



ZS110A 遥控器 PCBA 工具使 用说明

最新版本号：1.1
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1 概述

1.1 编写目的

详细介绍 ZS110A 遥控器 PCBA 工具的使用方法。

1.2 术语和缩写词

缩写和术语	解 释
PCBA	Printed Circuit Board +Assembly 的简称
XML	可扩展标记语言

1.3 版本历史

日期	版本号	注释	作者
2018-10-18	1.0	建立初始版本	ZS110A 项目组
2018-11-28	1.1	更新解码库，新增解码库配置选项， 可选 8K/16bit, 16K/16bit	ZS110A 项目组

2 操作步骤

- 1、获取正确的遥控器 PCBA 工具软件包，双击软件包中的 setup，然后按照提示安装即可。
- 2、安装完成后。在遥控器 PCBA 工具文件夹内找到 Pcba.exe。

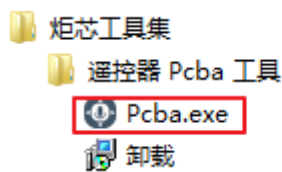


图 1 遥控器 PCBA 工具

- 3、双击打开遥控器 PCBA 工具。

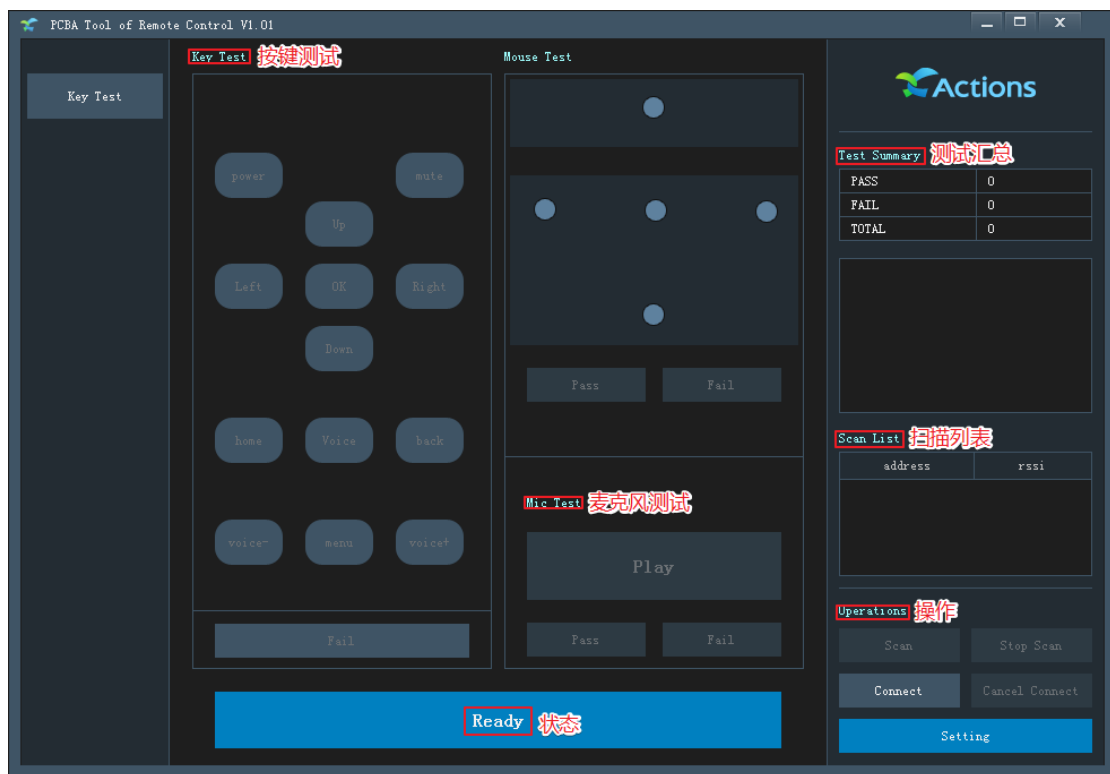


图 2 遥控器 PCBA 工具主界面

- 4、根据不同遥控器实际布局来修改 XML，XML 文件默认存放路径：\Actions\遥控器 Pcb 工具\1.01\xml\default_key.xml。

