

ZG Technology FREEBOX-II Affordable Wireless 3D Scanning Module



ZG Technology FREEBOX-II Affordable Wireless 3D Scanning Module User Manual

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Product Information

Specifications:

- **Battery:** Rechargeable
- **Toolkit:** Included
- **Battery Charger:** Included
- **Data Cable:** Included
- **WIFI ID:** Available
- **WIFI Passport:** Provided
- **IP Address:** Default IP – 192.168.77.1

Product Usage Instructions

Connection:

Battery Installation:

1. Install the battery pack into the cabinet of the wireless scanning module.
2. Secure the battery pack in the cabinet using screw nuts & Allen key.

FREEBOX-II Connection:

1. Plug the USB cable and power cable into the FREEBOX-II.
2. Plug the USB cable and power cable into the scanner.

Note:

Ensure proper connection as shown in the provided picture for the wireless module and scanner.

Wireless Module WIFI Connection:

1. Power on and select the WIFI corresponding to the wireless module in the computer WIFI list and click Connect.
2. Select "Connect using a security key instead" and enter the network security key: 12345678.
3. Configure the wireless working mode in the scanning software and restart for changes to take effect.

Charging Instruction:**Wireless Module Charging:**

1. Connect the charger with the power cable.
2. Connect the charger to the charging port of the wireless module.
3. Connect the power cable to a 100-240V power supply.

Wireless Module Battery Charging Status Indication:

1. The red light on the charger indicates charging.
2. The green light on the charger indicates charging is complete.

FAQ:**• Q: What should I do if I encounter issues during scanning?**

A: If you face problems such as software interface issues or laser line disappearance, try restarting FREEBOX-II, unplugging all data cables, and restarting the software. Follow the troubleshooting steps mentioned in the manual if needed.

• Q: How do I check the battery power level of the wireless module?

A: The battery icon will indicate the power level; five cells indicate full power, while one cell indicates low power. If needed, charge the wireless module following the provided charging instructions.

PRECAUTION**Device Maintenance**

The FREEBOX-II contains relays and wiring ports, so please avoid damaging its internal components and wiring ports. Please make sure FREEBOX-II is placed in a dry and dust-free environment at room temperature. Please place FREEBOX-II in the electrical control cabinet to prevent accidental touches. Please ensure the work environment is neat and set up orderly and the cable is placed well.

Equipment should always be stored in an environment that meets the following requirements

- **Operating temperature:** – 20 to 40°C (optimum operating temperature 20°C)
- **Humidity:** Relative humidity 10% to 90% (non-condensing)

Daily use

- Always place FREEBOX-II in a clean and dry environment;
- Avoid high temperature and high humidity working environments;
- Avoid splashing water, oil, and other substances on equipment;
- Do not immerse FREEBOX-II in water;
- Avoid falling and impacting FREEBOX-II;
- Avoid foreign bodies' contamination of FREEBOX-II;

Battery Maintenance

Battery maintenance is recognized as one of the important steps in ensuring the safe and efficient running of equipment. It is an essential component and needs to be powerful enough to provide the equipment with enough energy to meet the demands of the user. Proper maintenance of the battery can keep user operation running smoothly. However, the appropriate procedure for battery maintenance is often overlooked. Performing maintenance in the correct order is just as essential as the maintenance steps themselves when it comes to saving time, extending the lifespan of your battery, and protecting your equipment

Here are some battery maintenance tips to follow:

1. Fully charge the battery before use;
2. Don't stop the charging process. Cutting the charging cycle will shorten the lifespan of your battery;
3. Avoid frequent deep-discharges
4. Don't let a discharged battery sit for too long before you recharge
5. Don't allow the battery to drop below 20% capacity before charging.
6. Turn the power off and allow the battery to cool before removing it.
7. Avoid exposure to direct sunlight.
8. Be aware of the battery's temperature when charging. Excessive heat will shorten the battery lifespan.

INTRODUCTION

Product Snapshot



Label Information



Model:FreeBox-5GTM
SN:20200016
Input:24V \approx 1A
SSID:FreeBox-5G-16 \rightarrow WIFI ID
PSK:12345678 \rightarrow WIFI Passport
IP:192.168.77.1 \rightarrow IP Address
C:3200mAh
Apr.17th,2023

ZG
FC **CE** **RoHS**

ZG Technology Ltd.
www.zg-3d.com

Push Button Introduction

Push Button Introduction

1. Single press the power button to turn on the device.
2. Press & hold the power button for 3 seconds to turn it off.

Notice:

1. Once the scanning process is complete, please turn off FREEBOX-II in time to save the power.
2. Put the FREEBOX-II and add the back into the ring box and keep them well and in order.



