborne margin setting value: (horizontal distance from the instrument to the nearest edge of the plot in the direction of vehicle travel)

1.First, set the onboard margin in [Parameter] - [Measurement].

2.Press the Start Stop button at the starting point to begin measurement (the starting point can be any point), and drive around the perimeter of the work area.

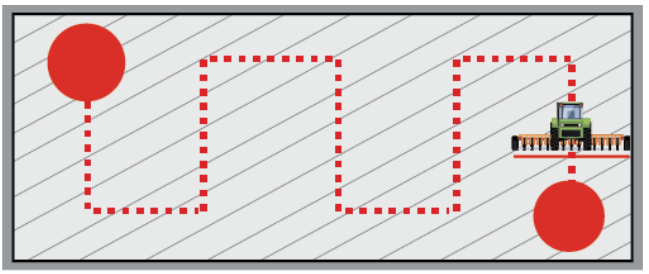
3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Round-trip Machine Load Measurement

This mode is suitable for back-and-forth operation modes primarily used in agricultural machinery.

First, set the onboard margin (swath width), then position the machine in the middle of the operating cabin. Start from the starting point and drive in a zigzag manner (as shown in the diagram), then return to the starting point.



Machine width setting value: (width of the working machine. For accuracy, place the equipment as centrally as possible on the vehicle)

1.First, set the machine width in [Parameter] - [Measurement].

2.Press the Start Stop button at the starting point to begin measurement (the starting point can be any point) and drive in a zigzag manner (as shown in the diagram).

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

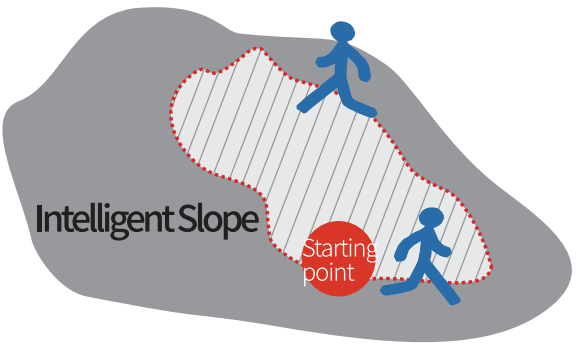
4.Press the ⏻/⮌ to save and exit the current measurement mode.

Reminder: Before measuring [Normal area measurement, F/W area measurement, Fixed width area measurement, Fixed point measurement, Circle machine load, Round-trip machine load], you can set slope or margin and machine width in [Settings] - [Measurement].

Once the desired mode is selected, press OK button on the main interface to quickly view the current parameter settings.

Intelligent Slope Measurement

This mode is suitable for terrains with nearly flat surfaces and continuous slope changes.



1.Press the Start Stop button at the starting point to begin measurement (starting point can be any point).

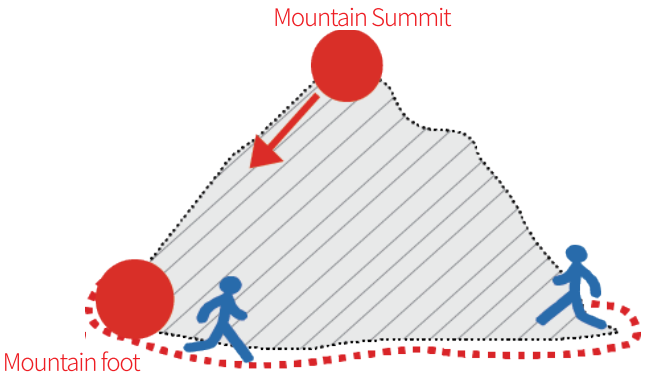
2.Start from the starting point, carry the equipment around the area, and return to the starting point.

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Intelligent Mountain Measurement

This mode is suitable for terrains close to conical mountaintops.



1.Press the Start Stop button at the summit of the surveyed mountain to start measuring and press OK button to save the "summit" of the mountain.

2.Walk to the foot of the mountain and press OK button to save the "foot of the mountain" as the starting point.

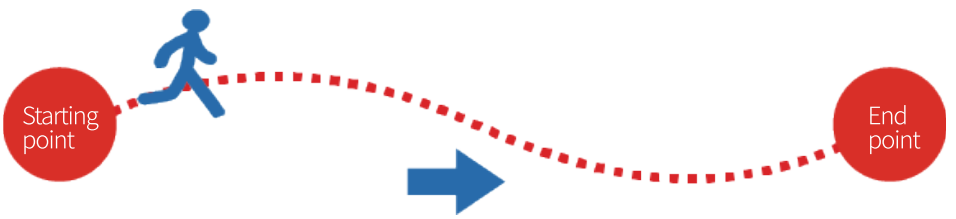
3.Walk around the base of the mountain and return to the starting point at the foot of the mountain.