XML 文件值对应注释，如下

X: 左右间距

Y: 上下间距

W: 宽

H: 高

keyCode: 普通按键键值

IR_keyCode: 红外按键键值

IR_support: 红外按键是否添加测试。1 代表添加、0 代表隐藏

Power: 工具端显示按键值

```
<config_file >
<key x="020" y="70" w="50" h="40" keyCode="0x300000" IR_keyCode="0x00000012" IR_support="1" power=1 /key>
<key x="180" y="70" w="50" h="40" keyCode="0xe20000" IR_keyCode="0x0000a55a" IR_support="0">mute</key>
<key x="100" y="113" w="50" h="40" keyCode="0x420000" IR_keyCode="0x0000fa05" IR_support="0">Up</key>
<key x="020" y="168" w="50" h="40" keyCode="0x440000" IR_keyCode="0x0000f807" IR_support="0">Left</key>
<key x="100" y="168" w="50" h="40" keyCode="0x410000" IR_keyCode="0x0000f708" IR_support="0">OK</key>
<key x="180" y="168" w="50" h="40" keyCode="0x450000" IR_keyCode="0x0000f609" IR_support="0">Right</key>
<key x="100" y="223" w="50" h="40" keyCode="0x430000" IR_keyCode="0x0000e41b" IR_support="0">Down</key>
<key x="020" y="304" w="60" h="40" keyCode="0x230200" IR_keyCode="0x0000fe01" IR_support="0">home</key>
<key x="100" y="304" w="60" h="40" keyCode="0x0c0200" IR_keyCode="0x0000f20d" IR_support="0">Voice</key>
<key x="180" y="304" w="60" h="40" keyCode="0x240200" IR_keyCode="0x0000f906" IR_support="0">back</key>
<key x="020" y="394" w="60" h="40" keyCode="0xea0000" IR_keyCode="0x0000f30c" IR_support="0">voice</key>
<key x="100" y="394" w="60" h="40" keyCode="0x400000" IR_keyCode="0x0000fb04" IR_support="0">menu</key>
<key x="180" y="394" w="60" h="40" keyCode="0xe90000" IR_keyCode="0x0000f10e" IR_support="0">voice+</key>
</config_file>
```

图 3 XML 文件

设置“Configuration Settings”参数。打开 setting 对话框需要输入密码，密码为 8888，选择修改好 XML 文件，保存设置。

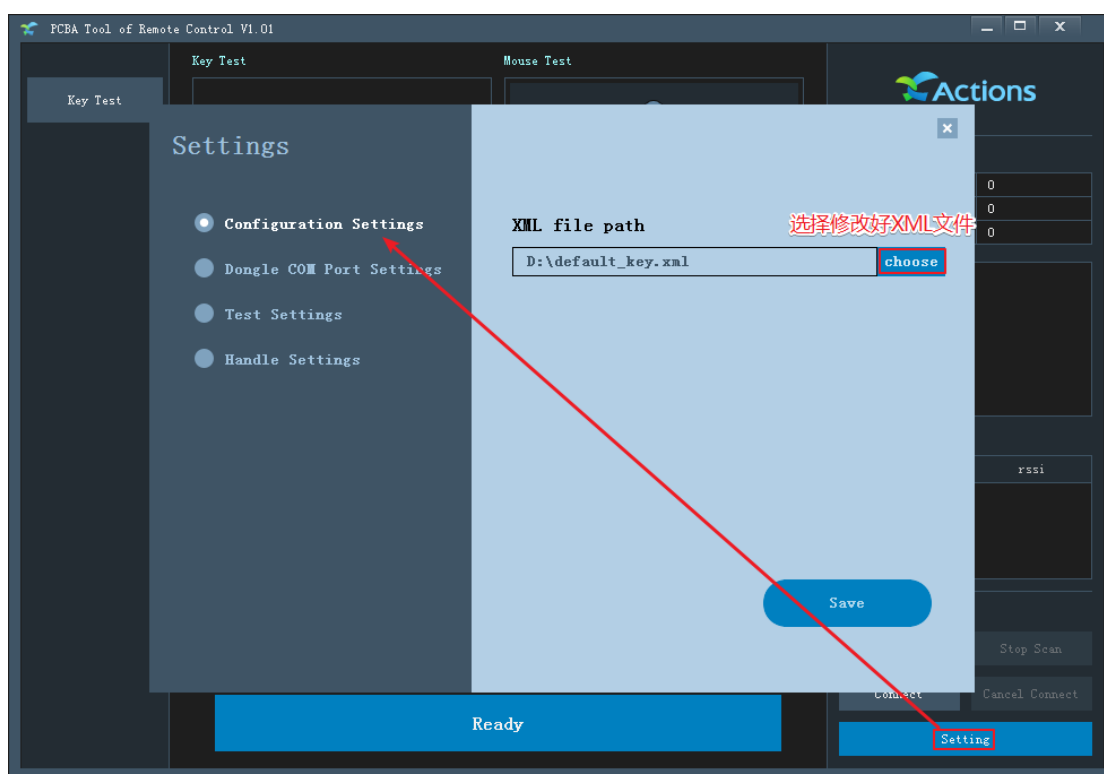


图 4 使用修改好 XML 文件

- 5、设置“Dongle COM Port Settings”参数。将配合 BLE PCBA 工具的 Dongle 插入电脑，查看 Dongle 端口号（计算机---管理---设备管理器---端口(COM 和 LPT)）**mbed Serial Port(COM68)**就是 Dongle 端口号。

