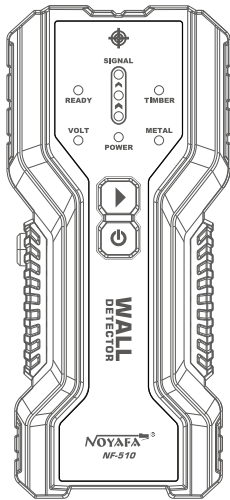


Wall Detector

NF-510



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

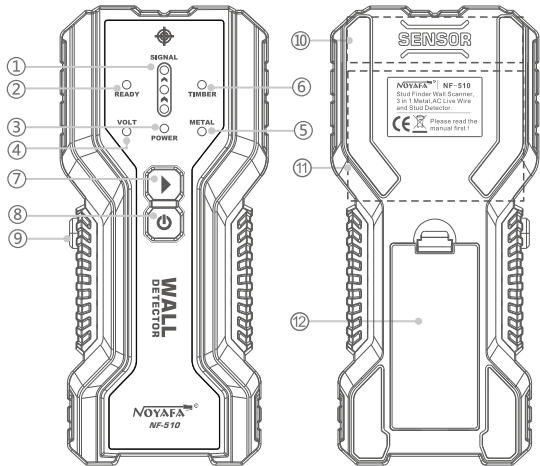


Please read the safety precautions Carefully before using or servicing this product.

- This detector is only used to find metal, wooden beams and live wires hidden in walls, ceilings and floors.
- The instrument is powered by 9V battery. When not in use for a long time, please remove the battery to prevent battery damage and leakage.
- Do not place the instrument in dusty, humid or high temperature places.
- If the device is exposed to environments with large temperature differences, wait until the device returns to normal temperature before using it.
- Please don't disassemble the instrument by yourself. Repair and maintenance must be performed by professionals.

Product Introduction




1. Part name and function



①	Signal strength indicator light	⑦	Detection mode switch key
②	Calibration complete indicator light	⑧	Power button
③	Power indicator light	⑨	Calibration button
④	AC detection	⑩	AC and Metal Detection Areas
⑤	Metal Detection	⑪	Timber detection area
⑥	Timber detection	⑫	Battery cover

Product Function Description

1. Key Description

- Long press the "  " key to turn on/off.
- Short press the "  " key to switch detection mode.
- Long press the "  " key to calibrate the data and start detecting.

2. Detection Mode Introduction



This instrument has three detection modes:

AC detection $\leq 3\text{cm}$;
Metal Detection $\leq 3\text{cm}$;
Timber detection $\leq 3\text{cm}$.

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

2.1 AC detection mode

For detecting live wires in walls (Detection depth $\leq 3\text{cm}$)

- ① The power-on mode is set to AC detection mode by default, and the AC indicator light is on.
- ② Long press the "  " key, the instrument beeps twice, and the ready indicator lights up green, indicating that the calibration is complete. Keep pressing the "  " key to start detection.
- ③ Use the "SENSOR" area on the top of the instrument to detect. When a live wire is detected, the signal strength indicator gradually lights up and the instrument emits a beeping alarm. The closer to the live wire, the stronger the signal response.






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.


2.2 Metal Detection Mode



Used to detect steel bars, metal keels, metal pipes, etc. in the wall. (Detection depth: ≤3cm)

- After turning on the machine, short press the " " button to switch to metal detection mode, and the metal indicator light will light up.
- Long press the " " key, the instrument beeps twice, and the ready indicator lights up green, indicating that the calibration is complete. Keep pressing the " " key to start detection.
- When a metal object is detected, the signal strength indicator light gradually lights up. The closer to the metal object, the more lights will light up. When two or three lights are on, the instrument alarm will sound for a long time.

2.3 Timber detection mode

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

- After turning on the power, short press the " " button to switch to the wood block detection mode, and the "wood block" indicator light will light up.

- Place the instrument close to the wall, press and hold the " " key, the instrument will beep twice, and the ready indicator will light up green, indicating that the calibration is complete. Keep pressing the " " key to start detection.

Note: The wood block detection must be carried out close to the wall.

- When a wooden beam/wooden block is detected, the signal strength indicator light gradually lights up. The closer to the wooden beam/wooden block, the more lights will light up. When three lights are on, the instrument alarm will sound for a long time.

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 response is the strongest.

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.

4. Low battery reminder

The power indicator light keeps flashing, indicating that the battery is too low. Please replace the battery in time.

Technical Parameters

Technical Parameters	
Product Model	NF-510
Product function	AC detection, Metal detection, wood detection,
Battery Type	DC 9V Battery
Product dimensions	156x71x29mm
Product Weight	185g
Wall detection function	
AC detection	≤3cm
Metal Detection	≤3cm
Timber detection	≤3cm
Low battery reminder	√
Auto shut down	3 minutes after no operation
Operating temperature range	0°C~50°C

Accessories List

Host	1pcs	Color Box	1pcs
User Manual	1pcs	Certificate	1pcs

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

Common fault checklist

Fault conditions	Possible causes and solutions
Can't power on	The battery is loose/falls off, open the battery cover and reconnect the battery
	The battery is low, please replace it with a new one
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.	Affected by strong electromagnetic interference, eliminate nearby interference sources, such as another detector, motor, fan, microwave oven, 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-E2901-0008
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-510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 (较于打样文件, 更新参数)
								定制:			
制作日期		2025.01.03		样式	4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		360*130mm		版本	V1						