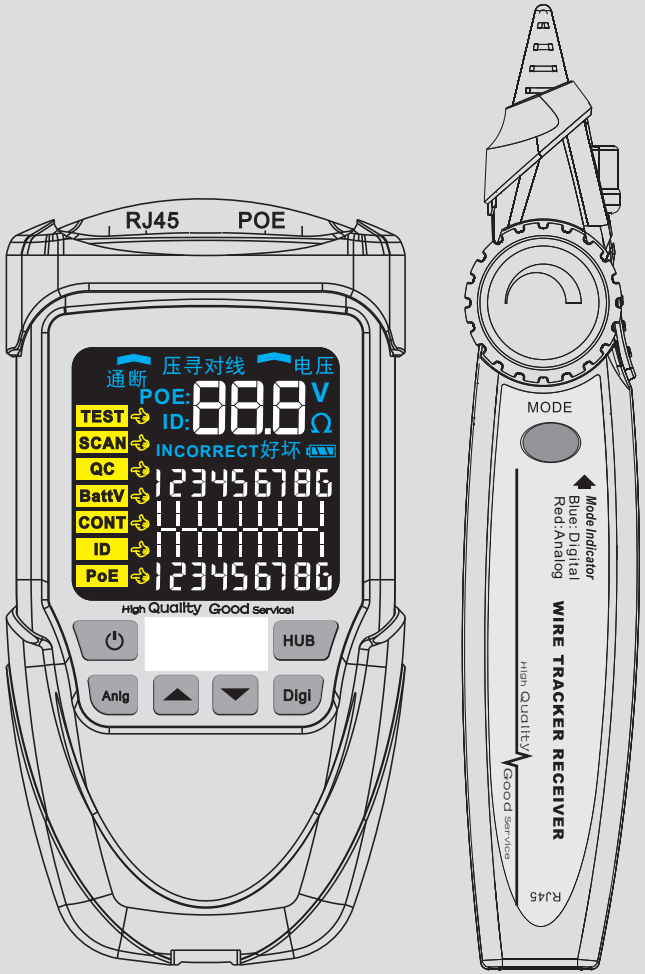
数字/模拟网络寻线仪

用户使用说明书



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Pn:501061500

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安全须知

该系列仪表在设计上采用IEC1010条款(国际电工委员会颁布的安全标准)在使用之前，请先阅读安全注意事项。

请仔细阅读技术指标内容，在遵循安全操作要求的前提下，不可以测量大于60V电压（POE测试/电池电压功能除外），否则将有电击危险；

1.36V以下的电压为安全电压，在测高于36V直流、25V交流电压时，要检查是否接触可靠，是否正确连接，是否绝缘良好等，以避免被电击；

2.产品关机和更换电池时，应断开所有测试连接；

3.选择正确的功能和量程，严格按输入提示连接测试，谨防误操作，该系列仪表虽然有全量程保护功能，但为了安全起见，仍请您多加注意；

4:VFL功能操作时，本仪表内置小功率激光，严禁直接照射眼睛。操作时请勿直视激光发射口，避免激光对眼部造成不适或损伤。(此功能仅　级款有)

5. 安全符号说明

“ ”低电压符号。

⚠ 警 告 ⚠

1.请勿使用已损坏的产品，使用前先检查测试仪；若仪表工作失常请勿使用。仪表的保护可能已经遭到破坏

2.请勿超量程使用否则会造成人员伤害和设备损坏；

3.雷雨天使用该仪器注意防雷电，以免线路感应到雷电造成人员伤害和设备损坏；

4.产品长时间不使用时，请将电池充满电取出存放,以免发生电池过放造成电池漏液损坏产品；

5.产品不能连接查找(寻线)已经接通了强电的线缆(比如家里的电线)，否则会造成人员伤害和设备损坏。

6.产品接口不能连接强电(POE设备除外),否则有人员伤害和设备损坏风险。

7.主机LCD屏电池符号或寻线器红灯闪烁,表示电池电压低,请更换电池。

8.不要随意拆开机壳,有故障请专业人员维修；

产品特性

1. 网线对线测试，正常/短路/断路/交叉
2. 无燥音数字寻线、模拟寻线、POE带电寻线
3. 网线水晶头压线测试，快速判断压线质量
4. 电池电压检测及通断测量
5. 最多可达15个ID远端识别可选
5. AA 1.5V/9V电池供电更方便
6. LCD显示、输入指示结果一目了然
7、基础款具有全面POE电压、极性测试
7. 增强款VFL红色激光光纤定位功能

*型号具体功能详见技术指标

产品简介

本产品是一款结合工程实践经验、采用独特数据传输技术设计的多功能综合线路测试仪，集网线检测、寻线、水晶头测试、电压测量等功能于一体，可满足日常布线、维护与检修需求。仪器支持网线对线测试，快速检测线路正常、短路、断路、交叉等状态；配备无噪音数字寻线、模拟寻线及 POE 带电寻线模式，寻线精准高效；可进行水晶头压线质量检测、电池电压检测与通断测量，支持多达 15 个 ID 远端识别，使用灵活。产品采用 AA 1.5V/9V 电池供电，便携易用，搭配 LCD 显示屏，测试结果清晰直观，广泛适用于电话、网络、视频等各类金属线缆施工与维护场景。

基础款可测试 POE 电压及极性，满足安防监控与网络布线维护需求；

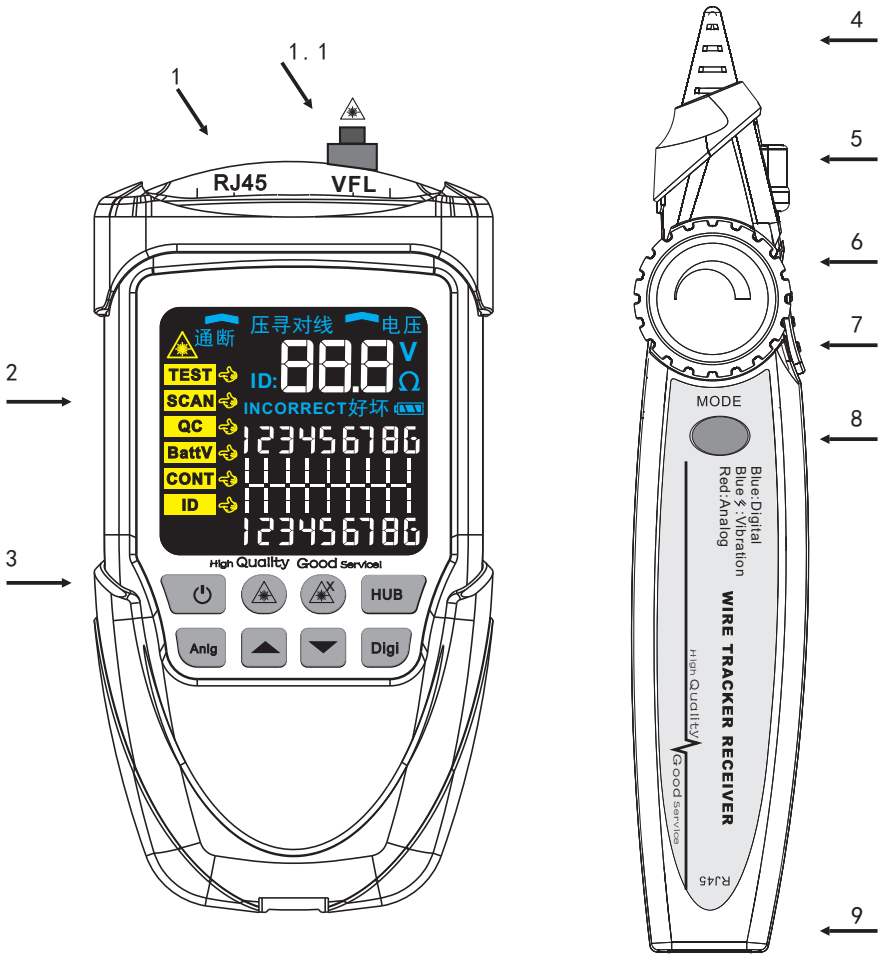
增强款额外搭载 VFL 红色激光光纤定位功能，可满足光纤检测需求，是通信安装、机房检修及工程运维人员高效可靠的实用工具。

