

“Warning”

Product Features

1. The patch mount can be used synchronously to flexibly respond to various components, and various patch components can be easily measured without frequent replacement, making testing more convenient and efficient.
2. Short circuit port 123 on the testing end, press and hold the TEST button for 3 seconds to enter the self calibration process, and perform regular calibration to ensure reliable measurement data.
3. Supports NEC protocol infrared signal decoding, can read remote control code values and display waveform diagrams, a necessary function for home appliance maintenance.
4. Switch to Auto mode, and the device will automatically recognize the component type. Short press the TEST button to start measuring, including transistors, diodes, capacitors, inductors, and resistors.
5. Lightly press the button to manually switch to the desired measurement mode, and the screen will display the corresponding icon in real-time to meet special testing requirements.
6. Suitable for product development, home appliance maintenance, educational experiments, scientific research testing and other scenarios, it is a powerful tool for electronic engineers and enthusiasts.

Product parameters

Product model: LCR-AR1

Display screen: 1.9 inches

Battery capacity: 300mAh

Charging specifications: USB Type C, 5V/1A

Product size: 62 * 90 * 32mm

Product Introduction

The transistor tester LCR-AR1 is a high-precision, multifunctional electronic testing device designed specifically for electronic engineers, technicians, and electronics enthusiasts.

This device is designed to detect and analyze the performance and characteristics of semiconductor components such as transistors, diodes,

triodes, and field-effect transistors (FETs). Equipped with a color screen, it can measure multiple parameters of multiple devices, automatically identify the type and pin arrangement of the tested components, simplify the operation process, and improve testing efficiency.

Precautions

1. Directly measuring without discharging the capacitor will generate sparks when the machine discharges the capacitor at the moment of inserting the lock. This function only serves to prevent forgetting discharge protection. It is recommended to manually discharge the capacitor before testing for correct use

During non measurement processes, the 123 locking interface is in a conductive state and direct insertion of the battery is prohibited

3. When measuring component parameters that are not within the testing range, abnormal component types may appear in the test results

Packing List

Transistor tester * 1

Test stand * 1

Type C data cable * 1

Chinese and English instruction manual * 1

Test hook * 3

Ultra-compact design

Lightweight and compact

Combining style with portability, it offers you a seamless and convenient experience wherever you are

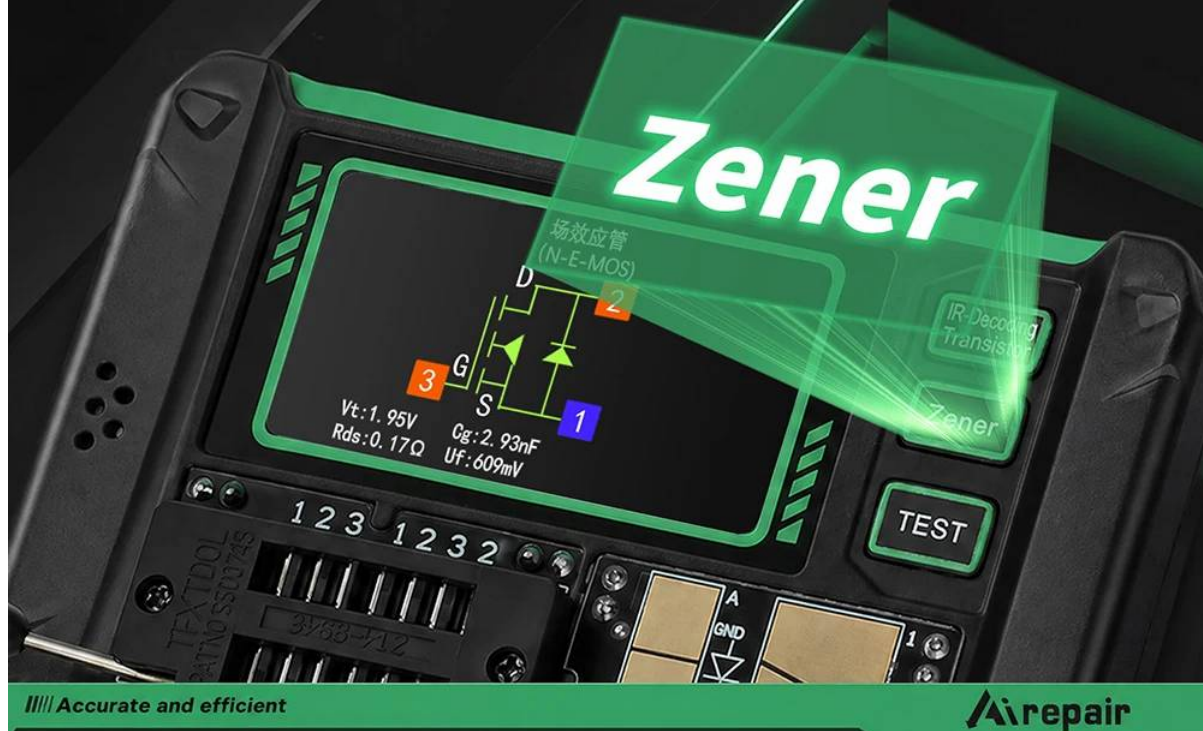


||||| Accurate and efficient

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Professional-grade Precise measurement

Featuring dedicated measurement channels, specifically developed for zener diodes, supporting a wide test range of 0.01–32 V. Automatic power supply prior to testing ensures accurate and reliable results every time.



