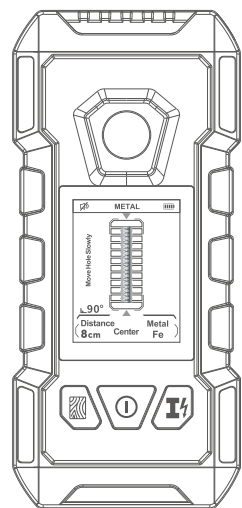


Wall Detector

NF-5105



Dear user, thank you for purchasing this product. Please read the instructions carefully before use.

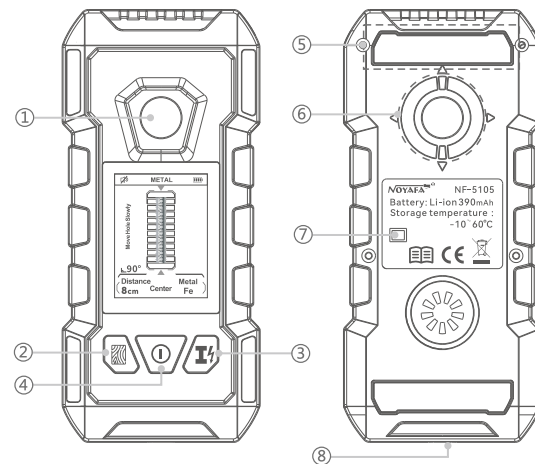


Please read the safety precautions Carefully before using or servicing this product.

- This detector is used to find metal (magnetic metal/non-magnetic metal), wooden beams and live wires hidden in walls, ceilings and floors.
- The instrument is powered by a polymer lithium battery. If it is not used for a long time, it is recommended to charge the instrument every 6 months.
- Do not place the instrument in dusty, humid or high temperature (above 40°C) places.
- If the device is exposed to environments with large temperature differences, wait until the device returns to normal temperature before using it.
- Do not disassemble the instrument by yourself. Repair and maintenance must be performed by professionals.

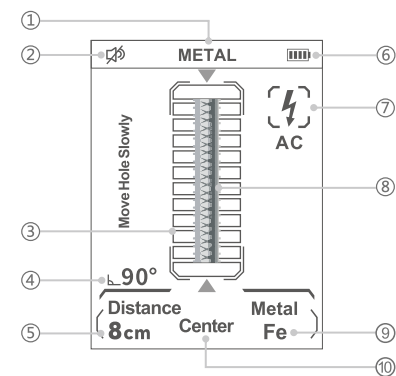
Product Introduction

1. Part name and function



①	Detection and Positioning Hole	⑤	Alternating Current Detection Area
②	Wood Detection Mode/Silent Mode	⑥	Metal and Wood Detection Area
③	Metal/Alternating Current Detection Mode	⑦	Wall-mounted Sensor
④	Power Button	⑧	Type-C Charging Port

2. Display interface



①	Detection Mode: Metal Detection/ Alternating Current Detection/Wood Detection	⑥	Battery Level
②	Silent Mode	⑦	Alternating Current Prompt
③	Signal Intensity Indicator Bar	⑧	Schematic Diagram of the Detected Object
④	Horizontal Angle	⑨	Type of the Detected Object: Magnetic/Non-magnetic Metal, Live Wire, Bone Position
⑤	Target Distance/ Signal Intensity	⑩	Center Positioning Prompt

Product Function Instructions

1. Power On/Off and Silent Mode

- Press and hold the "①" button to power on/off the device;
Press and hold the "⚡" button to turn off/on the sound.

2. Introduction to Detection Modes

This instrument has three detection modes:

Metal Detection (Magnetic Metal≤10cm, Non-magnetic metal≤8cm);
Alternating Current Detection≤5cm;
Wood Detection≤3cm.

When detecting different objects, different detection modes need to be selected to achieve the best detection effect.



2.1 Metal Detection Mode

It is used to detect steel bars, metal keels, metal pipes, etc. inside the wall. (Detection depth: Magnetic Metal≤10cm, Non-magnetic metal≤8cm)

- ① The metal detection mode is the default mode when the device is powered on, or press the "⚡" button to enter the metal detection mode.
- ② When the instrument beeps twice, it indicates that the calibration is completed and the detection begins.
- ③ When a metal object is detected, "magnetic" or "non-magnetic" will be displayed in the lower right corner of the screen, the signal intensity indicator bar will gradually increase, and the instrument will emit a "beep-beep-beep" alarm sound. The closer it is to the metal object, the stronger the signal response.

2.2 Alternating Current Detection Mode

It is used to detect live wires inside the wall (Detection depth $\leq 5\text{cm}$)


- ① In the metal detection mode, press the button to enter the alternating current detection mode; press the "" button again to switch back to the metal detection mode.
- ② When the instrument beeps twice, it indicates that the calibration is completed and the detection begins.
- ③ Use the "Alternating Current Detection Area" at the top of the instrument for detection. When a live wire is detected, the icon "" will be displayed in the upper right corner of the screen, the signal intensity indicator bar and the percentage value will gradually increase, and the instrument will emit a "beep-beep-beep" alarm sound. The closer it is to the live wire, the stronger the signal response.