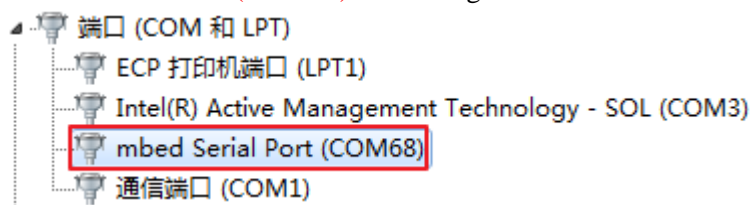


图 5 Dongle 端口号

打开 setting 对话框需要输入密码，密码为 **8888**

“COM port”设置与 Dongle 端口号显示一致，Baud rate 设置参数为“115200”。

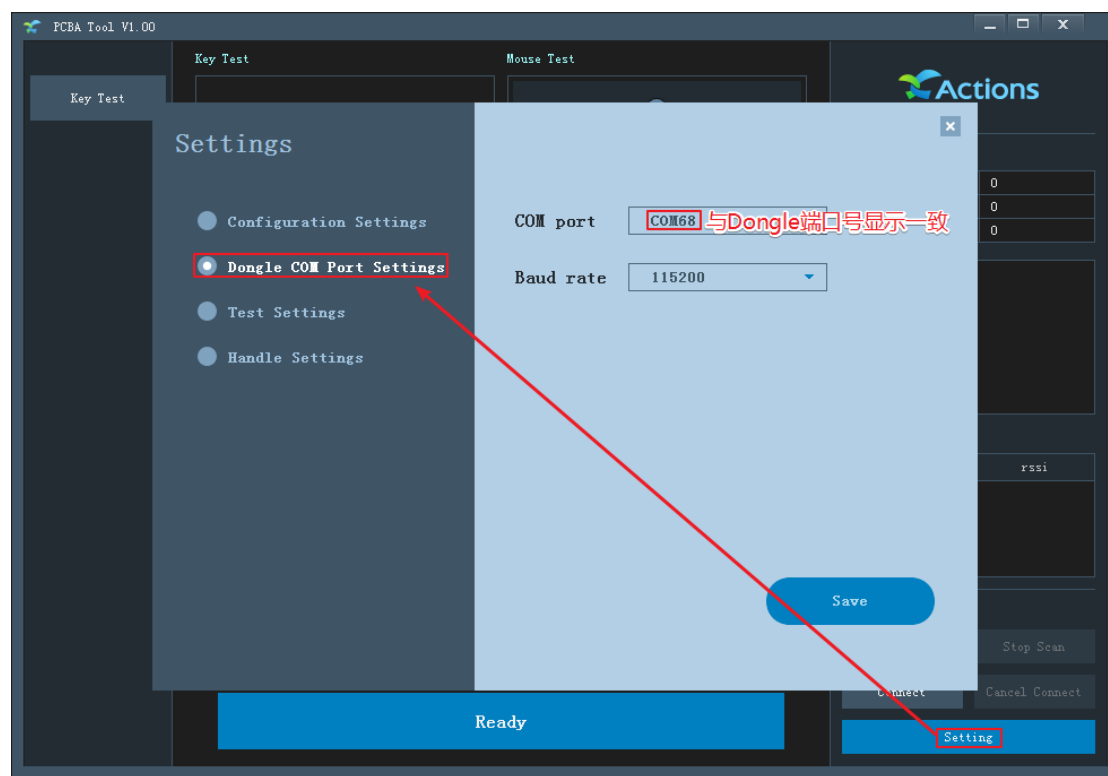


图 6 串口选择

6、设置“Test Settings”参数。

工具支持多种连接模式选择，如下：

Mode: Scan_and_Select 【扫描和选择】

Text_Input 【输入地址】

Auto_by_RSSI 【根据 RSSI 自动连接】

Auto by RSSI(AUTO NEXT) 【根据 RSSI 自动连接（AUTO NEXT）】 **常用**

