User Manual

Product introduction

The product is a handheld wireless Bluetooth remote control, the key of the remote control to issue commands, the device receives the command, the command is converted into the corresponding function, in order to achieve the purpose of controlling the device, the remote control uses battery AAA*2.

Working principle

A:MCU+RF part: RTL8752CJF used in the schematic is mainly responsible for keyboard matrix, transmit status indication, command transmission

B: The key matrix part consists of SW1-SW10

C: Crystal oscillator: composed of Y3, used for the clock frequency required to generate RF

D: The emission status indicator is composed of R12,R13, and D9. When there is a pairing with the device, the LED flashes yellow and green, indicating that the remote control and the device are connected. When there is no pairing with the device, the LED flashes red, indicating that the remote control and the device are disconnected

E: The antenna matching network consists of L1,C19,C15, and C20. Its main function is to adjust the transmission power, efficiency, and the requirements for harmonics

F: Power supply part: The power supply network of the entire circuit is composed of AAA*2 batteries and filter circuit.

Complete machine operation

A: Bluetooth name: eSightRemote

B: Pairing button: Press the pairing button for three seconds to enter the pairing mode

C: Indicator: After entering the pairing mode, the red LED indicator will switch on and off at 250Ms and cycle. During pairing, the green LED indicator will switch on and off at 150Ms and cycle. After pairing is completed, the green LED indicator will keep on for 5 seconds, indicating that the pairing is successful

D: Press any button on the remote control, and the red LED will light up for 0.8S. After entering the pairing mode, you can press the pairing key + volume plus key to exit the pairing mode

E: Replace the battery and disconnect the host, the remote control will remember the previously paired device, replace the battery and re-power on the host, should take the initiative to automatically connect with the device (press the button)

F: Sleep: When the remote control does not move within 10 minutes, it enters a deep sleep. When the button is pressed, the remote control establishes a connection with the host. The pressed button must be saved before sending data, and the connection time should not exceed 2 seconds

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.