产品说明(基础款)



1:对线/寻线/通断/QC/ID连接口
1.1: POE/电池V 测量接口
2:显示区
3:按键区
4:寻线感应区
5:照明灯
6:灵敏度调节旋钮
7:照明灯开关
8:寻线开关
9:对线连接口

产品说明(升级款)



1:对线/寻线/通断/QC/电池V/ID连接口
1.1: 红色激光(VFL)发送口
2:显示区
3:按键区
4:寻线感应区
5:照明灯
6:灵敏度调节旋钮
7:照明灯开关
8:寻线开关
9:对线连接口

产品说明

TEST 对线功能：测试网线的正确、开路、短路、交叉等特性。

SCAN 寻线功能：在众多的线对中快速找出所需要的线对。

QC 压线检测功能：测试网线水晶头是否压线合格/断开

BattV 电池电压功能：可检测电池电压/电话线电压及正负极性。

CONT 通断功能：可检测电话线开路或短路。

ID ID功能：可测试主机与网线另一端ID识别器的对应关系

PoE POE检测功能(仅基础款有):测试POE设备供电网线序号/电压/正负极

VFL功能(仅升级款有)：通过发送红色激光到光纤中，实现目标光纤定位

输入指示器：提示当前功能应该连接的接口位置

电池指示器，显示当前电池容量

INCORRECT 线路结果提示，有INCORRECT和CORRECT两种结果

POE: 88.8 V
ID: Ω 测试结果：显示POE电压/电池电压/通断测试/ID序号

网线检测结果显示区，可能显示对线状态结果/压线结果等

长按2秒开关机键

向上功能选择键

向下功能选择键

HUB 交换机对线功能键

Digi 数字寻线功能键

Anlg 模拟寻线功能键

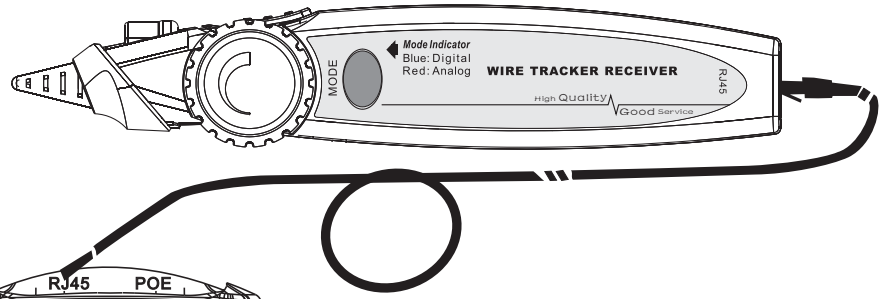
VFL功能长亮/闪烁切换键

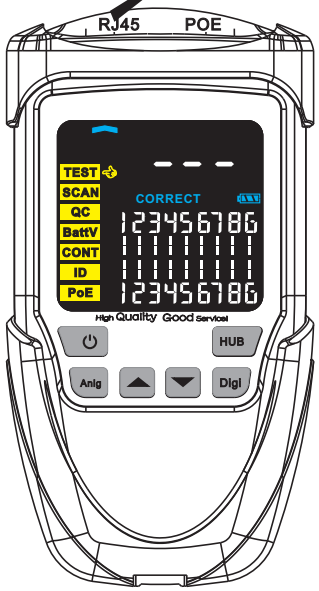
VFL功能关闭键

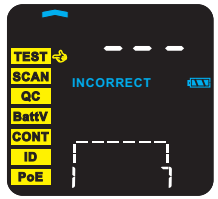
**VFL功能键仅升级款有

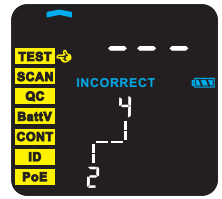
对线功能（TEST）

对线功能，可测试网线的开路、交叉、短路等的情况；









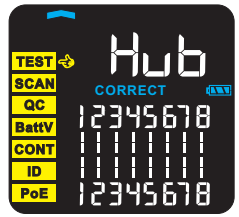
操作方法

将待测线路的一端接入发射器的JR45插座。单击主机▲/▼键，切换到TEST功能，产品进入对线功能.将待测线路的另一端插入副机RJ45插座，产品即在LCD上显示结果。

交换机对线(Hub TEST)

操作方法

单击 HUB 键，产品进入交换机对线功能，LCD上显示“HUB",将待测线路的一端接入主机的RJ45插座另一端插入交换机端口，此时产品将会对网线进行测试并在LCD上显示结果。



寻线功能(SCAN)

寻线功能是在众多网线对中找出目标线路。将待测线路的一端（例如网络线、电话线及能过鳄鱼夹转接的视频信号线）接入主机的RJ45插座中，按▲/▼切换到SCAN 寻线功能，寻线信号通过线路传输。

寻线信号分数字信号和模拟信号两种，开机默认为数据寻线信号，用户按DIGI/ANLG切换;

按下接收器的MODE按键2秒开机进入寻线功能状态（蓝灯为数字寻线/蓝灯闪烁为数字振动/红灯为模拟寻线），在待测线中的另一端（例如线路终端、电话系统的配线架、接线盒，计算机网络的集线器端）周围侦听接收器喇叭所发出的“嘟嘟”声。 比较“嘟嘟”声的大小，发出连续“嘟嘟”声的线即为所要寻查的目标线缆。

为快速找到目标线路，可先将寻线器方向旋钮调到最大灵敏度，找到目标线路附近后，调节合适的灵敏度，精确定位目标线路；此时可将目标线路连接到寻线器RJ45端口，对线灯全亮则进一步确定目标正确。



操作方法

开机后，单击▲/▼键,选择SCAN寻线功能，此时可将网线连接到主机RJ45或通过鳄鱼夹连接其他金属线路，按下寻线器MODE 按键，进入寻线功能。通过声音连续性和大小来判断和确定目标线路；