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High-precision Component Inspection

1. Supports automatic identification of all components: capable of detecting and measuring various types of transistors, including NPN/PNP transistors, N-channel and P-channel field-effect transistors, junction field-effect transistors, diodes, diode pairs and thyristors, as well as passive components such as resistors, inductors and capacitors.
2. Automatically detects component pin configurations and performance parameters.
3. Features decoding capability for the NEC infrared coding format.



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High-efficiency testing Intelligent recognition

Effortless gripping and rapid reading of component parameters make testing more efficient and operation hassle-free.



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NEC Infrared Protocol Parsing Function

Designed for remote control debugging and testing scenarios.
It offers efficient parsing, accurate output and user-friendly operation.



Accurate and efficient

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Two test boards in one Plug-and-play

Equipped with separate SMD and through-hole test boards, eliminating the need for frequent changes and easily accommodating a wide range of requirements



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Precise and efficient Transistor tester

- Intelligent automatic component recognition
- Capable of testing surface-mount components
- Supports infrared decoding
- Intelligent burnout protection

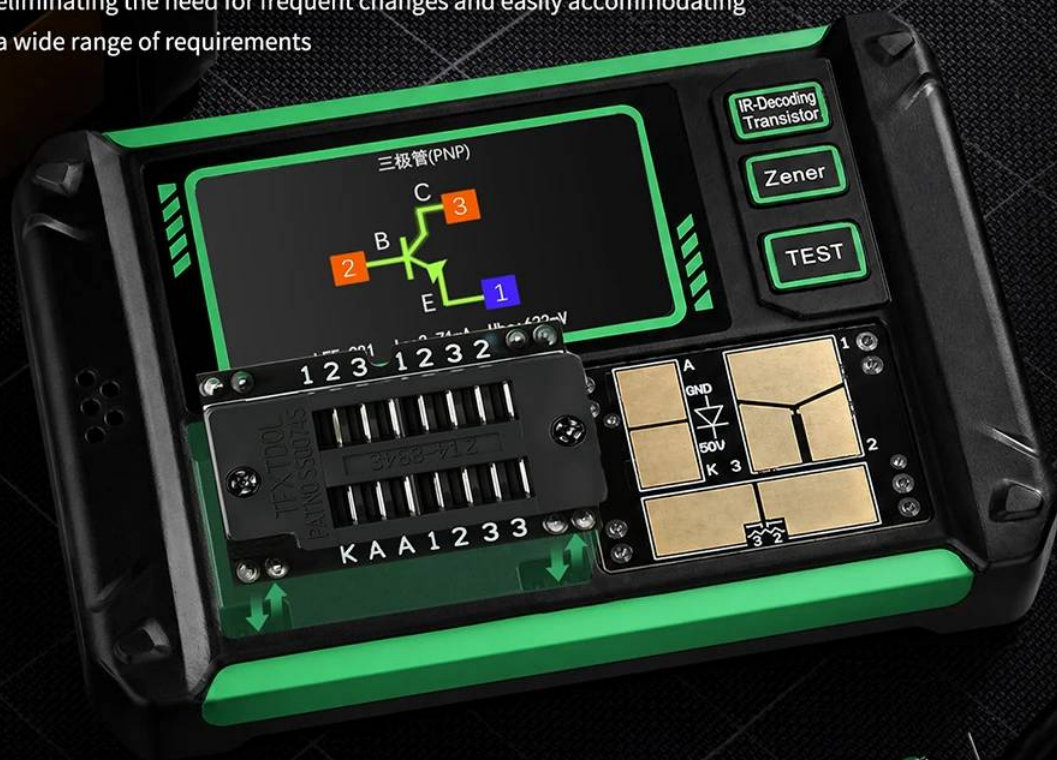


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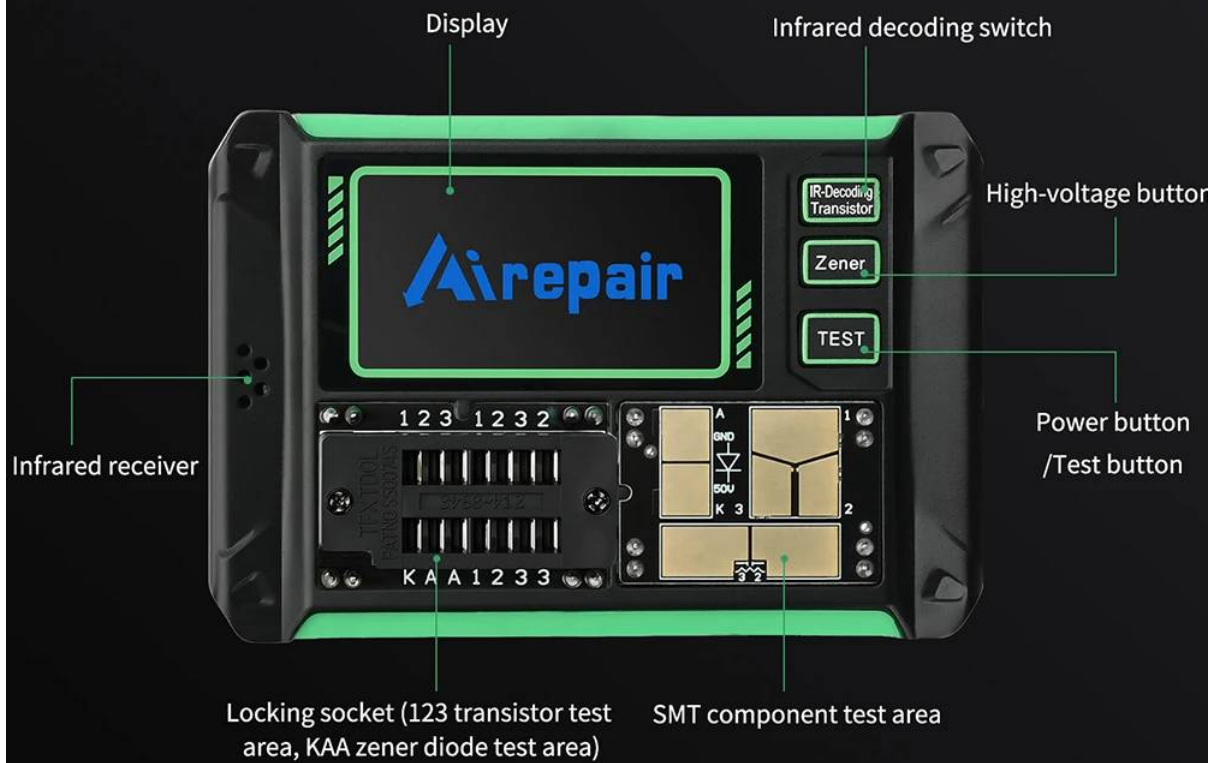
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Product Specifications



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Product Specifications



Product model	LCR-AR1
Display	1.9寸
Battery capacity	300mAh
