

Wireless Scanning Module

Model :	FREEBox-S, FREEBox-II
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1 Product Overview

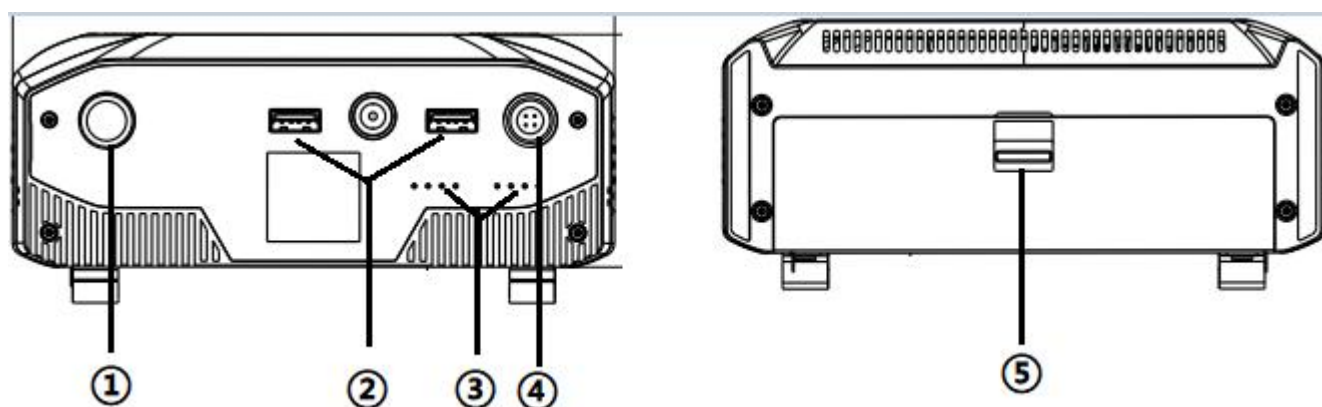
The FreeBox wireless module, a scanner accessory, utilizes WIFI6 technology to enable wireless transmission and processing of scanned data. This eliminates the limitations of traditional data cables on device stability and portability, allowing users to perform 3D scanning and modeling with true flexibility and convenience.

2 operational principle

The wireless module connects to the computer wirelessly, enabling real-time data transmission via WIFI6.



3 Product Components



① Power on/off ② Datatransfer port ③ Battery level display ④ Power port ⑤ Battery cover

4 Device Connection

4.1 Hardware Connection

Connect the wireless module to the device first, then start the wireless module.



4.2 Software Settings

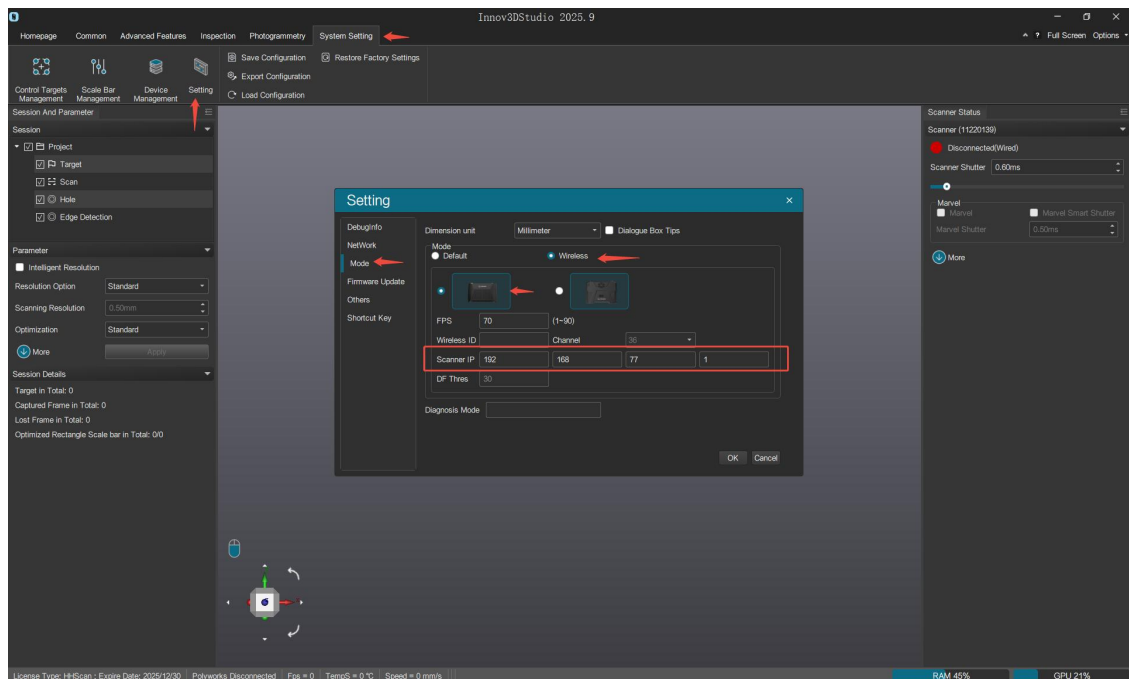
1. Connect the computer to FreeBox WiFi. Check the device label for the WiFi name and password (SSID)