4.Press the Start Stop button to pause measurement and view data while walking (note: press Start Stop again to resume measurement).

5.Press the ⏻/↩ to save and exit the current measurement mode.

Normal Distance Measurement

This mode is suitable for all flat terrains.



1.Press the Start Stop button at the starting point to begin measurement.

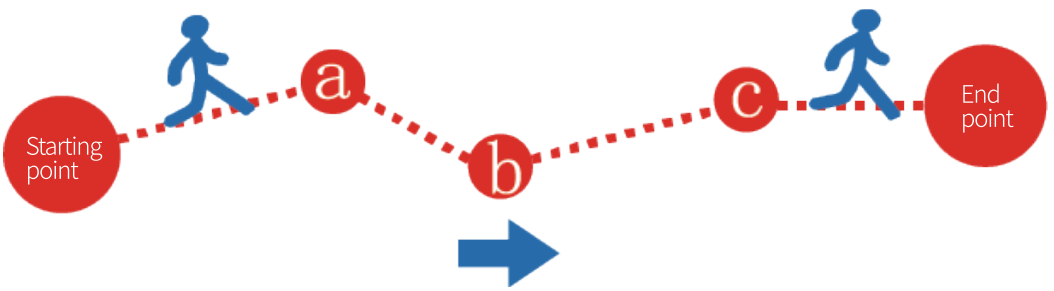
2.Walk along the measured route to the endpoint.

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Fixed Point Distance Measurement

This mode is suitable for irregular terrains with multiple sharp turns.



1.Press the Start Stop button at starting point A to begin measurement, and press OK button ● to save the starting point.

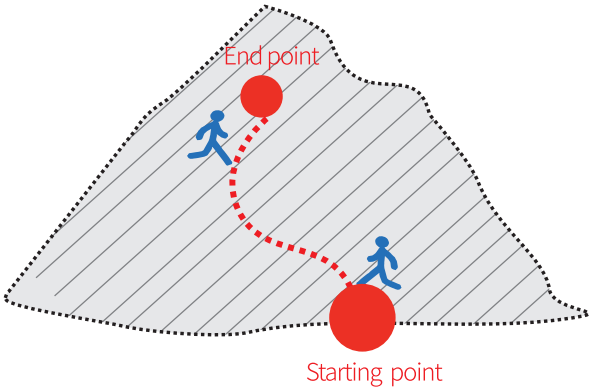
2.Walk along the measured route to the endpoint.

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Slope Distance Measurement

This mode is suitable for terrains with nearly flat surfaces and continuous slope variations.



1.Press the Start Stop button at the starting point to begin measurement.

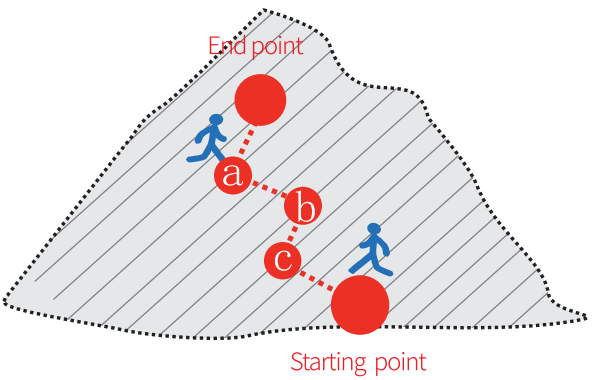
2.Walk along the measured route to the endpoint.

3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Fixed Point Slope Distance Measurement

This mode is suitable for measuring segment distances between the starting point and multiple points on a slope.



1.Press the Start Stop button at starting point A to begin measurement, and press OK button to save the starting point.

2.Walk along the measured route to the endpoint.

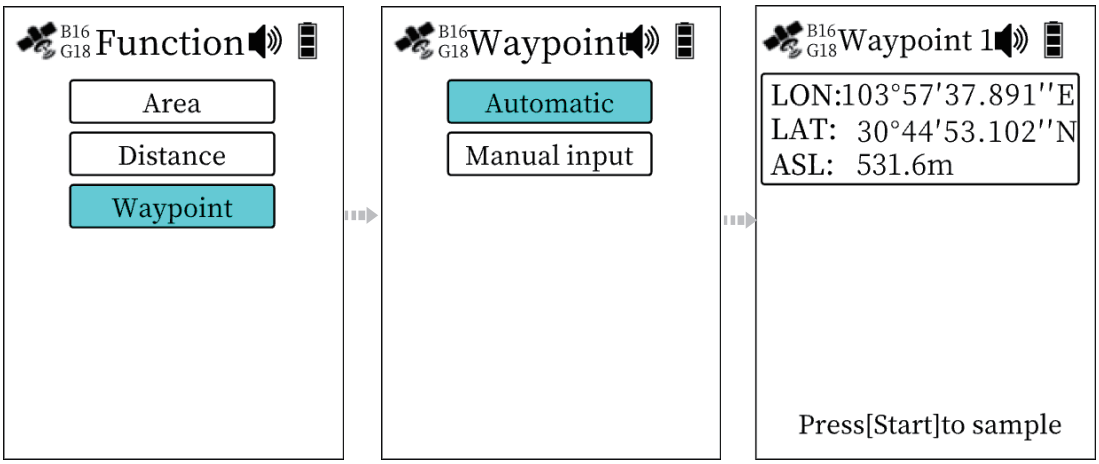
3.Press the Start Stop button to pause measurement and view data (note: press Start Stop again to continue measurement).

