Multifunctional Wall Detector

NF-513

User manual

Please read the manual carefully before use

VER:V1

Welcome to use the multi-function measuring instrument. Please be sure to read this manual and operating instructions in detail, and be able to operate in accordance with manual method , so that the best functions of the instrument can be exerted. Please keep the operating manual properly.

Note: The human body is a conductor, and touching the detection area with your hands will affect the detection depth of the instrument.For the best detection effect, please use the instrument according to the schematic diagram

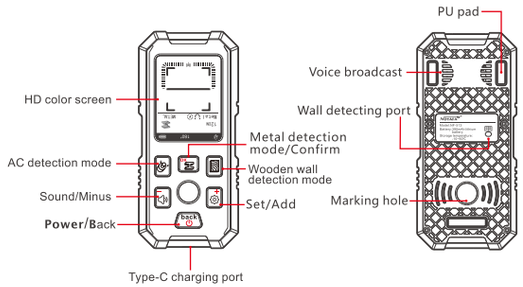
(1) Safety Warning

1. Before using this product, please be sure to carefully read all the safety matters and operating instructions . Failure to follow these safety matters and operating instructions may result in laser radiation injury, electric shock, or personal injury.
2. To repair the instrument without authorization, if the instrument is damaged, please contact your local dealer.
3. Electromagnetic radiation may cause interference to other equipment and devices. (Such as: pacemakers or hearing aids and other medical devices).
   - ✪ Do not use this instrument in a flammable or explosive environment.
   - ✪ Do not use this instrument near medical equipment.
   - ✪ Do not use this instrument on airplane.
4. Please dispose of discarded instruments in accordance with your local laws and regulations.

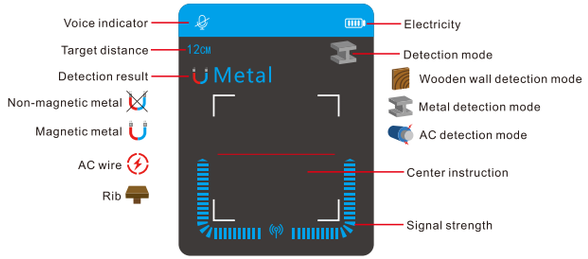
(2) Product overview

The instrument can detect metal (rebar, copper pipe) hidden in walls, ceilings and floors, live wires, bone positions under wooden walls, etc. It is widely used in interior decoration, home installation and other industries, all kinds of construction can be carried out safely.

(3) Button and function description



(4) Description of UI and icon



(5) Operating instructions

1. Power

Power on, when the instrument is off, press back and hold for 1 second to power on.

Power off, when the instrument is turned on, press back and hold for 1 second to turn off.

2. Metal detection mode

Boot into metal detection mode by default. In the non-metal detection mode, short press the to enter the metal detection mode; it has the functions of locating metal, depth indication, and identifying metal properties. It is used to detect magnetic and non-magnetic metal, and not affected by the characteristics of the wall.

Step 1: Properly hold the instrument close to the area to be measured, and move the instrument slowly in the area to be measured. When the instrument detects a magnetic metal or non-magnetic metal, the screen displays "metal", attribute icon, strength of the received signal, and target metal distance instrument depth information. When the sound is on, the instrument will make a “di” sound after it shows “metal”. The closer the detected target metal is to the instrument, the stronger the signal, and the more rapid of the sound.

Step 2: Center judgment. Move the instrument slowly, when the signal is stronger, it means the detected target metal is closer to the sensing area of the instrument. When the signal reaches a certain intensity or the strongest, the center mark of the screen base lights up, and the target metal is positioned below the sensing area of the instrument.

*After detecting the metal, you can also move slowly through different directions and use the signal bar to become stronger to weaker to stronger to locate the target metal position.

3. AC detection mode

In the non-AC detection mode, short press the to enter the AC detection mode. This mode is only suitable for scanning live wires.

Properly hold the instrument close to the area to be tested. If found the wired wire, live icon and the received signal strength will appear on the display. When the sound is turned on, the "AC" will be broadcast followed by a "di" sound; there must be more detect the change location back and forth in order to determine the location of the live wire. The closer the instrument is to the live wire, the stronger the signal and the more rapid of the sound.

