FNIRSI 菲尼瑞斯



USER MANUAL | 使用手册

WD-01

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一、用户须知

›请详细读完本使用说明书以及操作指示，并且要确实遵守文件中的规定，如此才能够发挥探测仪的最佳功能

›请妥善保存本使用手册

›不要在易燃、易爆的环境中使用仪器

›仪器更换的废旧电池和报废的仪器不可与生活垃圾一同处理，请按国家或者当地的相关法律规定处理

›当仪器出现任何质量问题或者对使用仪器有疑问时，可联系“菲尼瑞斯-FNIRSI”在线客服或厂家，我们将在第一时间为您解决

二、产品概述

【2.1】功能介绍

本探测仪可以探测隐藏在墙壁、天花板和地板中的金属（钢筋、铜管）、电缆；石膏板下的木梁、金属、电缆

【2.2】规格参数

▲ 基本参数

电池：	3.7V 300mAH	机身尺寸：	138*68*22mm
使用时间：	约2小时	自动关机时间：	约5分钟

▲ 最大探测深度

含铁金属	120毫米
非铁金属（铜）	100毫米
交流电	50毫米
单股铜导线（≥4平方毫米）	40毫米
异物（一般指木档）	EXACT模式20毫米/DEEP模式38毫米
注：探测结果会受探测物体的材质和大小，以及探测表面的材质和状态等因素影响；如果电缆不带电的话，探测深度会减小	

▲温湿度范围

工作湿度	金属模式下	0~85%RH
	异物模式下	0~60%RH
	交流电模式下	0~30%RH
工作温度	-10度~50度	
储藏温度	-20度~70度	

【2.3】按键功能



① 显示界面

② 黄色指示灯

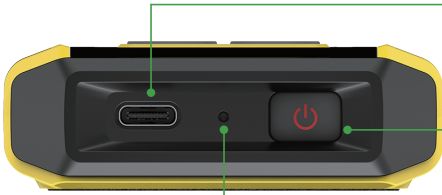
③ 红色指示灯

④ 探测区域中心(可通过中心孔标记位置)

