

SURAIELEC 3-Way Wireless Light Switch and Receiver Kit

SURAIELEC 3-Way Wireless Light Switch and Receiver Kit User Manual

Model: 3-Way Wireless Light Switch and Receiver Kit

Brand: SURAIELEC

1. INTRODUCTION

Thank you for choosing the SURAIELEC 3-Way Wireless Light Switch and Receiver Kit. This product provides a flexible and convenient solution for controlling your lighting fixtures without the need for complex in-wall wiring. It is ideal for creating new switch locations, adding 3-way functionality, or controlling hard-to-reach lights. This manual will guide you through the installation, operation, and maintenance of your new wireless light switch system.

2. PRODUCT OVERVIEW AND FEATURES

The SURAIELEC Wireless Light Switch Kit offers a simple way to upgrade your home lighting control. Key features include:

- **No Wiring Required:** Eliminates the need for new wiring between the light and switch, simplifying installation.
- **100ft RF Range:** Strong radio frequency (RF) signal works through walls and doors, providing control up to 100 feet in open areas.
- **Pre-Programmed:** The kit comes pre-programmed for immediate use, requiring no initial pairing setup.
- **Expandable System:** Easily add more wireless switches or receivers to create multi-way switching configurations (4-way, 5-way, etc.).
- **No Interference:** Utilizes rolling/dynamic codes to prevent interference, allowing multiple kits to operate independently in the same location.
- **Versatile Application:** Suitable for controlling lamps, ceiling lights, fans, and other light fixtures.
- **Portable Switch:** The wireless switch can be mounted on any surface or used as a portable remote.

3. PACKAGE CONTENTS

Please verify that all components are present:

- Wireless Wall Switch (Transmitter)
- RF Receiver

- Mounting Bracket for Wireless Switch
- Mounting Hardware (screws, anchors, wire nuts)
- 12V Battery (pre-installed in switch, with insulation sheet)
- User Manual



Image 3.1: Components of the SURAIIELEC 3-Way Wireless Light Switch and Receiver Kit, including the wireless switch, receiver, and mounting hardware.

4. SPECIFICATIONS

Parameter	Value
Operation Mode	OFF-NONE-ON
Current Rating	10 Amps
Operating Voltage	125 Volts (AC)
Max Power Rating (Resistive)	1250W
Max Power Rating (Tungsten)	800W

Contact Type	Normally Open
Connector Type	Quick Connect
Circuit Type	3-way
RF Range	Up to 100 ft (open area)
Batteries	2 x 12V (included)
Receiver Dimensions	Approx. 2.67" x 1.5" x 0.94"

5. SAFETY INFORMATION

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or property damage.

- **ALWAYS** turn off power at the circuit breaker before installing or servicing the receiver.
- Ensure the wiring connections are secure and comply with local electrical codes.
- This product is designed for indoor use. Do not expose to water or damp conditions.
- Do not exceed the maximum load ratings (10A/1250W Resistive, 800W Tungsten).
- If you are unsure about any part of the installation, consult a qualified electrician.
- Keep batteries out of reach of children.

6. SETUP AND INSTALLATION

The installation process involves wiring the receiver and mounting the wireless switch.

6.1 Receiver Installation

1. **Turn off Power:** Locate the circuit breaker controlling the light fixture and turn off the power. Verify power is off using a voltage tester.
2. **Access Wiring:** Open the electrical box (e.g., ceiling rose, switch box, junction box) where the light fixture is wired.
3. **Identify Wires:** Identify the Live (Input), Neutral (Input), Live (Output to lamp), and Neutral (Output to lamp) wires. The receiver requires a neutral wire for operation.
4. **Wire the Receiver:** Connect the receiver wires according to the diagram below. Use the provided wire nuts to ensure secure connections.
 - Receiver Red wire (Input L) to House Live wire (from power source).
 - Receiver Blue wire (Input N) to House Neutral wire (from power source).
 - Receiver Black wire (Output L) to Lamp Live wire.
 - Receiver White wire (Output N) to Lamp Neutral wire.
5. **Secure Receiver:** The compact receiver is designed to fit inside standard electrical boxes. Carefully tuck the receiver and wires into the box.
6. **Restore Power:** Close the electrical box and turn the power back on at the circuit breaker.