and PSK).



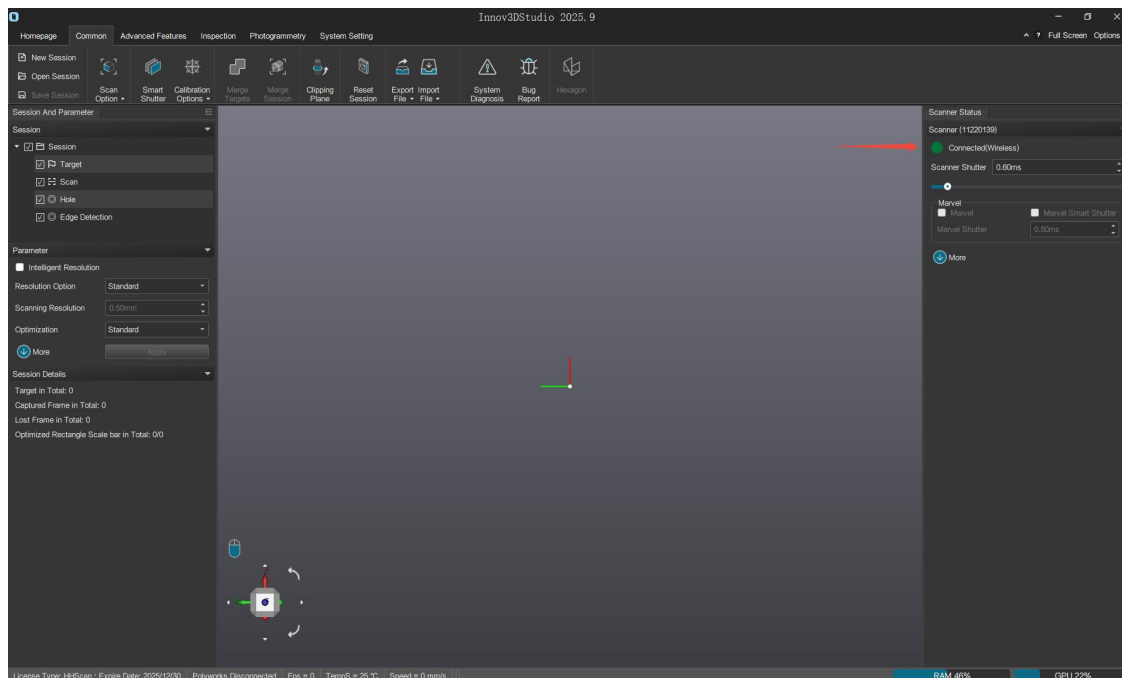
Note: The diagram is for reference only , Actual specifications are subject to the device label.

- Click the System Settings in the menu bar at the top left, then click the Setting button again.
- Change the connection mode from default to wireless. Enter the corresponding IP address (See device label for details.)





After setup, the software displays a successful connection and you can start scanning.



5 Wireless Language

Intelligent voice has powerful speech recognition technology, which can accurately convert our voice into device commands to control various operations of the device, such as calibration, scanning, etc. This function greatly facilitates user operation and improves the efficiency of use.

5.1 Voice Wake

On the near-wireless device, say the wake word "Xiaoguan, Xiaoguan" and then say the voice command.

5.2 Voice Commands

The supported voice commands are as follows: After waking up the device, say the following commands.