CONNECTION

Battery Installation Introduction



Battery Installation:

1. Install the battery pack into the cabinet of the wireless scanning module.
2. To lock the battery pack well in the cabinet of the wireless scanning module by using screw nuts & Allen key.

FREEBOX-II Connection



FREEBOX-II Connection

1. Plug the USB cable and power cable into the FREEBOX-II;
2. Plug the USB cable and power cable into the scanner.

The connection between the wireless module the and scanner is shown in the below picture.



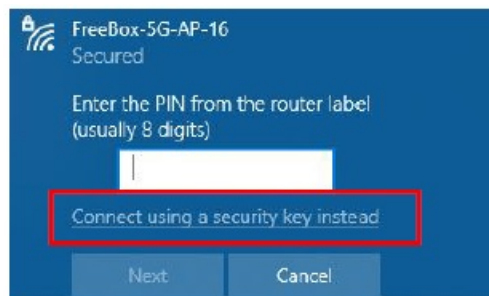
Wireless Module WIFI Connection

Wireless Module WIFI Connection:

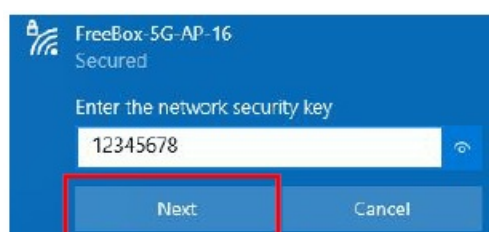
- **Step one:** Power on and choose the WIFI corresponding to the wireless module in the computer WIFI list and select “Connect”.



- **Step Two:** Select “Connect using a security key instead”.

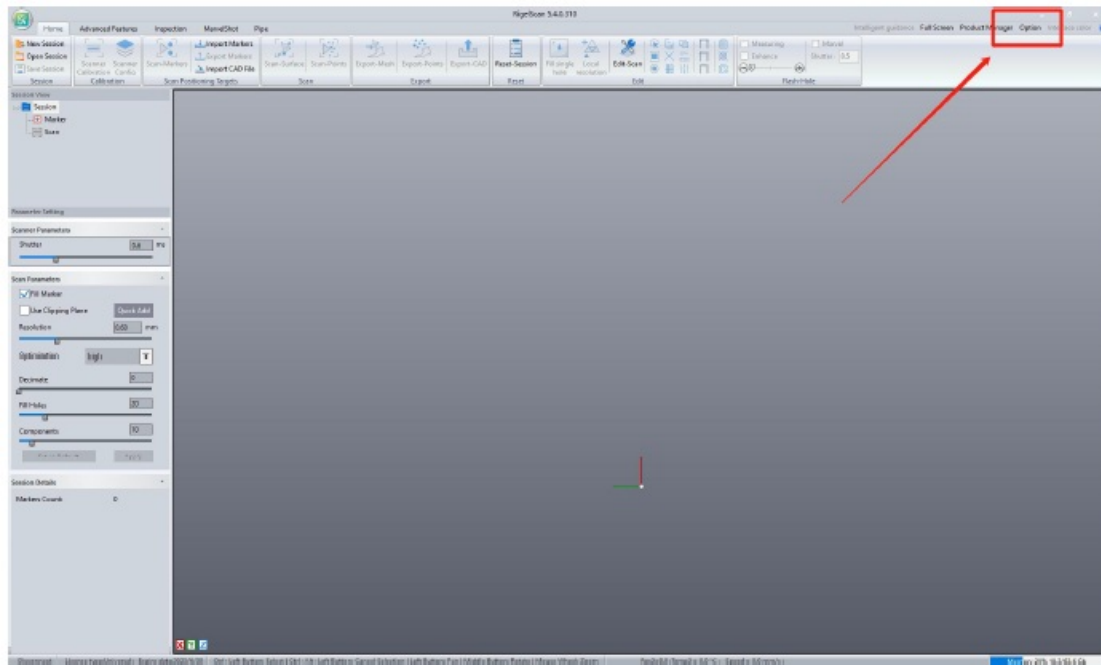


- **Step Three:** Enter the network security and connect to the WIFI of the wireless module.
 - **Security key:** 12345678

