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› DC 12V 24V 4CH Channel Wireless Remote Control Switch Instruction Manual

## RODOT 1204B+2KT16

# DC 12V 24V 4CH Channel Wireless Remote Control Switch Instruction Manual

Model: **1204B+2KT16** | Brand: **RODOT**

## 1. PRODUCT OVERVIEW

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The RODOT DC 12V 24V 4CH Channel Wireless Remote Control Switch is designed for versatile remote control applications, including lights, garage doors, motors, and awnings. This system provides reliable wireless control with a maximum range of up to 164ft/50m in open areas. It features a 4-channel receiver and two transmitters, offering multiple operating modes for various control needs.

The system incorporates a learning code for enhanced security, allowing users to re-learn new codes if a remote control is lost, ensuring continuous control over connected devices.



Image 1.1: Components of the RODOT 4-Channel Wireless Remote Control Switch system, including the receiver board, protective casing, and two remote transmitters.

## 2. SPECIFICATIONS

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<b>Feature</b>	<b>Detail</b>
Brand	RODOT
Model	1204B+2KT16
Connector Type	Screw
Contact Material	Silver
Contact Type	Normally Open
Current Rating	10 Amps
Mounting Type	Socket Mount
Operation Mode	Automatic
Coil Voltage	12 Volts
Maximum Switching Current	10 Amps
Maximum Switching Voltage	12 Volts
Item Weight	5.3 ounces
Package Dimensions	6.1 x 4.92 x 1.3 inches