4.Press the ⏻/⮌ to save and exit the current measurement mode.

Waypoint

Waypoint is location information for important geographical points that are discontinuously recorded.

Automatic Waypoint Collection



1.Press the Settings button on the main interface to enter the settings menu.

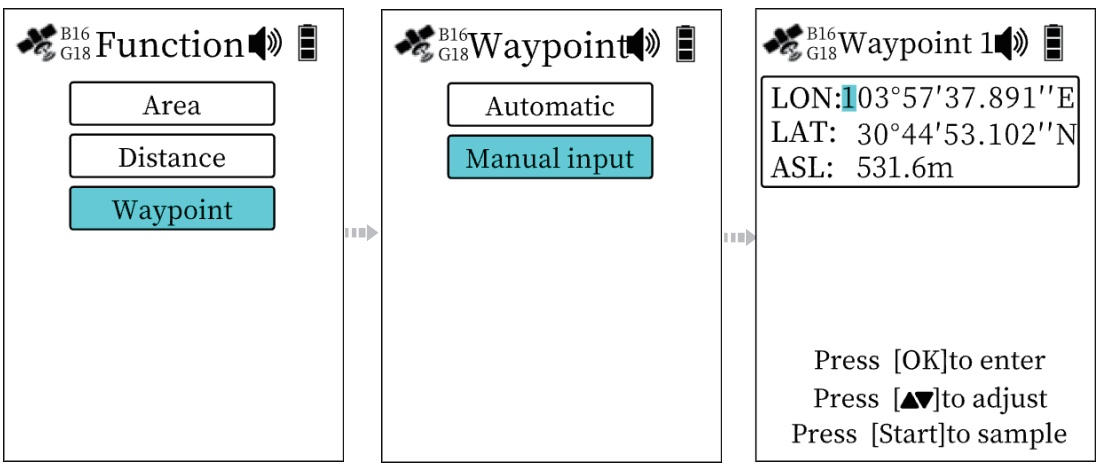
2.Use the up and down keys to navigate to [Function], then press OK to enter.

3.Use the up and down keys to navigate to [Waypoint], then press OK to enter.

4.Use the up and down keys to navigate to [Automatic], then press OK to enter the measurement interface.

5.Press Start Stop to begin collecting waypoints.

Waypoint Manual Input



1.Press the Settings button on the main interface to enter the settings menu.

2.Use the up and down keys to navigate to [Function], then press OK to enter.

3.Use the up and down keys to navigate to [Waypoint], then press OK to enter.

4.Use the up and down keys to navigate to [Manual Input], then press OK to enter the measurement interface.

5.Use the up and down keys to navigate to the parameter you need to adjust, press OK to enter or exit adjustment mode, and use the up and down keys to adjust the parameter.

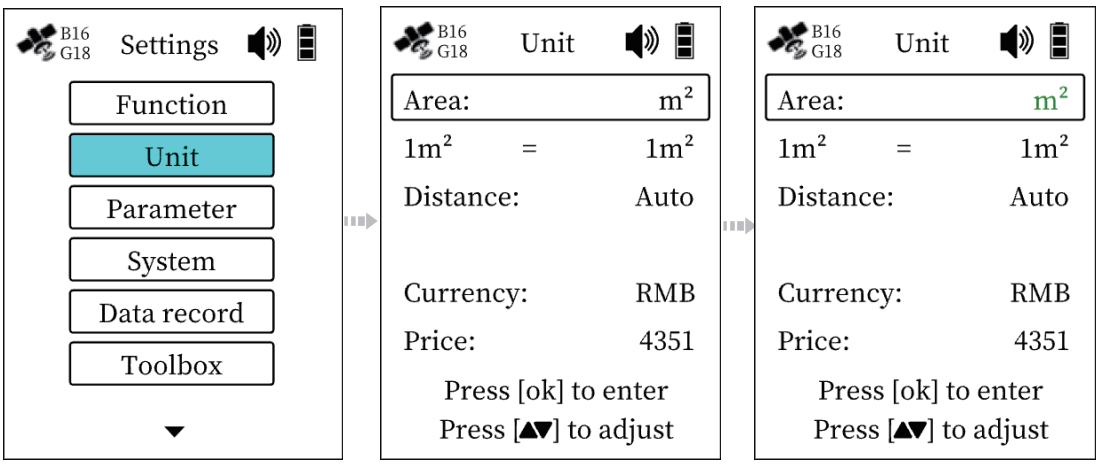
6.After adjustments are complete, press Start Stop to begin collecting waypoints.