⑤ 绿色指示灯

⑥ 金属和电缆探测按钮

⑦ 异物探测(一般指木档)按钮,长按可切换EXACT模式/DEEP模式

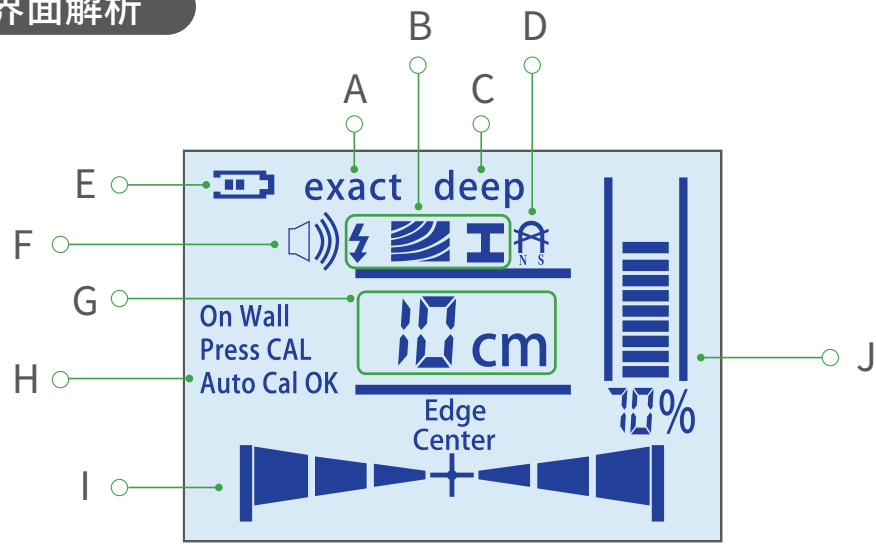


⑧ Type-C充电接口,充电时“③红色指示灯”亮,充满“⑤绿色指示灯”亮

⑨ 开/关按键

⑩ 复位孔

【2.4】界面解析



A. “异物探测”模式下的精确模式(精确模式下最大探测深度为20mm)

B. 当前探测模式,依次为交流电、异物(一般指木档)及金属

C. “异物探测”模式下的深度模式(深度模式下最大探测深度为38mm)

D. 磁性或非磁性显示图标

E. 当前电池电量显示

F. 声音图标(可同时按下“⑦异物探测”和“⑥金属和电缆探测”按钮关闭或开启声音)

G. 金属探测深度显示区(此深度是指:探测区域中心点到被测物的距离)

H. 木材探测准备提示(贴墙校准,校准完成)

I. 表明被测物的边界(Edge)到探测仪中心(Center)的距离,金属模式下仅显示中心(Center)图标,交流电模式下不显示

J. 探测信号强度显示区

三、注意事项

› 请使用接口为Type-C ,电压输出5V且电流≥500mA的安全充电器充电,因充电器引起的事故本公司概不负责

› 启动探测仪之前,请确保探测区域上没有水分,必要时可用布擦干探测仪

› 不能让湿气渗入探测仪中,不能让让阳光直接照射在探测仪上

› 如果探测仪先暴露在温度差异极大的环境中,必须等待探测仪的温度回升之后,才可以启动探测仪

› 在探测仪附近使用或操作微波炉等发射设备会影响探测结果

› 基本而言,探测的结果多少会受到周围环境因素影响。所谓周围环境因素是指探测时,仪器是否靠近会产生强大磁场或电磁场的机器。此外,湿气,带金属的建材,覆铝的绝缘材料,导性佳的壁纸,具备传导能力的地毯或瓷砖都会影响探测结果。因此在墙板、天花板和地板上钻孔,锯割之前,一定要注意有关的资料说明(例如建筑图)

› 如果墙壁包含带电电线,请勿采取可能危险的措施。在钻孔或钉钉等穿透墙体表面之前,请先关闭电源,煤气和水

› 为获得最佳扫描效果,使用探测器时,请避免佩戴戒指或手表等首饰,金属可能导致检测不准确;将工具均匀地移动在墙体表面,不要将其抬起或改变施加的压力

› 探测异物时,扫描期间,工具必须始终与墙体表面接触。

› 确保握住工具的手的手指不接触被扫描的表面。

› 请勿用另一只手或身体的任何其他部位触摸探测器或扫描的表面。始终缓慢检测以获得最大的准确度和灵敏度

四、探测种类及使用

【4.1】探测金属物体(钢筋、电线、铜管)

▲ 基本信息及操作

› 探测仪开机后默认进入“金属探测”模式,此时如果在没有金属干扰的情况下显示屏上有信号显示,说明需要校准。校准方式为,将探测仪放置在没有金属和强磁场干扰的环境中(如:把探测仪举起到空中等)。再按住“⑥金属和电缆探测”按钮,直到信号显示归零且绿灯亮起,此时松开按钮,校准完成

› 金属最大探测深度是120mm

› 探测金属物体时,按探测金属按钮进入探测金属状态.此时显示屏上会出现探测金属的图案,并且绿色指示灯会亮起

› 把探测仪放在探测物表面上并向左或向右朝着同一方向移动仪器,当仪器渐渐靠近金属物体时,显示屏信号强度显示区上的刻度会逐渐上升同时强度百分比也会逐渐变大。在仪器慢慢远离物体时,刻度又会慢慢下降同时强度百分比也会逐渐变小。当程序判定仪器接收到的信号达到最大时,代表金属物体正位在探测器的中央的下方。此时显示屏上显示中心图标(Center)

