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Mangood MD-56841

MANGOOD DC 12V-48V 6-Channel Wireless Remote Control Switch Instruction Manual

Model: MD-56841

1. Overview

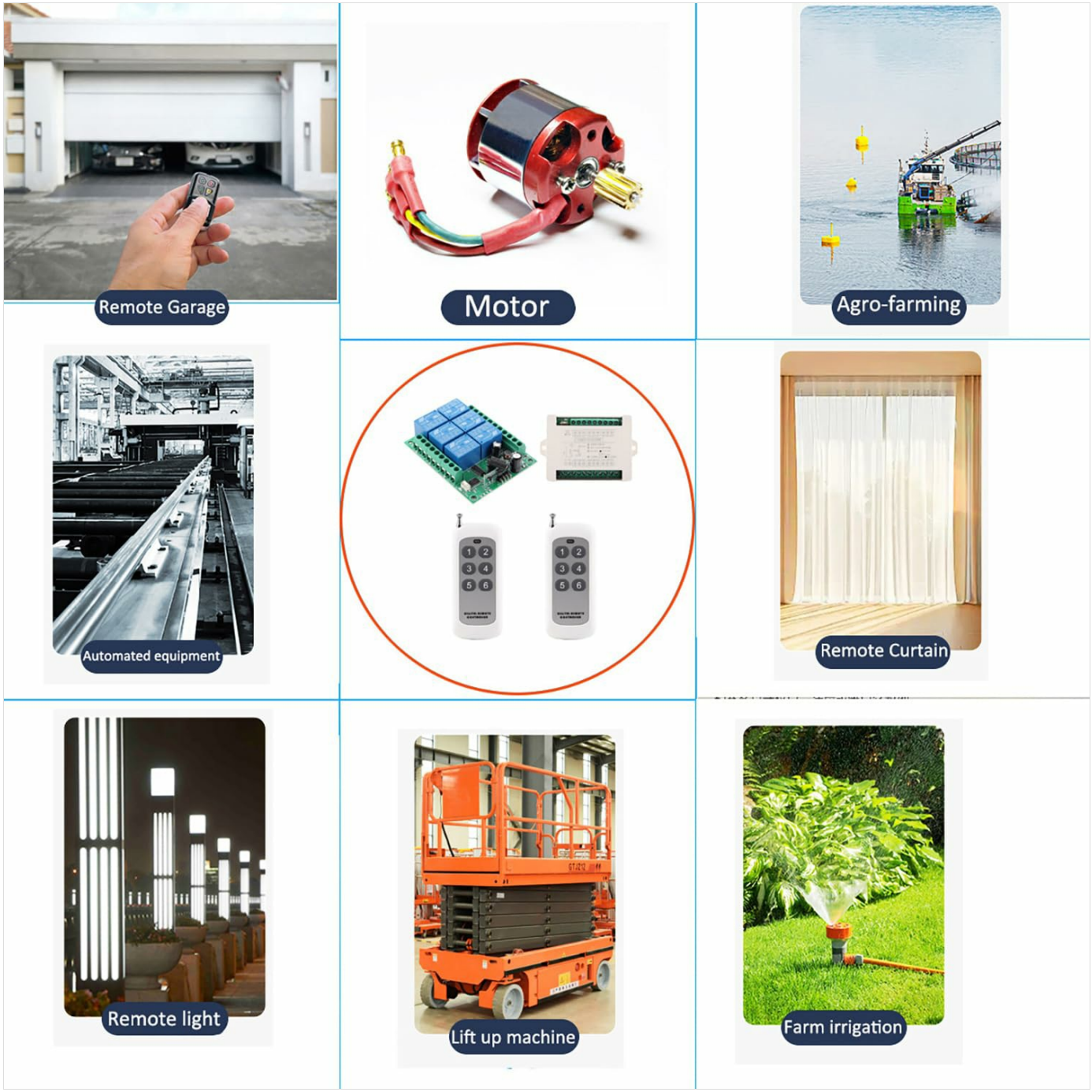
The MANGOOD DC 12V-48V 6-Channel Wireless Remote Control Switch is designed for controlling various electrical appliances and systems wirelessly. It operates on a 433MHz RF frequency, offering stable signal transmission through obstacles. This system supports a wide voltage range (DC 12V-48V) for the receiver and can handle relay loads from 1V to 250V (DC/AC) up to 10A. It features multiple working modes to suit diverse control requirements, including momentary, toggle (self-lock), and latched (inter-lock) operations.