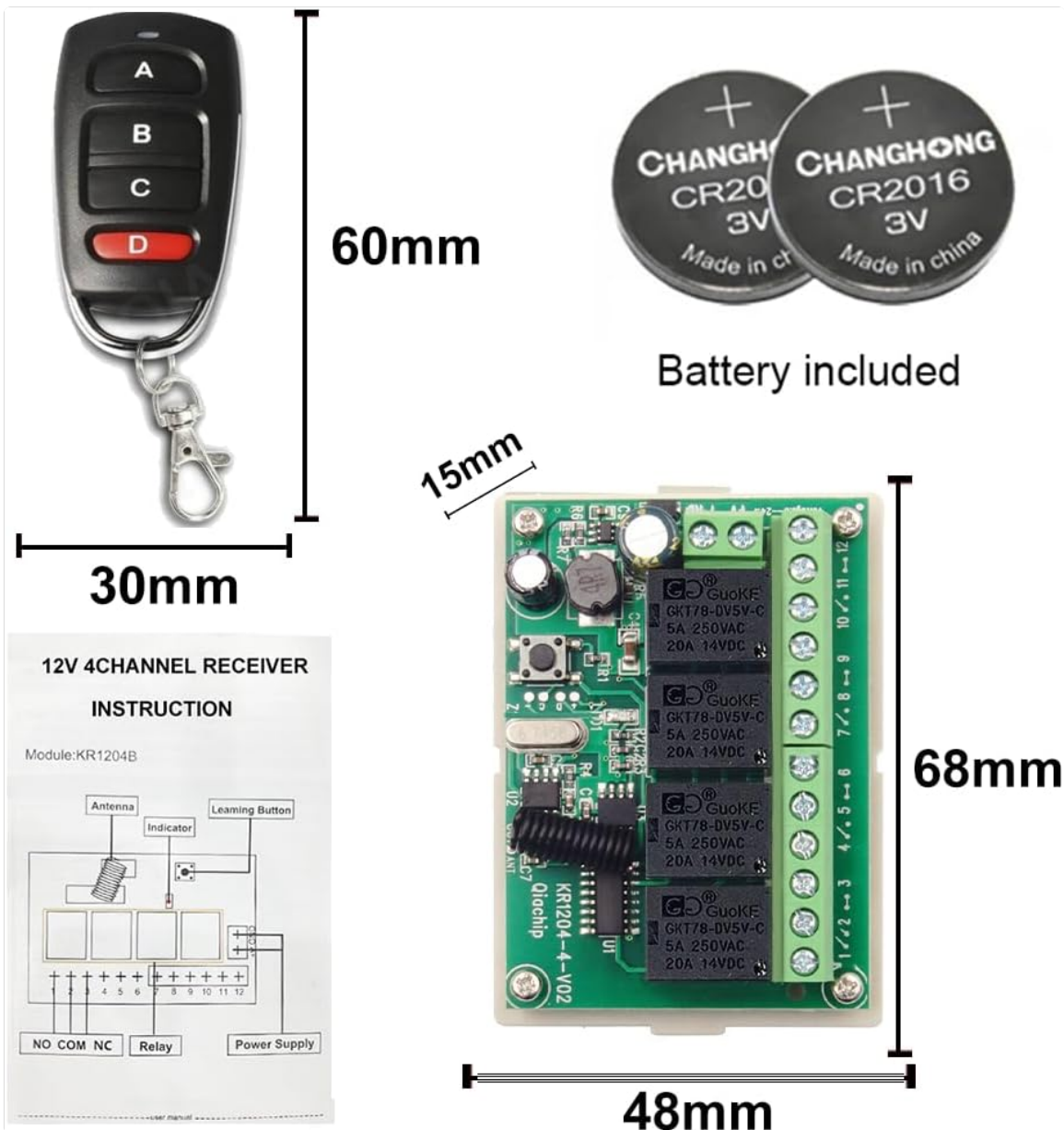


Image 2.1: Detailed dimensions of the receiver module and remote control.

### 3. SETUP AND WIRING

Before connecting the receiver, ensure the power supply is disconnected. The receiver supports DC 12V or 24V input. Carefully follow the wiring diagrams based on your application.

#### 3.1. Wiring Diagrams

The receiver board has terminals for power supply (DC12V+/DC12V-) and relay outputs (NO, COM, NC for each channel). Refer to the following diagrams for common connection modes:

