Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

QIACHIP KR2204+2KT16

QIACHIP KR2204+2KT16 4-Channel 433MHz Wireless RF Receiver Relay with 2 Transmitters User Manual

Model: KR2204+2KT16

1. Introduction

This manual provides comprehensive instructions for the QIACHIP 4-Channel 433MHz Wireless RF Receiver Relay (Model KR2204) and its accompanying 2 Transmitters (Model 2KT16). This system is designed for remote control of various electrical devices, including garage doors, electric curtains, lights, and motors, operating within an AC 85V-250V range. Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

2. Product Overview and Features

The QIACHIP KR2204+2KT16 system offers reliable wireless control for a wide range of applications. Key features include:

- **433MHz Radio Frequency:** Transmits high-frequency signals capable of passing through walls, floors, and doors, with an effective control range of up to 50 meters in open areas.
- **EV1527 Learning Code:** Utilizes a secure learning code chip for reliable communication between transmitters and receiver.
- **Three Programmable Operation Modes:** Supports Momentary, Toggle, and Latched modes, allowing customization for different control needs.
- **Four Independent Relay Channels:** The receiver features four separate relay channels that can be configured to work together (e.g., for motor reversal) or independently to control multiple devices.
- **High Power Relay:** Equipped with a 10A relay, suitable for AC 85V~250V voltage applications.
- **Transmitter Capacity:** Each receiver can store programming for approximately 20 transmitters.
- **Versatile Applications:** Ideal for controlling garage doors, electric doors, roller shutter doors, retractable doors, electric curtains, fans, lamps, lighting, and ventilation equipment.



Image 2.1: QIACHIP 4-Channel RF Receiver Relay and two 4-button remote transmitters.

3. Specifications

Feature	Detail
Product Dimensions	2.75 x 1.18 x 1.96 inches
Item Model Number	KR2204+2KT16
Batteries	2 CR2032 batteries required (included for transmitters)
Manufacturer	QIACHIP

Feature	Detail
Receiver Voltage	AC 85V~250V
Relay Current	10A
RF Frequency	433MHz
Control Range	Up to 50m (open area)

4. Package Contents

The package includes the following items:

- 1 x RF Receiver (Model KR2204)
- 2 x Remote Transmitters (Model 2KT16)

5. Setup and Installation

Before installation, ensure the power supply to the device you intend to control is disconnected. Wiring should be performed by a qualified individual if you are unsure.

5.1 Wiring the Receiver

The receiver has terminals for power input (AC 85V-250V) and four relay outputs (NO, COM, NC for each channel). Connect the live (L) and neutral (N) wires from your AC power source to the corresponding input terminals on the receiver. Then, connect your device according to the desired operation mode and wiring diagram.