Charging specifications	USBType-C, 5V1A
Product dimensions	62*90*32mm

Category	Scope	Description
Transistor	$10 < \beta < 600$	Gain (hfe), base-emitter voltage (Ube), Ic/Ie, collector-emitter reverse cut-off current (Iceo), ces, forward voltage drop across the protection diode (Uf)
Diode	Forward voltage drop $< 4.5V$	Forward voltage drop, junction capacitance, reverse leakage current
Zener diode	0.01-4.5V 0.01-32V	(1-2-3 test zone) Forward voltage drop, reverse breakdown voltage; (K-A-A test zone) reverse breakdown voltage

Category	Scope	Description
Field-effect transistor	JFET IGBT MIOSTET	· Gate capacitance C_g, drain current I_d at V_{gs}, forward voltage drop U_f of the protection diode · Drain current I_d at V_{gs}, forward voltage drop U_f of the protection diode · Turn-on voltage V_t, gate capacitance C_q, drain-source resistance R_{ds}, forward voltage drop U_f of the protection diode
Unidirectional thyristor Bidirectional thyristor	Turn-on voltage $< 5\text{ V}$; gate trigger current $< 6\text{ mA}$	Gate voltage
Capacitor	$25\text{pF} \sim 100\text{mF}$	Capacitance value, loss factor (V_{loss}), equivalent series resistance (ESR)
Resistor	$0.01\Omega \sim 50\text{M}\Omega$	Resistance value
Inductor	$10\mu\text{H} \sim 1000\mu\text{H}$	Inductance value, DC resistance
Battery	$0.1 \sim 4.5\text{V}$	Voltage value, positive and negative polarity
Infrared remote control decoding	NEC protocol infrared codes	Displays user code and data code, along with the corresponding infrared waveform

Widely used



Combines multiple testing functions in a single device to meet a variety of testing requirements and is suitable for use in a wide range of settings



Product Development



Home Appliance Repair



Educational Institutions



Scientific Research and Experimentation

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Live demonstration



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