This versatile relay switch is suitable for a wide range of household and industrial circuits, requiring no complex wiring for installation. Simply connect the receiver between your power source and the electrical appliance to enable wireless control.

2. Product Components

The package includes the following items:

- 1 x 12V-48V 6-Channel Switch Relay Receiver
- 2 x Remote Control Transmitters (each with 1 x 23A Battery included)
- 1 x Instruction Manual (this document)

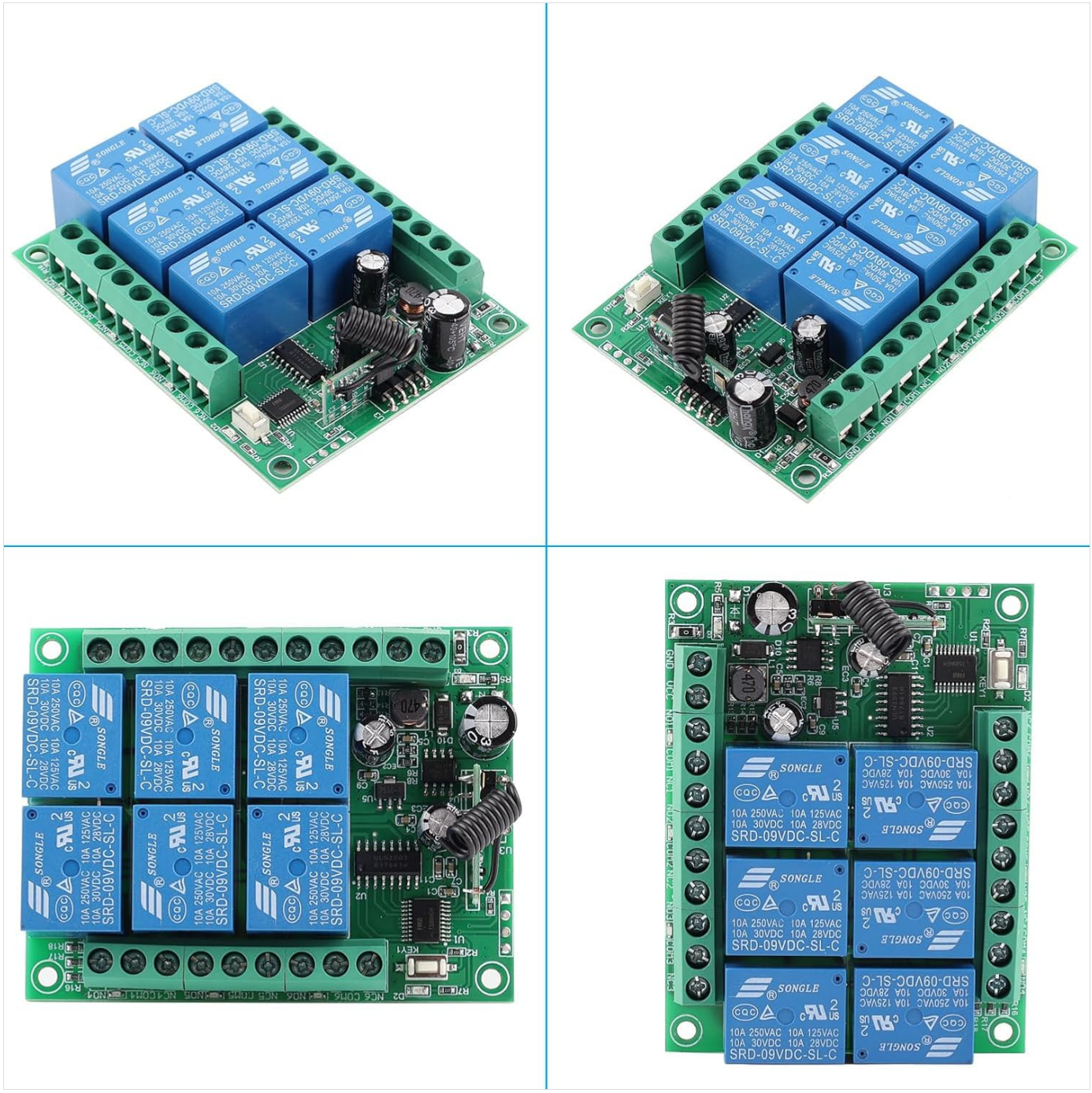


This image displays the main components of the MANGOOD wireless switch system: the 6-channel receiver board with its relay modules and terminals, alongside two handheld remote control transmitters.