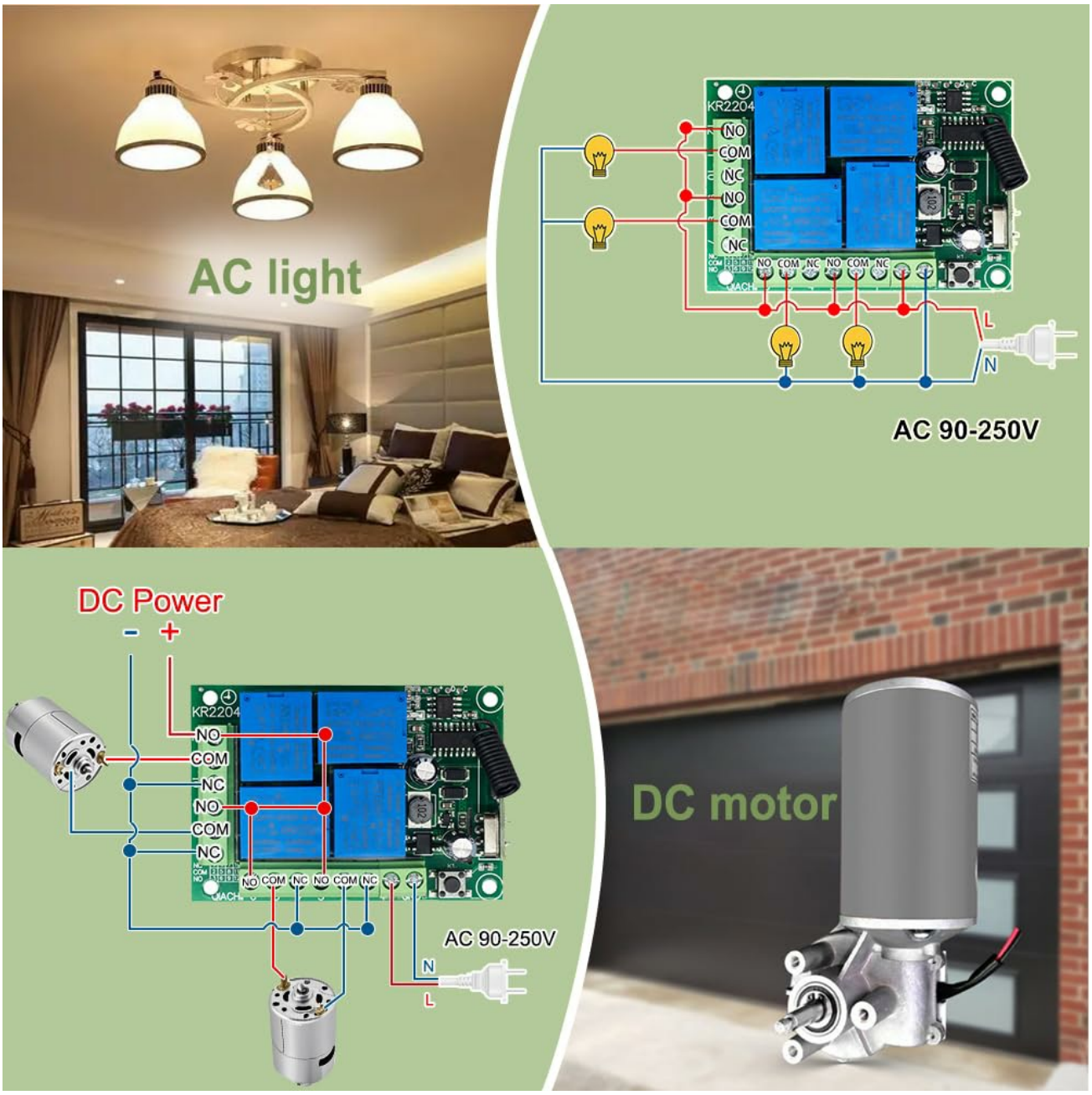


Image 5.1: Example applications and wiring concepts for AC lights, DC motors, and garage doors.

5.2 General Wiring Principles

- **NO (Normally Open):** The circuit is open (off) when the relay is de-energized and closes (on) when energized.
- **NC (Normally Closed):** The circuit is closed (on) when the relay is de-energized and opens (off) when energized.
- **COM (Common):** The common terminal for the relay switch.

Always ensure correct polarity and voltage matching for your connected devices.

6. Operating Instructions

The QIACHIP receiver supports three distinct operating modes: Momentary, Toggle, and Latched. These modes determine how the relay responds to button presses on the transmitter.

6.1 Programming the Receiver

To program a transmitter button to a specific mode, follow these steps:

1. **Momentary Mode:** Press the learning button on the receiver**once**. The indicator LED on the receiver will light up. Then, press the desired button on your remote transmitter **once**. The LED will flash and turn off, indicating successful programming. In this mode, the relay activates only while the remote button is held down.
2. **Toggle Mode:** Press the learning button on the receiver**twice**. The indicator LED will light up. Then, press the desired button on your remote transmitter **once**. The LED will flash and turn off, indicating successful programming. In this mode, one press turns the relay ON, and another press turns it OFF.
3. **Latched Mode:** Press the learning button on the receiver**three times**. The indicator LED will light up. Then, press the 'A' button on your remote transmitter **once**, followed by the 'B' button on the same remote**once**. The LED will flash and turn off, indicating successful programming. In this mode, pressing 'A' turns the relay ON, and pressing 'B' turns it OFF. For a 4-channel receiver, each pair of channels (e.g., Relay 1/2, Relay 3/4) can be set to Latched mode using two distinct buttons on the remote.