RSSI threshold: 如果选择依赖 RSSI 的自动连接的模式，范围是 0 ~ -99。

Device name: 需要与待测遥控器名称一致，通过该设置可以使得待测的遥控器与指定测试工位对应。

测红外线时，“IR” 选项打√，自动播放录音文件，“AutoPlay”选项打√。

Decolder:
 8K/16bit } 根据遥控器解码库配置选择
 16K/16bit }

其他选项，如图所示

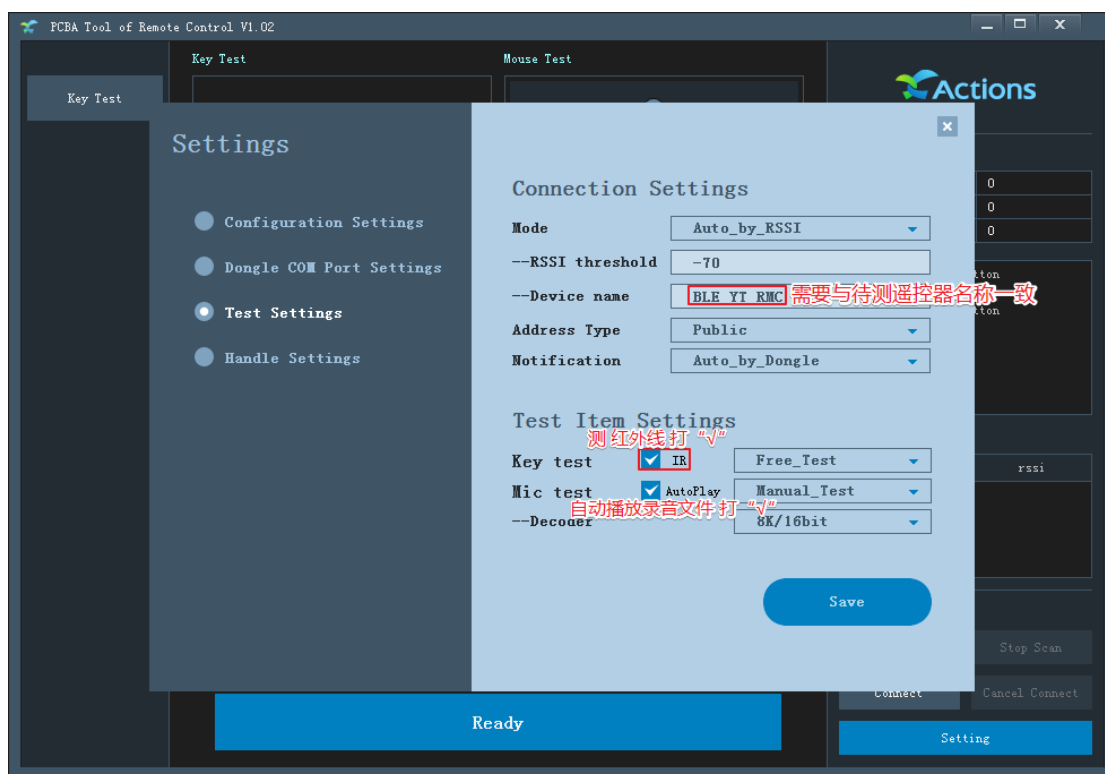


图 7 环境设置

- 7、参数设置完毕，保存设置。模式选择 RSSI 自动连接，只需单击“Connect”，待测遥控器按下配对组合按键。
界面底部显示“Key Testing”说明待测遥控器和遥控器 PCBA 工具连接成功。

