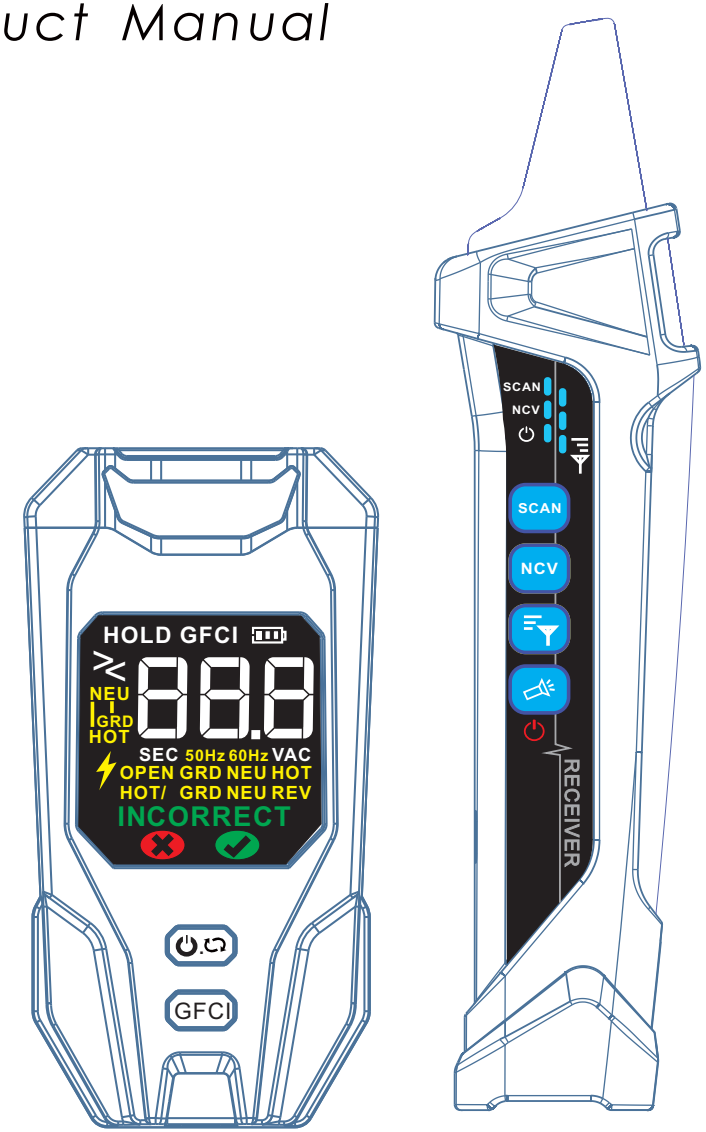
Digital Circuit Breaker Finder

Product Manual



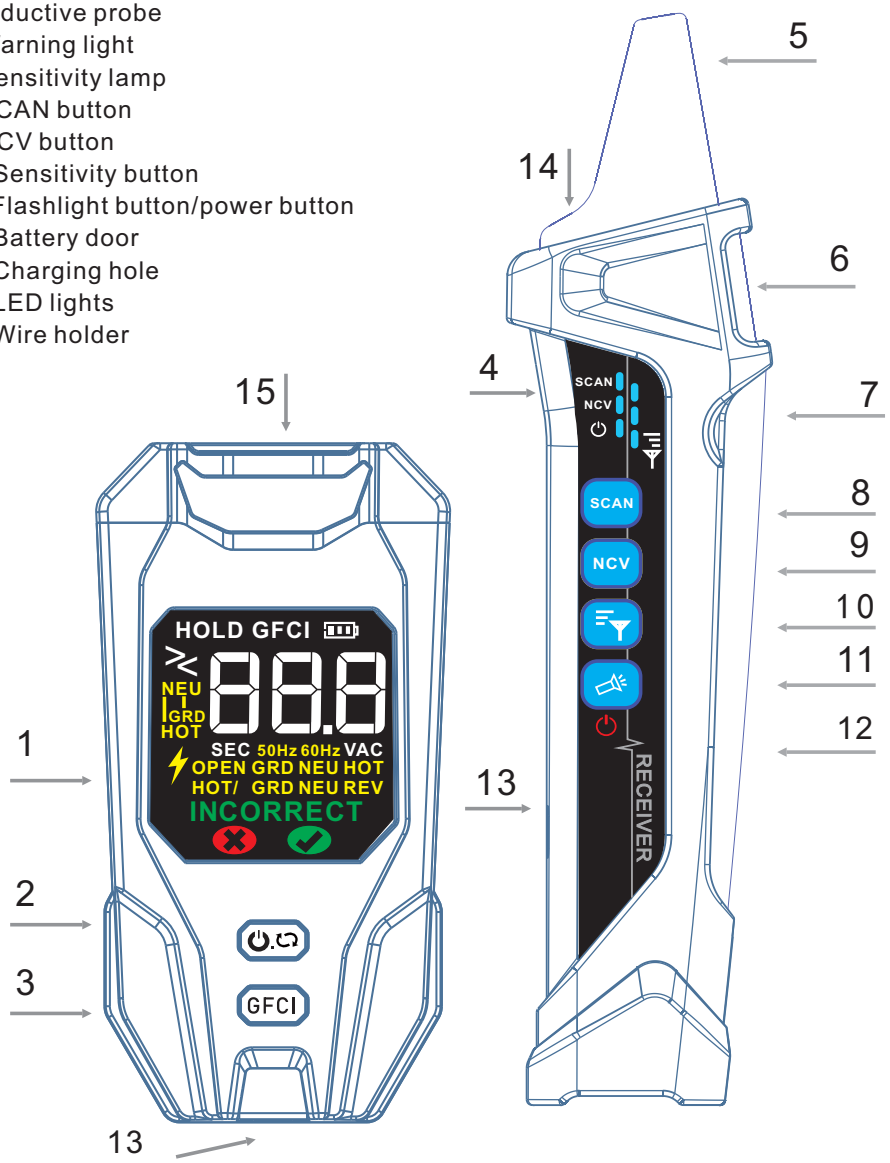
Warnings

To ensure the safe operation and service of the instrument, please follow the instructions below.

- Failure to follow instructions may result in death or serious injury.
- Before use, always verify tester operation by testing on a known live and properly wired power outlet.
- The tester is for indoor use only.
- Do not use the tester if it is damaged in any way.
- The tester is designed for use with a 230V AC electrical system. Do not connect it to a power source with a higher voltage.
- Other equipment or devices connected to the circuit under test may interfere with the tester, so please clear the circuit before testing.
- This tester only detects common wiring problems. Be sure to consult a qualified electrician to resolve wiring problems.
- If using accessories to connect bare wires, ensure that the circuit is not energized before inspecting, applying, or removing the transmitter.
- Be extra careful around live bare wires, especially when working inside or around an open circuit breaker panel.

Product Introduction

1：LCD
2：Power/switch button
3: GFCI test button
4: Indicator light
5: Inductive probe
6: Warning light
7: Sensitivity lamp
8: SCAN button
9: NCV button
10: Sensitivity button
11: Flashlight button/power button
12: Battery door
13: Charging hole
14: LED lights
15: Wire holder



Transmitter Receiver

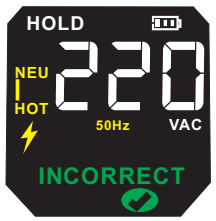