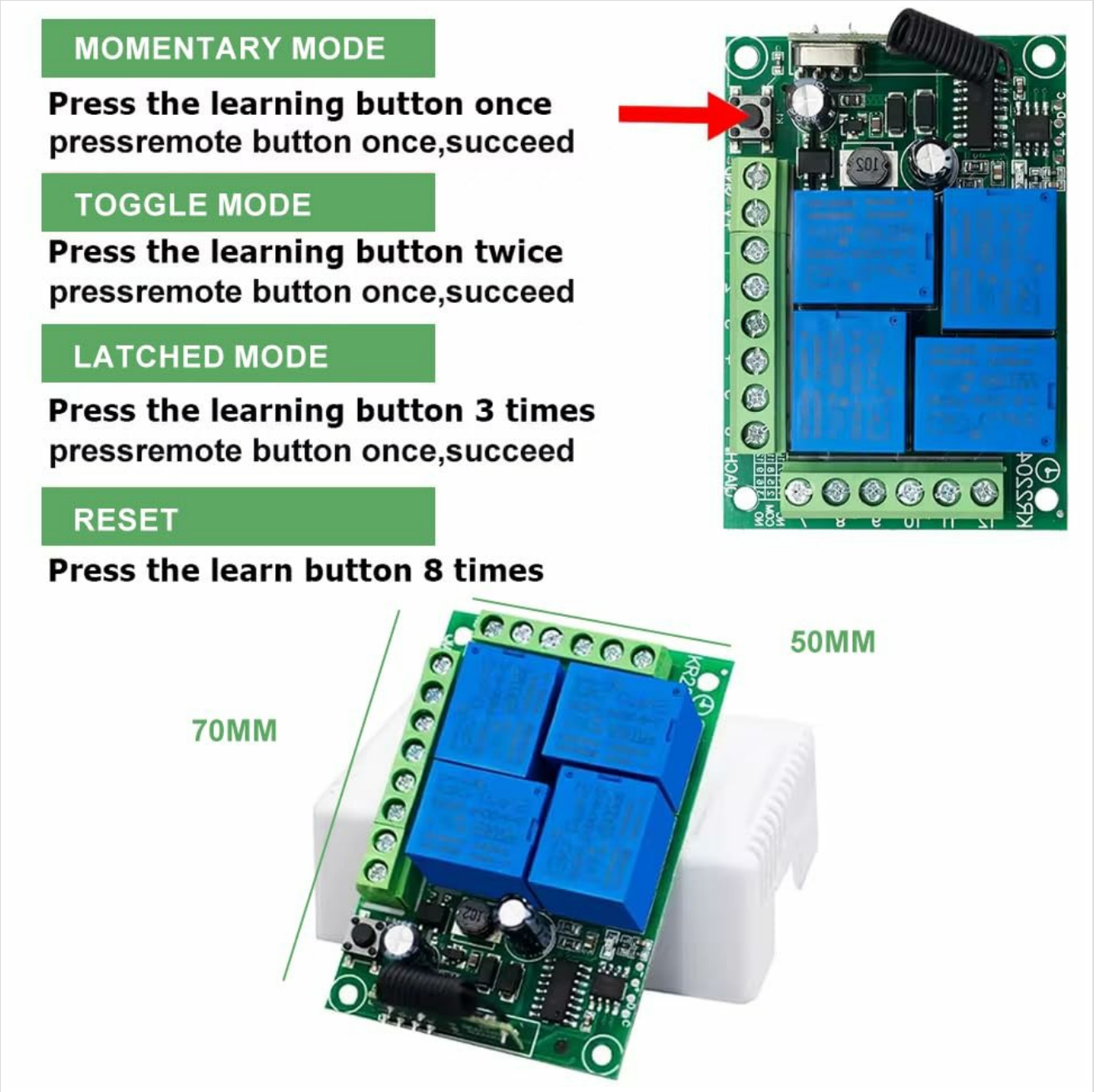


Image 6.1: Programming steps for Momentary, Toggle, and Latched modes, and receiver dimensions.

6.2 Resetting the Receiver

To clear all programmed transmitters from the receiver, press the learning button on the receiver**eight times**. The indicator LED will flash multiple times and then turn off, indicating that all stored codes have been erased.

6.3 Mode Diagrams

The following diagrams illustrate the behavior of each operating mode:



Image 6.2: Momentary Mode operation.



Image 6.3: Toggle Mode operation.

