NOYAFA NF-827

NOYAFA NF-827 Circuit Breaker Finder Tool Instruction Manual

Model: NF-827

1. Introduction

The NOYAFA NF-827 is a versatile electrical testing tool designed for quickly identifying circuit breakers, testing GFCI outlets, and detecting non-contact voltage (NCV). This manual provides essential information for the safe and effective use of the device.

2. Safety Information

- Always ensure the power source is within the specified operating voltage range (90-120V AC).
- Do not use the device if it appears damaged or is not functioning correctly.
- Exercise caution when working with live electrical circuits. If unsure, consult a qualified electrician.
- Keep the device dry and away from moisture.
- This device is intended for identifying energized 120V electrical systems.

3. Package Contents

Verify that all items are present in your package:

- 1 x NF-827 Receiver
- 1 x Socket Tester (Transmitter)
- 1 x 3-prong to 2-prong grounding adapter
- 1 x Light socket adapter
- 1 x Alligator clip adapter
- 1 x Storage Case
- 1 x Instruction Manual

4. Product Overview

The NOYAFA NF-827 consists of two main parts: a transmitter (socket tester) and a receiver. The receiver also features a Non-Contact Voltage (NCV) detection function and an integrated flashlight.

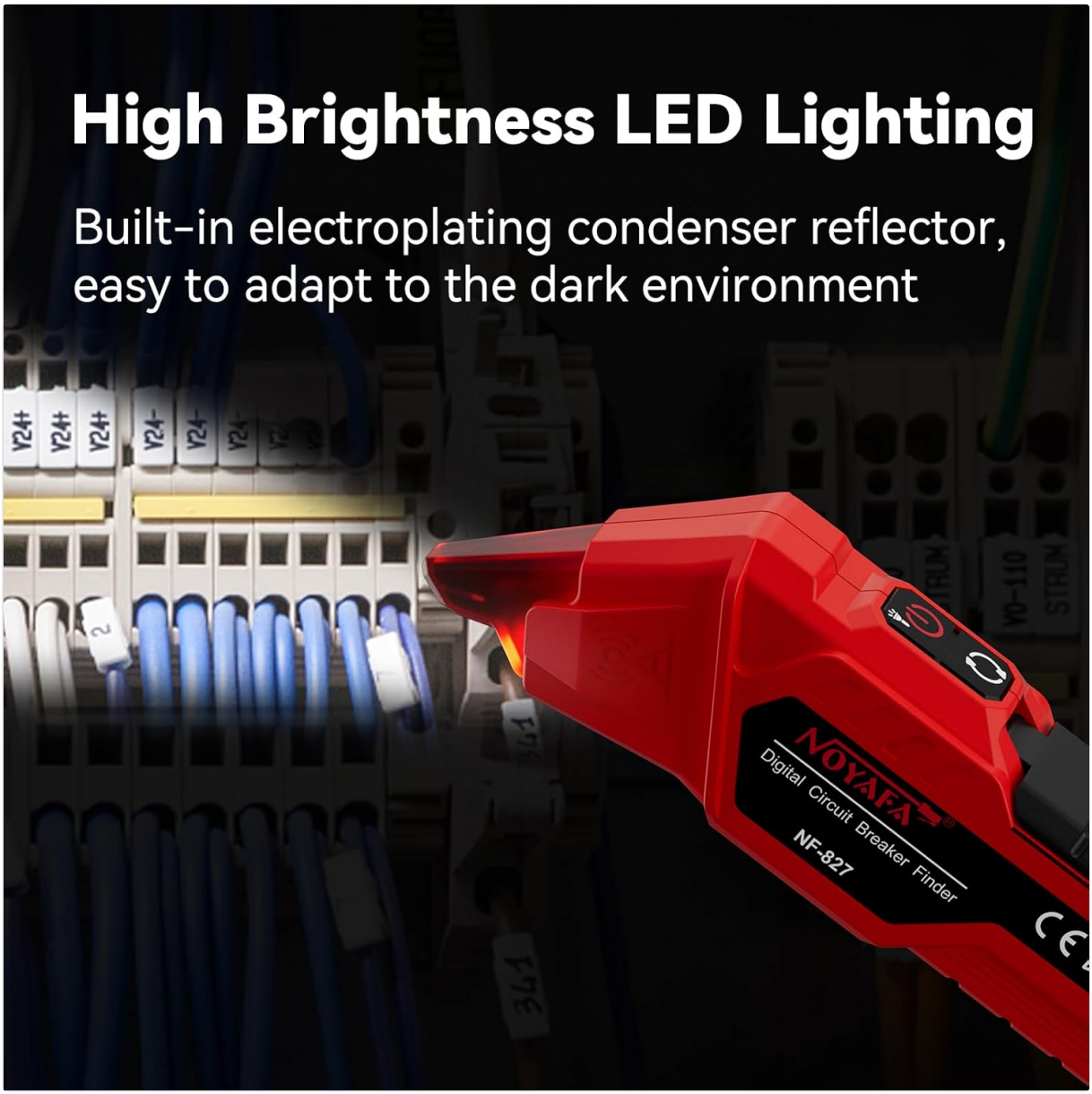

Image: The NF-827 receiver features high-brightness LED lighting for use in dark environments.

