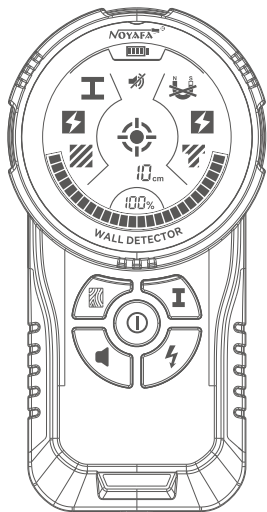


Wall Detector

NF-5102



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

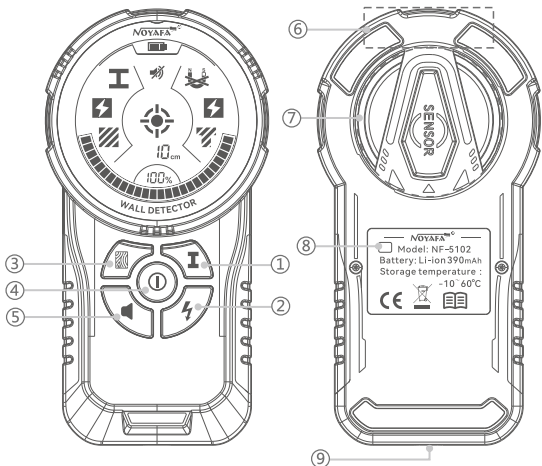


Please read the safety precautions Carefully before using or servicing this product.

- 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.

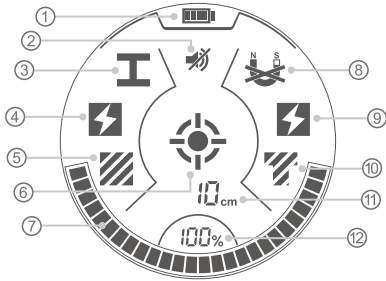
Product Introduction

1. Part name and function



①	Metal Detection Mode	⑥	AC detection area
②	AC detection mode	⑦	Metal and wood detection area
③	Timber detection mode	⑧	Wall sensor
④	Power button	⑨	Charging port
⑤	Mute button		

2. Display interface



①	Battery level	⑦	Signal Strength Bar
②	Mute	⑧	Magnetic/non-magnetic metals
③	Metal Detection Mode	⑨	Live wires
④	AC detection mode	⑩	Wooden beams, water pipes, etc.
⑤	Timber detection mode	⑪	Depth distance
⑥	Center positioning icon	⑫	Signal strength percentage

Product Function Description

1. Power on/off/mute

Long press the "①" button to turn on/off.

Short press the "🔊" button to turn off/on the sound.

2. Detection Mode Introduction

This instrument has three detection modes:

Metal Detection (Magnetic Metal≤10cm, Non-magnetic metal≤8cm);
AC detection≤5cm;
Timber detection≤3cm.

To detect different objects, different detection modes need to be selected to achieve the best detection depth.

2.1 Metal Detection Mode

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

- ① The default metal detection mode is on when the device is powered on, or you can press the "🔍" key to enter the metal detection mode. The icon "I" will be displayed on the left side of the screen.
- ② The instrument beeps twice, indicating that the calibration is complete and detection begins.
- ③ When a metal object is detected, the icon "⚡" or "🔍" will be displayed in the upper right corner of the screen, the signal strength indicator bar and percentage value will gradually increase, and the instrument will emit a beeping alarm. The closer to the metal object, the stronger the signal response.

"⚡" indicates magnetic metal (such as steel bars);

"🔍" indicates non-magnetic metal (such as steel pipe).

2.2 AC detection mode

For detecting live wires in walls (Detection depth≤5cm)

- ① Press the "⚡" key to enter the AC detection mode. The icon "⚡" will be displayed on the left side of the screen.
- ② The instrument beeps twice, indicating that the calibration is complete and detection begins.
- ③ Use the AC detection area on the top of the instrument to detect. When a live wire is detected, the icon "⚡" will be displayed on the right side of the screen, the signal strength indicator bar and the percentage value will gradually increase, and the instrument will emit a beeping alarm. The closer to the live wire, the more rapid the sound will be until it becomes a long beep.

⚠ Attention

AC detection is easily affected by the environment. For example, if the wall surface is coated with conductive wallpaper/ paint, or the humidity on the wall surface is too high, the wires inside the wall may not be detected.

2.3 Timber detection mode

Used to detect wooden beams, water pipes, etc. in the wall (Detection depth≤3cm)

- ① After powering on, press the "📄" key to enter the wood detection mode, and the icon "📄" will be displayed on the left side of the screen.
- ② Place the instrument close to the wall. The instrument will beep twice, Indicating that the calibration is complete and detection begins.

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

- ③ When a wooden beam or water pipe is detected, an icon "📄" will be displayed on the right side of the screen, the signal strength indicator bar and the percentage value will gradually increase, and the instrument will emit a beeping alarm; the closer to the wooden beam or water pipe, the stronger the signal response.

3. Detection Operation Instructions

3.1 Locate object center

When the instrument detects metal/wooden beams/live wires, it will probe back and forth within about 5cm of the current position to locate the center point of the object being measured.

When the instrument detection area is at the center of the object being measured, the signal strength indicator bar shows full grid, the percentage value is 100%, and the center positioning icon "🎯" appears on 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.

Accessories 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-5102
Product function	Metal detection, wood detection, AC detection
Screen type	VA Display
Battery Type	3.7V 390mAh Polymer lithium battery
Charging method	Type-C
Charging power supply	DC5V1A
Product dimensions	142x73x28mm
Product Weight	152g
Protection Level	IP 54
Wall detection function	
Metal Detection	Magnetic Metal≤10cm
	Non-magnetic metal≤8cm
Timber detection	≤3cm
AC detection	≤5cm
Auto shut down	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 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.
The signal strength fluctuates violently, and it is impossible to determine whether there is a detection object.	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.

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编号	201	202	301	302	303	304	305	比例:	1:1	品号:	304-E2501-0008
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-5102说明书折页英文-V1 20250103
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		2025.01.03		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						