› 当检测到金属物质时探测仪的黄色或红色指示灯会亮起,并且仪器中会发出持续声响

› 当同时检测到金属物质和交流电信号时探测仪的红色指示灯会闪烁，并且仪器中会传出嘀嘀声响

› 当探测仪显示非磁性金属符号时，表示当前被测物体一般为电线或铜管

› 当探测仪显示磁性金属符号时，表示当前被测物体一般为钢筋

› 当探测仪不显示磁性或非磁性金属符号时，表示当前被测物体一般为合金

› 当仪器上交流电符号闪烁时，表示附近有交流电信号

▲ 探测须知

› 探测金属时显示屏上会跟随探测操作同步显示探测深度值，深度值准确度与被测金属形状和材质、被测物相对探测仪的分布情况、被测物周边介质属性等有关

› 当被测物是直径18mm的标准钢筋或者铜管时，深度值准确度最好；反之则差，深度值只能作为一个大概的参考值

【4.2】探测异物（一般指木档）

▲ 基本信息

› 最大探测深度：精确模式：20mm; 深度模式：38mm。长按按钮切换EXACT模式/DEEP模式

› 异物探测模式将检测石膏干墙，胶合板护套，裸木地板，涂层木墙中的物体

› 异物探测模式不会检测混凝土，砂浆，块状物，砖块，地毯，箔面材料，金属表面，瓷砖，玻璃或任何其他致密材料中的物体

› 由于水分，材料含量，墙壁纹理和油漆，感应深度和精度会有所不同

› 异物探测模式实际上检测的不仅仅是木档。它还可以探测金属和其他致密材料，例如墙壁或天花板表面背面附近的充水管和塑料管。为了帮助识别木档，首先进行金属扫描并标记任何检测到的金属物品的位置。然后在异物探测模式下进行扫描，在异物探测模式下检测但未在金属检测模式下检测到的项目可能是木质螺柱

▲ 操作介绍

› 按“异物探测”按钮进入探测异物模式，此时显示屏上会出现异物探测（一般指木档）图标

› 探测异物时必须把仪器竖直贴紧墙体后再短按一下“异物探测”按钮，保持仪器不动1-3秒，等待仪器校准完成后（此时绿灯会亮起），再进行探测操作

› 把探测仪放在探测物表面上并向左或向右沿同一方向均匀并缓慢地移动仪器，不要将仪器提起或施加额外压力

› 当仪器靠近被测物体木档边缘时，显示屏会同步显示信号百分比，同方向上的边界图标会逐渐显示

› 当仪器处在木档的一条边界时，仪器上会显示边界字符（Edge）且对应半边的边界图标会显示

› 继续沿同一方向移动仪器，边界字符（Edge）熄灭，另一半边界图标逐渐显示；当仪器在木档中间时，显示屏上显示中心字符（Center）且两边的边界图标全部显示，红灯会亮起，蜂鸣器会“滴…”长响，信号百分比达到最大

› 此时再保持统一方向移动，中心十字图标与字符熄灭、蜂鸣器停止发声、边界图标随着仪器的离开逐渐熄灭；当仪器处在木档的另一边界时，仪器上会显示边界字符（Edge）且对应半边的边界图标会显示，显示屏同步显示信号百分比；继续移动仪器，直到远离木档，信号百分比逐渐减小、边界图标逐渐消失、直到仪器绿灯亮起仪器检测不到木档，探测操作完成