5. Setup

The NF-827 requires 1 Lithium Ion battery, which is included. Ensure the battery is properly installed before first use. No specific user installation steps are typically required for the included battery.

6. Operating Instructions

6.1. Circuit Breaker Identification

1. **Plug in the Transmitter:** Insert the socket tester (transmitter) into the electrical outlet or fixture you wish to trace. Ensure the outlet is energized (90-120V AC, 50/60Hz).
2. **Activate Receiver:** Turn on the NF-827 receiver. The red light on the receiver will illuminate.
3. **Scan the Panel:** Slowly move the receiver's probe along the circuit breakers in your electrical panel.
4. **Identify Breaker:** When the receiver approaches the correct circuit breaker, it will emit an audible beep and the red light on the probe will flash or light up more intensely.

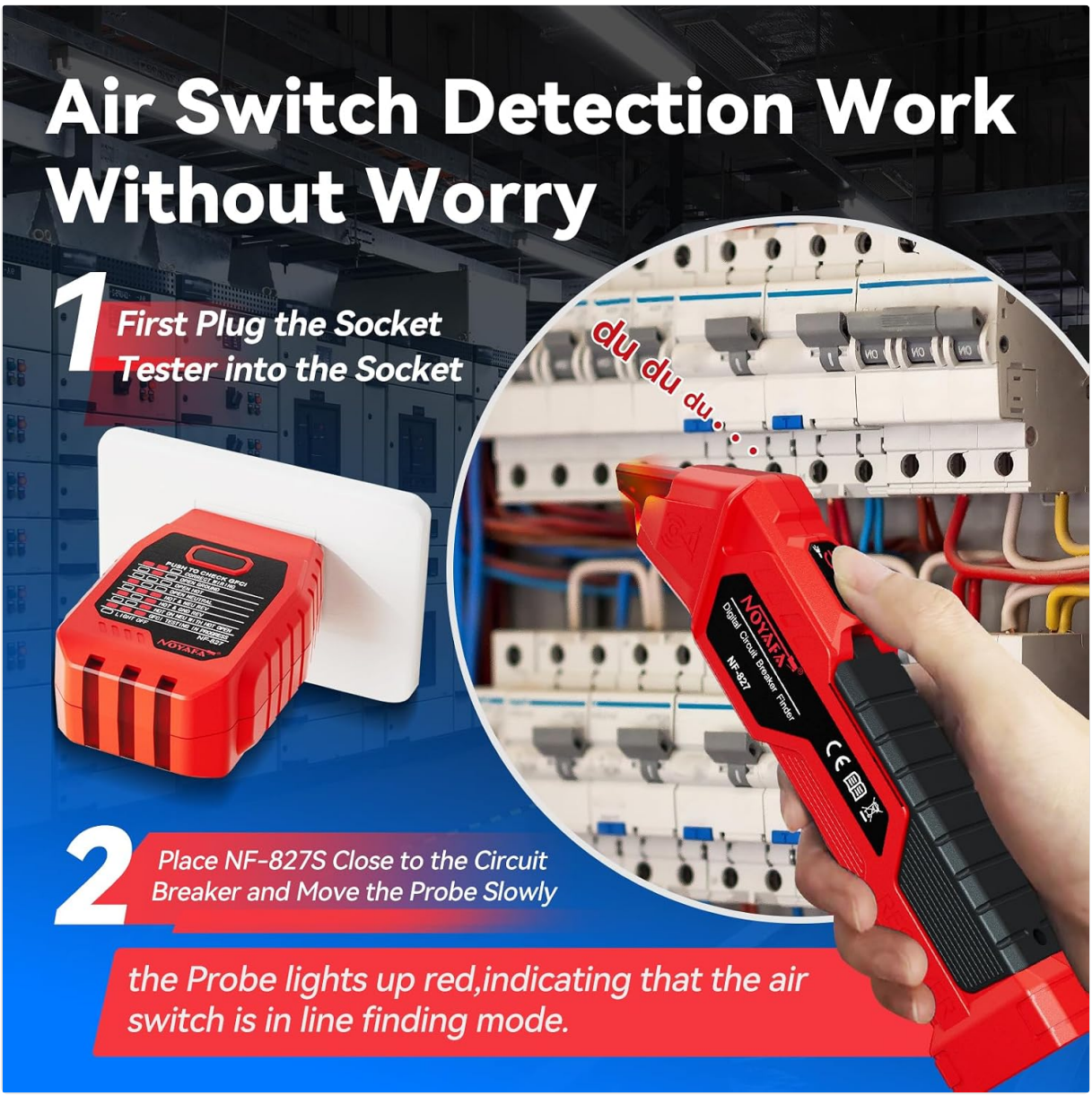

Image: Step-by-step guide showing how to plug the socket tester into an outlet and then use the receiver to scan the circuit breakers.