## Circuit Connection modes

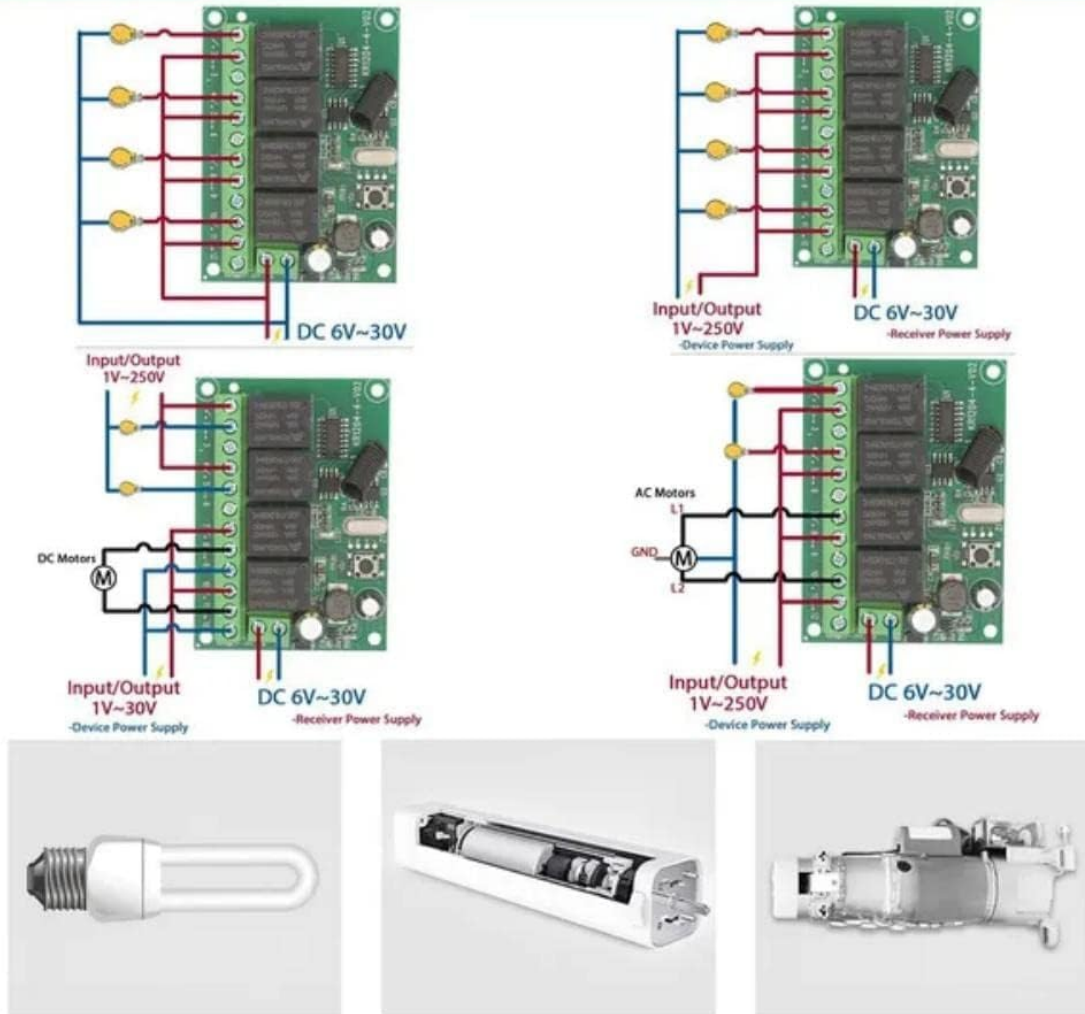


Image 3.1: Various circuit connection modes for different types of loads, including DC motors and AC loads.

### 3.1.1. Connecting DC Motors

For controlling DC motors, connect the motor leads to the appropriate relay terminals (e.g., COM and NO). The power supply for the motors can be separate or shared with the receiver, depending on the motor's voltage requirements.