Order Number	Language Instructions	Voice Response
1	HI-HYPER	Hello
2	SCAN-TARGETS	Targets scanning
3	TARGETS-SCAN-SURFACE	HandleSurface scanning
4	TARGETS-SCAN-POINT-CLOUD	Handle Point Cloud Scanning
5	PAUSE	Scanning Stopped
6	FINALIZE	Scanning Completed
7	RESET-SCAN	Scan Data Reset
8	RESET-TASK	Task Reset
9	EDGE-DETECTION	Edge Scanning
10	HOLE-FLASH-CAPTURE	Hole Capture
11	STANDARD	Standard Mode
12	FINE-SCAN	Fine Mode
13	SINGLE-LASER	Single Laser Mode
14	LONG-RANGE	Long Range Mode
15	CALIBRATE-SCANNER	Scanner Calibration
16	INCREASE-SHUTTER	Shutter Increased
17	DECREASE-SHUTTER	Shutter Decreased
18	VIEW-ENLARGE	Zoom Increased
19	VIEW-REDUCE	Zoom Decreased
20	LOCK-VIEW	View Locked

21	RESTORE-DEFAULT-VIEW	View Restored
22	FULL-SCREEN	Enter Full Screen
23	QUIT-FULL-SCREEN	Exit Full Screen

6 Wireless Mode Notes

 Instructions	Equipment Precautions ● This device supports only the 5GHz WiFi bands B1 and B2 for wireless connectivity, other frequency bands are not currently compatible. ● The device is designed for industrial use only and is not suitable for commercial or household use. ● The device's WiFi technology is only used for interactive transmission with the computer, and it can be used normally even without connecting to the Internet. ● The device's load is compatible with any other handheld devices from our company (AtlaScan, RigelScan, CereScan, MarvelScan), not limited to the illustrated devices.
	Service Environment ● Use a computer with a WiFi6 or higher wireless network card. ● Multiple devices running simultaneously may cause channel signal interference. To ensure stable and reliable signal transmission, avoid enabling multiple devices at the same time. ● The same set of wireless devices is designed to support only one computer connection. Therefore, multiple computers are not allowed to connect to the same set of devices at the same time to avoid connection failures or other anomalies.
	Environmental Requirements

	● Working temperature: -10~35°C ● Working humidity: 10~90%RH
	USB Output ● Voltage: 5V ● Current: 1A Max ● For data transfer only
	Storage and Transportation ● If the battery is not used for more than 10 days, discharge the battery to 40% to 65% to prolong the battery life. ● Do not store the battery for a long time after it is completely discharged, so as to avoid the battery entering the state of over discharge, which will cause the damage of the battery cell and can not be restored. ● If the battery power is severely low and the battery is idle for a long time, the battery will enter the deep sleep mode. If you need to wake up the battery from the deep sleep mode, you need to charge the battery. ● If you need to store the battery for a long time, remove the battery from the wireless module.
	Discard ● If the battery cannot be completely discharged due to the failure of the power switch, do not directly discard the battery in the battery recycling box. Contact a professional battery recycling company for further processing. ● Replace the battery when the battery life is 0%.
	Equipment Maintenance ● Do not overcharge the battery, otherwise it will cause damage to the cell. ● If the battery is idle for a long time, its performance will be affected. ● Recharge and discharge every three months or so to keep the battery active.

Battery warning  Caution	Prevent Short Circuits ● Do not short circuit the positive (+) and negative (-) terminals of the battery to avoid leakage, heating, fire or explosion. ● Do not store or transport batteries with metal objects (such as keys, coins) to prevent short circuit. Prevent Accidental Overcharging ● Use the charger to charge the battery. Avoid High Temperatures and Fire Sources ● Do not put batteries in fire or heat, otherwise they may explode. ● Do not expose the battery to high temperatures (such as in a car under the hot sun) or near a heat source. Prevent Disassembly and Damage ● It is strictly prohibited to disassemble, impact, squeeze or puncture the battery. The internal chemical substances are highly corrosive and may cause burns if touched. ● Do not let the battery be subjected to strong impact or fall from a height.
	Caution ● Risk of fire or explosion if the battery is replaced by an incorrect type. ● A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas. Use only power supplies listed in the user instructions; Adapter Model(s): GSM90A24, Made By: MEAN WELL ENTERPRISES CO.,LTD.
	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.
- Caution: Any changes or modifications to this device not explicitly approved by 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: (1) 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:

This device 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 USA (FCC) is 1.6

W/kg averaged over one gram of tissue. Device types: the device has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the device kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the device. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.