Settings

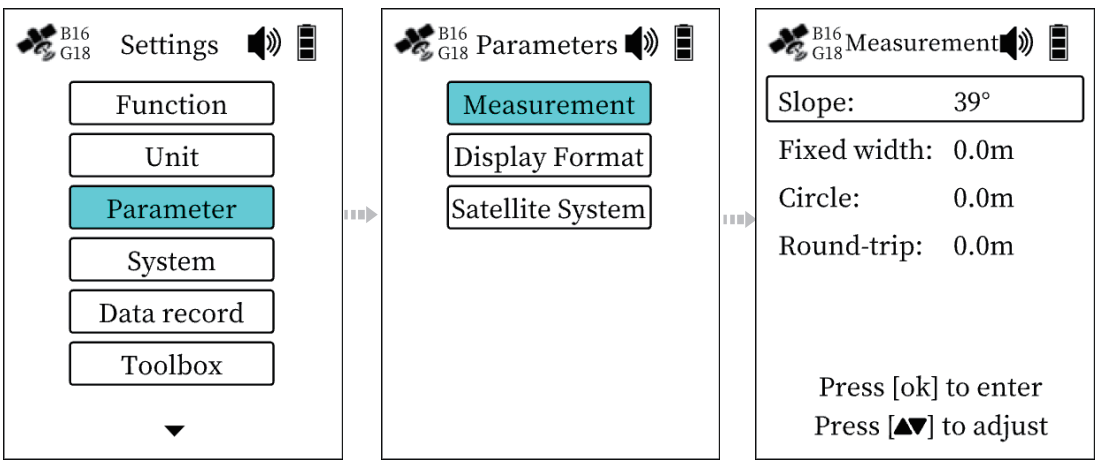
Press the Settings button to enter the settings interface.

Unit

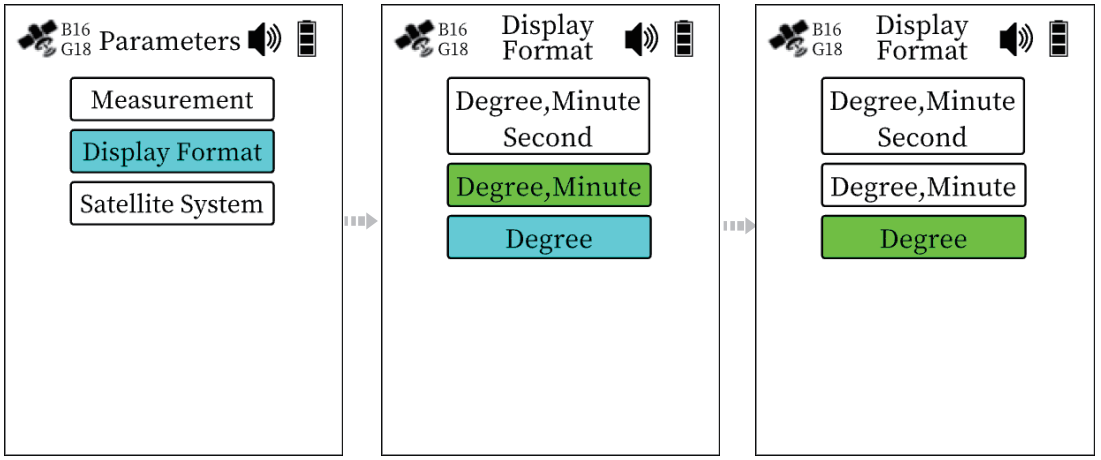
1.After setting, the measurement interface will display data in the selected units.
2.Recorded data will also display in the selected units.