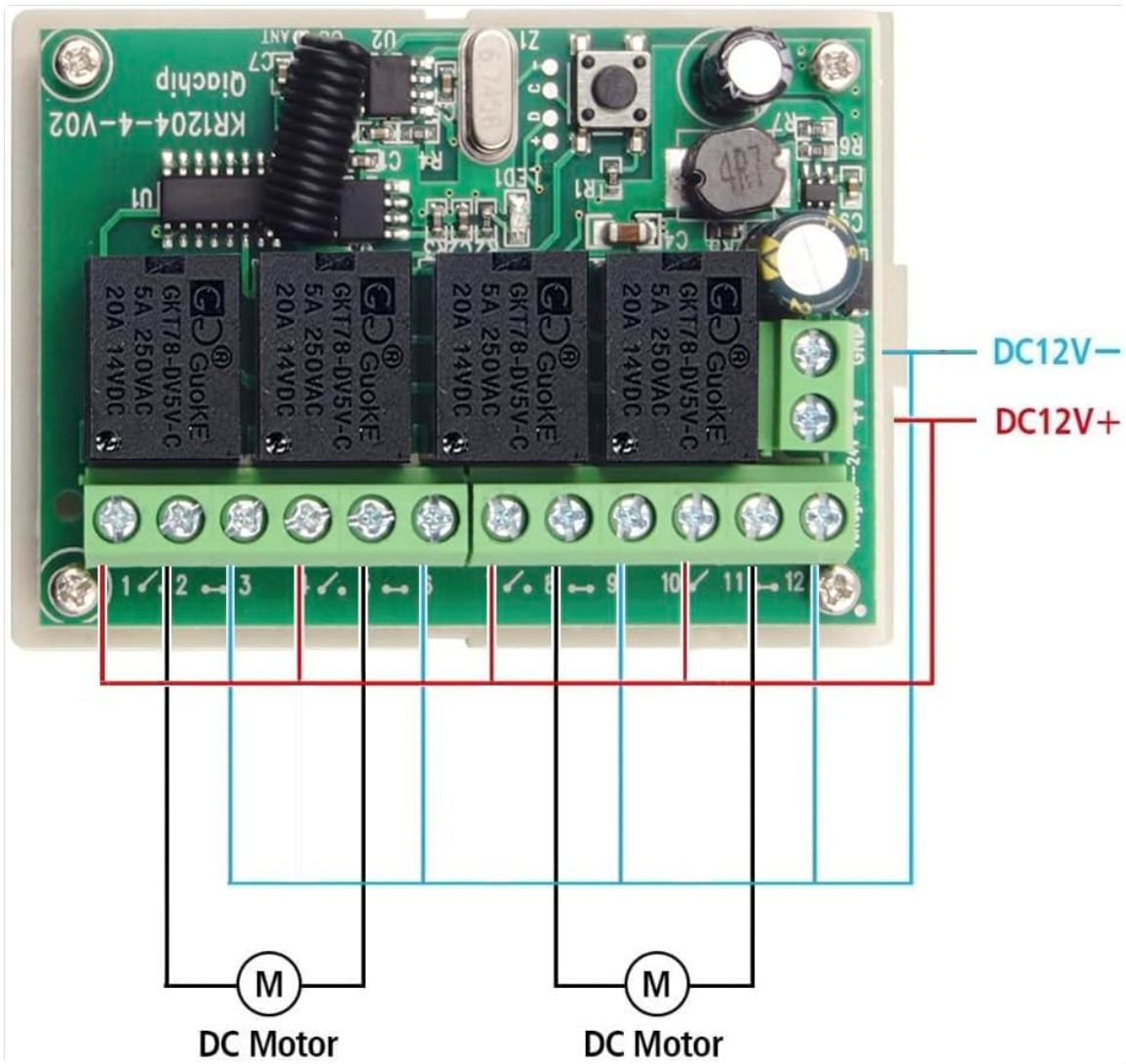


Image 3.2: Example wiring for controlling two DC motors using the receiver.

### 3.1.2. Connecting Lights/Loads

For controlling lights or other loads, connect them to the relay terminals. Ensure the load's voltage and current ratings do not exceed the receiver's specifications (10A, 12V/24V DC or 250V AC).

