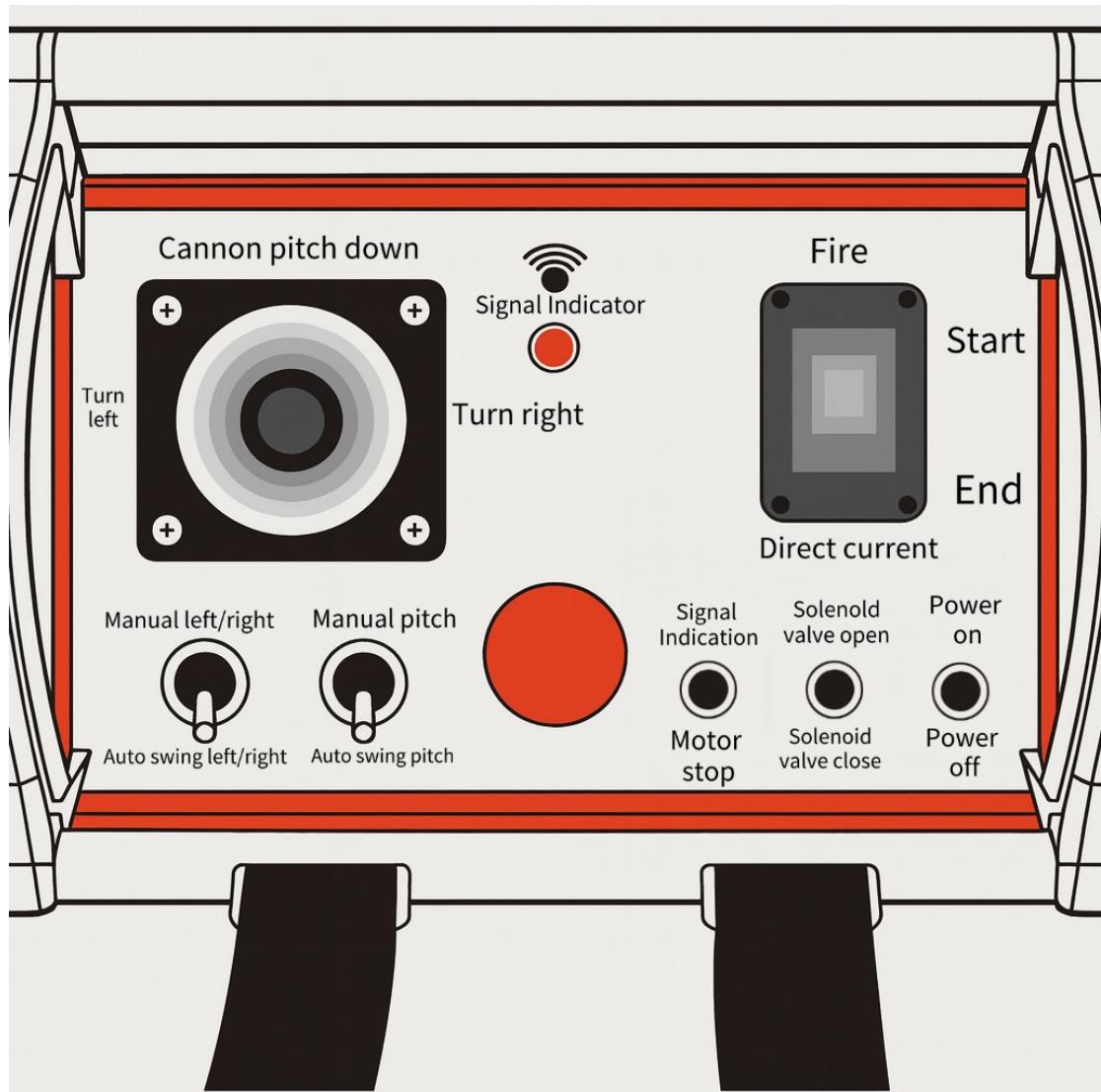

Remote Control User Manual



Introduction

Thank you for using the wireless remote control system.

This manual provides instructions on the installation, operation, maintenance, and care of the wireless remote control. Please read this manual carefully before use.

1. Safety Instructions

1.1 Graphic Indicators

You will encounter the following icons in the operating instructions.



Indicates a potential risk of electric shock



Indicates a potential safety hazard



Indicates key operating points

Operating Instructions

The transmitter shown below requires:

Insert a fully charged battery.

Release the emergency stop switch.

When the LED indicator flashes green, the transmitter has entered standby mode.

Shutting Down the Transmitting System

Press the emergency stop switch to power off the transmitting system.



Cautions:

- Before operating your equipment with the remote control, **release the emergency stop** and **warn all personnel** that the device is about to start running.
- If the transmitter's **LED indicator flashes red accompanied by an alarm sound**, it means the battery is low. Please replace the battery promptly.



Cautions

If the remote control system is not in use, the operator should **manually switch off the transmitter** instead of relying on the automatic shutdown function.

1.2 Safety Regulations

1 Turn off the system transmitter.

2 Place the transmitter in a secure location to prevent access or operation by unauthorized personnel.

3 Turn off the system receiver.

4 Disconnect the connection cables from the receiver.

▼Throughout the entire operation of the system, please follow the safety operating procedures strictly.