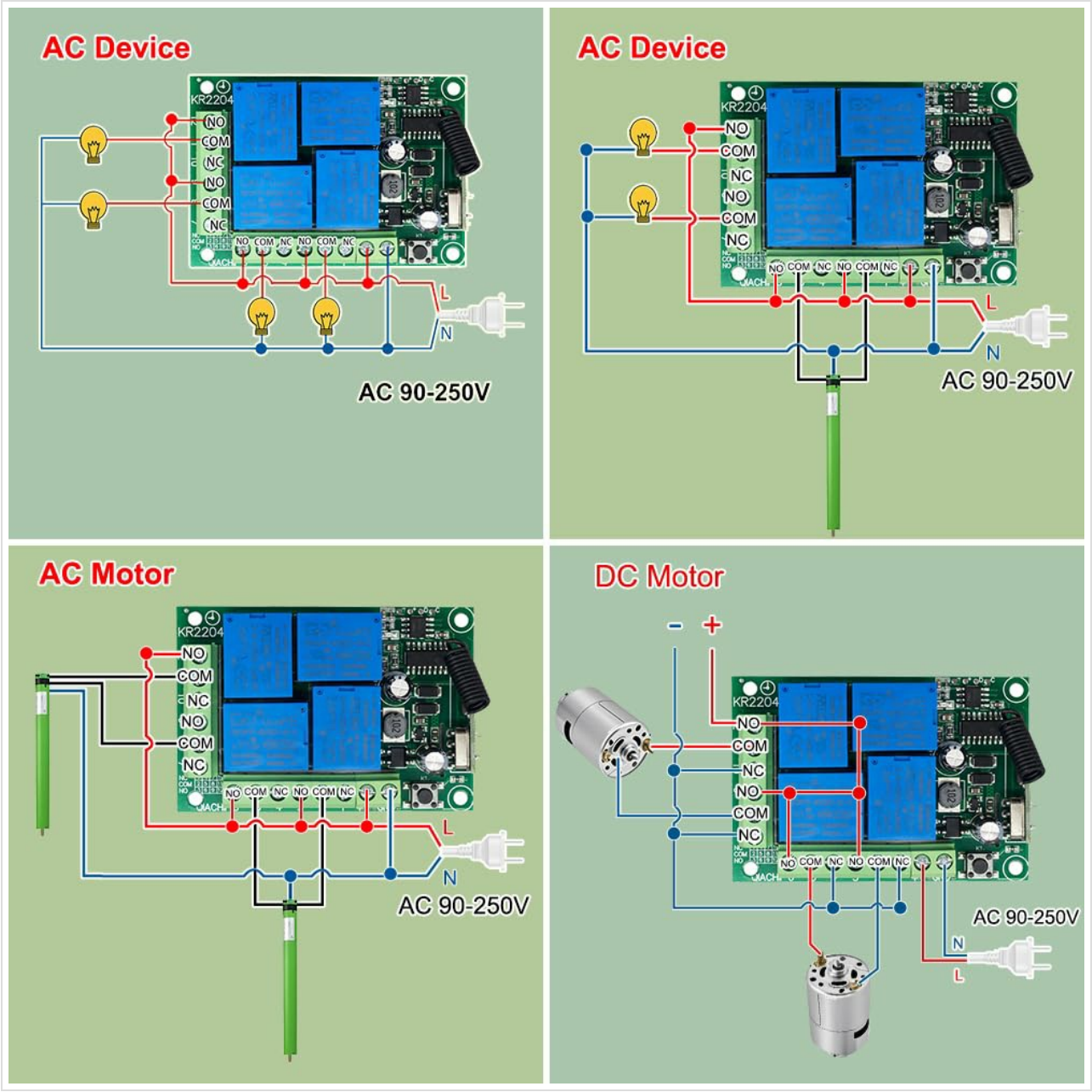


Image 6.4: Latched Mode operation.

7. Wiring Diagrams for Specific Applications

Refer to the following diagrams for common wiring configurations:

7.1 AC Device Wiring (e.g., Lights)



Image 7.1: Wiring an AC light to the receiver.

