

Ground Detector MAC-GD



Shanghai Cross Stars Cultural Technology LLC., Co.



1. Product Introduction

The Ground Detector MAC-GD is mainly used to provide accurate location information for the project to planning the site boundary with the RTK module. It also collect the geomagnetic information to make sure that there is no interference here.

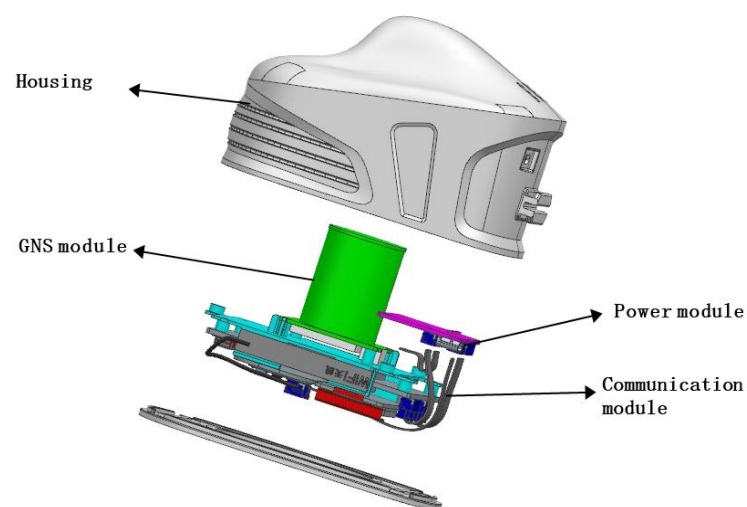
2. Product Main Characteristics

- Easy to carry and use with the small body.
- Easy to supply the power for the device such as the power bank.
- The WiFi module to transmit the information to the phone is used. We can view the information through the phone app easily and directly.
- The status LED: Indicate the power and function running.

3. Product Description

The Ground Detector MAC-GD uses the plastic material to make sure the signal quality of the GNSS system. Use the WiFi module to transmit the information to the phone, and We can view the information through the phone app easily and directly.

The MAC-GD weight is 186g and size is 104 * 79 * 66mm. It can be divided into the following parts, as shown in the following figure as below:



1. **Housing:** Use the plastic material to make sure the signal quality of the GNSS system.
2. **GNSS module:** It contains GNSS module and GNSS antenna, which supports GPS, BD and GLONASS satellite signals at the same time.
3. **Power module:** It converts to the power which the device needs.
4. **Communication module:** It contains the processing module and WiFi wireless module. The processing module deal with the received satellite signals and transmit the processed data through the WiFi module to the mobile phone.

4. Product Parameter Description

See the table below for detailed indicators of Ground Detectors:

Ground Detector MAC-GD product parameter table

Num	Detail Part	Parameter
1	Overall weight	186g
2	Size	104*79*66mm
3	Supply voltage	5V
4	Power	3W
5	Positioning accuracy	Horizontal: 1cm+1ppm Vertical: 1.5cm+1ppm
6	GNSS signal	GPS L1 /L2, BD B1/ B2/ B3, GLONASS G1/ G2
7	Wireless frequency	WIFI: 5.18-5.24GHz(MIC) 5.18-5.24GHz,5.745-5.825GHz(CE/UKCA/FCC) 2.412-2.462GHz(FCC) 2.412-2.472GHz(CE/UKCA/MIC)
8	Operating temperature	-20℃～55℃

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

NOTE: 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.

FCC Statement: 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.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