Wired between Power and Lights

One switch controls several lights in series (Max 10A/1250W)

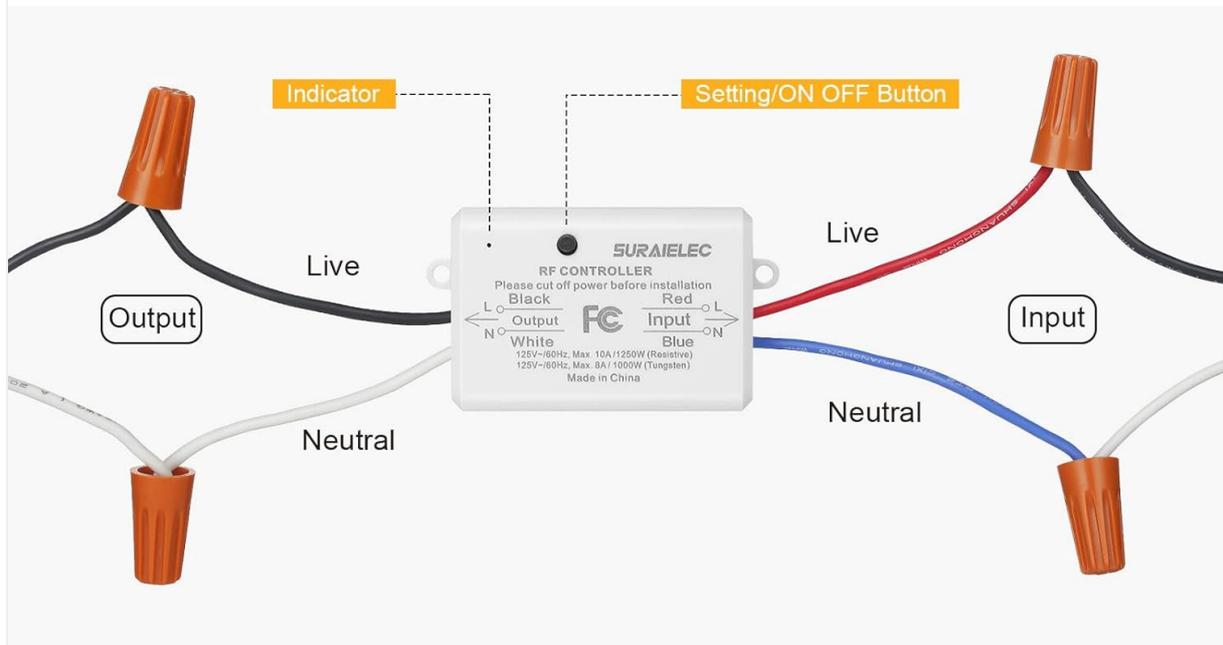
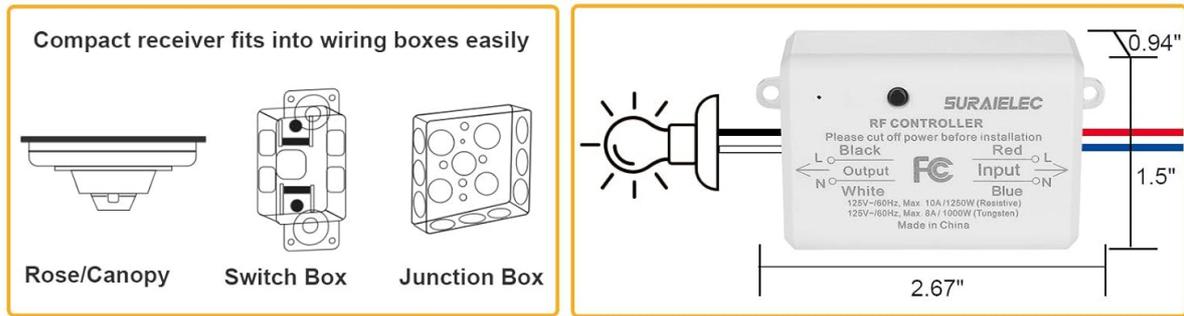
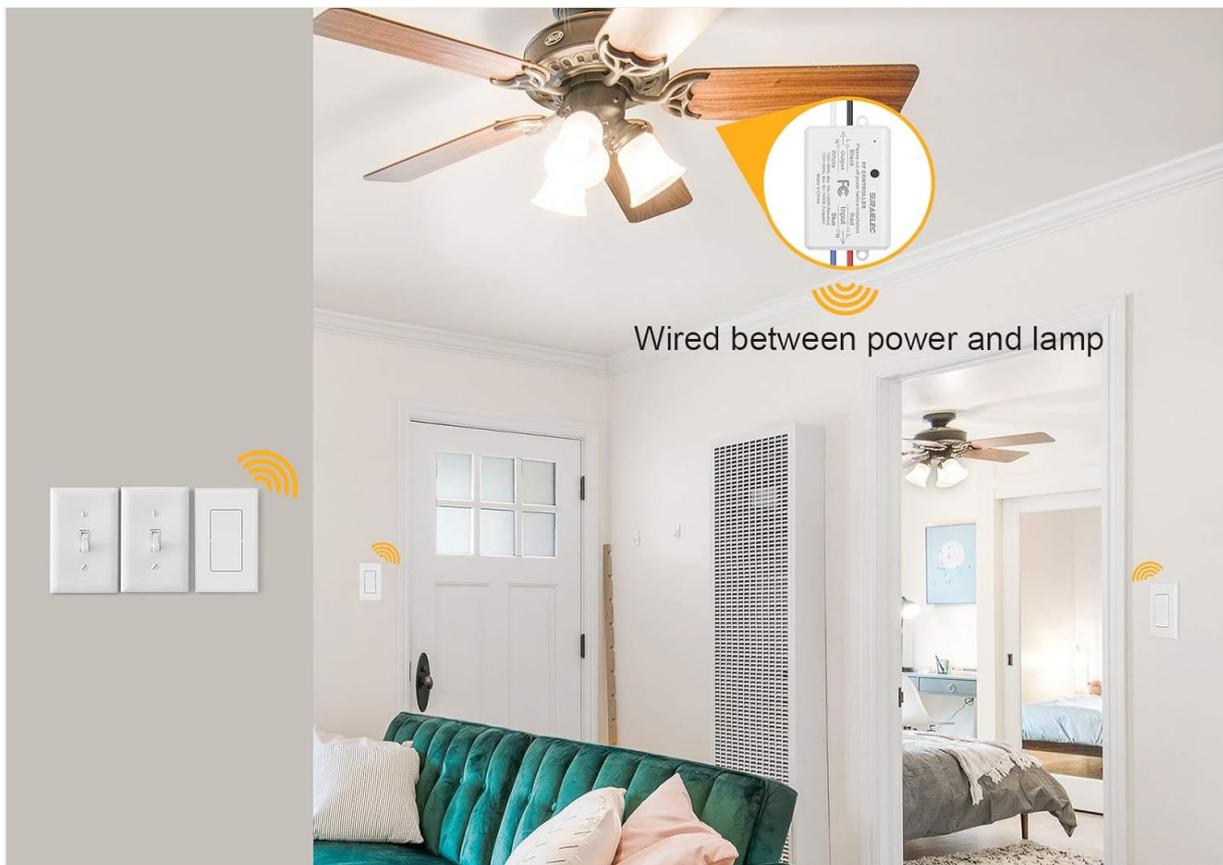


