

Irfora LAKDEE25894EU

Irfora HT97D Digital Socket Tester User Manual

Intelligent Leakage Test Multifunctional Phase Tester (EU Plug)

1. INTRODUCTION

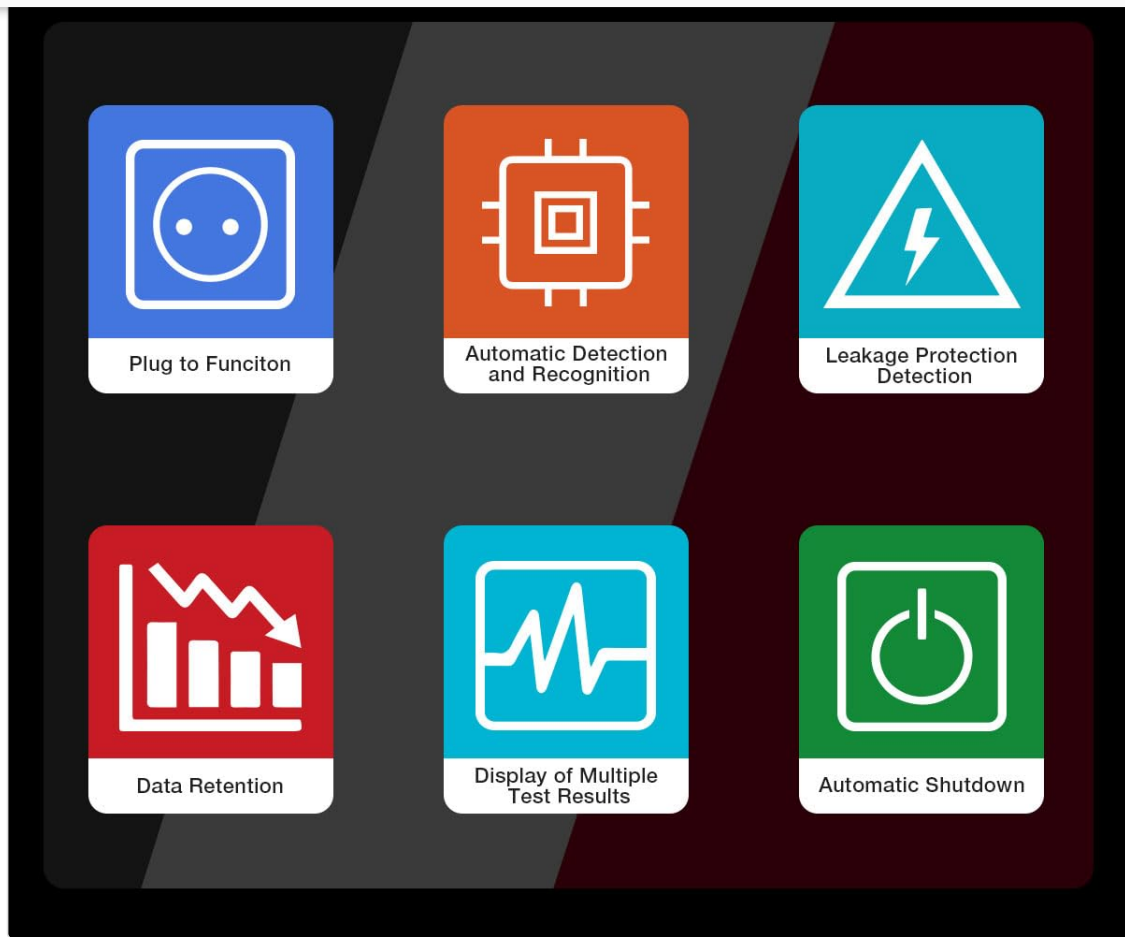
Thank you for choosing the Irfora HT97D Digital Socket Tester. This device is designed to quickly and accurately detect the wiring status of EU standard sockets, measure AC voltage, and perform RCD (Residual Current Device) leakage tests. Its intelligent features and clear LCD display make it an indispensable tool for ensuring electrical safety in homes and workplaces.

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2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this product to prevent personal injury or equipment damage.

- Do not attempt to disassemble, modify, or repair the product yourself.
- Ensure the tester is used only with the specified voltage range (AC30~260V/45~65Hz).
- Always verify the socket wiring is correct before performing an RCD test.
- If the RCD test does not trip the circuit breaker, do not use the socket and have it inspected by a qualified electrician.
- Keep the device away from water and extreme temperatures.



General safety warnings for the product, advising against self-disassembly or modification.