▲ 温馨提示

› 反复多次探测，位置会更准确

› 当探测到异物的同时探测到交流电，仪器上的交流电符号会闪烁，仪器会发出“滴 滴 滴”短促的响声

› “异物探测”模式下，当仅探测到交流电时，仪器仅在显示上闪烁交流电符号

▲ 探测须知

› 有时由于各种环境因素，仪器可能无法自动校准，并且可能会出现错误的警报信号，请手动校准。校准方法是短暂按下异物探测模式按钮，直到绿灯再次亮起

› 如果仪器刚刚在木档上校准，则需要将工具移动到木档范围之外，并再次检测此木档时才可以检测到

› 如果您收到不稳定的扫描结果，可能是由于墙壁腔体或干墙内的湿气，或未完全干燥的油漆或壁纸造成的。虽然水分可能并不可见，但它会干扰传感器请等墙壁干燥几天

› 对于某些环境因素或不平整的表面，使用异物检测模式很难检测木钉。使用金属检测模式来定位将材料固定到木钉上的钉子，更容易找到这些物品

› 根据电线或管道与墙面的接近程度，仪器可以用与探测异物相同的方式检测它们。在可能包含这些物品的墙壁，地板和天花板上进行钉子，切割或钻孔时，应始终小心

【4.3】探测带电电缆

▲ 基本信息及操作

› 最大探测深度：50mm（220V @ 50Hz / 110V @ 60 Hz）

› 按探测带电电缆按钮，进入带电电缆探测。此时显示屏上会显示交流电图标。此时如果在整个被测面上显示屏上信号强度百分比会显示时，说明需要归零。归零方式是在待测面上按住探测带电电缆按钮，直到显示屏上信号百分比归零且绿等亮起后则校准完成，此时松开按钮，进行探测带电电缆的工作

› 把探测仪放在探测物表面上并向左或向右朝着同一方向移动仪器，当仪器渐渐靠近带电电缆时，显示屏信号强度显示区上的刻度会逐渐上升同时强度百分比也会逐渐变大。在仪器慢慢远离带电电缆时，刻度又会慢慢下降同时强度百分比也会逐渐变小

› 当程序判定仪器接收到的信号达到最大时，代表带电电缆正位在探测器的中央的下方。此时显示屏上显示中心图标（Center）。同时探测仪的黄色或红色指示灯会亮起，蜂鸣器会发出“滴 滴 滴”短促的响声

▲ 探测须知

› 在某些条件下（例如在金属化或导电表面后面，在金属导管中屏蔽或在含水量/湿度高的表面后面），无法确定地检测到“带电”导线/导线。混凝土，砖和陶瓷表面对来自火线的电场信号具有屏蔽效应，因此当在这些表面上进行检测时，火线的检测深度也会受到影响

› 当耗电器连接到所需导体并打开时，可以更容易地检测带电AC线

› “带电”电线的信号将从实际电线的两侧扩散，因此有时“带电”电线警报的区域看起来比实际电线大得多

› 检测到火线时，有时房间会发出警报。这是由于墙壁的高湿度或强静电，您可以通过在当前位置墙体上长按探测电缆按钮进行校准仪器操作，直到绿灯亮起、信号强度百分比为零，然后松开按钮继续探测。如果进行校准操作后信号强度百分比仍不为零，则表示湿度过高或静电过强，或周围电磁辐射过大（例如，那里）是周围的大量电器），该工具无法准确检测火线。您需要等待湿度下降或关闭电器，然后尝试检测

› 静电可能导致电线检测不准确。将手放在探测器旁边的墙上并再次测量以帮助去除静电也可能有所帮助

› “带电”电线的信号强度取决于电缆的位置。因此，请在附近进行进一步测量，或使用其他信息来检查是否存在“带电”电线

› 非“带电”的电线可能被检测为金属物体或可能未被检测到。这包括实心铜缆，但无法检测到绞合的铜缆

五、仪表维护

› 请使用干燥且柔软的布擦除仪器上的污垢,不可使用清洁剂或溶剂

› 禁止探测仪前,后两面的探测区域上帖任何的标签或铭牌,切忌粘贴金属的铭牌

› 请使用附带的保护套储存和携带探测仪

› 请以符合环保要求的方式回收和利用损坏的探测仪、附件及包装材料

六、生产信息

› 产品名称：墙体探测仪
› 品牌 / 型号：菲尼瑞斯 / WD-01
› 服务电话：0755-28020752
› 生产商：深圳市菲尼瑞斯科技有限公司
› 网址：www.fnirsi.cn
› 地址：广东省深圳市龙华区大浪街道伟华达工业园C栋西边8楼