水晶头测试/单头压线检测



操作方法

单击▲/▼切换,选择水晶头测试功能；

将待测线缆一端插入RJ45接口，线缆另一端空载，无需接入任何设备，此时进入压线测试状态，测试结果示意如下：

1. 完好：主机LCD上提示如下：

主机：1-2-3-4-5-6-7-8

2. 以4号线没压好为例：主机LCD提示如下。

主机：1-2-3-x-5-6-7-8

注：压线测试是判断网线是否压接连通，非测试线序，如需要测量线序，请用对线功能测试。

**进入功能之前，请不要选择网线

**压线测量线长需大于20cm

ID对线功能

ID对线功能为选配功能；

单击单击▲/▼键，选择到ID远端识别功能;

网线一端连接选配的ID标识器，另一端连接到主机RJ45口，主机LCD上即立即显示相应的ID号，从而实现网线的准确识别；



电压(电池)测量(BattV)

此功能可以测试线路的一些基本电压状况，包括线路电压的有无、电压的正负。将鳄鱼夹适配线/RJ11电话线的一端插入发射器插座，红黑线夹夹上待测线路,如果电话线路上有电压，LCD会显示3、4长连接线，并且正极闪烁，否,则3、4为短连接线。

（警告，不能测量交流电及其它高压电路，否则有触电危险）



电池(52/24/12/9/3.3/1.5V)



操作方法

开机后，连续单击▲/▼键，进入低电压测试功能，将鳄鱼夹接触电池或其他电压的两极性,产品将测出电压有极性;
测量到电压后闪烁数字即为电压正极

** 不同产品测量电压时，连接端口不同，请按输入指示连接
** 不同产品可测量最高电压不同，详细请看技术指标

通断测试(CONT)

线路通断测试是用来测量电话线没有接入电话网络时有没有短路,测试前要先测量电话线路有没有电压，如果没有电压方可进行通断测试。此时测试通断，LCD会有相应的通路或开路提示;

已经接好水晶头的电话线路，直接插入发射器的MAIN/RJ45口就可以测量，也可用鳄鱼夹适配线夹住待测线路即可测量线路通断。

此功能也可用来测量其他器件的通断特性，产品显示出相应的通路或开路。



操作方法

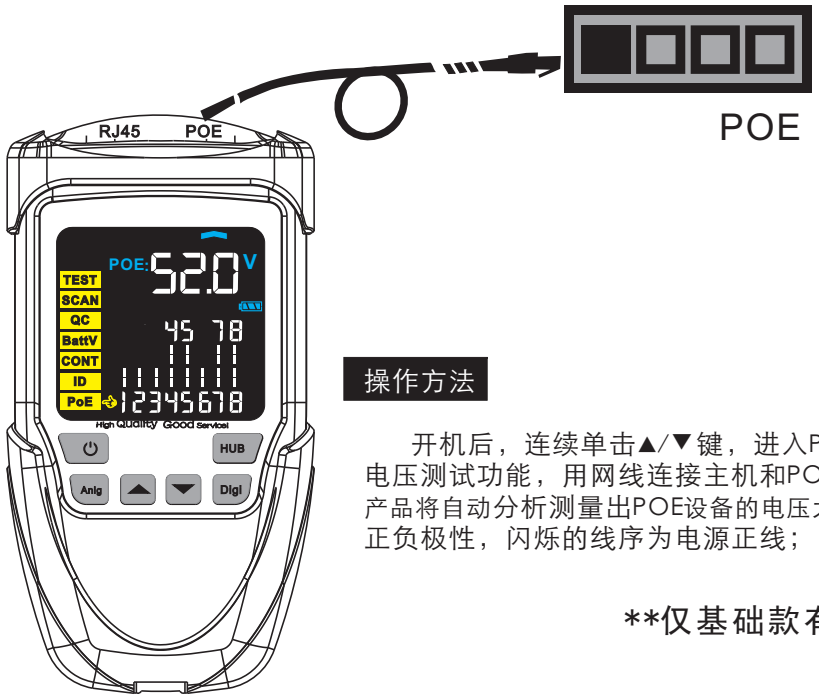
开机后，单击▲/▼键，选择通断测试(CONT)功能，显示屏上提示Ω，用户可以用鳄鱼夹分别夹住网线/电线/同轴视频线等，若线路此时为通路，则产品显示0Ω,若线路为开路，则产品显示OL。

PoE测量（POE）

产品的PoE电压测量功能，能够对PoE供电设备的供电进行测量分析，测试POE设备的基本状况，包括供电电压、供电线路的正负。

网线按产品输入提示连接到主机插座，另一端接入PoE 供电设备，产品将检测设备根据需要进入相应的通讯后将检测结果显示；对非标准PoE则直接测量并显示供电电压。

注意：连接PoE设备，几秒后可以显示结果，如果50秒后没有显示结果，那么连接的设备可能不是PoE设备。POE实际输出电压会与标称有一定差异，这是正常的。



操作方法

开机后，连续单击▲/▼键，进入POE设备电压测试功能，用网线连接主机和POE设备，产品将自动分析测量出POE设备的电压大小/电源正负极性，闪烁的线序为电源正线；

**仅基础款有

红色激光（VFL）

产品VFL功能是通过产品发射红色激光，连接到光纤，然后在光纤在另一端，观察到红色激光，从而确定目标光纤，实现光纤的定位功能



操作方法

开机后，连续单击▲/▼键，进入TEST⚠VFL激光测试功能;

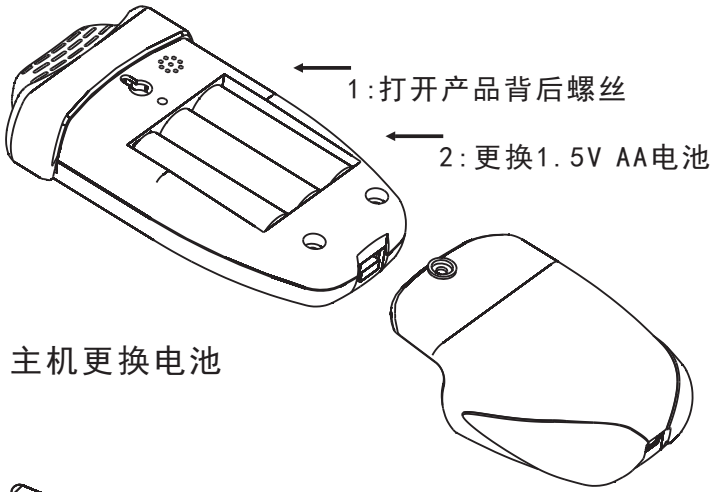
将目标光纤一端连接到产品VFL接口，通过观察另一端发出红色激光，从而确定目标光纤；