The receiver board features screw terminals for easy wiring, an antenna for signal reception, and a 'Learn button' for pairing remote controls. The remote control transmitter is a 6-button device powered by a 23A battery.



This image details the physical dimensions of both the receiver (95mm x 62mm x 28.5mm) and the remote control (97mm x 38mm x 13mm). It also shows the 23A battery used in the remote control.



This image provides both top and bottom perspectives of the 6-channel receiver board, showcasing the layout of the relays, electronic components, and solder points.

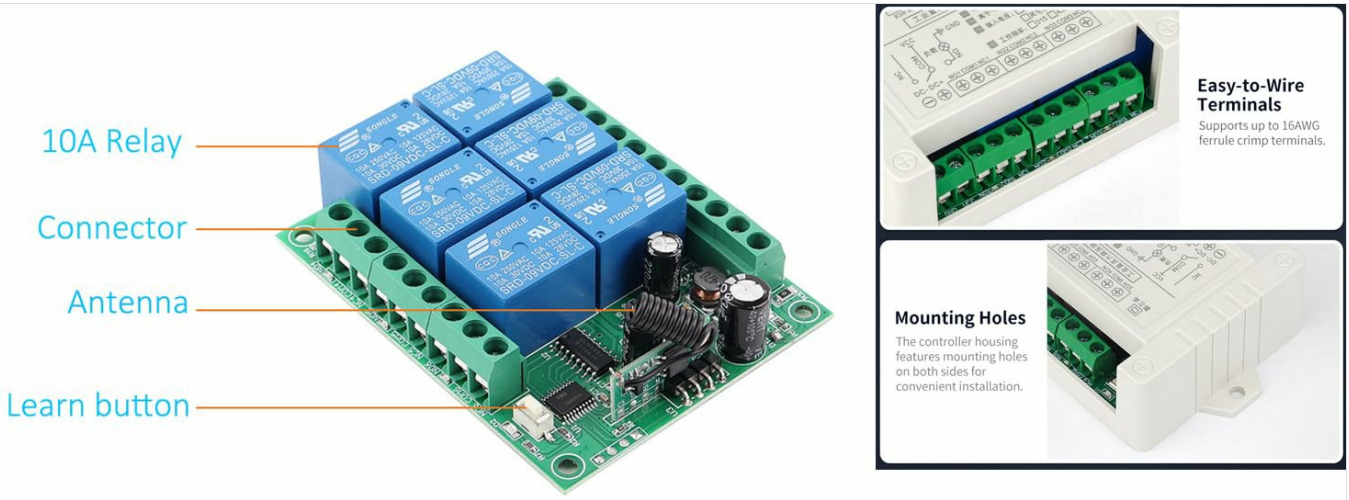
3. Specifications

Receiver Working Voltage	DC 12V-48V
Electric Current	10A
Maximum Load Current	10A
Relay Load Voltage	1V-250V (DC/AC)
Receiver Sensitivity	-105dBm
Working Temperature	-40°C to +70°C

Receiver Dimensions (L x W x H)	95mm x 62mm x 28.5mm (approx. 3.74 x 2.44 x 1.12 inches)
Remote Control Channel	6 CH
Remote Control Distance	Up to 100M (theoretical, actual range 50%-70%)
Remote Control Frequency	433 MHz
Remote Control Power Supply	1 x 23A Battery (included)
Remote Control Dimensions (L x W x H)	97mm x 38mm x 13mm (approx. 3.8 x 1.5 x 0.5 inches)
Model Number	MD-56841

4. Setup and Installation

The wireless remote control switch simplifies wiring. Connect the receiver between your power source (DC 12V-48V) and the electrical appliance you wish to control. The receiver features easy-to-wire terminals that support up to 16AWG wires and mounting holes for secure installation. Ensure all connections are secure and correctly polarized (+/-) for DC power.