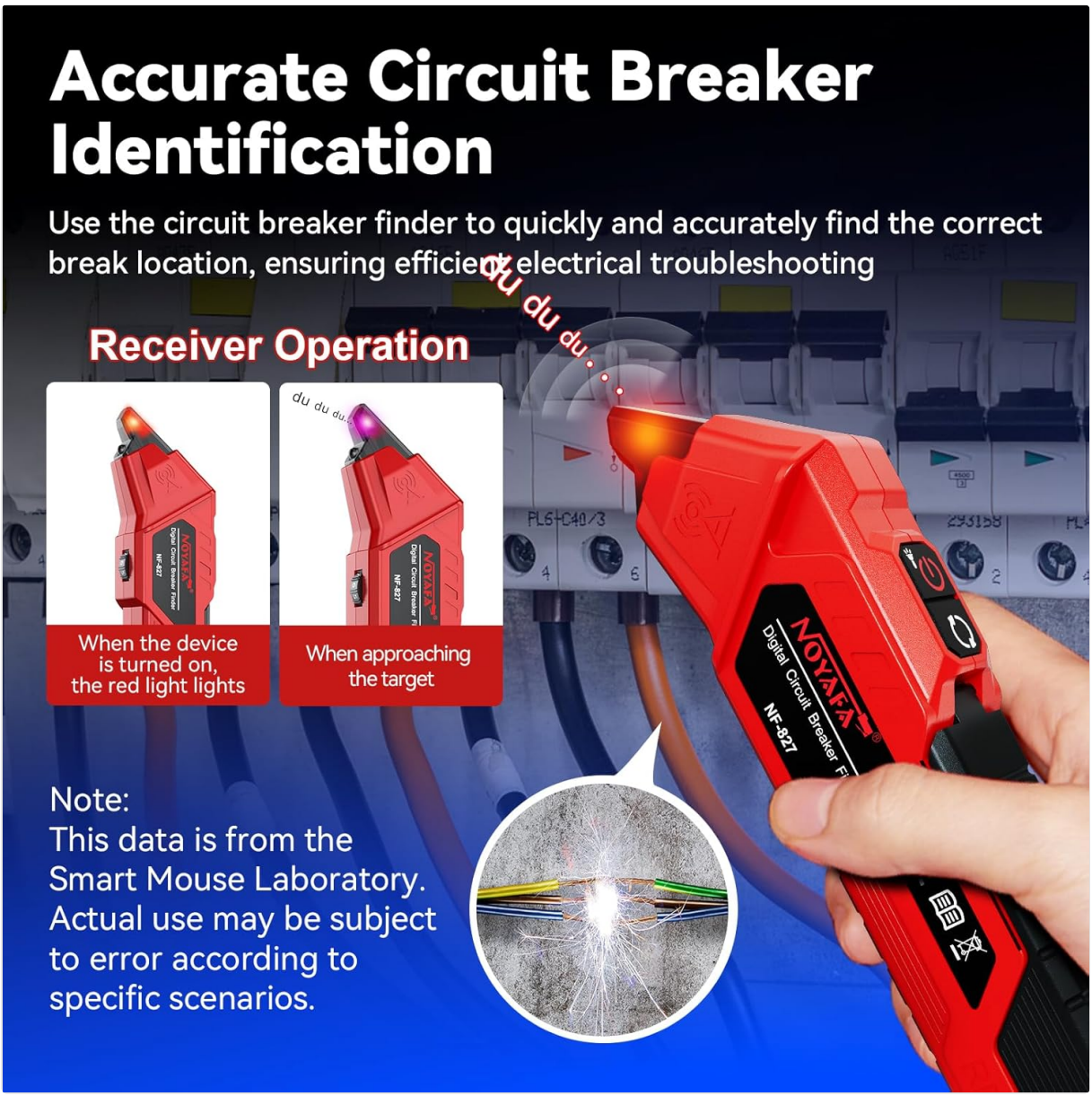

Image: Visual representation of the receiver's indicator lights when turned on and when approaching the target circuit breaker.