Characteristic

1. Socket extension cord connection design, adapting to any position socket testing needs
2.Intelligent AI mode, easy and accurate operation
3. Clear identification of the correct circuit breaker through visual and auditory cues
4. Determine the wiring condition of the power outlet
5. Test GFCI equipment and disconnect time
6.Adjustable sensitivity, suitable for various complex
7. The NCV sensing function is safer and more reliable
8.VA LCD color display is more intuitive
9. Rechargeable lithium battery power supply is economical and environmentally friendly

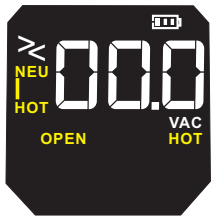
Product Introduction

This product is a digital circuit breaker finder that is used to locate the correct circuit breaker connected to a socket or fixture in an electrical panel, and can also measure the disconnection response time of GFCI circuit breakers. The product uses a color LCD display to directly display the quality of the line connection and voltage values. During the circuit breaker search operation, the transmitter needs to be connected to the socket or fixture in the circuit, and the receiver is used to scan each circuit breaker in the circuit breaker panel. It uses a dedicated chip design, significantly improves work efficiency and detection accuracy through AI intelligent mode, supports sensitivity adjustment to adapt to complex working environments, and provides a fast and accurate operation experience, especially suitable for electricians or home maintenance scenarios.

