BSIDE AVX1

BSIDE AVX1 Voltage Tester Instruction Manual

Non-Contact AC Electrical Voltage Detector Pen with 3-Phase Rotation Indicator & Signal Percentage

1. Introduction

The BSIDE AVX1 is a versatile non-contact AC voltage tester designed for electrical professionals and DIY enthusiasts. It features a color display, dual sensitivity modes, 3-phase rotation indication, and a rechargeable battery, making it an essential tool for safe and efficient electrical work.

2. Key Features

- **3-Phase Rotation Tester:** Non-contact voltage tester integrated with a 3-phase rotation meter, indicating "L" (left) or "R" (right) rotation for convenience.
- **Signal Percentage and Analog Bar:** Large color screen displays both voltage signal percentage and an analog bar for clear readings.
- **Rechargeable Battery:** Equipped with a built-in rechargeable battery, eliminating the need for frequent battery replacements.
- **High/Low Sensitivity with 6 Ranges:** Offers high and low sensitivity modes, each with low, medium, and high ranges for various detection scenarios.
- **Triple Mode Alarm:** Provides visual (signal percentage, analog bar, flashlight color), audible (buzzer frequency), and tactile (vibration) alarms based on voltage signal strength.
- **Auto Power Off:** Automatically powers off after a period of inactivity to conserve battery.
- **Low Battery Indication:** Alerts the user when the battery level is low.

3. Package Contents

Verify that all items are present in the package:

- 1 x BSIDE AVX1 Voltage Tester
- 1 x Charging Cable
- 1 x Rechargeable Battery (built-in)
- 1 x User Manual (this document)

Image: The BSIDE AVX1 Voltage Tester shown with its included charging cable and user manual, illustrating the complete package contents.

4. Setup and Charging

Before initial use, ensure the device is fully charged. The BSIDE AVX1 comes with a built-in rechargeable battery.

1. Locate the charging port on the device.
2. Connect the provided charging cable to the device and a suitable USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light will illuminate during charging. Once fully charged, the indicator may change color or turn off, depending on the model.

Image: The BSIDE AVX1 Voltage Tester being charged via its USB port, with a red indicator light showing the charging status.

5. Operating Instructions

5.1 Power On/Off and Sensitivity Modes

- Press the red power button to turn the device on or off.
- Press the "V-Alert" button to switch between high and low sensitivity modes. The display will indicate the current mode (e.g., "90V-1KV LO" for low sensitivity, "12V-1KV HI" for high sensitivity).

5.2 Non-Contact Voltage Detection (V-Alert)

The device uses non-contact technology to detect AC voltage, providing a safe way to identify live wires.

1. Turn on the voltage tester.
2. Bring the tip of the tester close to the wire or electrical outlet you wish to test.
3. If AC voltage is detected, the device will emit an audible alarm, the LED indicator will flash, and the screen will

display the signal percentage and analog bar. The color of the flashlight will also change based on signal strength.

Image: The BSIDE AVX1 Voltage Tester performing non-contact voltage detection near a circuit breaker, showing a visual alert on its screen.

5.3 Live Wire Check

Distinguish between live and neutral wires in an outlet or circuit.

1. Ensure the tester is in the appropriate sensitivity mode.
2. Insert the tip of the tester into the slots of an electrical outlet or near individual wires.
3. A strong alarm and high signal percentage indicate a live wire. A weaker or no alarm indicates a neutral or ground wire.