**仅升级款有

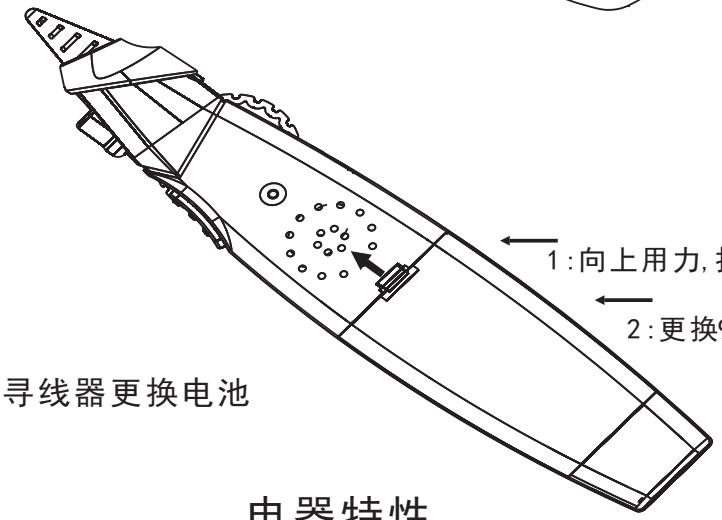
常见问题

现象A：主机按下POWER键，LCD屏不亮或闪烁，
解答：电池耗尽，更换新电池；
现象B：寻线器按下MODE，寻线时无音频声音 ，
解答：电池耗尽或未安装电池，请更换电池
现象C：寻线效果不好,找不到目标线
解答：1:将寻线强度旋转顺时针方向最大,确实目标网线范围后，再将灵敏度提高，找出目标线路。
2:寻线器靠近网线水晶头端口探测
3:连接交换机寻线时，可离交换机40cm左右探测网线
现象D：寻线效果不好，很多网线都响
解答：1:将寻线强度旋转逆时针方向,降低灵敏度，找出目标线路。
2:改用模拟寻线,从声音大小来判断

电池更换



主机更换电池



寻线器更换电池

电器特性

自动关机	主机：无任何操作20分钟后自动关机;
	寻线器：无任何操作10分钟后自动关机；
电流	主机电流40~130mA（各功能不同） 寻线器电流约100mA
电源规格	寻线器 9V叠层电池；主机1.5V AA*3
寻线信号传输距离	≥3km
安全性	使用安全(探头可以直接接触裸露的无高压金属导线)

技术指标

基本功能	基础款	升级款
显示屏	VA屏/彩色	
对线功能	正常/短路/断路/交叉	
HUB对线	√	
寻线功能	数字/模拟/震动 数字寻线/模拟寻线灵敏度可调	
带电寻POE交换机	√	
水晶头压线测试	√	
短路通断	√	
ID对线功能(选配)	可选(最大15)	
输入指示	√	
电压(电池)	1~60V(2%或0.5v)	1~10V(+-0.5v)
特殊功能	POE电压/极性(5-60V) 标准/非标全适应	红色激光(VFL)
电池类型	主机1.5AA电池*3 工作时长约7小时 工作时长约5小时 寻线笔9V 干电池(工作时长约2小时)	
其他功能	寻线器手电筒功能、低电压检测、自动关机	
包装	彩盒/说明书/工具包/RJ45线/鳄鱼夹	

* ID对线功能远端识别器为非标配 *上述指标是功能最佳指标

保修卡 产品保修说明

本公司产品之日起12个月内，确因本产品质量原因而引起的产品损坏，由本公司负责免费保修，保修条款如下：

1：因使用不当，自然损耗，擅自开机自行修理或发生意外所导致的产品损坏，不属于免费保修范围之内。

2：产品附带的电池、易耗配线不属免费保修范围。

以上不属于免费保修范围之内的情况本公司可以提供非免费维修，酌情收费。

3：产品需送到指定维修点及由本公司专业人员修理，若曾由其他人员修理的，本公司恕不保修。

QC PASS
合格证
检验合格

Safety Precautions

This series of instruments is designed in compliance with IEC1010 (safety standard issued by the International Electrotechnical Commission). Please read the safety precautions before use.

Please carefully review the technical specifications. Under the premise of following safe operation requirements, **do not measure voltages exceeding 60 V (except for POE testing / battery voltage function), otherwise there will be a risk of electric shock.

1. Voltages below 36 V are considered safe. When measuring DC voltages above 36 V or AC voltages above 25 V, check for reliable contact, correct connection, and good insulation to avoid electric shock.

2. Disconnect all test connections before turning off the product or replacing the battery.

3. Select the correct function and range, and strictly follow the input prompts for connection and testing to prevent misoperation. Although this series of instruments features full-range protection, for safety reasons, please exercise extra caution.

4. When operating the VFL function, the instrument contains a low-power laser. **Never shine the laser directly into eyes**. Do not look directly into the laser emission port during operation to avoid discomfort or injury to the eyes. (This function is only available on upgraded models.)

5. Explanation of Safety Symbols

"" Low voltage symbol.

⚠ Warning ⚠

1. Do not use a damaged product. Inspect the tester before use. Do not use the instrument if it malfunctions, as its protection may have been compromised.

2. Do not use the instrument beyond its rated range, otherwise personal injury and equipment damage may occur.

3. Protect against lightning when using the instrument during thunderstorms to avoid personal injury and equipment damage caused by lightning induction on the line.

Product Features

4. If the product will not be used for a long time, fully charge the battery, remove it, and store it separately to prevent battery over-discharge, leakage, and product damage.

5. The product must not be used to trace or locate cables connected to high-voltage power (such as household wiring), otherwise personal injury and equipment damage will occur.

6. The product interfaces must not be connected to high-voltage power (except for POE devices), otherwise there is a risk of personal injury and equipment damage.

7. When the battery symbol on the main unit LCD or the red light on the cable tracer flashes, it indicates low battery voltage. Please replace the battery.

8. Do not disassemble the casing arbitrarily. In case of failure, please consult professional personnel for repair.

Product Features

1. Network cable pair test: Normal / Short circuit / Open circuit / Cross-over
2. Noise-free digital cable tracing, analog cable tracing, live POE cable tracing
3. RJ45 connector crimping test for quick crimp quality verification
4. Battery voltage detection and continuity measurement
5. Up to 15 optional remote ID identifications
6. Powered by AA 1.5 V / 9 V batteries for enhanced convenience
7. LCD display with input indication for clear and intuitive results
8. Basic model: Comprehensive POE voltage and polarity test
9. Enhanced model: VFL red laser fiber optic fault location function

*For detailed functions of each model, please refer to the technical specifications.

Product Overview

This product is a multi-functional integrated line tester designed by combining engineering practical experience and adopting unique data transmission technology. It integrates network cable testing, cable tracing, RJ45 connector testing, voltage measurement and other functions, which can meet daily wiring, maintenance and troubleshooting requirements.

The instrument supports network cable pair testing to quickly detect normal, short-circuit, open-circuit, cross-over and other line conditions. It is equipped with noise-free digital cable tracing, analog cable tracing and live POE cable tracing modes, enabling accurate and efficient cable tracing. It can perform RJ45 connector crimp quality inspection, battery voltage detection and continuity measurement, and supports up to 15 remote ID identifications for flexible use. Powered by AA 1.5 V/9 V batteries, the product is portable and easy to use. Equipped with an LCD display, the test results are clear and intuitive. It is widely applicable to the construction and maintenance of various metal cables such as telephone, network and video cables.