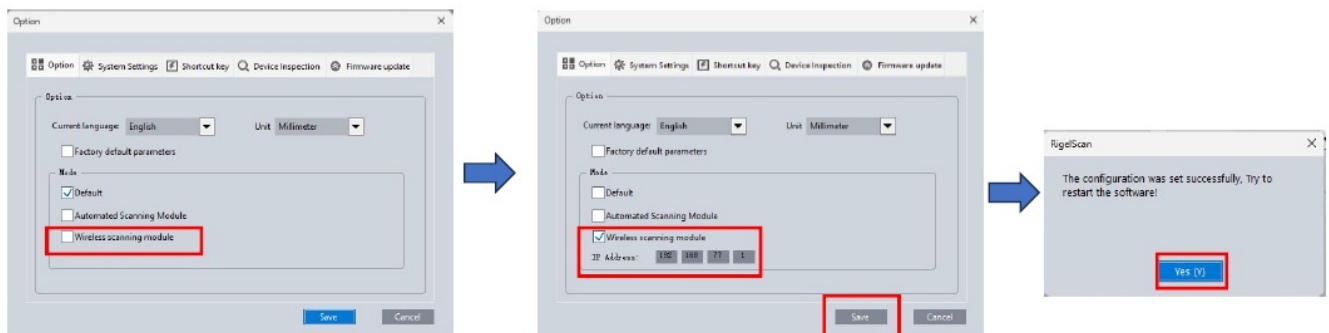


The wireless working mode of scanning software:

- **Step One:** Choose the “Wireless Working Mode” in the “Option”

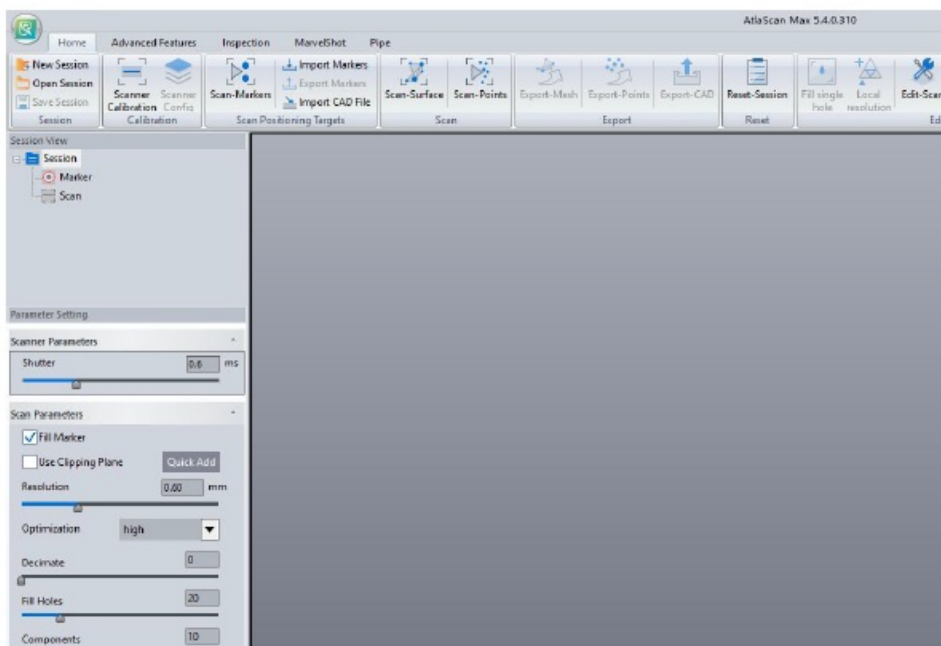


- **Step Two:** Select “Wireless scanning module” in “Option” and click on
- **Step Three:** The setting will take effect after restarting the scanning software.



Note: Do not change the default IP address of the scanning software (Default IP: 192.168.77.1)

- **Step Four:** Restart the scanning software and wait for the wireless module to connect;
- **Step Five:** When the scanning icons light up, the set-up of wireless working mode is complete.