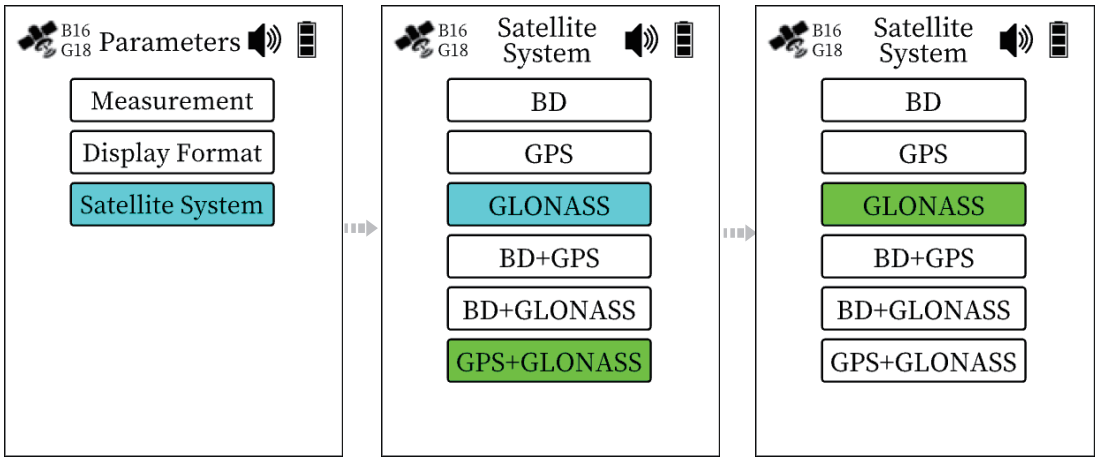
Parameter(Measurement)



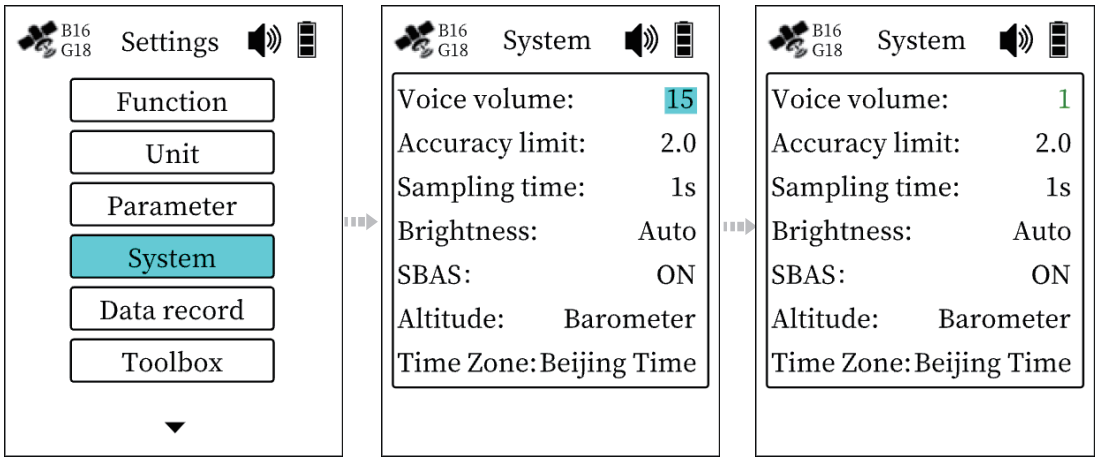
Parameter(display format)



Parameter(Satellite System)



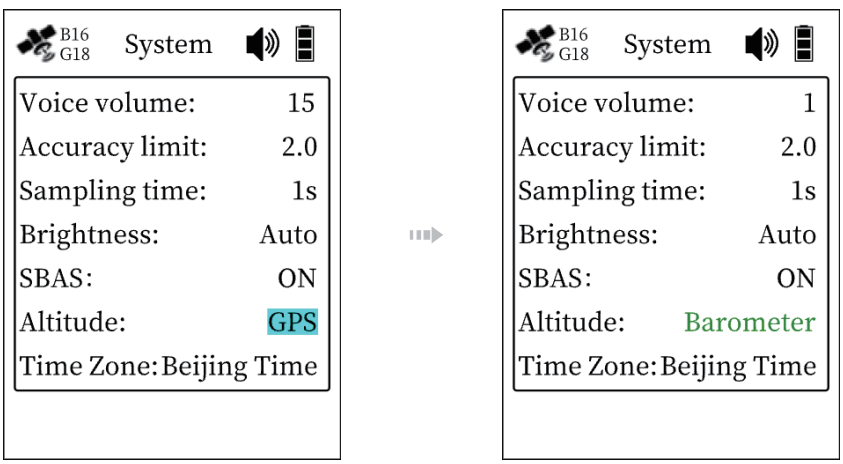
System



Barometer (Elevation Measurement)

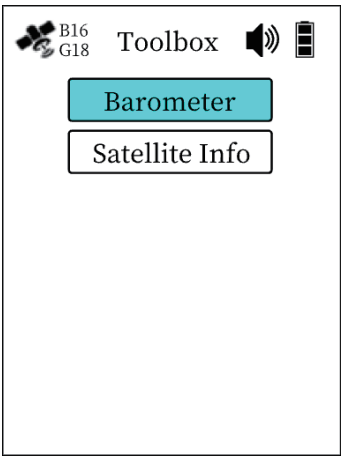
The barometer calculates the current altitude based on atmospheric pressure. It is applied in intelligent slope, intelligent mountain,normal slope distance, fixed point slope distance. It provides more accurate and reliable results compared to using GPS alone. Disabling the barometer can increase measurement errors in the mentioned functions.