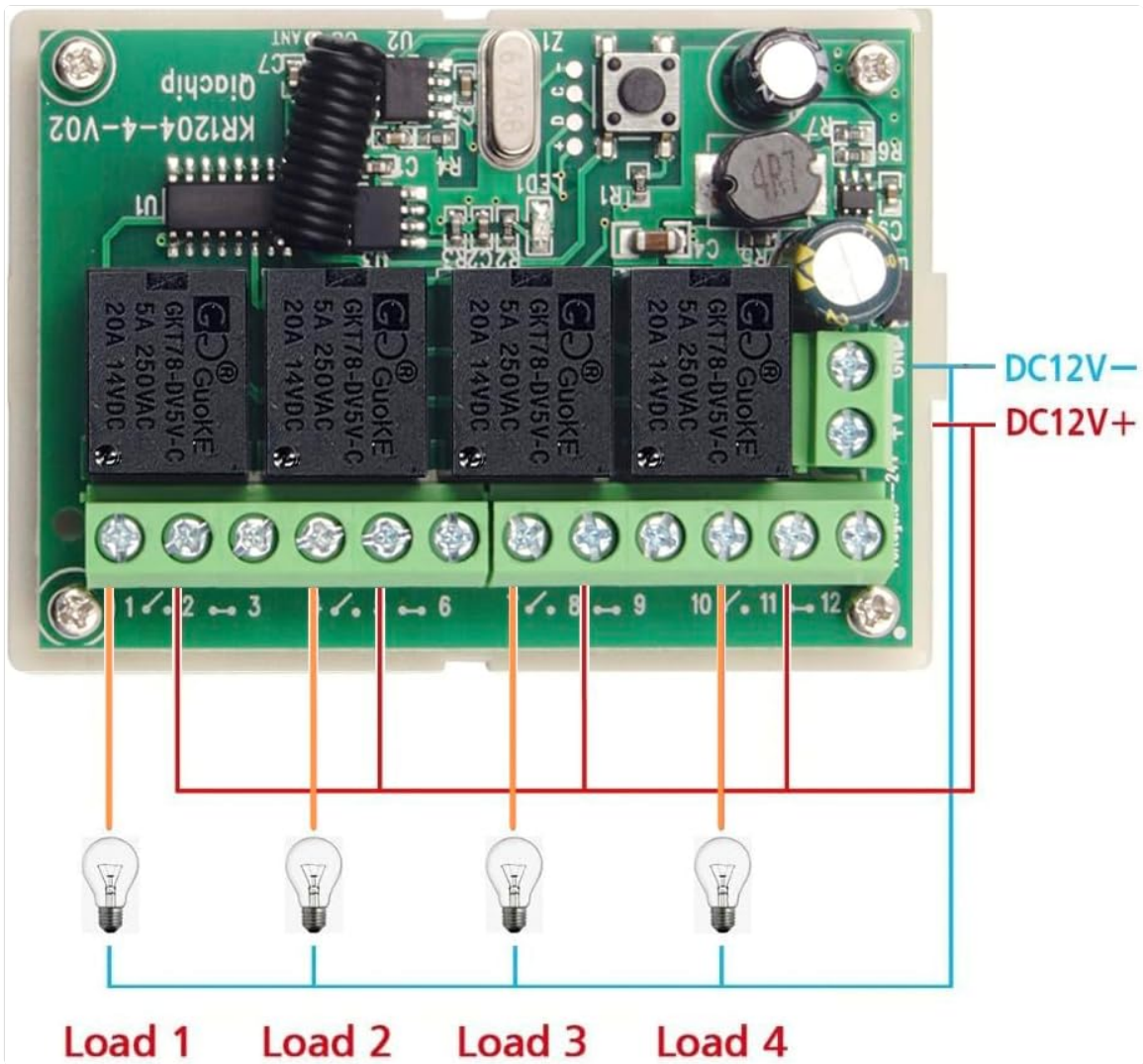


Image 3.3: Example wiring for controlling four lights or similar loads.

### 3.2. Learning Modes (Pairing Transmitters)

The receiver supports multiple operating modes. To set a mode, press the learning button on the receiver board a specific number of times, then press a button on the remote control.

## Momentary Mode

Press the learning button once  
press remote button once, succeed

## Toggle Mode

Press the learning button twice  
press remote button once, succeed

## Latched Mode

Press the learning button 3 times  
press remote button once, succeed

## Reset

Press the learn button 8 times

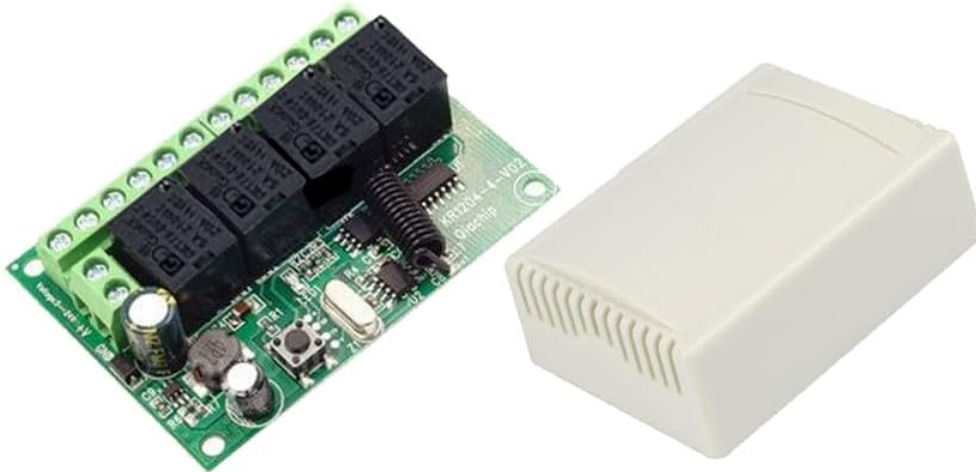
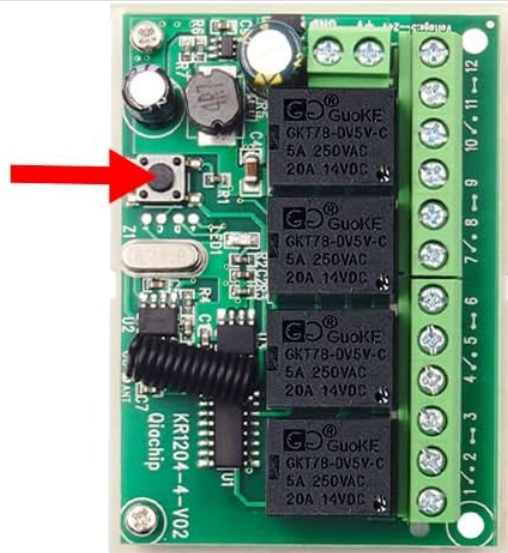