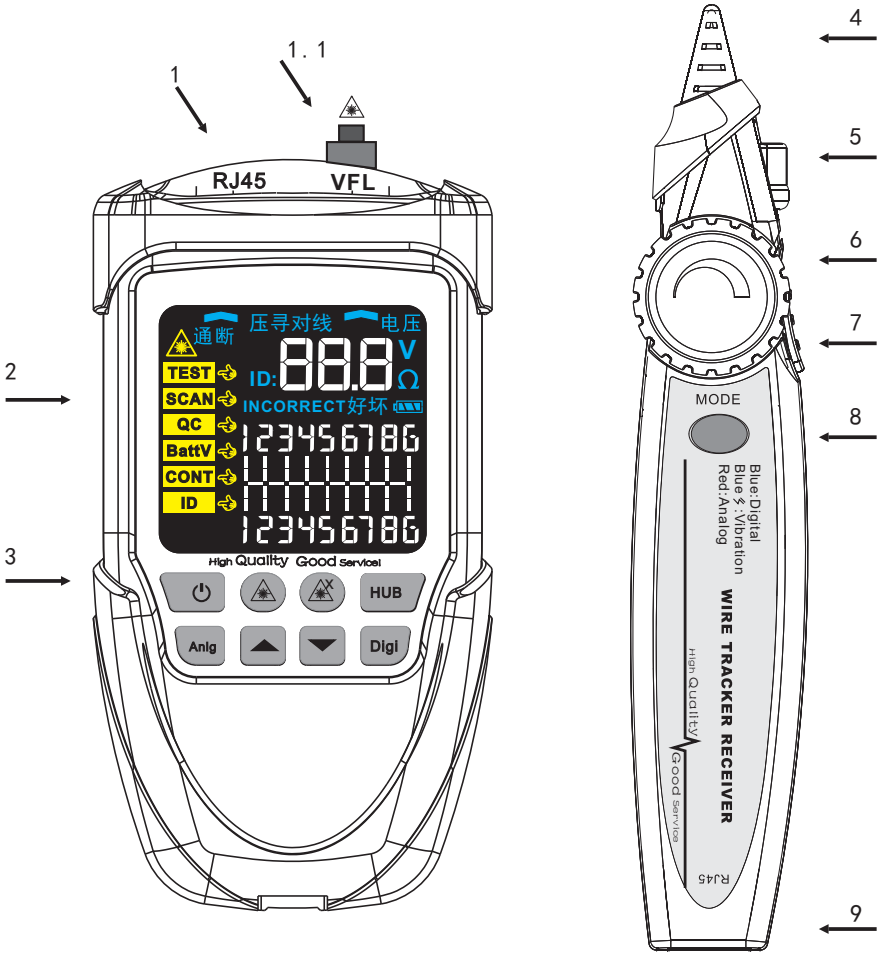
- The basic model can test POE voltage and polarity, meeting the needs of security monitoring and network wiring maintenance.
- The enhanced model is additionally equipped with a VFL red laser fiber fault location function, which can meet fiber optic testing requirements. It is an efficient and reliable practical tool for communication installation, computer room maintenance and engineering operation and maintenance personnel.

Product Introduction(Basic Model)



1: Cable Testing / Tracing / Continuity / QC / ID Port
2: Display Area
3: Keypad Area
4: Tracing Sensor Area
5: Illumination Light
6: Sensitivity Adjustment Knob
7: Light Switch
8: Tracing Switch
9: Cable Testing Port
1.1: POE / Battery Voltage Measurement Port

Product Introduction(Upgraded Model)



1: Cable Testing / Tracing / Continuity / QC / Battery Voltage / ID Port
2: Display Area
3: Keypad Area
4: Tracing Sensor Area
5: Illumination Light
6: Sensitivity Adjustment Knob
7: Light Switch
8: Tracing Switch
9: Cable Testing Port
1.1: Red Laser (VFL) Transmitter Port

Product Introduction

TEST Cable mapping Function: Checks network cable status including normal connection, open circuit, short circuit, and cross connection.

SCAN Cable Tracing Function: Quickly locates the required wire pair among numerous wire pairs.

QC Crimping Test Function: Verifies whether the RJ45 connector crimping is qualified or broken.

BattV Battery Voltage Function: Measures battery voltage/telephone line voltage and positive/negative polarity.

CONT Continuity Test Function: Detects open or short circuits in telephone lines.

ID ID Function: Verifies the corresponding relationship between the main unit and the ID identifier at the other end of the network cable.

PoE POE Detection Function (Basic Model Only): Tests the power supply cable sequence, voltage, and positive/negative polarity of POE devices.

VFL Function (Upgraded Model Only): Locates the target optical fiber by emitting a red laser into the fiber.

Input Indicator: the interface position for the current function connection.

Battery Indicator: Displays the current battery capacity.

INCORRECT Line Result Prompt: Shows two statuses: INCORRECT and CORRECT.

POE: ID: Test Result Display: Shows POE voltage, battery voltage, continuity test status, and ID number.

Network Cable Test Result Area: Displays pair test status, crimping test results, etc.

Press key for 2 seconds to turn on/off

Up selection key

Down selection key

HUB Up function selection key

Digi Digital tracing

Anlg Analog tracing

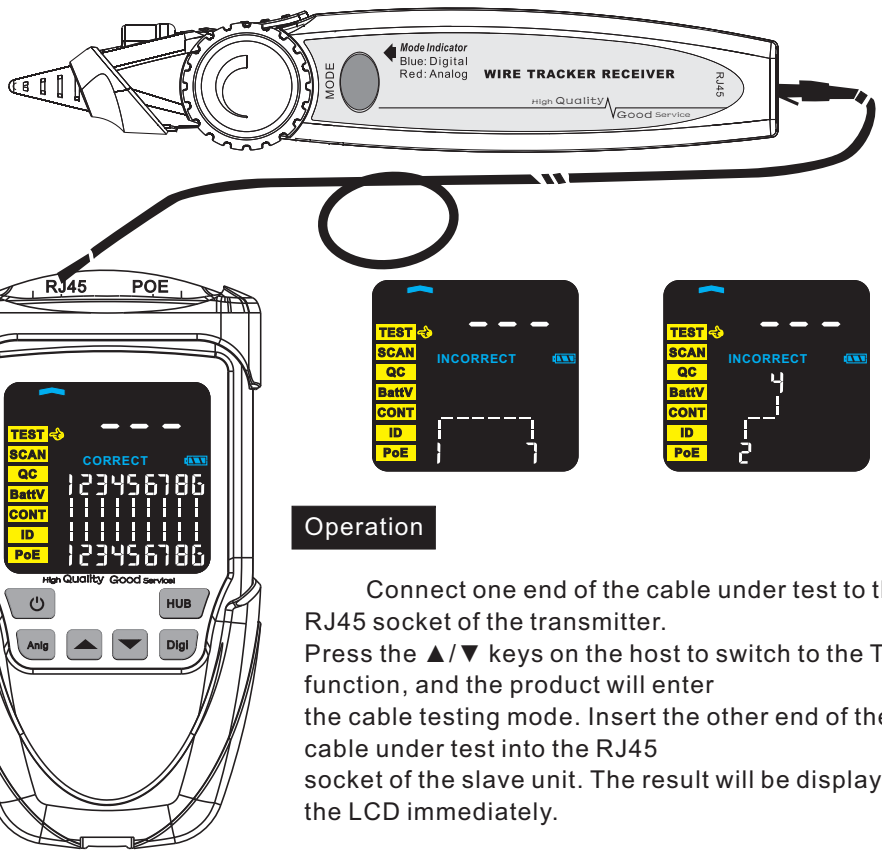
VFL function steady-on/flashing toggle key

VFL function off

**VFL function keys are only on the upgraded model.

Cable mapping（TEST）

Cable mapping Function: Checks network cable status including normal connection, open circuit, short circuit, and cross connection.