1、SAFETY WARNING

- Please read this instruction manual carefully. This ensures the correctness of the measurement parameters and maintains the life of the equipment
- Dont use this meter in flammable and explosive environments
- Used batteries for instrument replacement and discarded instruments cannot be disposed of with household waste.Please handle according to relevant national or local laws
- When there is any quality problem with the instrument or when there is a question about using the instrument.You can contact "Finiris-FNIRSI" online customer service.We will solve it for you as soon as possible

2、PRODUCT OVERVIEW

【2.1】Function Introduction

- This detector can detect metal in walls and ceilings and floors.Such as steel bars, copper pipes, cables.Also detects wooden beams, metal, cables under plasterboard

【2.2】Specifications

▲ Basic Parameters

Battery capacity :	3.7V 300mAH	Equipment size :	138*68*22mm
Continuous working time :	About 2 hours	Auto shutdown time :	About 5min

▲ Maximum Detection Depth

With iron metal	120mm
Non-ferrous metal(Copper)	100mm
Alternating current	50mm
Single-strand copper wire (⩾4mm^2)	40mm
Foreign body (Generally refers to wood material)	Exact mode 20mm / Deep mode 38mm
Note：The detection result will be affected by factors such as the material and size of the detected object, as well as the material and state of the detected surface.If the cable is not live, the detection depth will be reduced	

▲ Temperature and Humidity Range

Working humidity	In metal mode	0~85%RH
	In foreign body mode	0~60%RH
	In AC mode	0~30%RH
Operating temperature	-10°C~50°C	
Stored temperature	-20°C~70°C	

【2.3】Key Function



① Display interface

② Yellow indicator

③ Red indicator

④ Center of detection area
(Position can be marked by center hole)

⑤ Green indicator

⑥ Metal/Cable Detection Button

⑦ Foreign object detection button
(Long press to switch Exact mode/Deep mode)

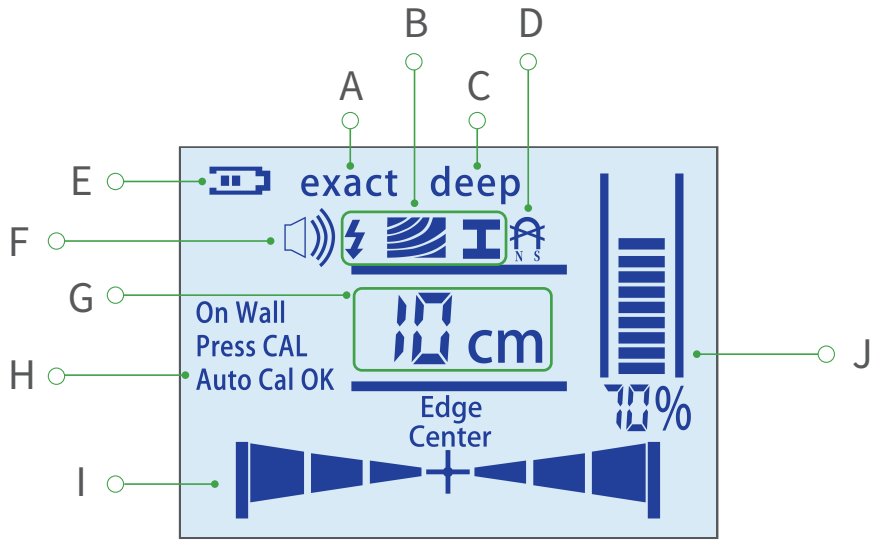


⑧ Type-C charging port("③red indicator" is on when charging; "⑤green indicator" is on when fully charged)

⑨ On/Off button

⑩ Reset hole

【2.4】Interface Analysis



A. Precise mode in "Foreign Object Detection" mode (The maximum detection depth is 20mm in Precise mode)

B. Arranged in order as alternating current, foreign objects (generally refers to wooden stalls) and metal

C. Depth mode in Foreign Object Detection mode(The maximum detection depth in depth mode is 38mm)

D. Magnetic/Nonmagnetic Icon

E. Battery percentage

F. Sound icon(Press the "⑦Foreign Object Detection" and "⑥Metal/Cable Detection" buttons at the same time to turn off or turn on the sound)