6.2. Sensitivity Adjustment

The NF-827 receiver features a sensitivity adjustment dial (1-7 gear levels). If the receiver is beeping near multiple breakers, reduce the sensitivity to pinpoint the correct one more accurately. Increase sensitivity if the signal is weak.

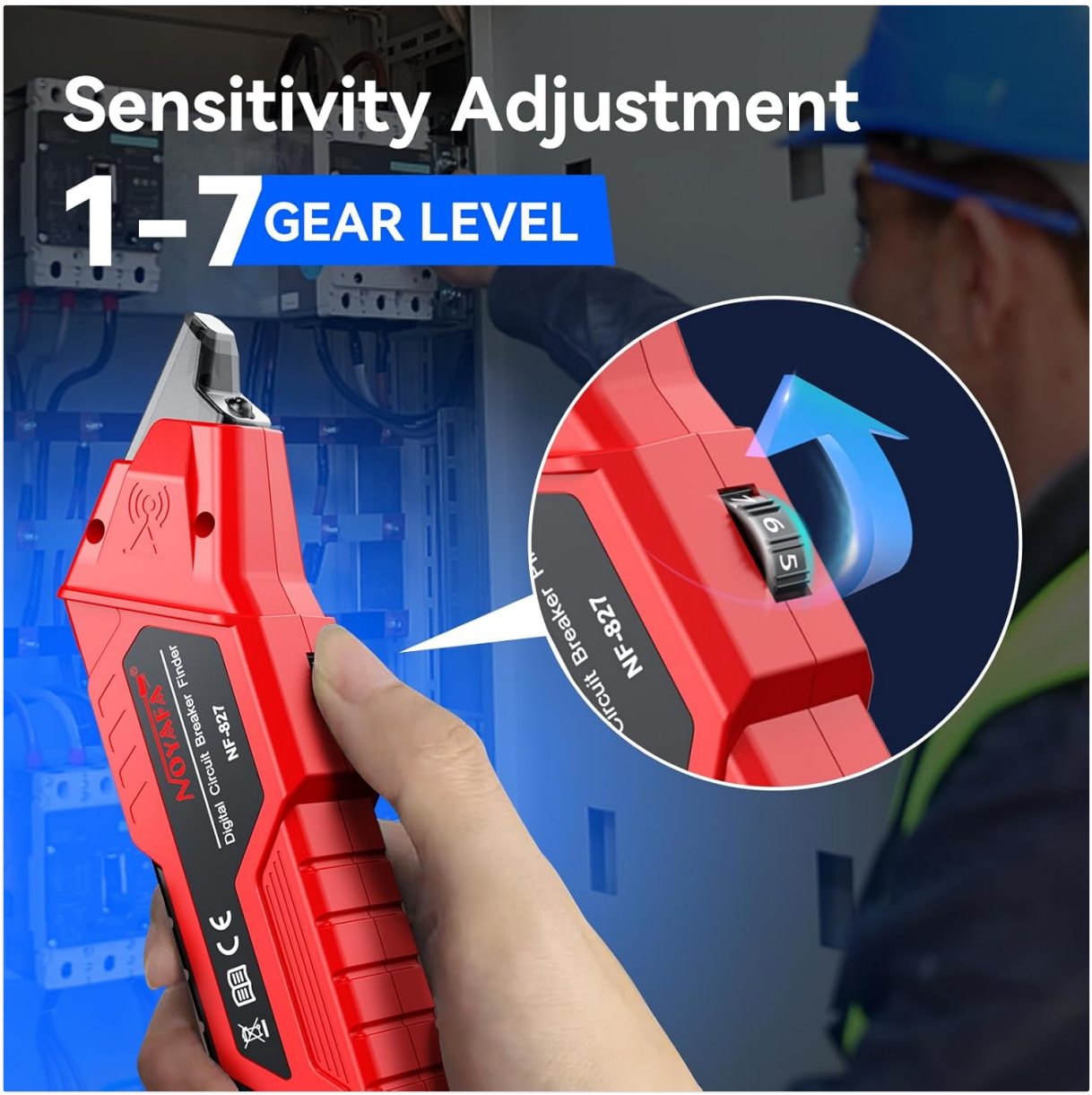

Image: Close-up of the sensitivity adjustment dial on the NF-827 receiver, showing gear levels 1 through 7.

6.3. GFCI Outlet Testing

The socket tester (transmitter) includes a GFCI security test function:

1. **Plug in the Socket Tester:** Insert the socket tester into a GFCI outlet.
2. **Observe Indicators:** The three indicator lights on the socket tester will show the wiring status (e.g., correct wiring, open ground, open hot). Refer to the comparison table on the device for interpretation.
3. **Perform GFCI Test:** Press the GFCI test button on the socket tester. A properly functioning GFCI outlet should trip, cutting power to the outlet.
4. **Reset GFCI:** Reset the GFCI outlet after testing.