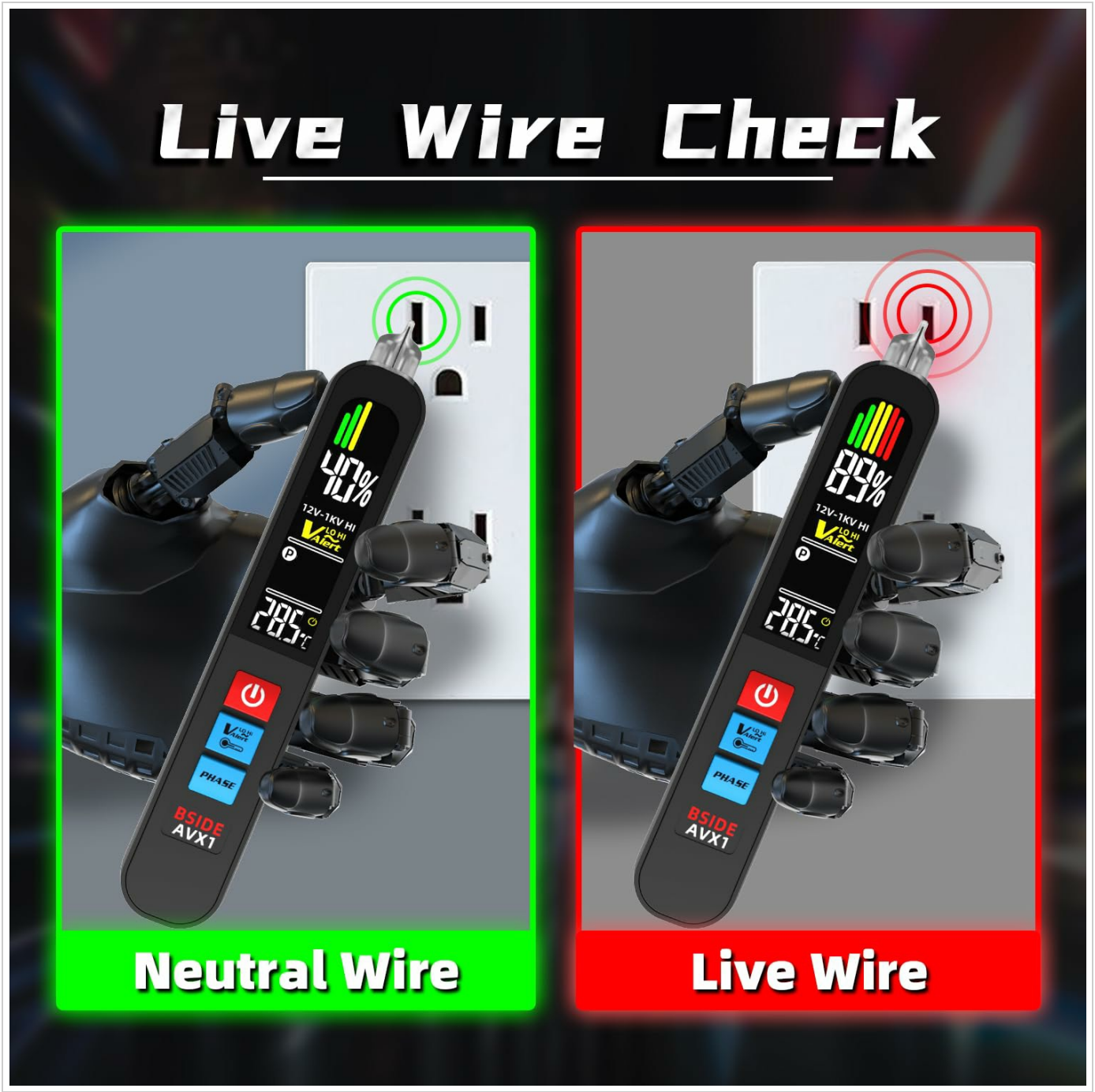

Image: The BSIDE AVX1 Voltage Tester demonstrating live wire detection in an electrical outlet, showing distinct responses for neutral (green light) and live (red light) connections.

5.4 3-Phase Rotation Test

This feature helps determine the phase sequence in 3-phase electrical systems.

1. Press the "PHASE" button to activate the 3-phase rotation test mode.
2. Bring the tip of the tester near the three phases (A, B, C).
3. The display will show "L" for left rotation or "R" for right rotation, indicating the phase sequence.