Image 3.4: Close-up of the receiver board showing the learning button, indicator, antenna, and relay/power supply terminals.

### 3.2.1. Momentary Mode (Press and Hold)

In Momentary mode, the relay activates only while the remote button is pressed and held. Release the button to deactivate the relay.

1. Press the learning button on the receiver board **once**. The indicator light will turn on.
2. Press any button on the remote control. The indicator light will flash 3 times, indicating successful pairing.

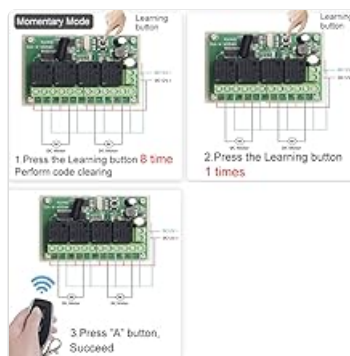


Image 3.5: Visual guide for setting up Momentary Mode.

### 3.2.2. Toggle Mode (Press On, Press Off)

In Toggle mode, pressing the remote button once activates the relay, and pressing the same button again deactivates it.

1. Press the learning button on the receiver board **twice**. The indicator light will turn on.
2. Press any button on the remote control. The indicator light will flash 3 times, indicating successful pairing.

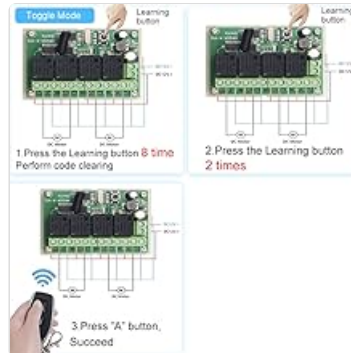


Image 3.6: Visual guide for setting up Toggle Mode.

### 3.2.3. Latched Mode (Interlock)

In Latched mode, pressing one remote button activates its corresponding relay and deactivates any previously active relay on the same receiver. This is useful for applications where only one output should be active at a time (e.g., motor direction control).

1. Press the learning button on the receiver board **three times**. The indicator light will turn on.
2. Press any button on the remote control. The indicator light will flash 3 times, indicating successful pairing.

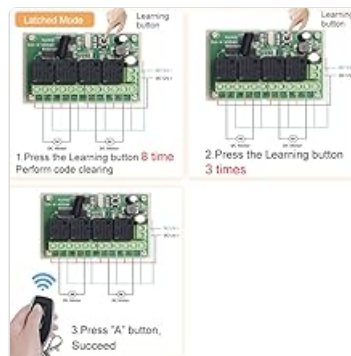


Image 3.7: Visual guide for setting up Latched Mode.

### 3.2.4. Mixed Modes (Advanced)

The receiver also supports advanced mixed modes for specific applications:

- **4. 2CH Momentary + 2CH Toggle:** Press learning button 4 times.
- **5. 2CH Momentary + 2CH Latched:** Press learning button 5 times.
- **6. 2CH Toggle + 2CH Latched:** Press learning button 6 times.
- **7. 2CH Latched + 2CH Latched:** Press learning button 7 times.

After pressing the learning button the specified number of times, press any remote control button. The indicator light will flash 3 times, confirming the setting.