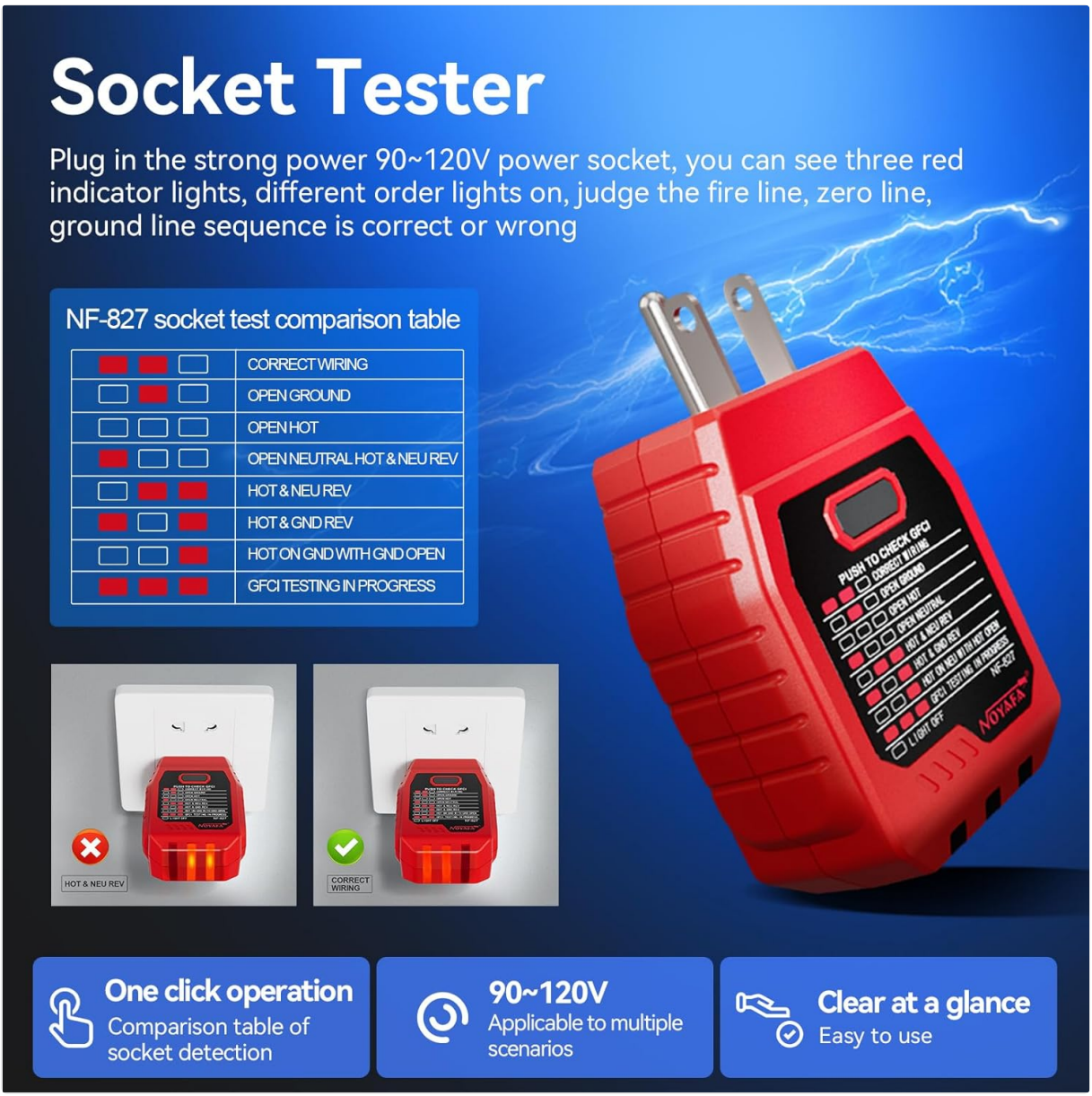

Image: The socket tester showing its indicator lights and a comparison table for interpreting wiring conditions, including GFCI test status.

6.4. Non-Contact Voltage (NCV) Detection

The receiver features an NCV function for detecting live voltage without direct contact:

1. **Activate NCV:** The NCV function is integrated into the receiver.
2. **Detect Voltage:** Bring the tip of the receiver close to wires, sockets, or other electrical equipment. If live voltage is detected, the receiver will indicate with a visual and/or audible alert.