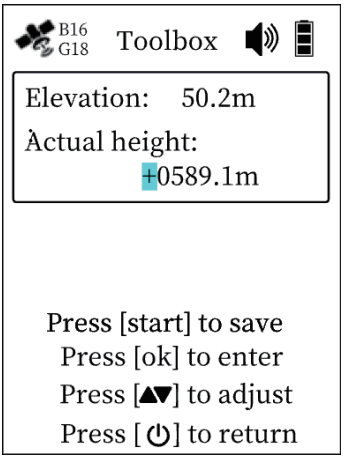
Before using the barometer function, ensure that [Altitude] mode is set to [Barometer] in [System].



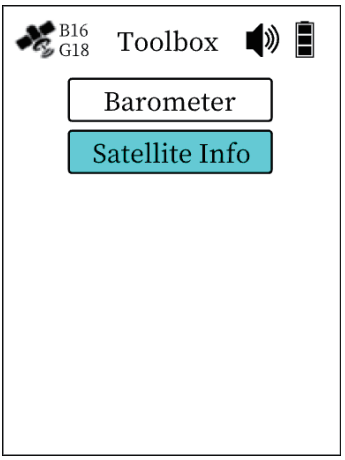
Barometer (Altitude Calibration)

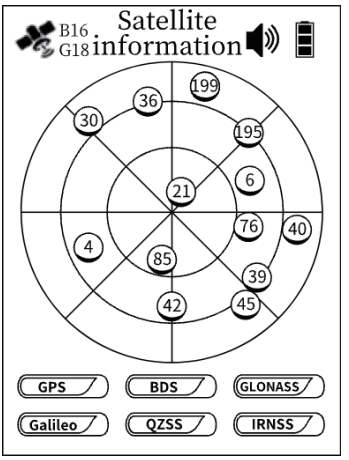
Altitude Calibration: Adjusting the barometer's pressure data to enhance the accuracy of altitude measurements.





Satellite Info





Factory Reset

Due to the fact that restoring factory settings will erase all data, it is essential to first back up important measurement data.

About This MAC

Information about the device includes viewing software versions and hardware models.

Data record

Press the Record key to access the recording functions, allowing viewing and management of area records, distance records, waypoint records, and imported records.

Data Export

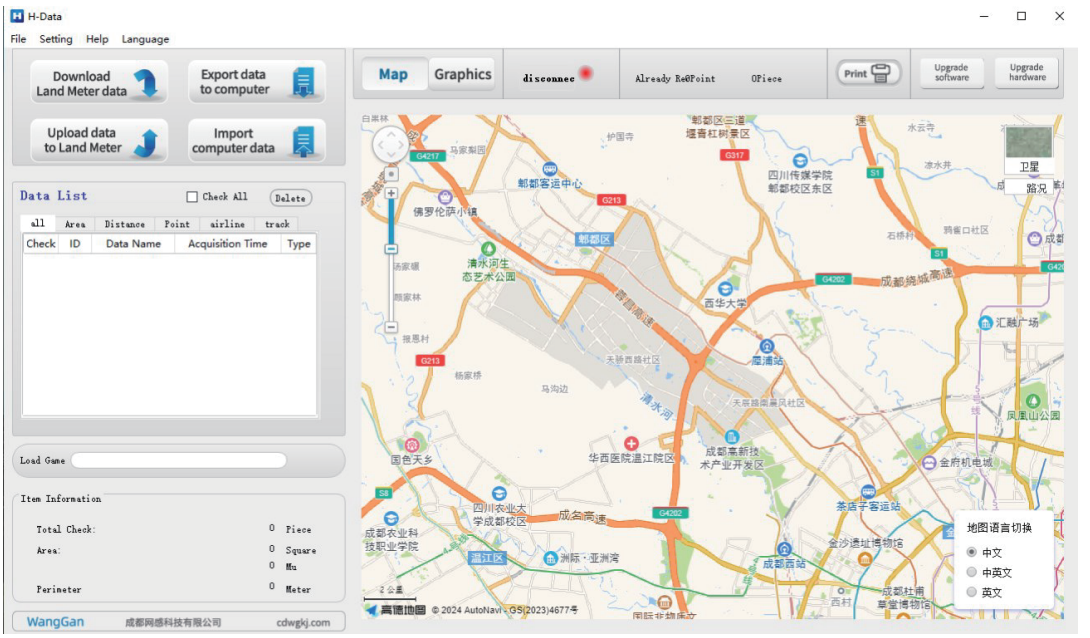
H-Data Office is an interactive data visualization tool used for collecting, storing, processing, and maintaining measurement data, enabling users to conveniently organize and manage data resources within the measuring device. Its main functions include reading measurement data, exporting in multiple formats, visualizing map data, and printing data.