4. Wooden wall detection mode

In the non-wood wall detection mode, short press the " " button to enter the wooden wall detection mode; the wooden wall detection mode judges the uniformity of the detected target material by scanning to locate the hidden other objects. Such as detecting behind plasterboard walls, bare wood floors, plywood, coated wood walls, etc., including wooden stalls, light steel keels, etc. It is strongly recommended to press the hand-held schematic diagram to hold the instrument close to the target surface and move slowly. When it is detected, it will be reported by "bone position", displayed in text, and displayed by signal bar.

There are two operation modes for wood wall detection: automatic calibration detection mode With manual calibration detection mode.

Automatic calibration detection mode

Step 1: Place the instrument close to the detected target surface according to the hand-held schematic diagram, and the instrument will perform automatic calibration. After the calibration of the instrument is completed, move the instrument slowly in the area to be measured. When a foreign body is detected, the screen will display "bone position" and receive Information such as signal strength. When the sound is turned on, the instrument will emit a "di" sound after broadcasting the "bone position". The closer the sensing area of the instrument is to changes in materials such as bone or grooves or the location of foreign objects, the stronger the signal, and the more rapid the "di" sound;

Step 2: Center judgment, continue to move the instrument slowly, when the signal reaches a constant intensity, it means that it has reached the target center position, and the center mark of the screen lights up.

Step 3: Lift the instrument to terminate the scanning detection and enter the interface to be calibrated. Close to the surface of the detected target again, recalibration and detection can be performed.

Manual calibration detection mode

Each time you enter the wooden wall detection mode, the default is the automatic calibration detection mode. After close to the surface of the detected target, when the color of the detected target surface is dark and cannot be calibrated, short press the " " button to enter the manual calibration detection mode to force the instrument to calibrate. After the calibration is completed, slowly move the instrument in the area to be measured to scan detection.

Notice:
1. Because the human body has conductor properties. Slightly stay away from the sensing area during use.
2. When the manual calibration detection mode is executed, short press the "WOOD" button with your fingers and please quickly leave the sensing area of the instrument to avoid misjudgment.
3. When the "bone position" is detected, it can move slowly back and forth, and locate the foreign body more accurately through information such as the signal bar.

5. System setting

Short press to enter the system setting interface, the system setting interface can set the detection sensitivity of the instrument, calibrate the metal detection mode and view the signal version information of the instrument.

Set sensitivity

Short press to select the sensitivity setting, short press to enter the sensitivity setting interface, you can set the sensitivity of the three detection modes separately, in the sensitivity setting interface, short press the to select the setting item, short press to adjust the sensitivity, short press back to return.

Metal detection mode calibration

Large-scale changes in the temperature or humidity of the environment where the instrument is located will cause false alarms in metal detection or shorten the detection depth.。

Short press to select metal detection mode calibration, short press to enter the calibration interface, short press to start calibration, and short press back to exit the calibration interface after the calibration is completed.

Note: When calibrating, please make sure that there is no interference of metal and strong magnetic field around(such as lifting in the air) press the to calibration. If the calibration process fails, please recalibrate.

About this machine

Short press to select About , short press to enter, and then you can view the instrument model, software version, and hardware version information on this interface. Short press back to exit.

(6) Product technical parameters

Technical parameter	
Product model	NF-513
Product function	Wall detection function
Product appearance	Two-color mold, tough
Screen type	2.4-inch high-definition color screen, Resolution 240*320
Charging method	Support Type-C charging
Battery type	Polymer lithium battery (390mAh)
Voice broadcast	Live voice broadcast
Product size	63*25*139 （mm）
Product weight	200 （g）
	Wall detection function
Depth measurement	Magnetic metal: 8cm
	Non-magnetic metal: 8cm
	Live (AC) wire: 5cm
	Wood: 3.8cm
Metal detection	Depth value is based on the φ20mm standard steel pipe. Only for reference (Note: The error of the depth indication is for reference only)
Non-metal detection	√
AC detection	√
Automatic shutdown	5 minutes
Operating temperature	0℃~50℃
Storage temperature	-10℃~60℃

(7) Fault code description

Code	Reason	Solution
220	Low battery	Please charge
300	Hardware failure	The instrument still appears after turning off/on many times, please contact your dealer

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编号	201	202	301	302	303	304	305	比例:	1:1	品号:	
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-513说明书折页英文-V1 20240509
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	2024.05.09	样式	4折页	印刷材质	128g双铜纸
印刷要求	彩色	页码	8P	变更记录	
尺寸大小	360*130mm	版本	V1		