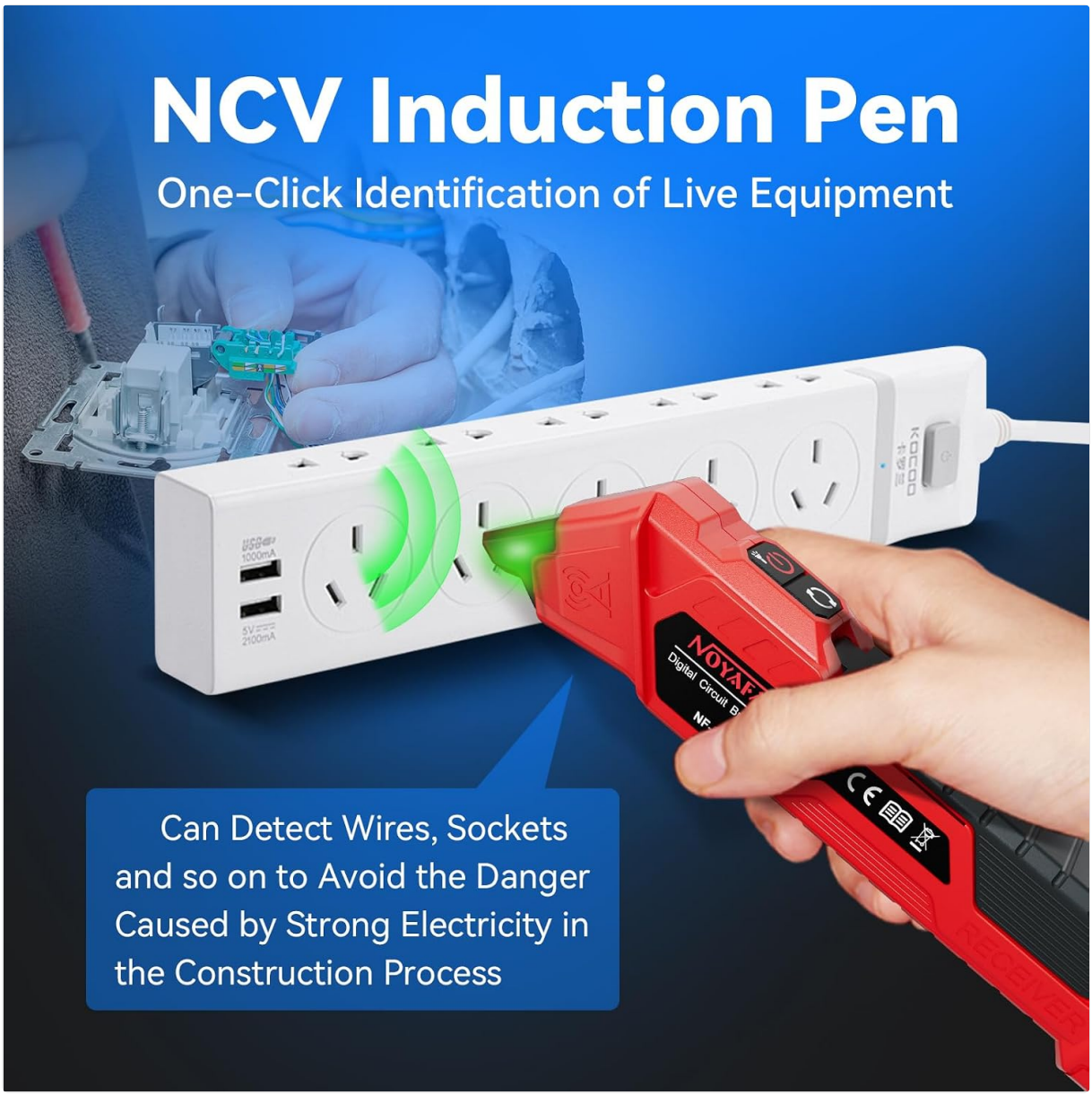

Image: The NF-827 receiver being used as an NCV induction pen to detect live voltage in a power strip, indicated by a green light.

6.5. Using Additional Adapters

The NF-827 comes with several adapters to expand its versatility:

- **3-prong to 2-prong grounding adapter:** Allows the socket tester to be used with older 2-prong outlets.
- **Light socket adapter:** Enables circuit identification in lighting fixtures by screwing into a standard light bulb socket.
- **Alligator clip adapter:** Connects to bare wires for testing circuits where standard plugs are not available.