Image 6.1: Detailed wiring diagram showing connections for the receiver between the power source and the light fixture.



Relocate or Add Wall Switches without Rewiring

- ✓ No in-wall wiring required
- ✓ Mount wall switches anywhere
- ✓ 100ft wireless remote control
- ✓ Pre-programmed for immediate use

Image 6.2: Example of the receiver wired between the power and a ceiling lamp, typically concealed within the canopy or junction box.

6.2 Wireless Switch Installation

The wireless switch can be mounted on any flat surface or used as a portable remote.

1. **Remove Battery Insulation:** Before first use, open the back cover of the wireless switch and remove the plastic insulation sheet from the battery compartment.
2. **Choose Location:** Select a desired location for your wireless switch. This can be any wall, cabinet, or even a bedside table.
3. **Mounting Options:**
 - **Screw Mounting:** Use the included screws and anchors to attach the mounting bracket to the wall. Then, snap the wireless switch onto the bracket.
 - **Adhesive Mounting (Not Included):** For non-permanent installation, strong double-sided adhesive tape (not included) can be used to attach the bracket to a clean, dry surface.
 - **Portable Use:** The switch can be removed from its bracket and used as a handheld remote.

Wall Switch Mounts Everywhere & Portable

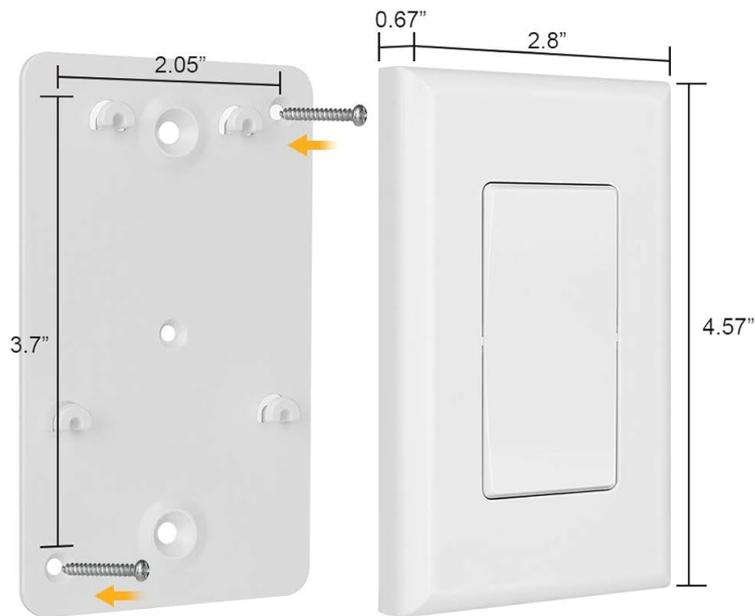


Image 6.3: Illustration of the wireless switch, its mounting bracket, and the battery compartment with insulation sheet.

7. OPERATING INSTRUCTIONS

The SURAIIELEC wireless switch is designed for straightforward operation.

- **Turning ON:** Press the upper part of the rocker switch to turn the connected light fixture ON.
- **Turning OFF:** Press the lower part of the rocker switch to turn the connected light fixture OFF.

The kit comes pre-programmed, so the switch will control the receiver immediately after installation.

3-Way Switch

Ideal for loft, attic, stairwell, hallway, basement, garage, and more



No Interference

Allow to use multiple sets in a room at the same time



Image 7.1: A typical home environment demonstrating the flexibility of placing wireless switches for 3-way control.