CHARGING INSTRUCTION

Wireless Module Charging

Wireless Module Charging:

1. Connect the charger with the power cable
2. Connect the charger to the charging port of the wireless module;
3. Connect the power cable to the 100-240V power supply.



Battery Charging Status Indication

Wireless Module Battery Charging Status Indication:

1. When the charger turns red, the wireless module is charging;
2. When the charger turns green, the charging is complete.



Battery Power Display

The battery icon indicates the power level, five cells indicate full power, one cell indicates low power;

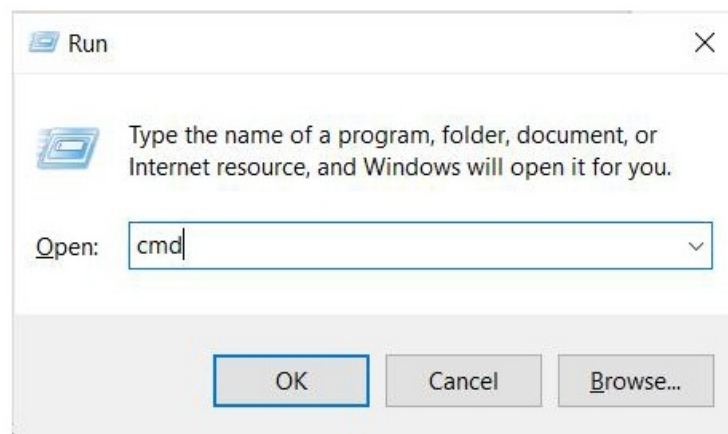


Troubleshooting

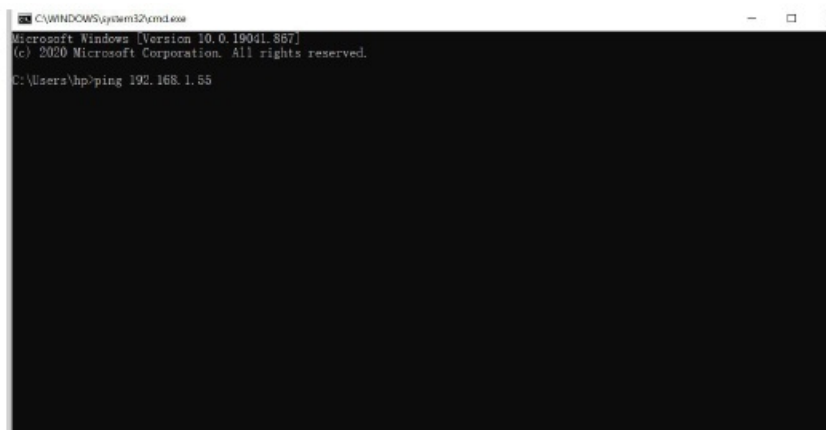
Network Connectivity

For checking the network condition.

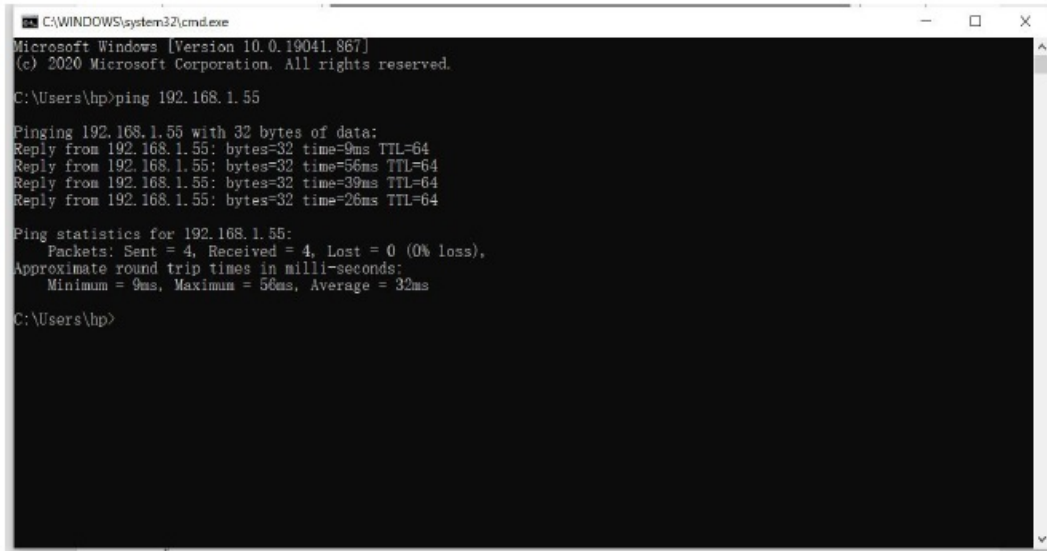
1. Click the “Windows”+” R” at the same time to run the code “cmd” on the interface;