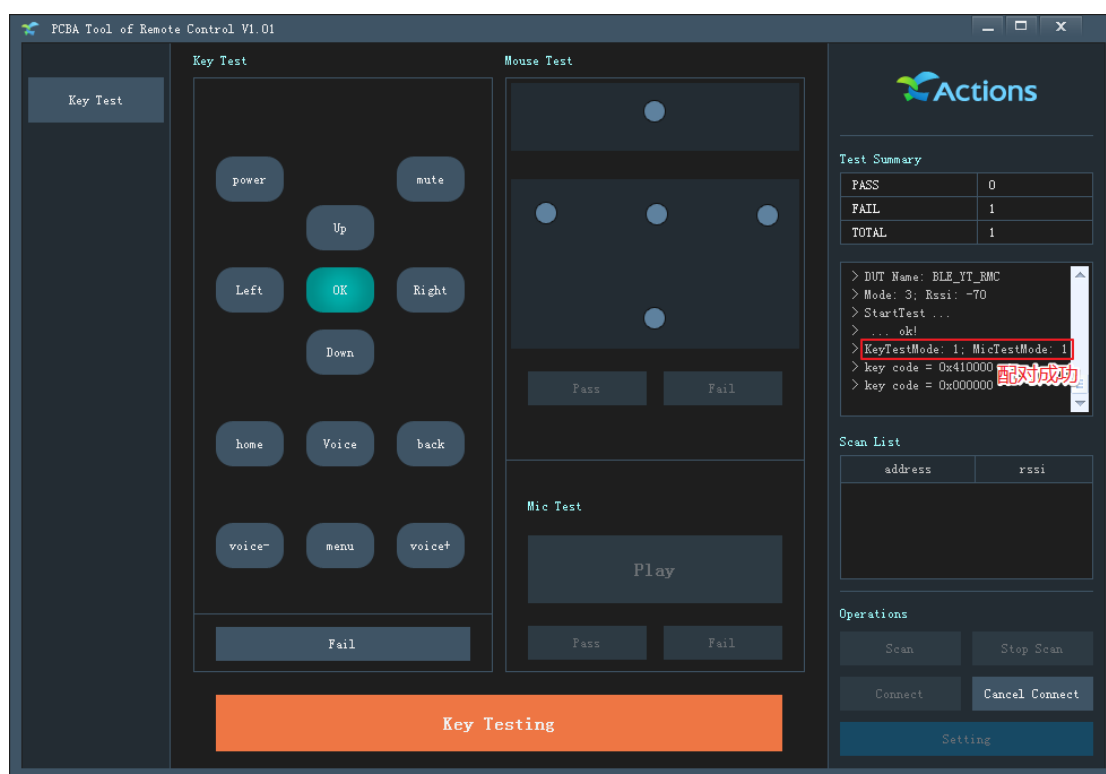


图 8 遥控器和 PCBA 工具配对成功

- 8、配对连接成功之后，按键会闪烁同时该图标点亮，电脑也有提示音。点亮证明该按键测试通过。当所有按键都测试完毕，界面会出现“Pass”图标，证明遥控器按键测试通过。

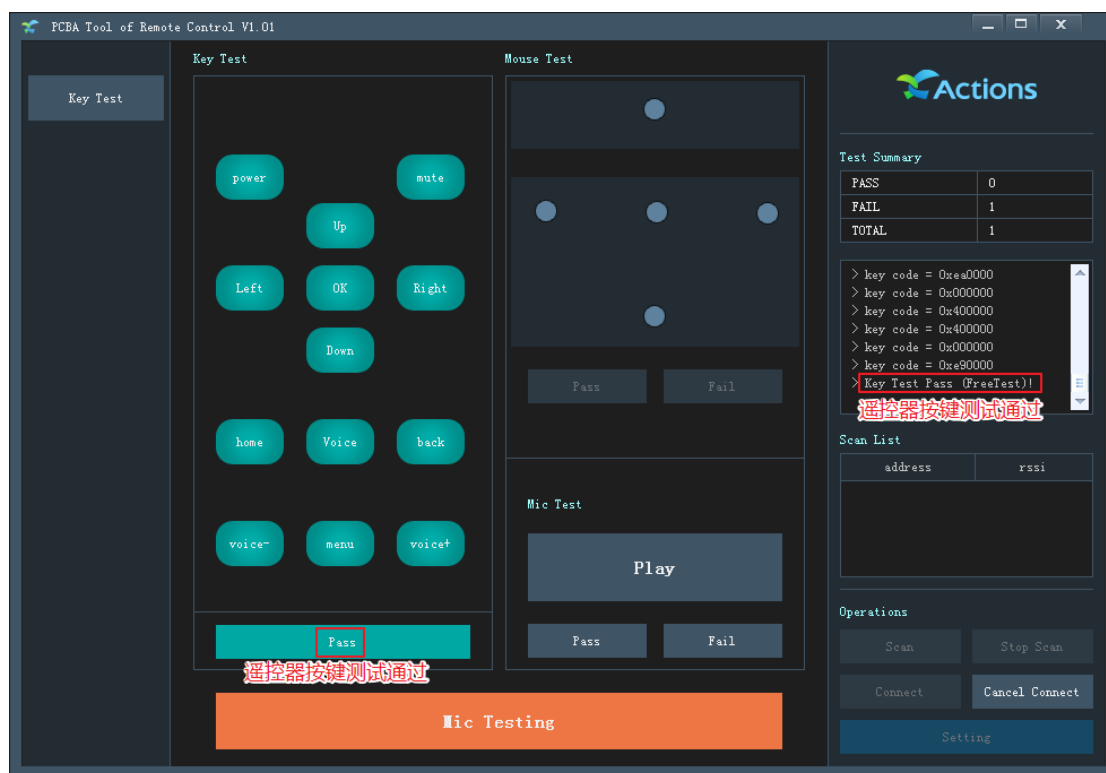


图 9 遥控器按键测试通过

- 9、 按键测试完成后，会自动进入语音按键的测试（工具会显示当前处于录音测试），长按遥控器语音键并录音，完成后，PCBA 工具自动播放录音。（如果没有勾选自动播放，需手动单击“Play”按钮，录音能回放）可以人工判断录音的正确性，如果正确。说明遥控器录音测试通过，点击“Pass”。