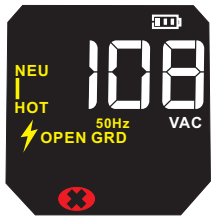
FIG. 1



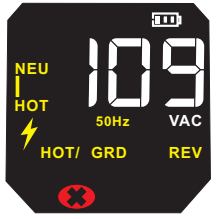
CORRECT WIRING



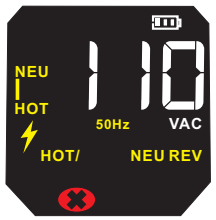
OPEN HOT



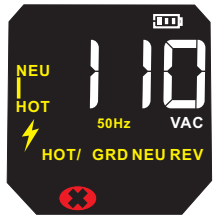
OPEN GROUND



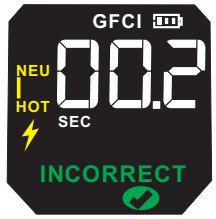
HOT & GND REV



HOT & NEU REV



HOT ON NEU WITH HOT OPEN



GFCI TESTING IN PROGRESS

POWER ON/OFF

Transmitter: Long press the power button (2) for 2 seconds to turn on the product, and the LCD will display the current status.

After turning on the device, click the power button (2) to switch and display the line voltage.

Receiver: Long press the power button (11) to start the receiver and the blue power/scan indicator light will be on, indicating that the device has been started. Press the power button (11) for 2 seconds to turn off the receiver. If there is no operation for 10 minutes, the device will automatically turn off.

WIRING CONDITION

Prior to using this tester, always verify proper operation by testing the transmitter on a known energized and correctly wired electrical outlet.

Testing steps: Insert the transmitter into the socket to be tested, and judge the wiring status according to the prompt displayed on the LCD (FIG. 1).

NOTE: Conditions NOT indicated include but are not limited to quality of ground, multiple hot wires, reversal of neutral and ground conductors, dual open ground and neutral, and other combinations of defects.

NOTE: All appliances or equipment on the circuit being tested shouldbe unplugged to help reduce the possibility of erroneous readings.

GFCI TEST

NOTE: Check the GFCI device's user manual for information on how the specific device operates prior to using this tester.

NOTE: All appliances or equipment on the circuit being tested should be unplugged to help reduce the possibility of erroneous readings.

NOTE: Not designed for testing 30mA ground-fault devices.

If the tester indicates that the outlet is not wired correctly, **DO NOT attempt to test the GFCI device**. **Consult a qualified electrician**.

Press the GFCI button (3) on the transmitter to test the GFCI device. Following the test:

Test passed: GFCI trips and powers off, LCD displays CFCI response time (SEC), and should display "wiring is correct" after resetting.

If the circuit remains Energized, the GFCI device didn't trip, indicating that it may be incorrectly wired, may not be installed correctly, or may not be functioning correctly. Consult a qualified electrician.

FINDING CIRCUIT BREAKERS

Preparation conditions: After confirming that the socket is powered on and wired correctly, turn on the receiver and enter search mode (AI recognition learning state).

If the tester shows that the socket wiring is incorrect, please stop testing and consult a qualified electrician.