G. Metal detection depth display(This depth refers to the distance from the center of the detection area to the object to be measured)

H. Timber Detection Preparation Tips(Wall calibration ~ calibration completed)

I. Indicates the distance from the edge of the object to be measured to the center of the detector.Only the Center icon is displayed in metal mode

J. Detection signal strength display area

3、PRECAUTIONS

› Please use the interface as Type-C.It can be charged by a safe charger with a voltage output of 5V and a current of ⩾500mA.The company is not responsible for accidents caused by the charger

- Before starting the detector.Make sure there is no moisture on the detection area.Dry the detector with a cloth if necessary
- Dont allow moisture to penetrate into the detector.Dont let sunlight directly shine on the detector for a long time
- If the detector is exposed to extreme temperature differences.Please wait for the temperature of the detector to rise before starting the detector.
- Using or operating transmitting equipment such as microwave ovens near the detector can affect the detection results
- In the detection and use of the equipment, the detection results will be affected by the surrounding environmental factors to some extent.
- For example: ① Is the instrument close to a machine that generates a strong magnetic or electromagnetic field;②Moisture/metallic building materials/aluminum-clad insulating materials/wallpapers with very good conductivity/carpets or tiles with conductivity will affect the detection results.
- Do not work if the wall contains electrical/gas/water pipes.Before penetrating the wall surface, such as drilling or nailing.Please check first and turn off power/gas/water
- For best scanning results, avoid wearing jewelry such as rings or watches when using the detector, metal may cause inaccurate detection; move the tool evenly on the wall surface, do not lift it or change the applied pressure
- When detecting foreign objects, the tool must always be in contact with the wall surface during the scan
- Make sure the fingers of the hand holding the tool do not touch the surface being scanned
- Do not touch the detector or the scanned surface with your other hand or any other part of your body
- Always detect slowly for maximum accuracy and sensitivity

4、DETECTION TYPES AND USE

【4.1】Detection Of metal Bbjects (Rebar, Wires, Copper Pipes)

▲ Basic Information and Operation

- After the detector is turned on, it will enter the "metal detection" mode by default.At this time, if there is no metal interference, there is a signal on the display.Indicates that calibration is required.
Calibration method: place the detector in an environment free of metal and strong magnetic field interference (eg: lift the detector into the air, etc.).Press and hold the "⑥Metal/Cable Detection" button again.Until the signal display returns to zero and the green light turns on.Release the button at this point, the calibration is complete

› The maximum detection depth of metal is 120mm

› When detecting metal objects.Press the metal detection button to enter the detection metal state.At this time, the pattern of metal detection will appear on the display, and the green indicator will light up

› Place the detector on the object surface and move the instrument left or right towards the same horizontal direction.When the instrument gets closer to the metal object, the scale on the signal strength display area of the display will gradually increase.At the same time, the intensity percentage will gradually increase

› When the instrument is slowly moving away from the object, the scale on the signal strength display area of the display will gradually decrease.At the same time, the intensity percentage will gradually decrease

› When the program determines that the signal received by the instrument reaches the maximum.Indicates that the metal object is just below the center of the detector.The center icon (Center) appears on the display

› The yellow or red indicator light of the detector will light up when metal material is detected

› When the metal substance and AC signal are detected at the same time, the red indicator light of the detector will flash.And the detector will beep continuously.

› When the detector displays a non-magnetic metal symbol, it means that the current measured object is generally a wire or copper pipe

› When the detector displays a magnetic metal symbol, it means that the currently measured object is generally a steel bar.

