

AUTOOL RE110

Remote Key Frequency Tester

User Manual 用户手册



www.autooltech.com



TABLE OF CONTENTS

Copyright Information 2	
Copyright	2
Trademark	
Cautions	3
Product Introduction	3
Technical specifications	3
Product Structure	4
Structural diagram	4
Operating Instructions 5	
Basic operation procedure	5
Mode switching	5
Maintenance Service	7
Maintenance	7
Warranty	8
Warranty access	8
Disclaimer	8
Return & Exchange Service	
Return & Exchange	9



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CAUTIONS

- Do not disassemble or modify the equipment without authorization.
- Avoid electronic signal interference sources during testing, such as signal towers, base stations, utility poles, making phone calls, sending or receiving text messages, etc.
- Before testing, check if the equipment is malfunctioning to ensure it is working properly to avoid injury.
- Before installation and debugging, read this manual carefully. If you have any questions, contact the dealer or the AUTOOL company immediately.

PRODUCT INTRODUCTION

 This is an instrument for testing the frequency of wireless remote controls. It can measure the frequency of the remote control and display the value. Additionally, it can test the functionality of infrared sensors and supports testing of button batteries.

Technical Specifications

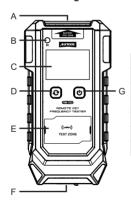
Operating Voltage	4*1.5V AAA batteries



TYPE-C Operating Power Supply	5V/1A
Detection Frequency Bands	315MHz, 433MHz, 868MHz, 902MHz
Battery Measurement Voltage Range	0~6V
Supported Battery Models for Detection	CR2032, CR2025
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C-65°C

PRODUCT STRUCTURE

Structural Diagram



Α	Battery Testing Area
В	Infrared Receiver
С	Display Screen
D	Mode Switch Button
Е	Key Testing Area
F	Type-C Power Interface
G	Power On/Off Switch



OPERATING INSTRUCTIONS

Basic Operation Procedure

- Place the car remote key that needs to be tested near the key testing area, and press the button on the remote key.
 This will allow you to test the frequency of the key, and clearly display the frequency value.
- The frequency bands of car remote keys that can be tested are mainly: 315MHz, 433MHz, 868MHz, and 902MHz.



It is recommended to test closer to the testing area to ensure more accurate measurement values! If the test value cannot be displayed normally, the frequency of the remote key may not be suitable for this device!

Mode Switching

• Key Frequency Detection Mode (RF)

Long press the [\Dot{O}] power switch for 2 seconds to power on and enter the frequency detection mode. Place the key near the key testing area, press the key button to test the frequency of the key, and the screen will display the frequency value. (Press the [\Dot{O}] power switch to clear the current test frequency).



Battery Testing Mode (BAT)

Press the [?] mode switch button to enter the battery testing mode (BAT). Insert the battery to be tested into the battery testing area, and the screen will display the battery voltage.

♠ NOTE

Pay attention to the positive and negative polarity markings on the battery.



Infrared Testing Mode (IR)

Press the [?] mode switch button to enter the infrared testing mode (IR). Point the infrared remote controller to this product and press the button to test. The screen will display OK.

♠ NOTE

▶ If there is no display on the screen, it means the infrared transmitter of the remote controller is malfunctioning!





MAINTENANCE SERVICE

 Our products are made of long-lasting and durable materials, and we insist on perfect production process.
 Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

Maintenance

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Regularly clean and replace consumable parts such as oil pump and oil filter; adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place.
 Do not store the product in hot, humid, or non-ventilated places.



WARRANTY

 From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

 All information, illustrations, and specifications contained in this manual, AUTOOL resumes the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product.



Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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目 录

11 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	
版权信息	11
版权	11
注册商标	11
注意事项	12
产品简介	12
技术参数	12
产品结构	13
结构图	13
操作说明	14
基本操作流程	14
模式切换	14
维修保养服务	16
维修保养	16
保修服务	17
保修方式	17
声明	17
退换货服务	18
退换货	18

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注意事项

- ▶禁止私自拆卸或改装设备。
- ▶ 测试时应避开一些电子信号干扰源,如:信号塔、基站、 电线杆、拨打手机、收发短信等。
- ▶ 测量前,请检查设备是否出现故障,确保设备能正常工作 再使用,以免造成伤害。
- ▶ 安装调试前应详细阅读本说明书,如有疑问,请立即与经销商或偶然公司联系

产品简介

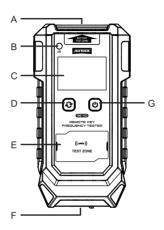
这是一款测试无线遥控器频率的仪器,它能测试出遥控器的频率,并显示数值;且能测试出红外感应的好坏及支持纽扣电池的检测。

技术参数

工作电压	4*1.5V AAA电池
TYPE-C工作电源	5V/1A
检测频段	315MHz, 433MHz, 868MHz, 902MHz
电池测量电压范围	0~6V
支持检测电池型号	CR2032, CR2025
工作温度	-10°C~60°C
存储温度	-20°C-65°C

产品结构

结构图



Α	电池检测区	В	红外接收端
С	显示屏	D	模式切换键
Е	钥匙测试区	F	TYPE-C电源接口
G	电源开关键		

操作说明

基本操作流程

- 将需要测试的汽车遥控钥匙靠近钥匙测试区,按下遥控 钥匙上的按键,就能够测试出该钥匙频率,清楚显示出 频率数值。
- 可测汽车遥控钥匙频率段主要是: 315MHz, 433MHz, 868MHz, 902MHz。

⚠ 注意

▶建议更靠近测试区测试,这样可保证测量的数值更准确!如无法正常显示测试数值,则该遥控钥匙的频率不适用此设备!

模式切换

• 钥匙频率检测模式(RF)

长按2S[**①**]电源开关键,开机;进入频率检测模式,将钥 匙靠近钥匙测试区,按下钥匙按键即可测试出该钥匙的 频率,屏幕将显示出频率值(点按[**①**]电源开关键,可清 除当前测试频率)。



电池测试模式(BAT)

点按[]模式切换键,进入电池测试模式(BAT);将需要测试的电池插入电池测试区,屏幕将显示电池电压。

⚠ 注意

▶ 请注意查看电池正负极标识。



• 红外测试模式 (IR)

点按[◆]模式切换键,进入红外测试模式(IR);将需要测试的红外线遥控器对着本产品按下按键,屏幕显示OK。

↑ 注意

▶ 若屏幕无显示,表示该遥控器红外线发射器失效!



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维护保养是为了保持产品性能和外观,我们建议您仔细阅读以下产品保养指南:

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- 对产品中需要紧固和连接的部位经常进行检查,如发现 松动应及时紧固,以保证产品的安全运行。对与各种化 学介质接触的产品外部和内部零件要经常进行除锈、喷 漆等防腐处理,以提高产品的抗腐蚀能力,延长产品的 使用寿命。
- 遵守安全操作规程,不超负荷使用产品。产品的安全防护装置齐全可靠,及时消除不安全因素。电路部分彻底检查,老化电线要及时更换。
- 定期清洗和更换油泵、滤油器等易耗部件;调整各部位配合间隙和更换磨损(已坏)部件清洁时,避免产品接触带腐蚀性的液态物品。
- 不使用时,请将产品存放于干燥的位置。不要将产品存放在高温、潮湿或不通风的地方。

保修服务

AUTOOL主机自客户签收日起享有3年保修期。其所含附件自客户签收日起享有1年保修期。

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