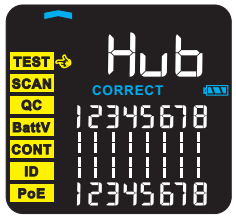
Operation

Connect one end of the cable under test to the RJ45 socket of the transmitter.
Press the ▲/▼ keys on the host to switch to the TEST function, and the product will enter
the cable testing mode. Insert the other end of the cable under test into the RJ45
socket of the slave unit. The result will be displayed on the LCD immediately.

Cable mapping（Hub TEST）

Operation

Press the HUB key, and the product will enter the switch cable testing mode with "HUB" displayed on the LCD. Connect one end of the cable under test to the RJ45 socket of the host, and insert the other end into the switch port. The product will then test the network cable and display the result on the LCD.



Cable Tracing（SCAN）

The Cable Tracing function is used to locate the target cable among numerous network cables. Connect one end of the cable under test (such as network cable, telephone line, and video signal cable adapted via alligator clips) to the RJ45 socket of the host. Press the ▲/▼ keys to switch to the SCAN wire tracing function, and the tracing signal will be transmitted through the cable. The tracing signal includes digital and analog signals. The device defaults to digital wire tracing signal upon power-on; users can switch between signals by pressing the DIGI/aNLG key.

Press and hold the MODE button on the receiver for 2 seconds to power it on and enter the wire tracing mode (blue light for digital tracing / flashing blue light for digital vibration / red light for analog tracing). Listen for the "beep" sound from the receiver's speaker around the other end of the cable under test (e.g., line terminals, telephone system distribution frames, junction boxes, or hub ports of computer networks). Compare the volume of the "beep" sounds; the cable emitting a continuous "beep" is the target cable to be traced.

To quickly locate the target cable, first turn the sensitivity knob of the tracer to the maximum level. After approaching the target cable, adjust the sensitivity to an appropriate level for precise positioning. At this point, connect the target cable to the RJ45 port of the tracer; if all the cable testing lights illuminate, the target cable is further confirmed to be correct.

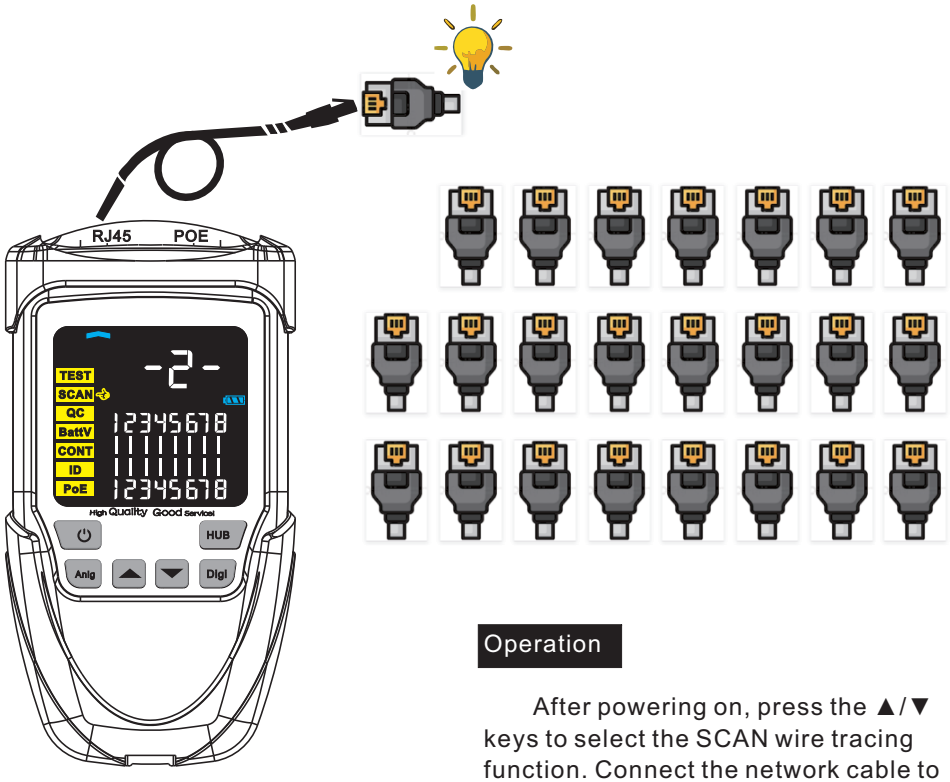


Operation

After power-on, press the ▲/▼ keys to select the SCAN wire tracing function. At this point, you can connect a network cable to the host's RJ45 port or use alligator clips to connect other metallic lines. Press the MODE button on the wire tracer to enter the wire tracing function. Judge and identify the target cable by the continuity and volume of the sound.

Cable Tracing（LED）

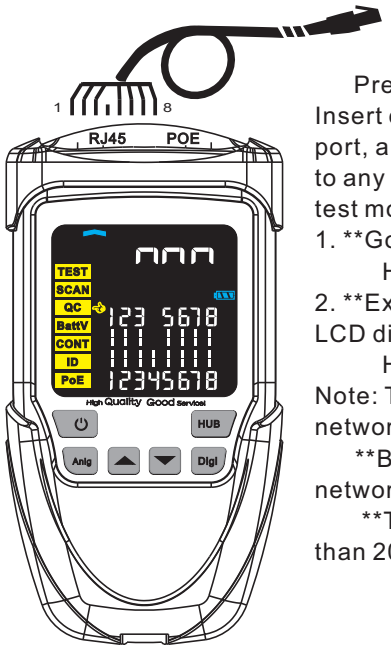
Featuring 24 remote LED interfaces, it lights up LEDs at corresponding network cable terminals via mainframe signal transmission for fast network cable identification and positioning.



Operation

After powering on, press the ▲/▼ keys to select the SCAN wire tracing function. Connect the network cable to the RJ45 port of the main unit, and attach the 24 LED test terminals to the other end of the network cable. Identify the target cable by observing the lit LED indicators.

Crimping Test Function



Operation

Press the ▲/▼ keys to switch and select the *QC . Insert one end of the cable under test into the RJ45 port, and leave the other end open without connecting to any device. The device will then enter the crimping test mode. The test results are indicated as follows:

1. **Good Connection**: The host LCD displays:
   Host: 1-2-3-4-5-6-7-8
2. **Example (Pin 4 not crimped properly)**: The host LCD displays:
   Host: 1-2-3-x-5-6-7-8

Note: The crimping test is used to verify whether the network cable is properly connected through crimping,

**Before entering this function, do not select the network cable.

**The cable length for crimping test must be longer than 20 cm.

ID

The ID Function is an optional feature.

Press the ▲/▼ keys to select the ID Function

Connect one end of the network cable to the optional ID identifier, and the other end to the host's RJ45 port.

The corresponding ID number will be displayed immediately on the host LCD, enabling accurate identification of the network cable.