①开始录音

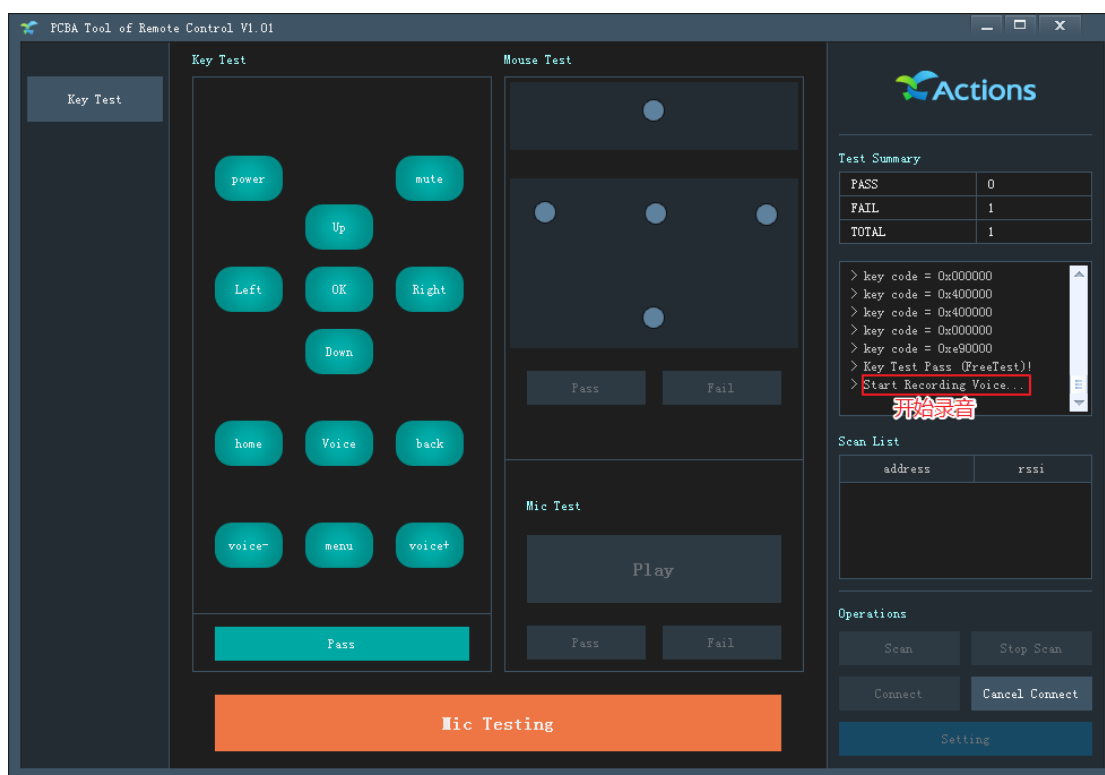


图 10 正在录音

②录音结束，PCBA 工具自动播放录音（默认勾选了 AutoPlay）

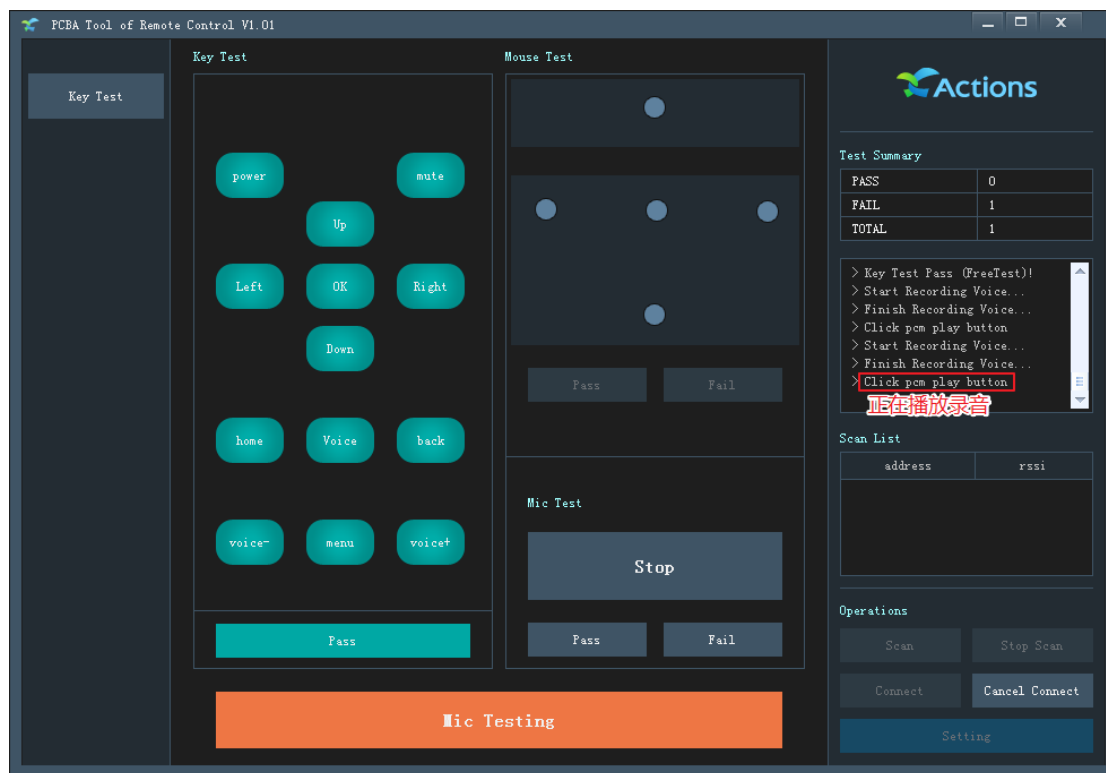


图 11 正在自动播放录音

- 10、 遥控器录音测试通过，点击“Pass”，PCBA 界面切换红外测试界面（如果勾选了 IR 测试）。