100FT RF Remote Range

Strong RF signal works through walls/ doors/ windows

Free Pairing, No Interference

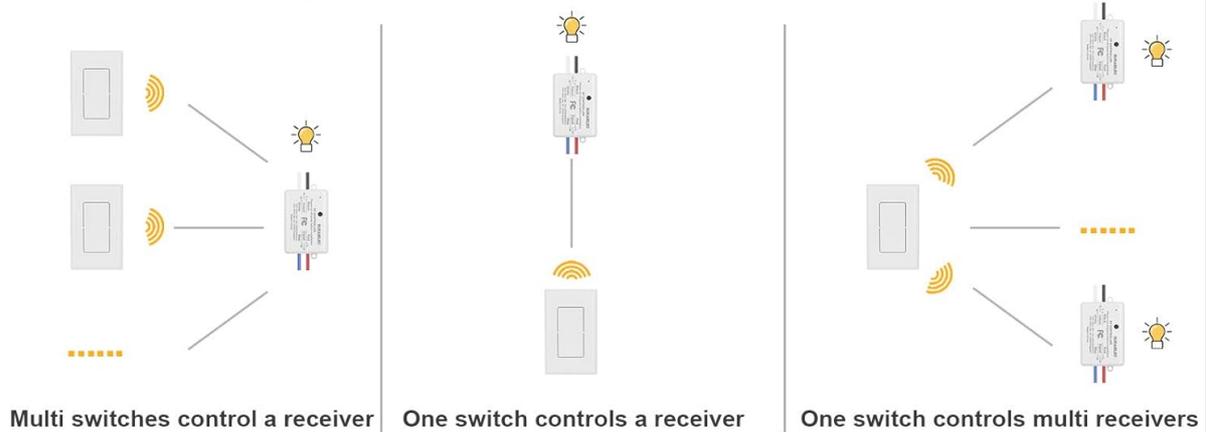


Image 7.2: Visual representation of the 100ft RF remote range, capable of transmitting signals through walls and doors.

8. PAIRING INSTRUCTIONS (EXPANDABILITY)

Your SURAIELEC kit is pre-programmed. However, you can expand your system by pairing additional switches to a receiver or multiple receivers to a single switch.

8.1 Pairing an Additional Switch to an Existing Receiver

1. Ensure the receiver is powered on.
2. Press and hold the small pairing button on the receiver (usually located near the wires) until the indicator light on the receiver starts blinking.
3. While the receiver's indicator light is blinking, press the desired ON or OFF button on the new wireless switch you wish to pair.
4. The receiver's indicator light will stop blinking and turn solid, confirming successful pairing.
5. Test the new switch to ensure it controls the light fixture.

8.2 Pairing an Additional Receiver to an Existing Switch

1. Ensure the new receiver is powered on.
2. Press and hold the pairing button on the new receiver until its indicator light starts blinking.

3. While the receiver's indicator light is blinking, press the desired ON or OFF button on the existing wireless switch you wish to pair.
4. The receiver's indicator light will stop blinking and turn solid, confirming successful pairing.
5. Test the existing switch to ensure it controls the new light fixture.

8.3 Clearing Pairing Information

To clear all paired switches from a receiver:

- Press and hold the pairing button on the receiver for approximately 10-15 seconds until the indicator light blinks rapidly and then turns off. This indicates all pairing data has been cleared.

9. MAINTENANCE

The SURAIELEC Wireless Light Switch Kit requires minimal maintenance.

9.1 Battery Replacement

The wireless switch is powered by a 12V battery. When the switch becomes unresponsive or its range decreases significantly, it may be time to replace the battery.

1. Carefully pry open the back cover of the wireless switch.
2. Remove the old 12V battery.
3. Insert a new 12V battery, ensuring correct polarity (+/-).
4. Snap the back cover securely into place.

Dispose of old batteries responsibly according to local regulations.

9.2 Cleaning

Wipe the surfaces of the switch and receiver with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.

10. TROUBLESHOOTING

If you encounter issues with your SURAIELEC Wireless Light Switch Kit, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn ON/OFF from the wireless switch.	No power to receiver. Incorrect wiring. Switch battery is dead or insulation sheet not removed. Switch and receiver are not paired. Receiver is overloaded.	Check circuit breaker and power supply. Review wiring diagram (Section 6.1) and recheck connections. Remove battery insulation sheet or replace battery (Section 9.1). Perform pairing procedure (Section 8.1). Ensure connected load does not exceed 10A/1250W.
Reduced RF range or intermittent operation.	Weak battery in switch. Excessive metal obstructions or interference. Distance too great.	Replace switch battery (Section 9.1). Relocate the wireless switch or receiver to minimize obstructions. Ensure operation within the specified 100ft range (open area).

Multiple kits interfering with each other.	This should not occur due to dynamic codes.	If interference is suspected, try clearing the pairing on the affected receiver(s) (Section 8.3) and re-pairing only the desired switches.
Receiver indicator light not working.	No power to receiver. Faulty receiver.	Check power supply and wiring. Contact customer support for assistance.

11. WARRANTY AND SUPPORT

SURAIIELEC provides a no-hassle 1-year warranty for this product. If you experience any issues or have questions, please contact our customer service team. We offer 24-hour customer service to assist you. For support, please visit the SURAIIELEC store on Amazon or refer to the contact information provided with your purchase.