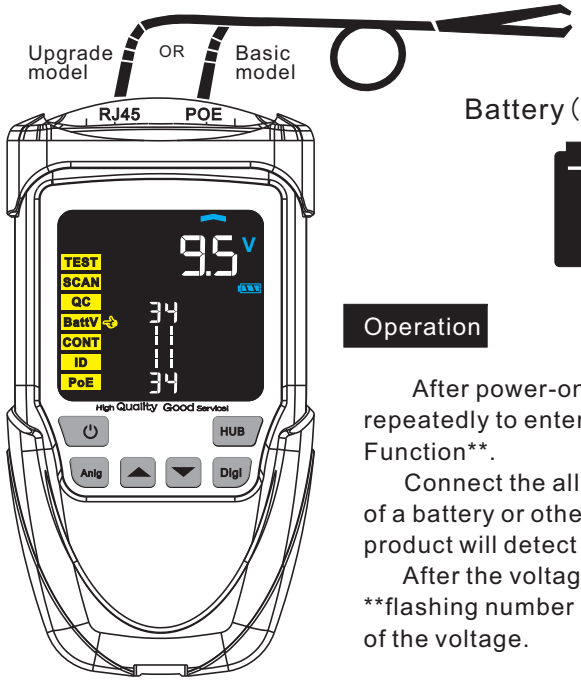


Battery Voltage（BattV）

This function can test some basic voltage conditions of the line, including the presence or absence of line voltage and the polarity of the voltage.

Insert one end of the alligator clip adapter cable / RJ11 telephone line into the transmitter socket,and attach the red and black clips to the line under test. If voltage is present on the telephone line,The LCD will display long connecting lines for 3 and 4, with the positive pole flashing;otherwise, 3 and 4 will show short connecting lines.

(Warning: Do not measure AC voltage or other high-voltage circuits, otherwise there is a risk of electric shock.)



Battery（52/24/12/9/3. 3/1. 5V）



Operation

After power-on, press the ▲/▼ keys repeatedly to enter the **Low Voltage Test Function**.

Connect the alligator clips to the two poles of a battery or other voltage source; the product will detect the voltage and its polarity.

After the voltage is measured, the **flashing number indicates the positive pole** of the voltage.

** Different products have different connection ports for voltage measurement. Please connect according to the input instructions.

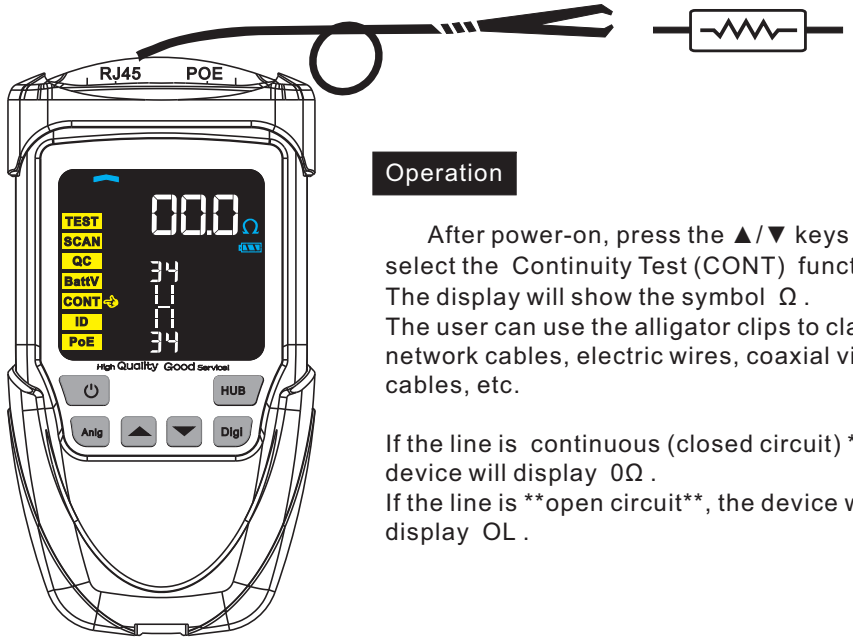
** Different products have different maximum measurable voltages. For details, refer to the technical specifications.

Continuity Test（CONT）

The continuity test function is used to check for short circuits in telephone lines when they are not connected to the telephone network.Before testing, measure whether there is voltage on the telephone line at first. The continuity test can only be performed if no voltage is detected.During the test, the LCD will display the corresponding indication for continuity or open circuit. For telephone lines with a pre-crimped crystal head, directly insert them into the MAIN/RJ45 port of the transmitter for testing. Alternatively, use the alligator clip adapter cable to clamp the line under test to measure continuity.

This function can also be used to test the continuity characteristics of other devices, and the product will display the corresponding continuity or open circuit status.

Continuity for Resistance



Operation

After power-on, press the ▲/▼ keys to select the Continuity Test (CONT) function. The display will show the symbol Ω.
The user can use the alligator clips to clamp network cables, electric wires, coaxial video cables, etc.

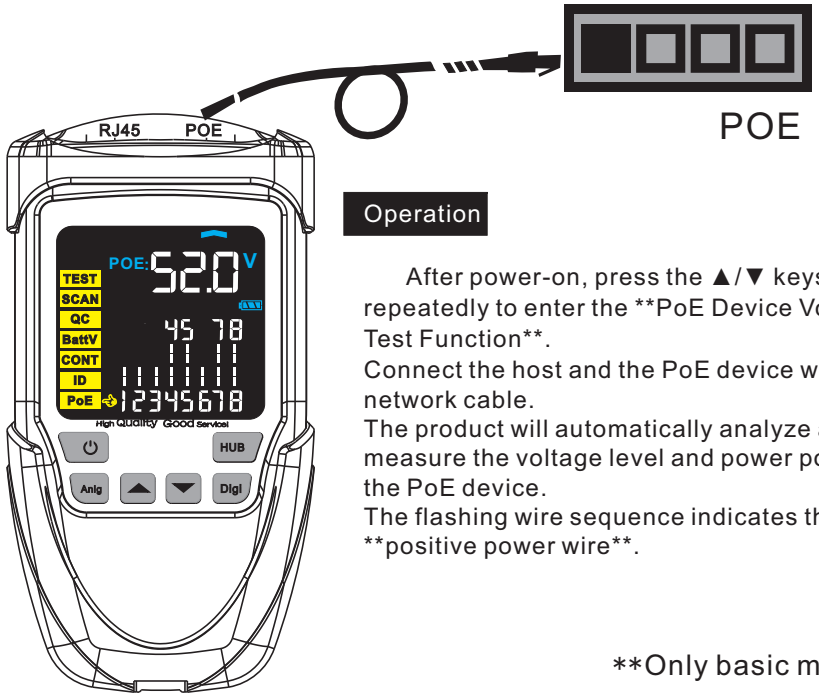
If the line is continuous (closed circuit) *, the device will display 0Ω.
If the line is **open circuit**, the device will display OL.

The PoE voltage test function(PoE)

The PoE voltage test function of this product can measure and analyze the power supply of PoE-powered devices, and test the basic status of PoE equipment, including the supply voltage and the polarity of the power supply lines.

Connect the network cable to the host socket according to the product input prompts, and connect the other end to a PoE-powered device. The product will detect the device, establish the corresponding communication as required, and then display the test results. For non-standard PoE, the supply voltage will be directly measured and displayed.

Note: After connecting the PoE device, the result will be displayed after a few seconds. If no result is displayed after 50 seconds, the connected device may not be a PoE device. The actual PoE output voltage may differ slightly from the nominal value, which is normal.