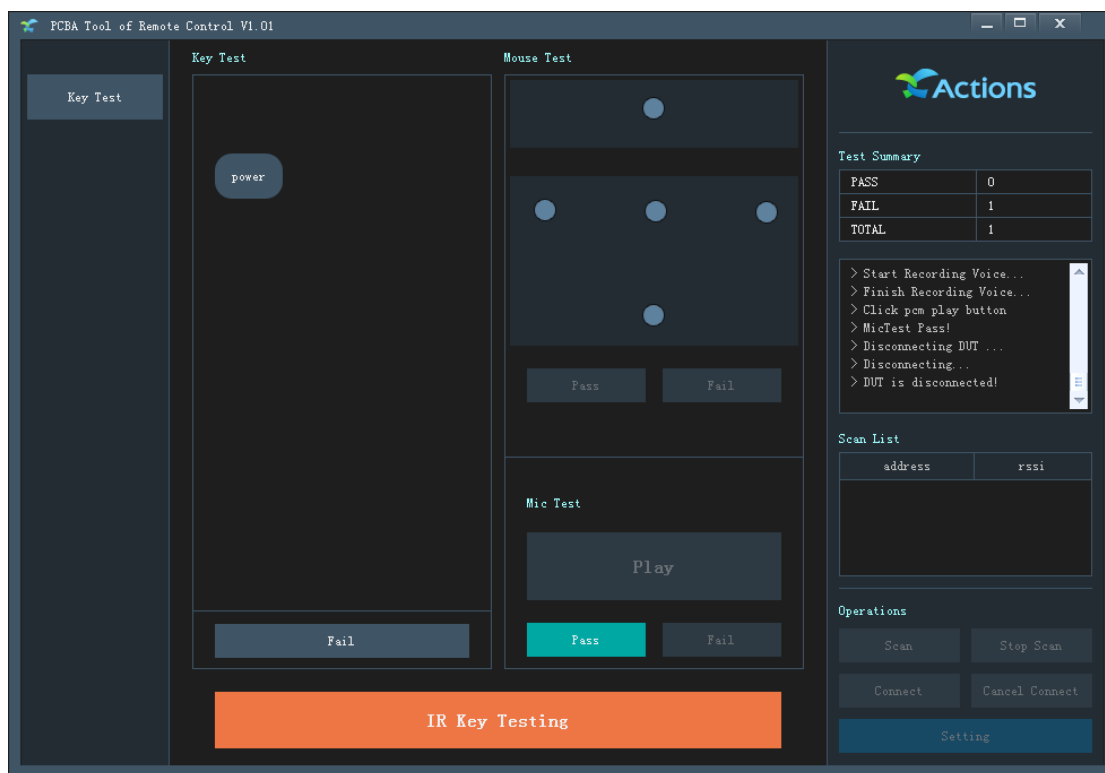


图 12 遥控器 PCBA 工具红外界面

- 11、测试遥控器“待机”键（本实例中红外只有 power 键）。短按“待机”键，按键会有图标点亮，Key Test 右边显示 code 值，点亮证明红外按键测试通过。（以上就是一次完整的 PCBA 测试）