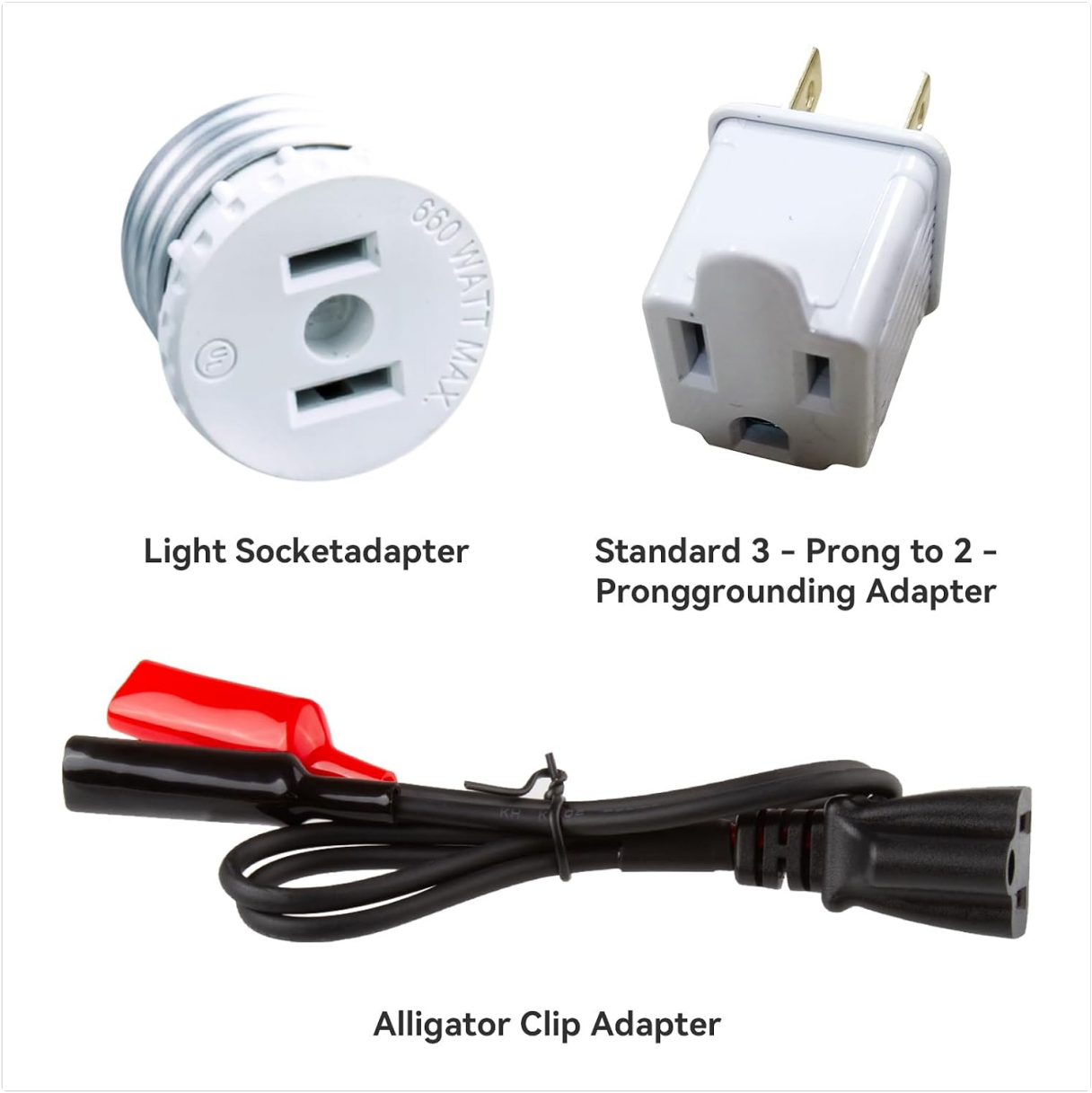

Image: The three additional accessories included with the NF-827: a light socket adapter, a standard 3-prong to 2-prong grounding adapter, and an alligator clip adapter.

7. Maintenance

To ensure the longevity and accuracy of your NF-827:

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the NF-827 in its provided storage case when not in use. The case is designed to be splashproof, shockproof, and scratch-resistant, protecting the tool from damage and dust.
- **Battery:** If storing for extended periods, consider removing the battery to prevent leakage.