Attention

The alternating current detection is easily affected by the environment. For example, if the wall surface is coated with conductive wallpaper/paint, or the humidity of the wall surface is too high, it may lead to the failure of detecting the wires inside the wall.

2.3 Wood Detection Mode

It is used to detect wooden beams, water-filled pipes, etc. inside the wall (Detection depth $\leq 3\text{cm}$)

- ① After powering on, press the "" button to enter the wood detection mode.
- ② Press the instrument tightly against the wall. When the instrument beeps twice, it indicates that the calibration is completed and the detection begins.

The wood detection must be carried out with the instrument tightly against the wall. After the instrument is lifted, this step needs to be repeated.

- ③ When a wooden beam/water-filled pipe is detected, the signal intensity indicator bar and the percentage value will gradually increase, and the instrument will emit a "beep-beep-beep" alarm sound; the closer it is to the wooden beam/water-filled pipe, the stronger the signal response.

3. Detection Operation Instructions

3.1 Locate the Center of the Object

When the instrument detects a metal/wooden beam/live wire, move the instrument back and forth within a range of about 5cm at the current position to locate the center point of the detected object.

When the detection area of the instrument is at the center of the detected object, the signal intensity indicator bar is fully filled, the percentage value is 100%, and the "Center" positioning prompt text appears at the bottom of the screen.

3.2 Unfavorable factors affecting measurement accuracy during detection

- There is a strong magnetic field or electric field interference near the instrument.
- Building materials containing metal components, conductive carpets, wallpaper, tiles, etc.
- Detect the material and size of the object.
- Detect surface material, conductivity/magnetic conductivity, water content, etc.
- Air temperature is too high.

Accessory List

Host	1pcs	Color Box	1pcs
User Manual	1pcs	Cable	1pcs
Lithium Battery Precautions Card	1pcs	Certificate	1pcs

Note: The manual is for reference only. It is subject to change without prior notice. The actual product shall prevail.

Technical Parameters

Technical Parameters	
Product Model	NF-5105
Product function	Metal Detection, Alternating Current Detection, Wood Detection
Screen type	2.0" TFT Color Screen
Battery Type	3.7V 390mAh Polymer lithium battery
Charging Method	Type-C
Charging Power Supply	DC5V1A
Product Size	140x64x29mm
Product Weight	115g
Protection Level	IP 54
Wall detection function	
Metal Detection	Magnetic Metal $\leq 10\text{cm}$
	Non-magnetic metal $\leq 8\text{cm}$
Alternating Current Detection	$\leq 5\text{cm}$
Wood Detection	$\leq 3\text{cm}$
Automatic Shutdown	10 minutes after no operation
Operating Temperature Range	0°C~50°C
Storage temp	-10°C~60°C

Common fault checklist

Fault conditions	Possible causes and solutions
Can't power on	If the battery is low, connect the charger to charge the instrument and see if the screen lights up. If it lights up normally, it means the circuit is normal. Keep charging until the instrument is fully charged.
No response to Timber detection	The instrument is not attached to the wall. This mode must be used close to the wall.
	If the wall is black or too dark, change to a light-colored position or place a piece of light-colored paper on the wall for calibration and detection again.
The signal strength fluctuates violently, and it is impossible to determine whether there is a detection object.	The wall detection sensor window on the back of the machine is covered, causing wall detection errors. Please clean the sensor with a soft and dry cloth.
	Affected by strong electromagnetic interference, eliminate nearby instruments that may emit strong electromagnetic interference, such as another detector, motor, fan, mobile phone/walkie-talkie, etc.
	The ambient humidity/temperature changes dramatically. Avoid using the instrument near electric heaters, air conditioners, kettles, rice cookers, etc., where cold or hot air currents are likely to be generated.

 Note: The above list may not be complete. If other unrecorded faults occur, please contact customer service for consultation.



深圳市诺方舟电子有限公司

编号	201	202	301	302	303	304	305	比例:	1:1	品号:	304-E2601-0008
类目	塑胶件	五金类	镜片	PVC贴纸	不干胶贴	说明书	包装盒	单位:	mm		
选择						√		设计	CZG	品名:	NF-5105说明书折页英文-V1 20250303
306	307	308	309	310	311	312	313	核准			
彩卡	吸塑	工具包	PE袋	纸箱	宣传单	合格证	打印标签	标准:	√	文件类型:	做货文件
								定制:			
制作日期	2025.03.03		样式	5折页		印刷材质		128g双铜纸			
印刷要求	单色		页码			变更记录					
尺寸大小	450*130mm		版本	V1							