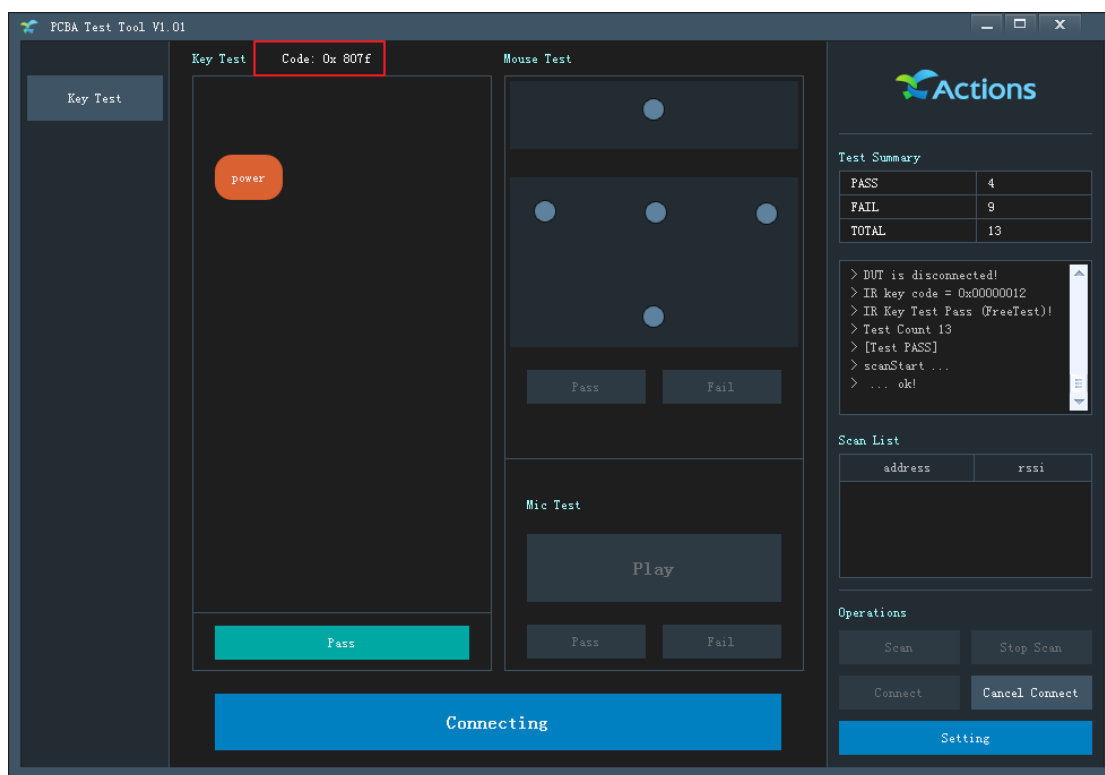


图 13 红外按键测试通过

- 12、 如果需要流水测试多台遥控器，接上图 10 步骤，用待测遥控器按下配对组合按键。
可以继续与 PCBA 工具连接成功。

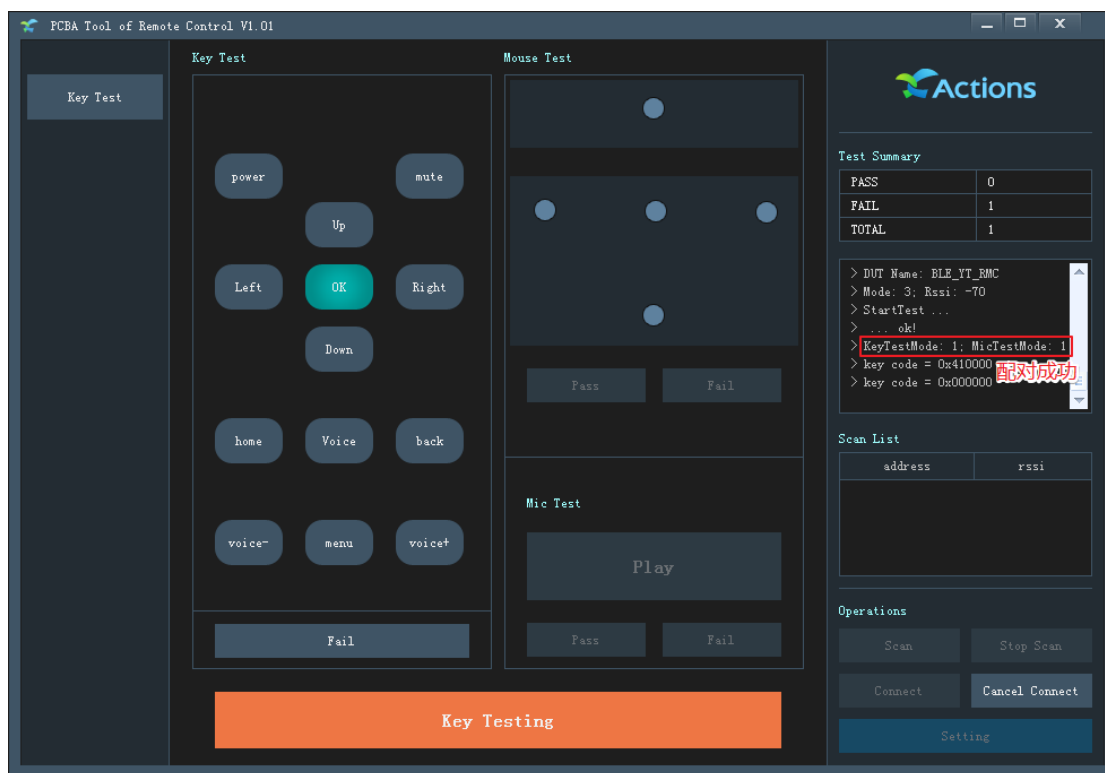


图 14 待测遥控器和 PCBA 工具连接成功

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