› When the detector does not display magnetic or non-magnetic metal symbols, it means that the currently measured object is generally an alloy

› When the AC symbol on the instrument flashes, it means there is an AC signal nearby

▲ Detection Note

› When detecting metal, the displayed depth of detection value on the display is synchronized with the detection operation.The accuracy of the depth value is related to the shape and material of the measured metal, the distribution of the measured object relative to the detector, and the properties of the surrounding medium of the measured object, etc

› When the measured object is a standard steel bar or copper pipe with a diameter of 18mm, the accuracy of the depth value is the best.If on the contrary, then the depth value can only be used as a rough reference value at this time

【4.2】Foreign Body (Generally Refers to Wood Material)

▲ Basic Information

› Maximum detection depth: Precise mode: 20mm/Depth mode: 38mm.Long press the button to switch exact mode/deep mode

- The foreign object detection mode will detect objects in gypsum drywall, plywood sheathing, bare wood floors, coated wood walls
- Foreign Object Detection Mode will not detect objects in concrete, mortar, blocks, bricks, carpets, foil-faced materials, metal surfaces, tiles, glass or any other dense material
- Sensing depth and accuracy will vary due to moisture, material content, wall texture and paint
- The foreign object detection mode actually detects more than just wood materials.It can also detect metals and other dense materials.For example: water-filled pipes and plastic pipes near the back of a wall or ceiling surface.
- To help identify wood materials, a metal scan is first performed and the location of any detected metal items is marked.Then scan in foreign object detection mode, items detected in foreign object detection mode but not detected in metal detection mode may be wooden studs

▲ Operation Introduction

- Press the "Foreign Object Detection" button to enter the foreign object detection mode.At this time, the foreign object detection (Generally refers to wood material) icon will appear on the display screen
- When detecting foreign objects, the instrument must be vertically attached to the wall, and then briefly press the "Foreign Object Detection" button, keep the instrument still for 1-3 seconds, wait for the calibration of the instrument to complete (the green light will be on at this time), and then perform the detection
- Place the detector on the surface of the object and move the instrument evenly and slowly to the left or right in the same direction.Dont lift the instrument or apply additional pressure
- When the instrument is close to the edge of the measured object.The display will show the signal percentage synchronously.Boundary icons in the same direction are gradually displayed
- When the instrument is at one of the boundaries of the gear, the instrument will display the boundary character (Edge).And the corresponding half of the border icon will be displayed
- Continue to move the instrument in the same direction, the edge character (Edge) goes out.The other half of the border icon is gradually displayed.When the instrument is in the middle of the gear, the center character (Center) will appear on the display.And the border icons on both sides will all be displayed, the red light will be on, and the buzzer will emit a long beep of "didididi~". Signal percentage reaches maximum
- At this time, keep moving in the same direction, the center cross icon and characters will go out, the buzzer will stop sounding, and the border icon will gradually go out as the instrument leaves

  When the instrument is at the other edge of the wooden fence, the edge character (Edge) will be displayed on the instrument and the edge icon corresponding to

the half will be displayed, and the display screen will simultaneously display the signal percentage

Continue to move the instrument until it is far away from the wooden stop, the signal percentage gradually decreases, and the boundary icon gradually disappears, until the green light of the instrument turns on and the instrument cannot detect the gear stop, and the detection operation is completed

▲ Kind Tips

- The position will be more accurate after repeated detection
- When a foreign object is detected and an alternating current is detected.The AC symbol on the instrument will flash,The instrument will make a short beep of "dididi"
- In "Foreign Object Detection" mode.When only alternating current is detected.The instrument only flashes the AC symbol on the display