2. Enter “ping-blank-IP address” on the code running interface. The entered IP address should be the same as the IP address on the FREEBOX-II label and the FREEBOX-II IP address shown in the software;



3. Connection status is correct



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

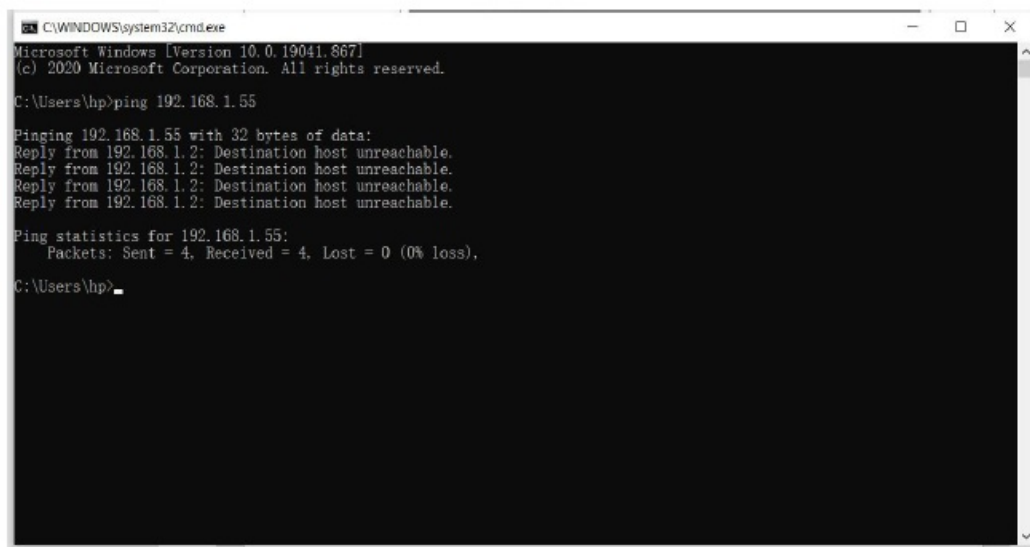
C:\Users\hp>ping 192.168.1.55

Pinging 192.168.1.55 with 32 bytes of data:
Reply from 192.168.1.55: bytes=32 time=9ms TTL=64
Reply from 192.168.1.55: bytes=32 time=56ms TTL=64
Reply from 192.168.1.55: bytes=32 time=39ms TTL=64
Reply from 192.168.1.55: bytes=32 time=26ms TTL=64

Ping statistics for 192.168.1.55:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 9ms, Maximum = 56ms, Average = 32ms

C:\Users\hp>
```

4. Connection status is incorrect



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\hp>ping 192.168.1.55

Pinging 192.168.1.55 with 32 bytes of data:
Reply from 192.168.1.2: Destination host unreachable.
Reply from 192.168.1.2: Destination host unreachable.
Reply from 192.168.1.2: Destination host unreachable.
Reply from 192.168.1.2: Destination host unreachable.

Ping statistics for 192.168.1.55:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\hp>
```

Software Function Check

If you encounter the following problems when scanning the surfaces or point clouds in the software, please restart FREEBOX-II, unplug all data cables from power sockets, and then restart the software:

1. The software interface exists. However, the number of frames does not increase
2. The laser lines disappear, and the software interface gets stuck
3. Software crashes after long-time scanning.

Wireless Working Mode

If the battery power display of the wireless module is shown as the left, please check the following equipment conditions:

1. Check the data cable connection between the scanner and the wireless module. If not connect well, unplug the data cable from the scanner and reconnect it;
2. Check whether the configuration files are added correctly



Wireless Working Mode

If the battery power display of the wireless module is shown as the left, please check the following equipment conditions:

1. Whether the scanning software has been activated;
2. Whether the computer is connecting to the corresponding WIFI;
3. Whether the setting of mode and IP address is correct (The correct setting is shown on the left)



☐ Factory default parameters

Mode

☐ Default

☐ Automated Scanning Module

☒ Wireless scanning module

IP Address:

FCC Statement

The Wireless Scanning Module has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 the receiver.
- Connect the equipment to 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.