Download Software Package:

https://cdwgkj.com/bindpro/download.html

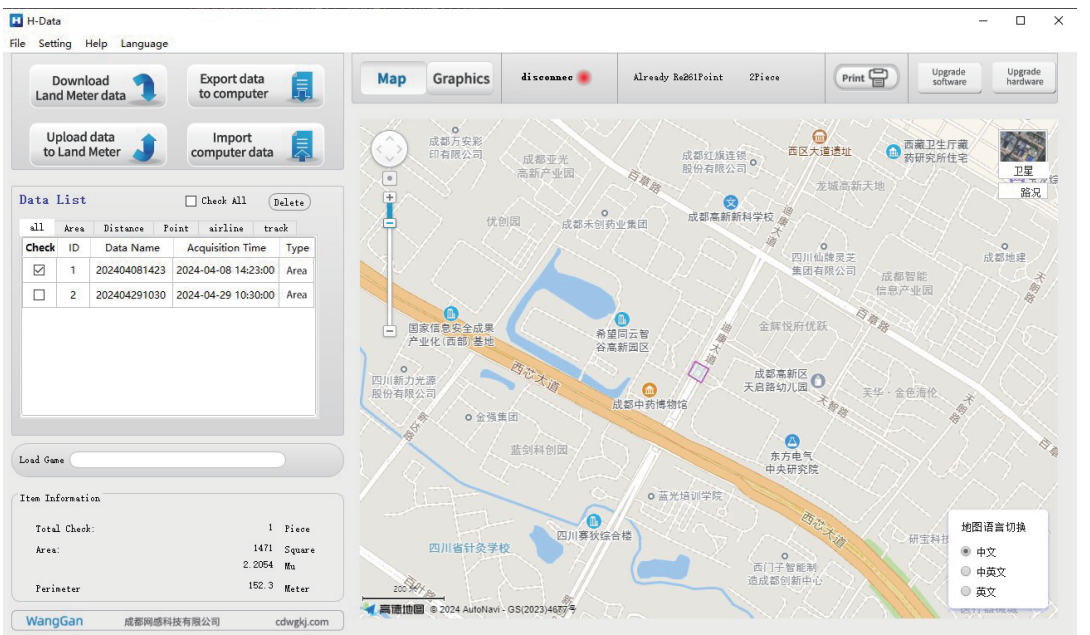
Connecting the Device

When the device is powered on and the main page is displayed, use the included Type-C data cable to connect the device to the computer.



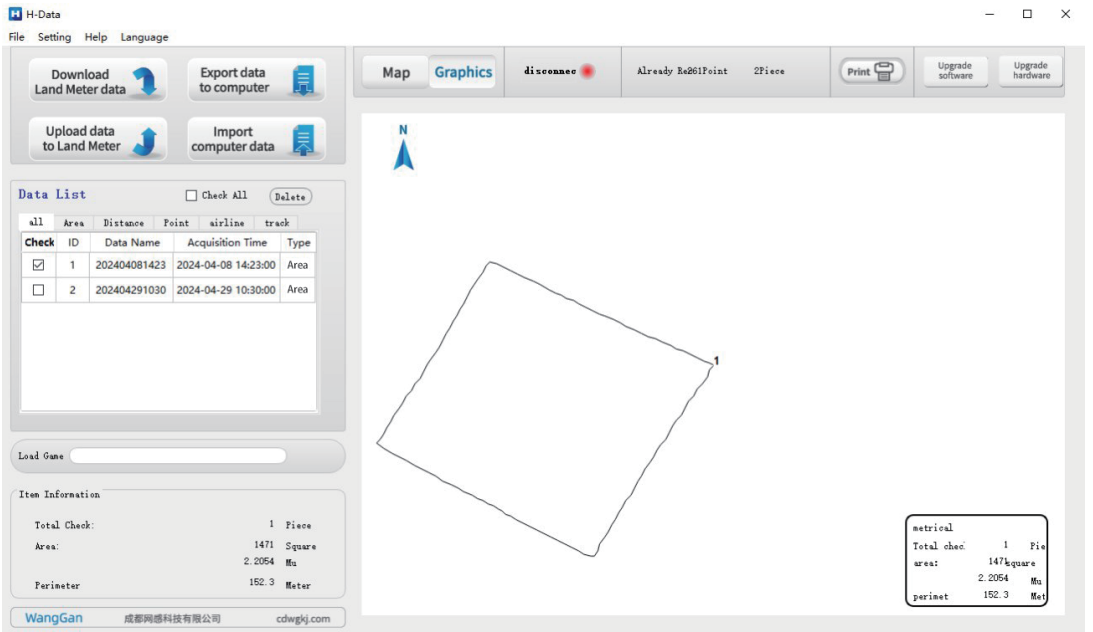
Reading Data

Click [Download Land Meter Data], wait for the land meter to upload all measurement data, and view it in the [Data List].