Operation steps:

Align the receiver sensing end (5) vertically with the distribution box circuit breaker and slowly scan all circuit breakers twice:

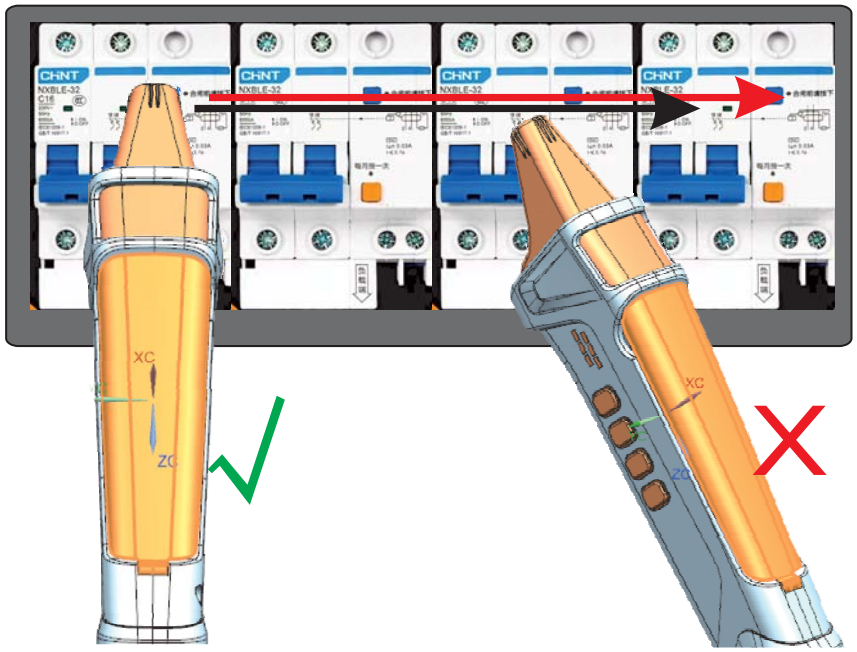
First round scan: ignore sound and light prompts (system learning stage).

Second round scan: When approaching the target circuit breaker, the buzzing frequency increases, and when the positioning is successful, it continues to sound and the status light remains on.

Complex environment processing: Press the signal strength key (10) to switch sensitivity/AI mode for improved accuracy

Attention: After shutting down, the learning data is reset to zero, and each detection requires relearning the distribution box.

FIG.2 1.Scan once to LEARN
(ignoringany audible or visual indications)
2.Scan again to LOCATE



Operating instructions

BARE WIRES

The transmitter may be connected to bare wires using the outlet-to-alligator clips wire adapter. Carefully attach the alligator clips the correct wires. Insert transmitter into the outlet on the wire adapter. The indicators on the transmitter will communicate an open ground wiring condition if the wires are energized. Follow the instructions in the FINDING CIRCUIT BREAKERS section to find the correct circuit breaker.There are other ways to connect the transmitter to the socket or LIGHT SOCKET FIXTURES.

Exercise extreme caution when working around energized bare wires.

NCV voltage detection function

After the receiver is turned on, press the NCV button and the product enters the voltage detection function, which can determine whether the line is energized; press the sensitivity button（10）to switch the voltage detection sensitivity.

Flashlight function

After the receiver is turned on, press the open key to turn on or off the product lighting function.

battery charging

Transmitter: When the LCD displays low voltage, please charge the battery in a timely manner.

Receiver:When the power indicator light (4) flashes, it indicates that the battery voltage is low. Please charge the battery in a timely manner.

Specifications

Function	
Detection distance	0~3cm
Operating Voltage （Only one）	90-120V 50/60Hz 5W Or 200-230V 50/60Hz 5W
Socket Standards	American/European/British/ National standards are available
GFCI Test	√ / Trip time
LCD Display	Color VA Screen
Line voltage	Hot-to-neutral/Neutral-to-ground voltage
Line status	Open Hot/Hot & Neutral Reversed Open Ground/Hot & Ground Reversed
Line detection results	Status：Correct Wiring/Incorrect Wiring
Leakage Switch Detection	Learning mode / Standard mode
Battery Level	Hint for levels 0-3
NCV	AC90V~1000V 50/60Hz
Operating current	Transmitter about 80mA/Receiver about 150mA
Battery	Transmitter / Receiver 3.7v lithium battery
Adjustable sensitivity	√
Lighting	√
Dimensions	240*145*65mm
Operating Temp	0~50 ℃
Relative Humidity:	<85%
Package	Tool kit/color box/manual/ battery (installed in the product) USB charging cable