Caution:

Any changes or modi?

cations to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

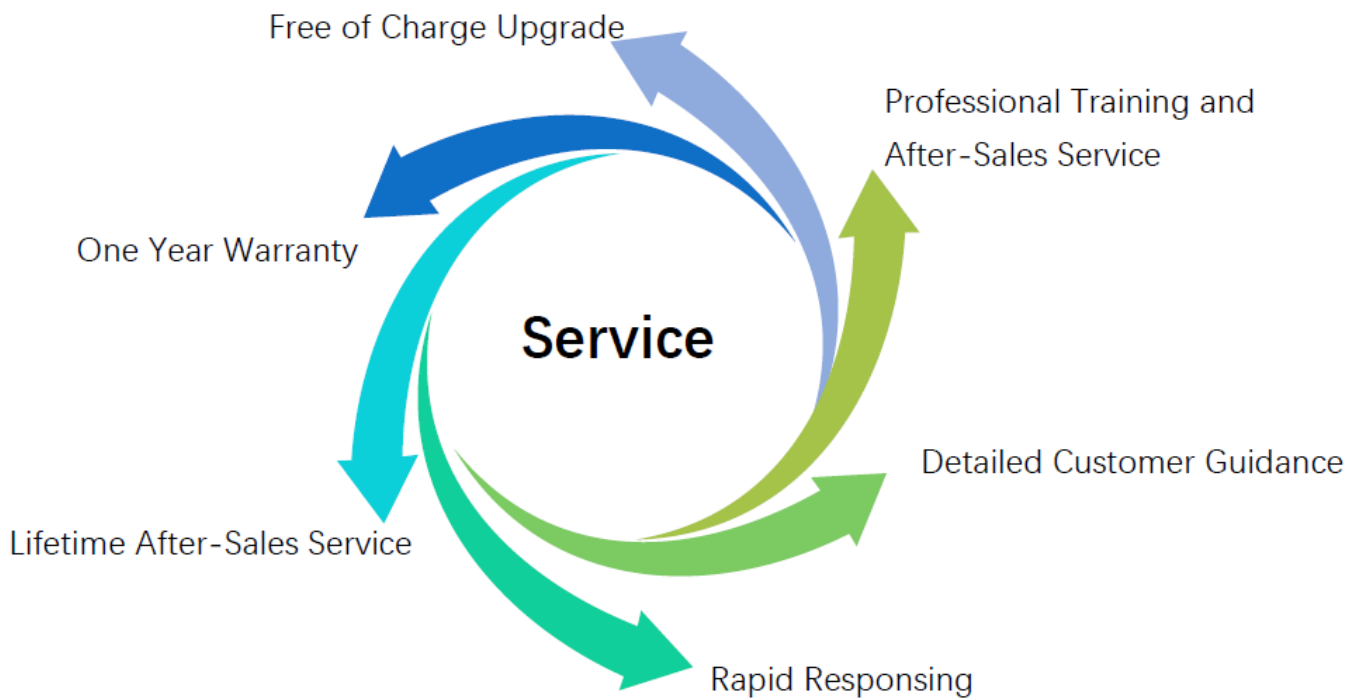
This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Specific Absorption Rate (SAR) information:

The Wireless Scanning Module meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement The SAR limit of the USA (FCC) is 1.6 W/kg averaging over one gram of tissue. Device types: Wireless Scanning Module has also been tested against this SAR limit.

This device was tested for typical body-worn operations with the back of the Wireless Scanning Module kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body and the back of the Wireless Scanning Module. The use of belt clips, holsters and similar accessories should not contain metallic components in their assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided.

SERVICE




THANK YOU!

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Documents / Resources

	ZG Technology FREEBOX-II Affordable Wireless 3D Scanning Module [pdf] User Manual FREEBOX-II, FREEBOX-II Affordable Wireless 3D Scanning Module, Affordable Wireless 3D Scanning Module, Wireless 3D Scanning Module, 3D Scanning Module, Scanning Module, Module
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References

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- [User Manual](#)

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