Work Model:

1. Momentary: Pressing and holding the button, the relay is on, releasing button is off.
2. Toggle/Self-lock: Pressing the button, the relay is on, and pressing again is off.
3. Inter-lock/latched: Press button 1, relay 1 will be on; Press button 2, relay 2 will be on and relay 1 will be off ([1~6] only 1 relay is working).
4. Momentary + self-lock: Relay 1~3 are momentary, relay 4~6 are self-lock.
5. Momentary + inter-lock: Relay 1~3 are momentary, relay 4~6 are inter-lock.
6. Momentary + inter-lock: Relay 1~2 are momentary, relay 3~6 are inter-lock.

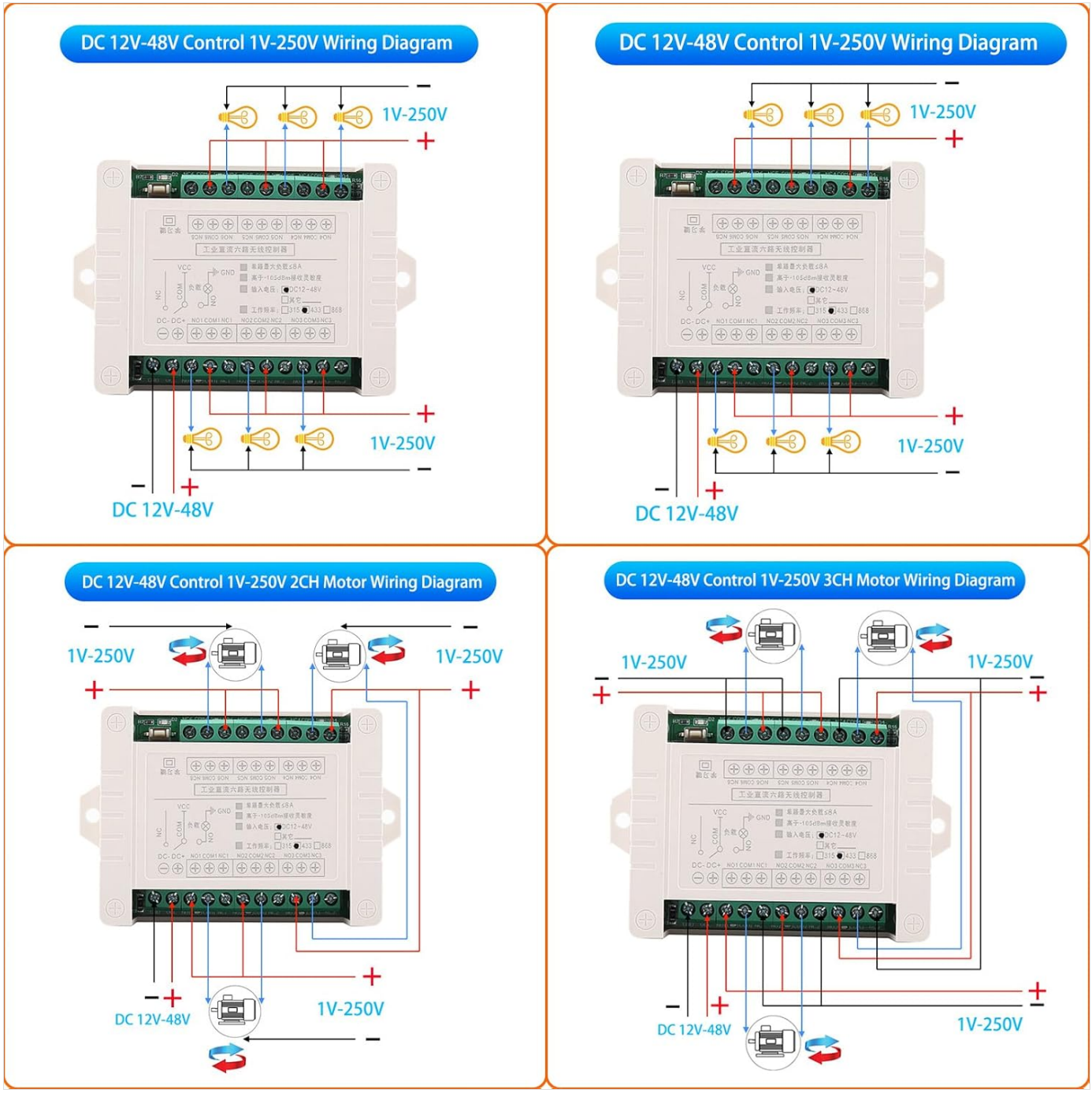
How to compatible/add remote control and different working models?