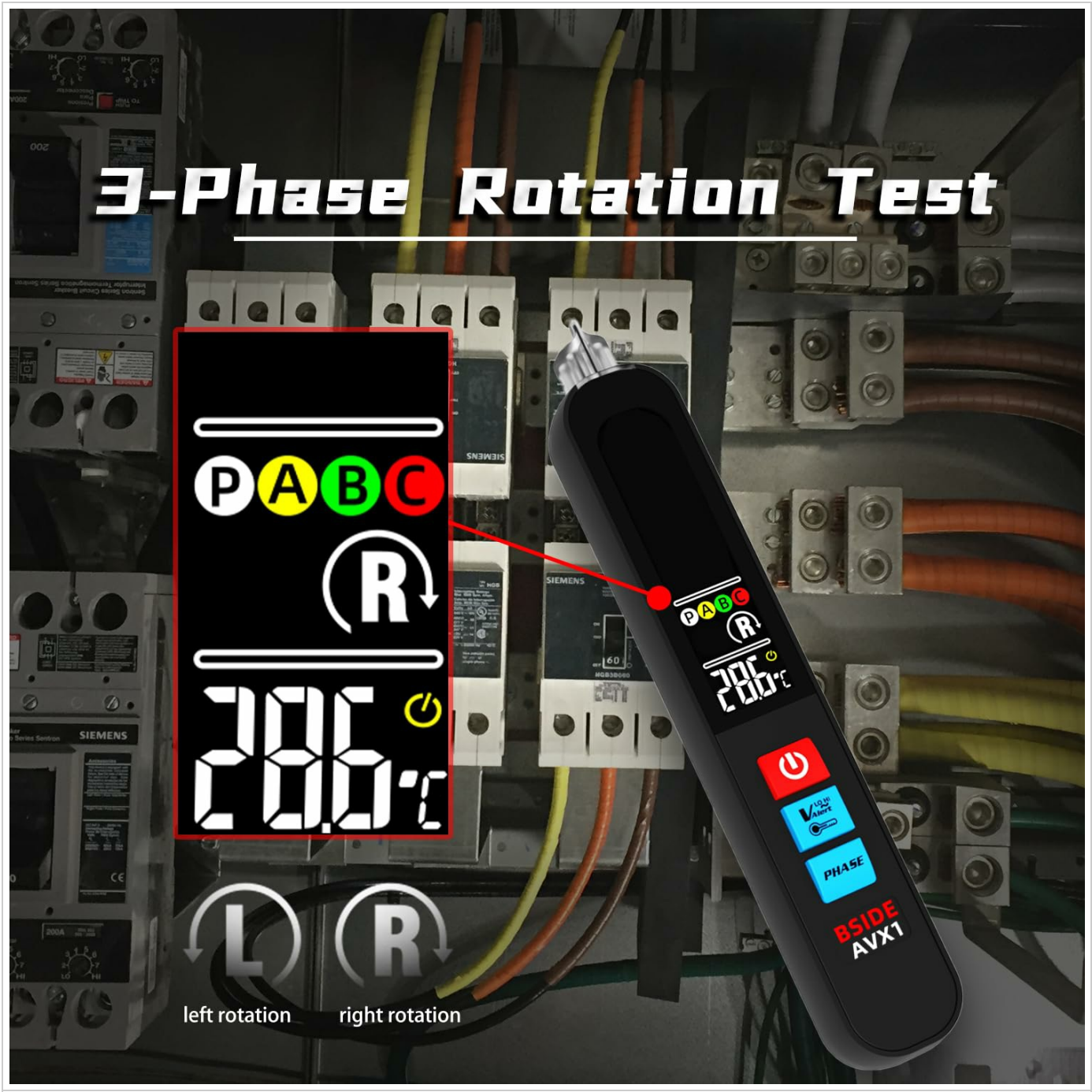

Image: The BSIDE AVX1 Voltage Tester displaying the result of a 3-Phase Rotation Test, showing "L" for left rotation and "R" for right rotation on its screen, with an electrical panel in the background.

5.5 Signal Percentage and Analog Bar Display

The color screen provides a clear visual representation of the detected voltage strength.

- The signal percentage indicates the relative strength of the detected AC voltage.
- The analog bar graph visually represents the signal strength, with more bars indicating higher voltage.
- The device's flashlight color and buzzer frequency will also correspond to the signal strength.