▲ Detection Note

- Sometimes due to various environmental factors.The instrument may not automatically calibrate,and there may be false alarm signals, please calibrate manually.The calibration method is to briefly press the foreign object detection mode button until the green light turns on again
- If the instrument has just been calibrated on the wooden gear.Then you need to move the tool outside the range of the wooden gear.And it can only be detected when the wooden gear is detected again
- If you receive erratic scan results, it may be due to moisture in the wall cavity or drywall, or paint or wallpaper that is not fully dry.While moisture may not be visible, it can interfere with the sensor.Please wait for the wall to dry
- For certain environmental factors or uneven surfaces, it is difficult to detect wooden dowels using the foreign object detection mode.Use the metal detection mode to locate the nails that hold the material to the dowels, making it easier to find these items
- Depending on how close the wires or pipes are to the wall.Instruments can detect them in the same way they detect foreign objects.Use construction safety precautions when nailing, cutting or drilling holes in walls, floors and ceilings that may contain these items

【4.3】Detection of Live Cables

▲ Basic Information and Operation

- Maximum detection depth: 50mm (220V@50Hz/110V@60Hz)
- Press the Detect Live Cable button to enter live cable detection.The AC icon will appear on the display.At this time, if the signal strength percentage is displayed on the display screen of the entire measured surface, it means that it needs to be reset to zero.The way to return to zero is to press and hold the "Detect live cable

button" on the surface to be detected.The calibration is completed until the signal percentage on the display returns to zero and the green light is on. At this time, release the button to detect the live cable

- Place the detector on the surface of the object and move the instrument left or right in the same direction.When the instrument is getting closer to the live cable, the scale on the signal strength display area of the display will gradually increase and the strength percentage will gradually increase.As the instrument moves away from the live cable, the scale will slowly decrease again and the intensity percentage will gradually decrease
- When the program determines that the signal received by the instrument reaches the maximum, it means that the live cable is located just below the center of the detector.The center icon (Center) appears on the display.At the same time, the yellow or red indicator light of the detector will light up, and the buzzer will make a short beep sound

▲ Detection Note

- Under certain conditions (such as behind metallized or conductive surfaces, shielded in metal conduits, or behind surfaces with high water content/humidity), "live" wires/conductors cannot be detected with certainty. Concrete, brick and ceramic surfaces have a shielding effect on the electric field signal from the live wire, so the depth of detection of the live wire is also affected when testing on these surfaces
- Easier detection of live AC lines when the consumer is connected to the desired conductor and turned on
- The signal from the "live" wire will spread from both sides of the actual wire, so sometimes the area where the "live" wire alerts appears to be much larger than the actual wire
- Occasionally the room will sound an alarm when a live wire is detected. This is due to high humidity or strong static electricity on the wall, you can calibrate the instrument by long pressing the detection cable button on the wall at the current location until the green light is on and the signal strength percentage is zero, then release the button to continue detection. If the signal strength percentage is still not zero after the calibration operation, it means that the humidity or static electricity is too high, or the surrounding electromagnetic radiation is too high (for example, there are a lot of electrical appliances around), and the tool cannot accurately detect the live wire. You need to wait for the humidity to drop or turn off the appliance before trying to detect
- Static electricity can cause inaccurate wire detection. It may also help to put your hand on the wall next to the detector and measure again to help remove static
- The signal strength of a "live" wire depends on the location of the cable. So take further measurements nearby, or use other information to check for "live" wires

  Wires that are not "live" may be detected as metallic objects or may not be detected. This includes solid copper cables, but stranded copper cables cannot be detected

5、INSTRUMENT MAINTENANCE

- Use a dry, soft cloth to wipe dirt off the instrument.Dont use detergents or solvents
- Before the detector is prohibited.Put any labels or nameplates on the detection area on the back two sides.Please do not stick metal nameplates
- Please use the included protective case to store and carry the detector
- Please recycle and reuse damaged detectors, accessories and packaging materials in an environmentally friendly manner

6、PRODUCTION INFORMATION

- Product Name: Wall Detector
- Brand / Model: FNIRSI / WD-01
- Manufacturer: Shenzhen FNIRSI Technology Co., Ltd.
- Website: www.fnirsi.cn
- Address: 8th Floor, West of Building C, Weihuada Industrial Park, Dalang Street, Longhua District, Shenzhen City, Guangdong Province

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