1. Momentary: Press learn button 1 time, then press control button NO.1.
2. Toggle/Self-lock: Press learn button 1 time, then press control button NO.2.
3. Inter-lock/latched: Press learn button 1 time, then press control button NO.3.
4. 3 Momentary + 3 self-lock: Press learn button 1 time, then press control button NO.4.
5. 3 Momentary + 3 inter-lock: Press learn button 1 time, then press control button NO.5.
6. 2 Momentary + 4 inter-lock: Press learn button 1 time, then press control button NO.6.

How to remove/delete the remote control?

Press the learn button 8s, and till the indicator light flashes to off.

A close-up of the receiver board highlights its 10A relays, connector terminals, antenna, and the 'Learn button'. The image also includes a diagram illustrating the easy-to-wire terminals and mounting holes.



This image presents four different wiring diagrams for the DC 12V-48V control system. It includes configurations for controlling 1V-250V loads (lights) and specific setups for 2-channel and 3-channel motor control, illustrating how to connect the receiver to power sources and various appliances.

5. Operating Modes

The receiver supports six distinct working modes, which can be configured using the learn button and specific control buttons on the remote.

1. **Momentary:** Press and hold the remote button to turn the relay ON. Release the button to turn the relay OFF.
2. **Toggle (Self-lock):** Press the remote button once to turn the relay ON. Press the same button again to turn the relay OFF.
3. **Latched (Inter-lock):** Press button 1 to turn relay 1 ON and all other relays OFF. Press button 2 to turn relay 2 ON and all other relays OFF. Only one relay can be ON at a time within the latched group.
4. **3 Momentary + 3 Self-lock:** Relays 1-3 operate in momentary mode. Relays 4-6 operate in toggle (self-lock) mode.
5. **3 Momentary + 3 Inter-lock:** Relays 1-3 operate in momentary mode. Relays 4-6 operate in latched (inter-lock)

mode.

6. **2 Momentary + 4 Inter-lock:** Relays 1-2 operate in momentary mode. Relays 3-6 operate in latched (inter-lock) mode.

6. Pairing Remote Control (Learning Mode)

To pair a remote control and set a specific working mode:

1. Press the "Learn button" on the receiver board once. The indicator light will illuminate.
2. Immediately press the corresponding control button on the remote control for the desired working mode:
    - For **Momentary** mode: Press remote button NO.1.
    - For **Toggle (Self-lock)** mode: Press remote button NO.2.
    - For **Latched (Inter-lock)** mode: Press remote button NO.3.
    - For **3 Momentary + 3 Self-lock** mode: Press remote button NO.4.
    - For **3 Momentary + 3 Inter-lock** mode: Press remote button NO.5.
    - For **2 Momentary + 4 Inter-lock** mode: Press remote button NO.6.

The indicator light on the receiver will flash, then turn off, indicating successful pairing.

7. Removing/Deleting Remote Control

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

1. Press and hold the "Learn button" on the receiver for approximately 8 seconds.
2. The indicator light will flash, then turn off, confirming that all stored remote control codes have been deleted.