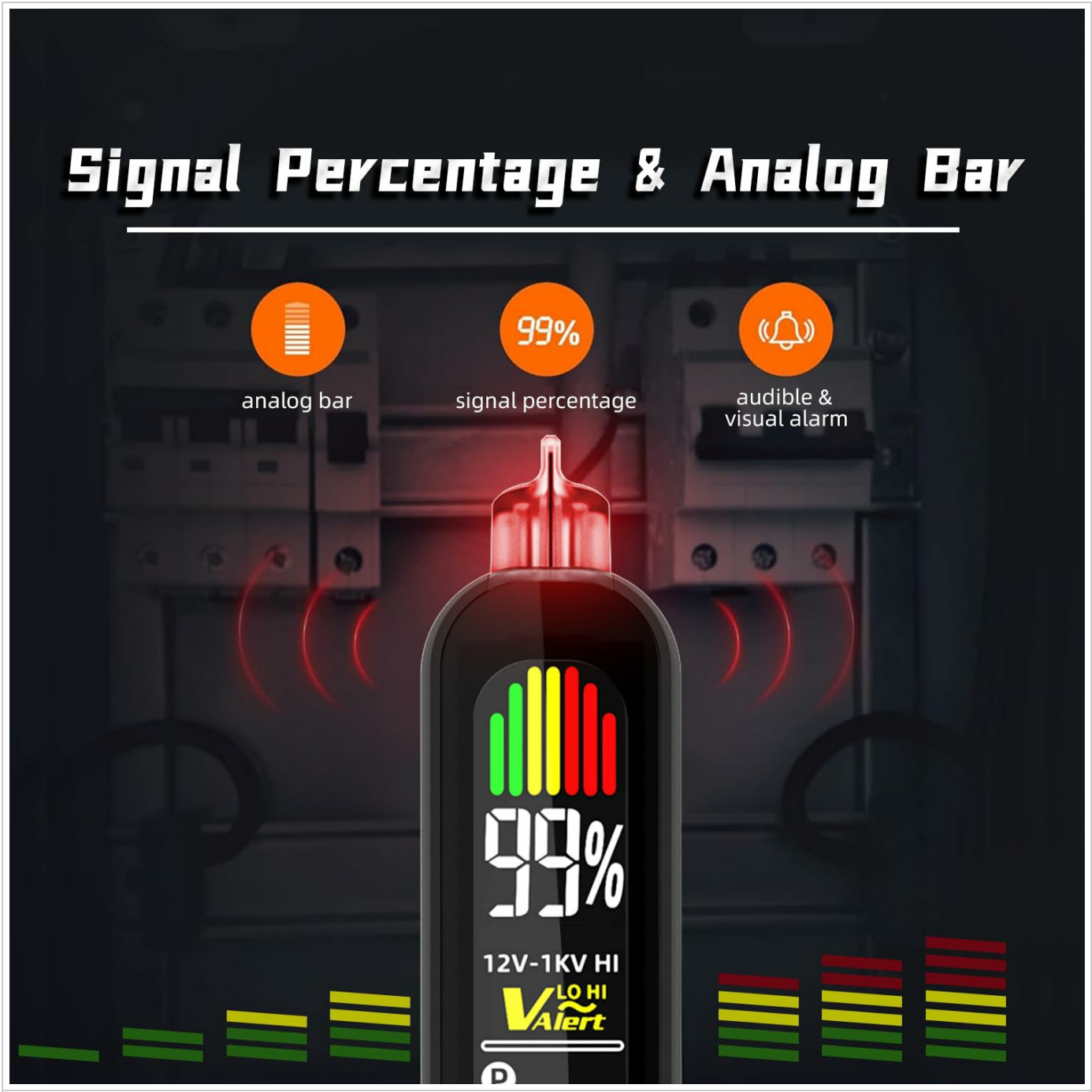

Image: A close-up of the BSIDE AVX1 Voltage Tester's color display, showing the signal percentage (e.g., 99%) and an analog bar graph, along with icons for audible and visual alarms.

5.6 Breakpoint Locate

Use the tester to identify breaks in live wires.

1. Move the tester along the length of a live wire.
2. The signal will drop or disappear at the point of a break in the wire.