7.2 DC Motor Wiring

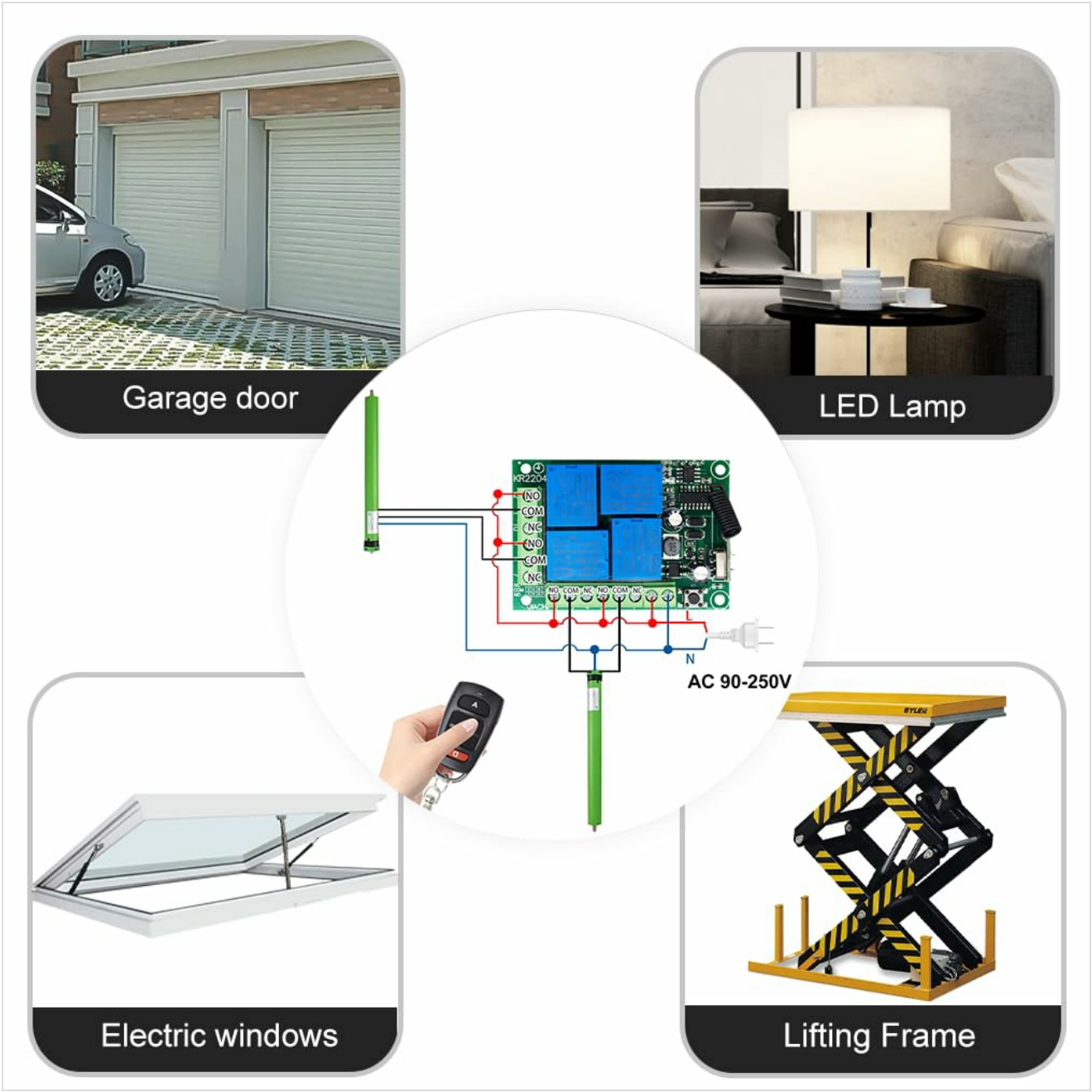


Image 7.2: Wiring a DC motor to the receiver.