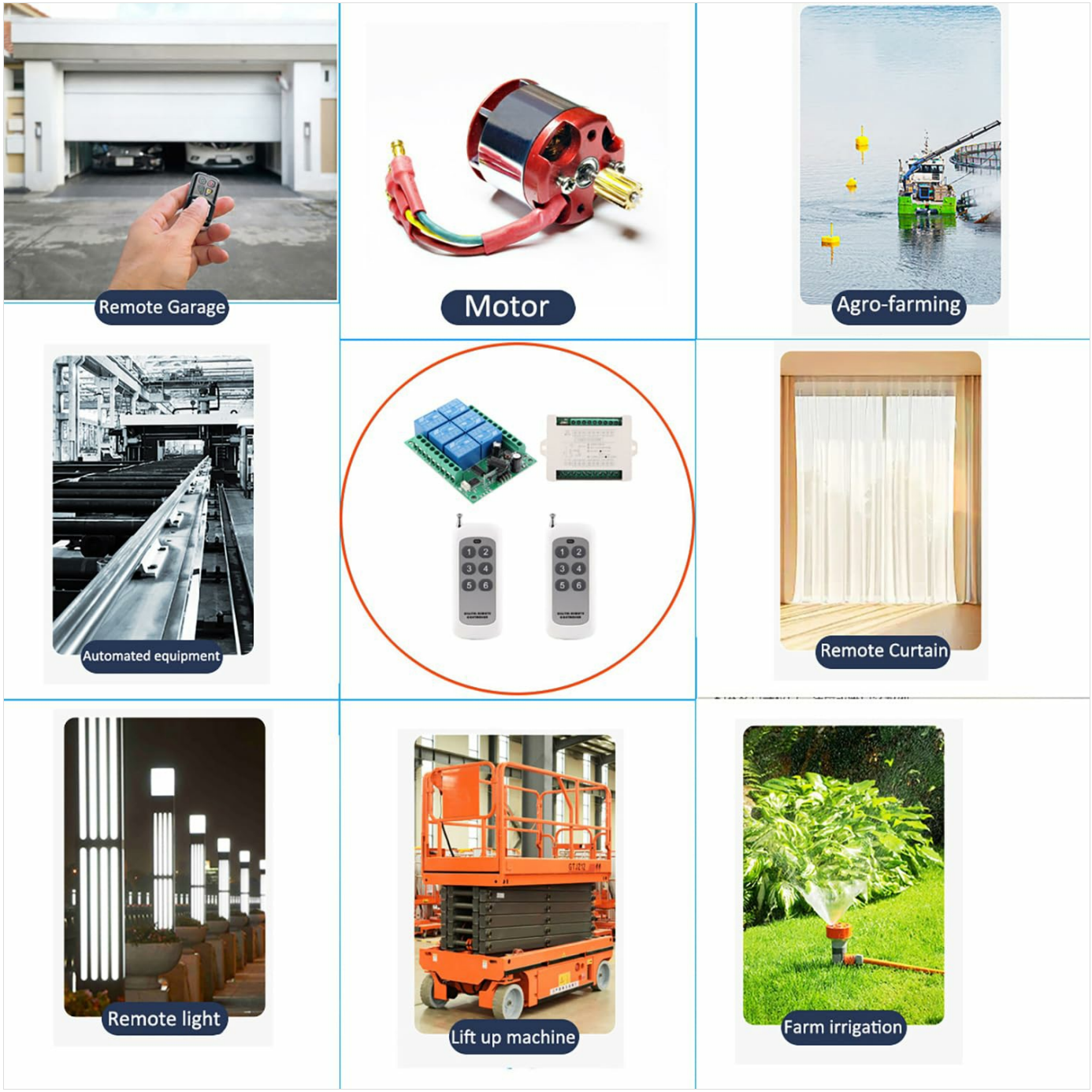
8. Applications

This wireless remote control switch is suitable for a wide range of applications, including:

- **Security & Access Control:** Anti-theft alarms, gate barriers, access control systems.
- **Home & Facility Automation:** Electric doors, curtains, roller shutters, garage doors, LED lights, study lamps, bathroom ventilation, bedroom night lights.
- **Industrial Operation:** Lifting equipment, elevator control, various motorized machinery, pumps, motors, agricultural irrigation systems.



This diagram demonstrates the ability of the 433MHz RF signal to pass through walls. It also shows a house layout with examples of the wireless switch controlling various devices such as study lamps, bathroom ventilation, bedroom night lights, and an electric garage door.



This image illustrates various application examples for the wireless switch, including remote control for garage doors, motors, agro-farming equipment, automated industrial equipment, curtains, lighting, lift machines, and farm irrigation systems.

9. Troubleshooting

- If the remote control does not respond, check the battery in the remote control.
- Ensure the receiver is correctly powered and wired to the appliance.
- Verify that the remote control is paired correctly to the receiver in the desired working mode. If unsure, try re-pairing the remote following the instructions in Section 6.
- Signal interference from other 433MHz devices or physical obstructions (thick walls, metal structures) can reduce the effective control distance. Try operating closer to the receiver.

10. Maintenance

- Keep the receiver and remote control clean and dry.

- Avoid exposing the devices to extreme temperatures or humidity.
- Replace the remote control battery (23A) when its range decreases or it stops responding.

11. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact the manufacturer directly through their official channels. Keep your purchase receipt for any warranty claims.

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