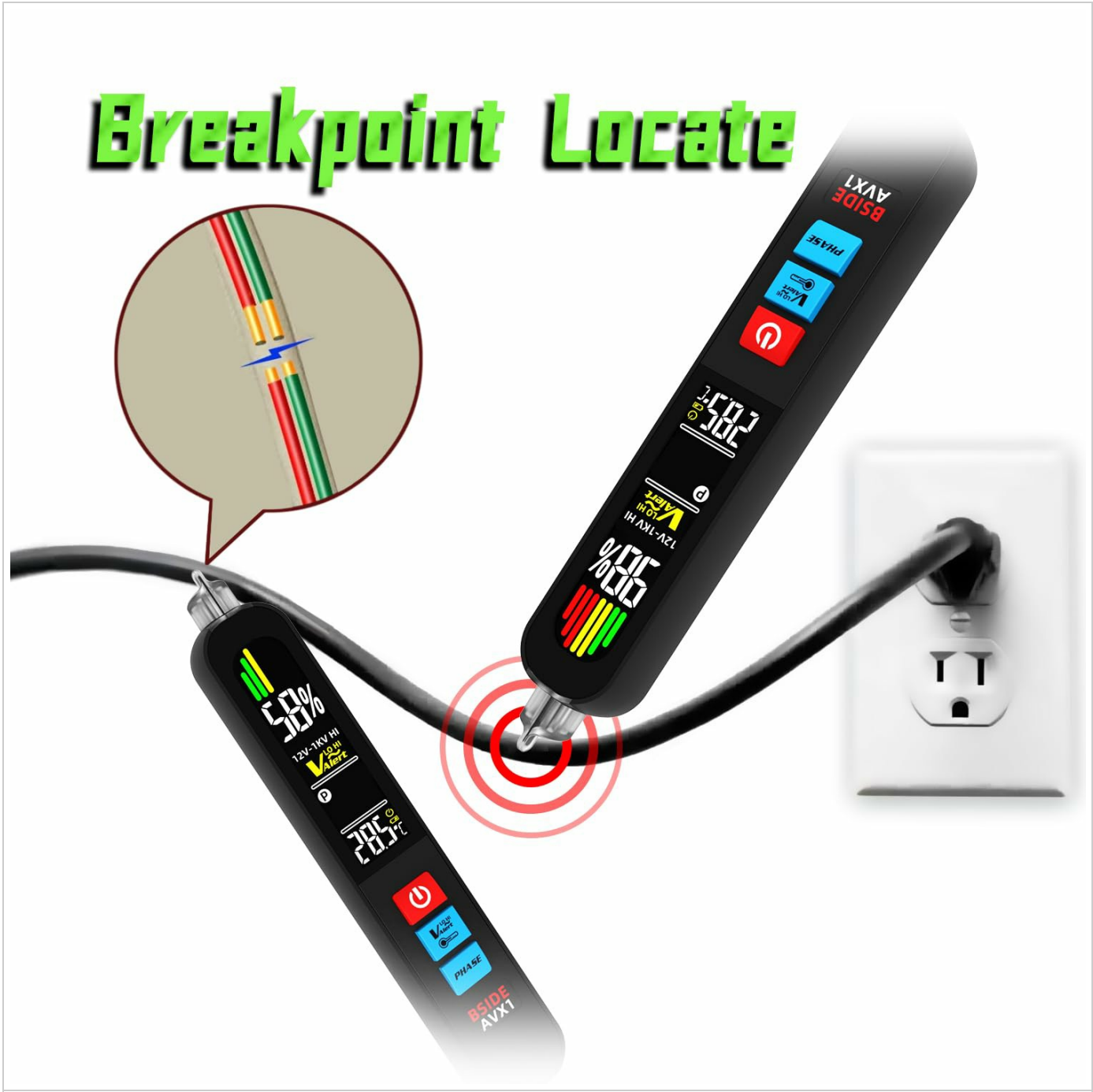

Image: The BSIDE AVX1 Voltage Tester being used to locate a breakpoint in an electrical wire, showing the signal dropping at the point of interruption.

5.7 Instructional Video

Video: An official demonstration of the BSIDE AVX1 Voltage Tester, showcasing its features including non-contact voltage detection, 3-phase rotation indication, and live wire checking in various electrical scenarios.

6. Maintenance

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Recharge the battery regularly, even if the device is not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Inspection:** Periodically inspect the device for any signs of damage or wear. Do not use if damaged.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the provided USB cable.
No voltage detection.	Device is off; incorrect sensitivity mode; no AC voltage present.	Ensure device is on. Switch sensitivity modes (High/Low). Verify AC voltage is present in the circuit.
Inaccurate readings.	Interference from other electrical fields; device malfunction.	Move away from other electrical devices. If problem persists, contact support.
3-Phase Rotation Test not working.	Not in 3-Phase mode; incorrect proximity to phases.	Press the "PHASE" button to activate the mode. Ensure the tip is close to each phase.

8. Specifications

Feature	Specification
Screen Type	Color Display
Non-Contact Voltage Range (Low Mode)	AC 90V-1000V
Non-Contact Voltage Range (High Mode)	AC 12V-1000V
3-Phase Rotation Indication	"L" (left) or "R" (right)
3-Phase Sequence Tested Time	Less than 1 minute
Power Source	3.7V 400mA Lithium-Ion Battery (built-in, rechargeable)
Dimensions (L x W x H)	166 x 27.55 x 20 mm (6.54 x 1.06 x 0.79 inches)
Weight	60.2 g (2.12 ounces)
Safety Standard	CE compliant

9. Warranty and Support

BSIDE products are designed for reliability and performance. For warranty information and technical support, please refer to the official BSIDE website or contact your retailer. Keep your purchase receipt as proof of purchase.
For further assistance, please visit: www.bside.com (Note: This is a placeholder URL, please refer to your product packaging or official documentation for the correct support contact information).