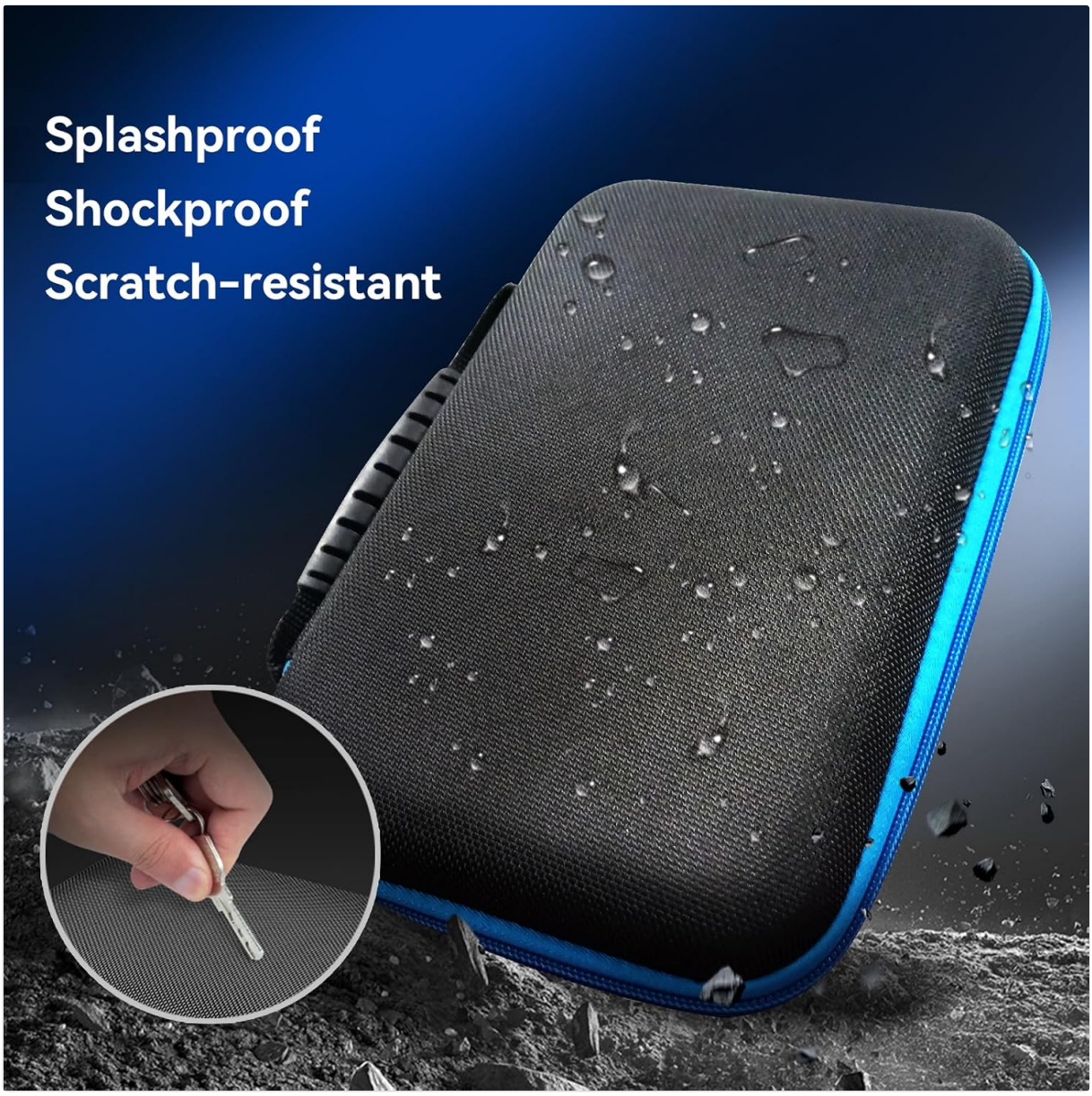

Image: The durable storage case for the NF-827, highlighting its splashproof, shockproof, and scratch-resistant properties.

8. Troubleshooting

- **No Indication from Receiver:** Ensure the transmitter is properly plugged into an energized outlet. Check the receiver's battery level.
- **Receiver Beeps Near Multiple Breakers:** This can occur if electrical lines run close and parallel to each other. Adjust the sensitivity dial to a lower setting (e.g., 1 or 2) to narrow down the signal. Move the receiver slowly and precisely.
- **Inaccurate GFCI Test:** Ensure the outlet is a GFCI type. If the GFCI does not trip, the outlet may be faulty or incorrectly wired. Consult a qualified electrician.
- **Low Power Indicator:** If the low power indicator illuminates, replace or recharge the battery as appropriate for your model.

9. Specifications

Feature	Specification
Model Number	NF-827

Operating Voltage	90-120V AC, 50/60Hz
Power Source	Battery Powered (1 Lithium Ion battery included)
Measurement Type	Multimeter functions (Circuit Breaker Finder, GFCI Tester, NCV)
Safety Standards	CE, ETL, UL 61010-1
Dimensions	29.69 x 17.2 x 6.81 cm (Parcel)
Weight	608 g (Parcel)
Country of Origin	China

10. Warranty and Support

The NOYAFA NF-827 Circuit Breaker Finder Tool comes with a**1-year warranty** from the date of purchase.

For technical support, troubleshooting assistance, or warranty claims, please contact NOYAFA customer service through their official website or the retailer where the product was purchased. Please have your model number (NF-827) and proof of purchase ready.