7.3 Multiple Device Wiring Examples

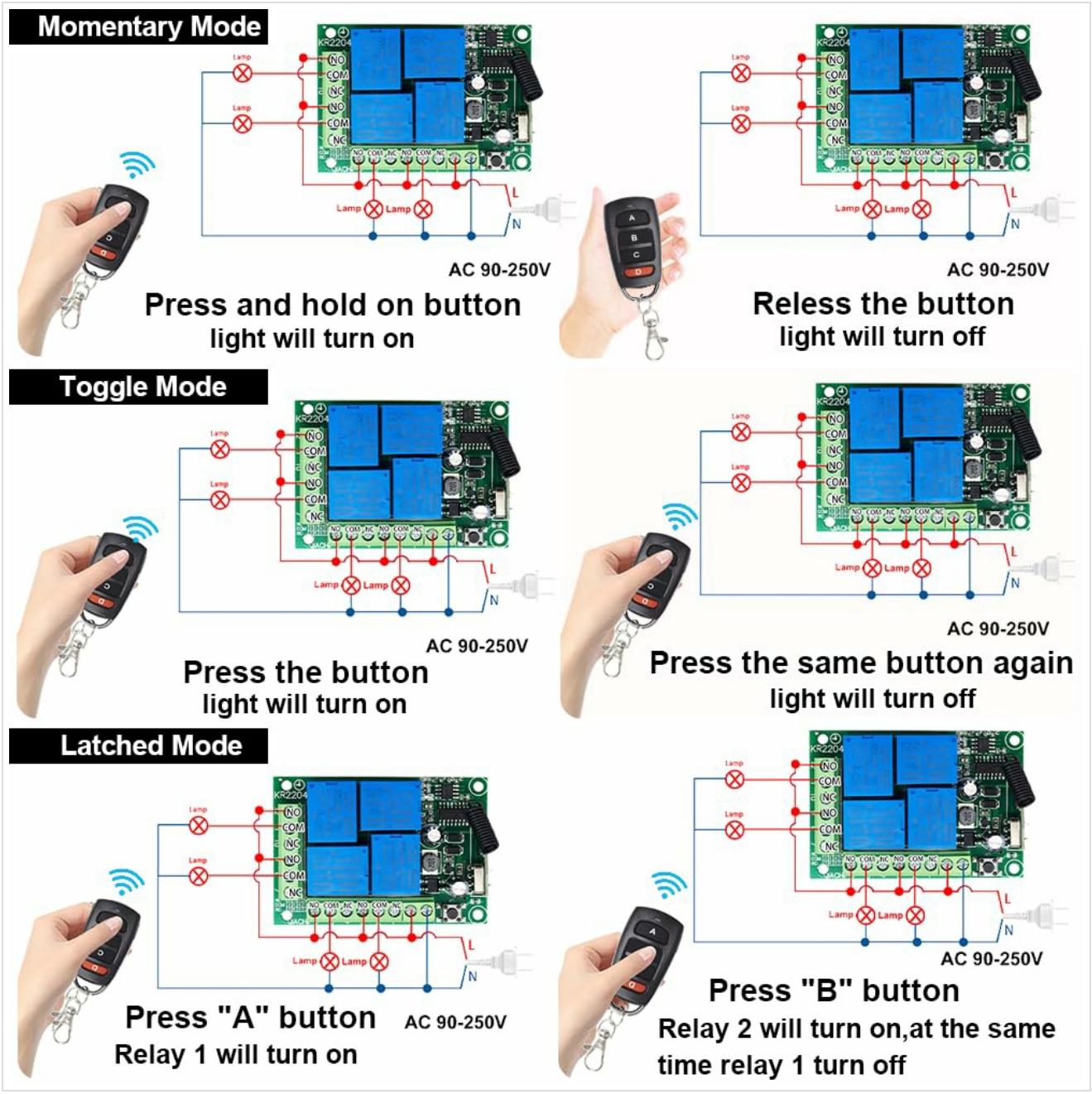


Image 7.3: Comprehensive wiring examples for AC devices, AC motors, and DC motors.

8. Troubleshooting

- **Device not responding:** Ensure the receiver is powered correctly (AC 85V-250V). Check if the transmitter batteries (CR2032) are functional. Verify that the transmitter is correctly programmed to the receiver in the desired mode.
- **Limited range:** Ensure there are no significant obstructions (thick concrete walls, large metal objects) between the transmitter and receiver. Avoid placing the receiver near strong electromagnetic interference sources.
- **Intermittent operation:** Check for loose wiring connections. Ensure the receiver's antenna is not obstructed or damaged.
- **Accidental activation:** If multiple devices are activating unexpectedly, consider resetting the receiver and reprogramming only the intended transmitters.

9. Maintenance

The QIACHIP receiver and transmitters require minimal maintenance. Keep the devices clean and dry. Replace transmitter batteries (CR2032) as needed. Do not attempt to open or repair the receiver or transmitters yourself, as this may void any potential warranty and could lead to electrical hazards.

10. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact QIACHIP customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0FK1QV781

More documents and user manuals: **https://manuals.plus/**