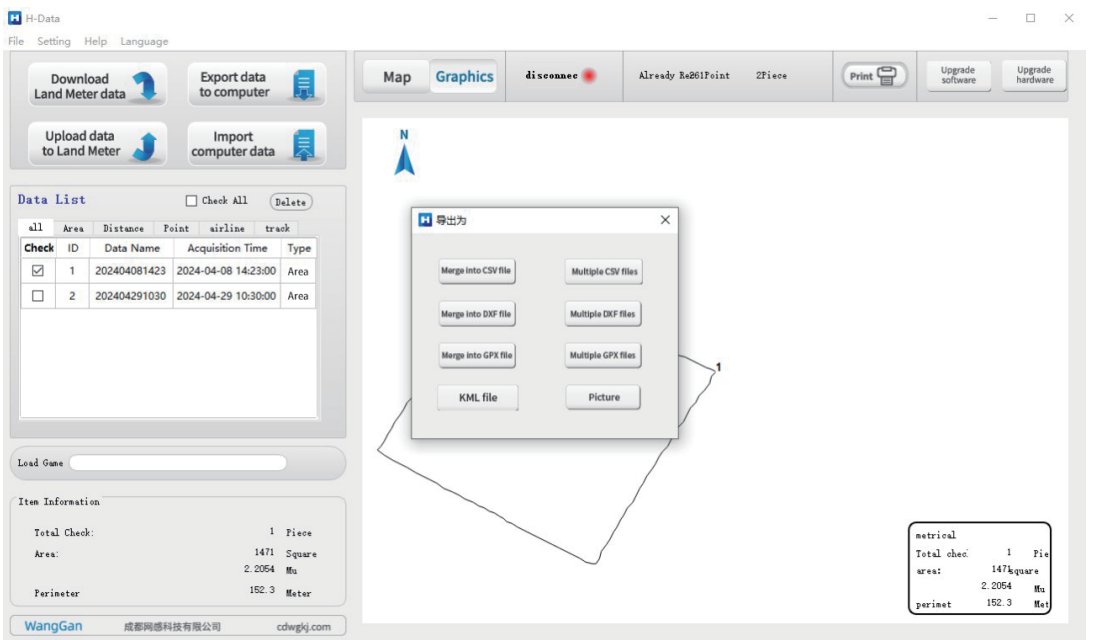
Viewing Graphics

Check the data in the [Data List], select the data, and click [Graphics] to display the measurement path graph.



Exporting Data

Click the [Export Data to Computer] button to export selected data to the computer. Export formats available include: CSV, DXF, GPX, KML, and images.



After-sales service

Thank you for purchasing the product, you will enjoy the following services:

1.Guarantee clause

Type	Guarantee	Serve
Handheld Measuring Product	One Year Warranty	Return to Depot Service

2.Details

The warranty is limited to the product host. If the equipment has performance issues within days of purchase and shows no signs of scratches, a replacement can be purchased. If you encounter problems during installation or use, you can first contact our after-sales team. An engineer will provide guidance over the phone to solve the issue.

Our company will repair the products that meet the warranty requirements free of charge. Products are guaranteed nationwide. No matter you purchase and use the product anywhere in the People's Republic of China (excluding Hong Kong, Macao and Taiwan) in case of hardware failure within the warranty scope, you can take the product to the after-sales service center or dealer to obtain warranty replacement and warranty service. The warranty period starts from the date of purchase.

3.Under any of the following circumstances, it does not belong to the scope of warranty

1.Beyond guarantee time
2.The customer disassembled or repaired it without permission
3.Man-made damage, shell or obvious scratches, damaged deformation
4.Failure caused by use in abnormal environments such as high temperature, high pressure and humidity
5.Damage caused by lightning, flood, earthquake or other natural disasters

4.Our company can provide paid repair service for products that are not covered by the warranty. After paid maintenance, the same performance problem will enjoy a free warranty period of three months from the date of maintenance

5.Other

The above service commitments apply only to our products sold overseas. For after-sales service terms separately agreed upon at the time of product sales, the confirmed contract shall prevail.

The Company reserves the right of interpretation and modification of this commitment

Product name: _____

Model: _____

Purchase time: _____

User name: _____

User address: _____

User telephone: _____

Agency address: _____

Agency telephone: _____

Profession cast accuracy Simplicity made efficiency