## 3.3. Clearing All Paired Transmitters (Reset)

To clear all previously paired remote controls from the receiver's memory:

1. Press the learning button on the receiver board **eight times**.
2. The indicator light will flash 8 times, then turn off, indicating that all stored codes have been cleared.

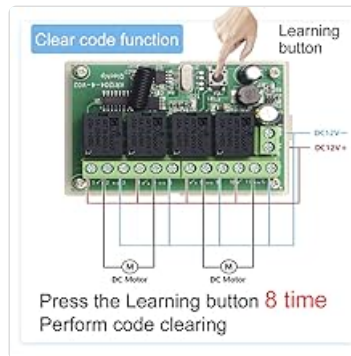


Image 3.8: Visual guide for clearing all paired remote codes.

### 3.4. Video Guide: Pairing Remote Control Switches

For a visual demonstration of the pairing process, please refer to the official product video below:

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*Video 3.1: This video demonstrates the pairing process for the 4-channel remote control switches, showing how to set up Momentary, Toggle, and Latched modes, as well as how to reset the receiver.*

## 4. OPERATING THE SYSTEM

Once the remote control is successfully paired with the receiver in the desired mode, operation is straightforward:

- **Momentary Mode:** Press and hold the corresponding button on the remote to activate the connected device. Release the button to deactivate.
- **Toggle Mode:** Press the corresponding button once to activate the connected device. Press the same button again to deactivate.
- **Latched Mode:** Press a button (e.g., 'A') to activate its corresponding channel. If another button (e.g., 'B') is pressed, channel 'A' will deactivate, and channel 'B' will activate. Only one channel can be active at a time in this mode.