3. PACKAGE CONTENTS

The Irfora HT97D Digital Socket Tester package includes the following items:

- 1 x Irfora HT97D Digital Socket Tester (EU Plug)
- 1 x User Manual (English)

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The Irfora HT97D Digital Socket Tester and its accompanying user manual.

4. PRODUCT FEATURES

The HT97D Socket Tester offers a range of functionalities for comprehensive electrical testing:

- **Voltage Measurement:** Measures AC voltage within the range of 30~260V/45~65Hz.
- **Leakage Voltage Range:** Detects leakage voltage from 0-99V/45-65Hz.
- **RCD Test:** Performs RCD (Residual Current Device) tests with a trigger current of >30mA and measures trip time (10-1000ms).
- **Socket Connection Detection:** Identifies various wiring faults including open ground, open neutral, open live, live/ground reversed, live/neutral reversed, and live/ground interchanged with missing ground.
- **LCD Display with Backlight:** Provides clear readings and indications of test results.
- **Data Retention:** Automatically locks data after three seconds of plugging into a socket. Data can be released by pressing the unlock button.
- **Automatic Shutdown:** Powers off automatically after 5 minutes of inactivity to conserve battery life.

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Key functions of the Irfora HT97D Digital Socket Tester.

5. SETUP

Before first use, install the batteries and prepare the device:

1. **Battery Installation:** The HT97D requires 2 x 1.5V AAA batteries (not included). Open the battery compartment on the back of the device and insert the batteries, observing the correct polarity.
2. **Power On:** The device powers on automatically when plugged into a live socket.



The Irfora HT97D Digital Socket Tester display.

6. OPERATING INSTRUCTIONS

6.1. Socket Wiring Test and Voltage Measurement

1. Plug the HT97D tester directly into a standard three-pin EU socket.
2. The device will automatically power on and display the AC voltage (VL-N) and the wiring status on the LCD screen.
3. Observe the indicators on the screen:
 - **CORRECT:** Indicates correct wiring.
 - **OPEN GROUND:** Ground wire is disconnected.
 - **OPEN NEUTRAL:** Neutral wire is disconnected.
 - **OPEN LIVE:** Live wire is disconnected.
 - **LIVE/GROUND REVERSE:** Live and ground wires are swapped.
 - **LIVE/NEUTRAL REVERSE:** Live and neutral wires are swapped.
 - **LIVE/GROUND REVERSE, MISSING GROUND:** Live and ground wires are swapped, and ground is also missing.
4. If a wiring fault is detected, the orange backlight will illuminate to indicate an error.

6.2. Data Retention

- After plugging the tester into a socket, the displayed data will automatically lock after three seconds.
- To release the locked data and allow for new readings, press the unlock button (usually indicated by a padlock icon) on the device.

6.3. RCD (Residual Current Device) Test

Important: Ensure the socket wiring is indicated as 'CORRECT' before performing an RCD test. This test will trip the RCD/circuit breaker, interrupting power to the circuit.



1. Plug the tester into a three-pin socket and **confirm the display shows 'CORRECT' wiring.**
2. Press and hold the **RCD button (labeled 'RCD') for more than 2 seconds.**
3. A working RCD should trip, cutting off power to the circuit. **The tester will display the trip time in milliseconds (ms).**
4. The button indicator will flash to confirm the completion of the trigger process.
5. If the RCD does not trip, it indicates a malfunction of the residual current circuit breaker, and the circuit should be inspected by a qualified electrician immediately.

7. MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the tester in a cool, dry place when not in use.
- Remove batteries if the device will not be used for an extended period to prevent leakage.

8. TROUBLESHOOTING

the circuit and consult a qualified electrician immediately.

- **Display is dim or flickering:** Batteries may be low. Replace them.

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9. SPECIFICATIONS

Parameter	Specification
Model	HT97D
Plug Type	EU Plug
Material	ABS
Voltage Range	AC30~260V/45~65Hz, $\pm(2.0\%+2)$
Leak Voltage Range	0-99V/45-65Hz, $\pm(2.0\%+2)$
RCD Test Trigger Time	10 - 1000 ms, $\pm(2.0\%+4)$
RCD Test Current	>30mA
Power Supply	2 x 1.5V AAA batteries (not included)
Safety Rating	EN61010-1, -2-030; EN61326-1, CAT II 300 V
Item Size	67 x 65 x 75 mm / 2.63 x 2.56 x 2.95 inches
Item Weight	103g





Physical dimensions of the Irfora HT97D Digital Socket Tester.

10. WARRANTY AND SUPPORT

This product is manufactured by Irfora. For any technical support or warranty inquiries, please refer to the contact information provided with your purchase or visit the official Irfora website. Extended warranty plans may be available for purchase separately.

For further assistance, please contact your retailer or the manufacturer directly.

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