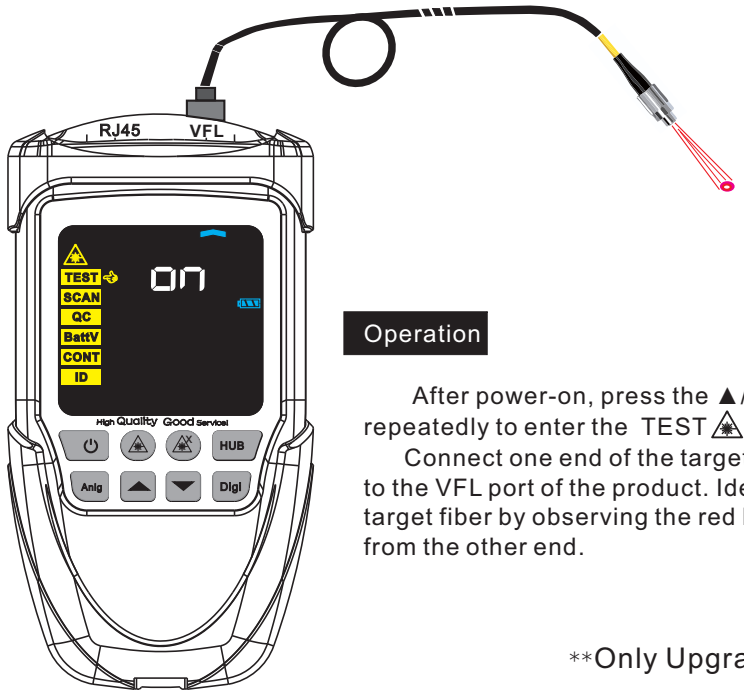
Operation

After power-on, press the ▲/▼ keys repeatedly to enter the **PoE Device Voltage Test Function**.
Connect the host and the PoE device with a network cable.
The product will automatically analyze and measure the voltage level and power polarity of the PoE device.
The flashing wire sequence indicates the **positive power wire**.

**Only basic model

Visual Fault Locator(VFL)

The VFL function of the product emits a red laser into the optical fiber. By observing the red laser at the other end of the fiber, the target fiber can be identified, thus realizing the fiber positioning function.



Operation

After power-on, press the ▲/▼ keys repeatedly to enter the TEST.
Connect one end of the target optical fiber to the VFL port of the product. Identify the target fiber by observing the red laser emitted from the other end.

**Only Upgrade model

FQA

Q: The LCD screen does not light up or flickers when the POWER key is pressed on the host.

A: The battery is exhausted; replace with a new battery.

Q: No audio sound during tracing when the MODE key is pressed on the tracer.

A: The battery is exhausted or not installed; please replace the battery.

Q: Poor tracing performance, cannot locate the target cable.

A1: Rotate the tracing intensity clockwise to the maximum. After confirming the range of the target network cable, increase the sensitivity to locate the target line.

A2: Move the tracer closer to the RJ45 port of the network cable for

Battery Replacement

detection.

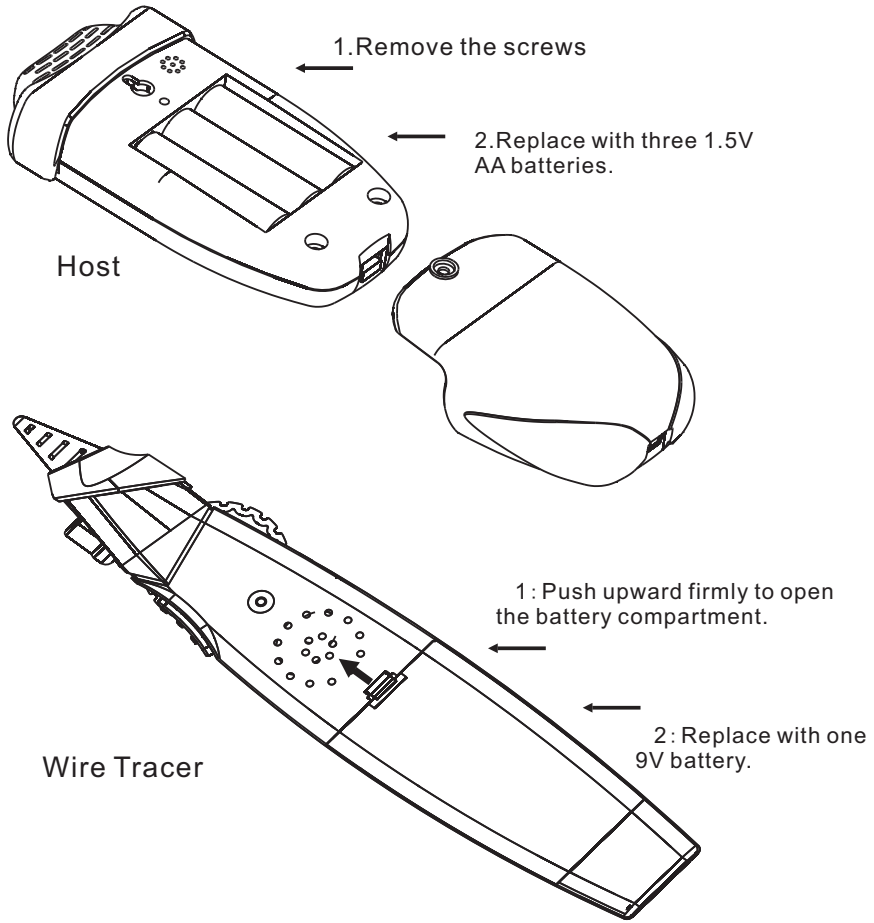
A3: When tracing connected to a switch, detect the network cable at approximately 40 cm away from the switch.

Q: Poor tracing performance, many network cables beep.

A1: Rotate the tracing intensity counterclockwise to reduce sensitivity and locate the target line.

A2: Switch to analog tracing and judge by the volume of the sound.

Battery Replacement



SPECIFICATIONS

Functions	Basic	Upgrade
Display Screen	VA Display / Color	
Cable Mapping	Normal/Open/Short/Cross	
HUB Cable Mapping	√	
Cable Tracing	Digital / Analog / Vibration Digital Tracing / Analog Tracing with Adjustable Sensitivity	
Cable Tracing for PoE Switch	√	
QC.crimping	√	
Continuity	√	
Remote ID	Optional functions ID1~15	
Input Indicator	√	
BattV	1~60V (2% or 0. 5v)	1~10V (+-0. 5v)
Special Functions	POE Volt / Polarity (5-60V) Fully Compatible with Standard & Non-Standard	VFL Visual Fault Locator
Battery Type	Host: 1.5V AA batteries × 3 Operating time: approx. 7 hours approx. 5 hours Wire Tracer: 9V dry battery Operating time: approx. 2 hours	
Other	Wire Tracer: Flashlight Function, Low Voltage Detection, Auto Power Off	
Package	Color Box / User Manual / Tool Kit RJ45 Cable / Alligator Clip	

* Remote identifier for ID cable testing function is not included as standard
* The above specifications represent the,optimal performance indicators .

QC PASS
QUALIFICATION CERTIFICATE