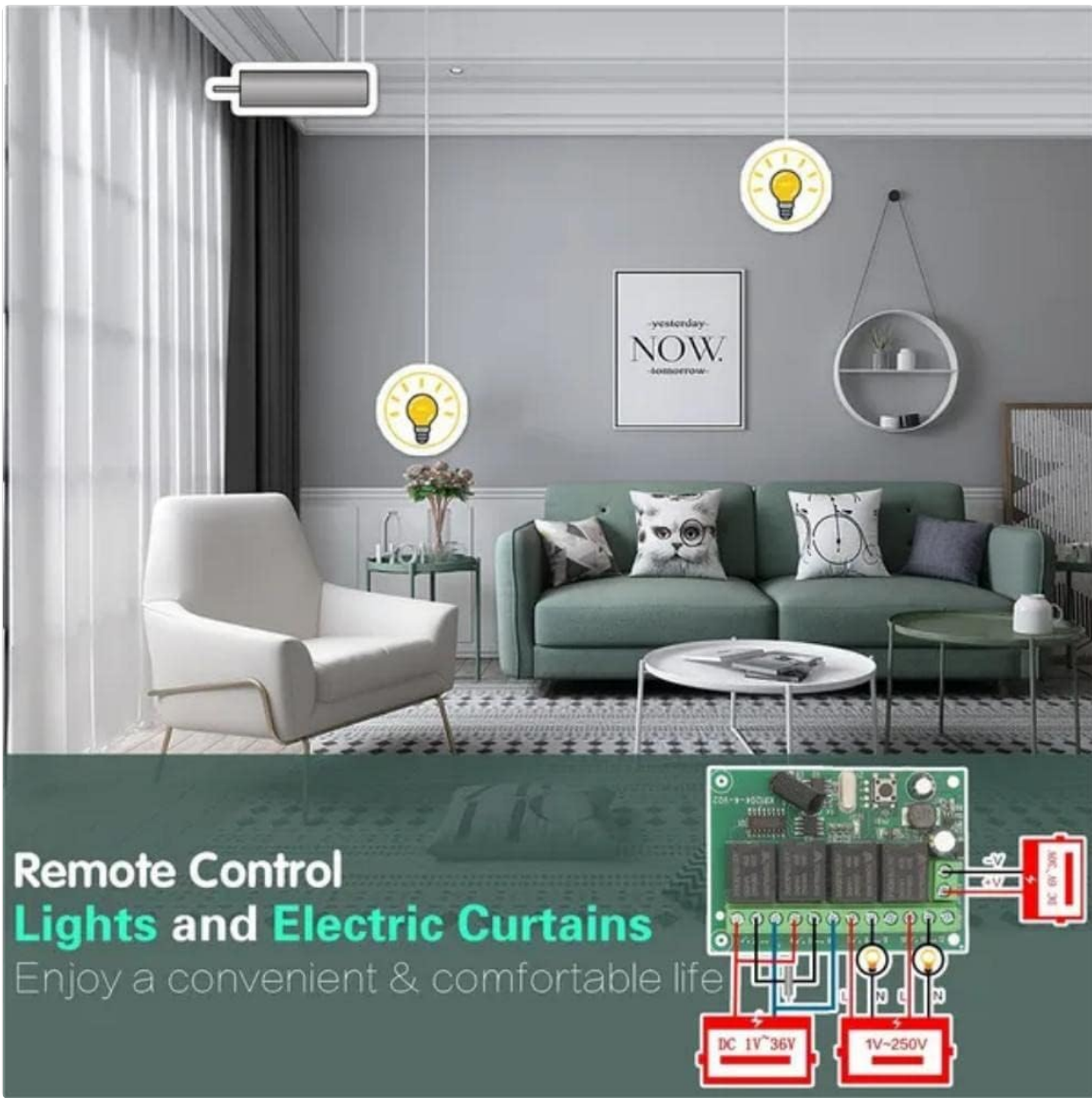


Image 4.1: The remote control system can be used for various applications, such as controlling lights and electric curtains.



Image 4.2: The system is suitable for a wide range of applications, including garage doors, alarm systems, and window/door control.

## 5. MAINTENANCE

The RODOT wireless remote control switch system is designed for low maintenance. Consider the following:

- **Cleaning:** Keep the receiver board and remote controls clean and free from dust and moisture. Use a dry, soft cloth for cleaning.
- **Battery Replacement:** The remote transmitters use standard coin cell batteries (e.g., CR2016 or CR2032). If the remote's range decreases or the indicator light on the remote becomes dim, replace the batteries. Refer to the remote's casing for specific battery type.
- **Environmental Conditions:** Avoid exposing the receiver to extreme temperatures, direct sunlight, or high humidity, as these can affect performance and lifespan.

## 6. TROUBLESHOOTING

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If you encounter issues with your RODOT wireless remote control switch, try the following troubleshooting steps:

- **No Response from Receiver:**
  - Check the power supply to the receiver. Ensure it is connected correctly (DC 12V or 24V) and receiving power.
  - Verify that the remote control's battery is not depleted. Replace if necessary.
  - Ensure the remote control is within the effective range (up to 164ft/50m without obstacles). Walls and other obstructions can significantly reduce range.
  - Re-pair the remote control with the receiver following the instructions in Section 3.2.
- **Incorrect Operating Mode:**
  - If the receiver is not behaving as expected (e.g., not toggling, or not latching), it might be programmed in the wrong mode. Clear all paired codes (Section 3.3) and then re-program the desired mode (Momentary, Toggle, or Latched) as described in Section 3.2.
- **Interference:**
  - Other RF devices operating on similar frequencies (433Mhz) can cause interference. Try relocating the receiver or the interfering device if possible.
- **Device Not Activating/Deactivating:**
  - Check the wiring of the connected device to the receiver's relay terminals. Ensure all connections are secure and correct according to the wiring diagrams (Section 3.1).
  - Verify that the connected device itself is functioning correctly when directly powered.

## 7. WARRANTY AND SUPPORT

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RODOT products are designed for reliability and performance. While specific warranty details are not provided in this manual, RODOT is committed to customer satisfaction.

If you encounter any problems or have questions regarding the DC 12V 24V 4CH Channel Wireless Remote Control Switch, please do not hesitate to contact RODOT customer support. We are always here to help.

### Contact Information:

- Please refer to your purchase platform or product packaging for the most up-to-date contact details.
- You can also visit the official RODOT store on Amazon for support and additional product information: [RODOT Store](#)