2.1 Battery and Charger

2.2.1 Lithium Battery YKQ-02



The battery capacity is influenced by the number of charging cycles and the ambient temperature. Older batteries will gradually lose capacity. Battery power is consumed more quickly in environments below 0 °C or above 40 °C.

The battery must be fully charged before its first use.

Maximum capacity is reached after the initial five charging cycles.

Charge the battery only in environments between 0 °C and 40 °C.

Store the battery at normal room temperature.

Handle and store the battery properly to prevent short circuits.

Disconnect the charger from the power supply once the battery is fully charged to prevent overcharging and potential discharge issues.

Charging

Connect the charger plug to the vehicle's cigarette lighter socket.

Connect the battery to the charger (Note: The side of the battery with printed text should face upward).

The four LED indicators display four different battery states (see below for details).

Red Light On - Battery is charging

Green Light On - Battery is fully charged

3. Troubleshooting



**Always ensure the remote control system
is in proper working condition before operation.**

Fault Condition	Cause Analysis	Solution
No response after starting the transmitter	No power	<i>Check whether the battery is damaged or if the contact points are dirty, causing poor contact. Insert a fully charged battery and restart the transmitter. Recharge the battery.</i>
Red light flashing shortly after use, indicating low battery	<i>Battery contacts are damaged or dirty. Battery not fully charged, insufficient power. Battery is defective.</i>	<i>Check if the battery is damaged or if the contact points are dirty. Fully charge the battery correctly. Ensure a fully charged battery is used during operation.</i>
Transmitter display is normal but operation is invalid	<i>Receiver is not powered on. No available wireless connection. Vehicle/system is not started.</i>	<i>Check if the receiver is properly connected. Check if the receiver is functioning properly.</i>
Some commands fail to operate properly	<i>Receiver is damaged. Receiver connection with the vehicle or machine is interrupted</i>	<i>Check if the receiver is properly connected. Contact our service department if necessary</i>

4. Maintenance and Care

The wireless remote control system refers to wireless operation. During actual use, please observe the following points:

Ensure that the **emergency stop switch** is always in proper working condition.

Periodically check the housing and rubber protective cover for integrity and sealing. Moisture and dust can cause serious damage to exposed operating components. If damaged, repair promptly.

Regularly perform charge and discharge cycles for the battery.

Do not use high-pressure air guns or similar cleaning tools to clean the transmitter. Use a soft brush or cloth instead.



Note

If you have any further questions, please contact our service department promptly.

4. 4. 1 Maintenance

Warning:



Warning:

Do not use the wireless remote control system if it is malfunctioning or damaged.

If a fault occurs during operation, do not attempt to open the housing or perform repairs yourself without prior authorization from our company.

Repair Instructions:

Please send the complete system (transmitter + receiver) to our company headquarters or local office by mail. Our professional technicians will provide service as quickly as possible.

When mailing the system, include both the transmitter and receiver along with a detailed description of the problem to assist our diagnostics and repair process.

Please provide your address and telephone number so that we can contact you promptly.

To avoid further damage during transportation, always use the original product packaging.

5. Technical Specifications

Transmitter	
Unique System Address Code	Over 1,000,000 combinations
Frequency Range	2.4GHz Not all frequencies are available for use
Transmitter Antenna	Built-in
Operating Temperature	-25° C...+70° C (-13° F...+158° F)
Housing Material	Reinforced fiberglass engineering plastic
Housing Color	Orange-yellow
Dimensions	285*171*171
Protection Rating	IP65 (Nema4)
Maximum Control Points	6 × digital inputs + emergency stop 24 × digital inputs + 8 proportional channels + emergency stop
NiMH Battery Model	YKQ-02
Power Supply	8.4V/3400mAh
Full-Load Operating Time	Approx. 10 hours
Weight	Approx. 2.0 kg (4.4 lb)

6. Installation and Application of the Receiver

Note:

The working voltage may vary depending on the location. Please pay attention to personal safety.

When installing, ensure that the antenna is securely fixed to the receiver via a screw-type connector.

The receiver is connected to the controlled equipment through a plug-in connector.

Before using the system, familiarize yourself with the functions of the receiver's indicator lights.

Receiver Installation

Ensure that no metallic objects are within a one-meter radius above the receiver.

If the receiver must be installed inside a control cabinet, a suction cup antenna or extension antenna must be mounted on top of the cabinet.

7. Common System Faults and Troubleshooting Methods

7.1 Common Receiver Faults and Troubleshooting Methods

failure description	reason analysis	handling method
No response after the transmitter is started	No power supply	<p>☆ Check whether the battery contacts are damaged or corroded</p> <p>☆ Replace with a fully charged battery</p> <p>☆ Recharge the battery</p>
Transmitter display is normal, but the receiver has no output signal	<i>Receiver supply voltage mismatch . No radio frequency signal transmission. Start button not pressed.</i>	<p>☆ Check the receiver power supply</p> <p>☆ Check the fuse on the receiver</p> <p>☆ Check whether the receiver's indicator lights are functioning properly</p>
Receiver fails to output part of the signals	<i>Cable connected to the controlled equipment is faulty. Receiver malfunction</i>	<p>☆ Check the cables and cable connector</p> <p>☆ Contact our service department if necessary</p>

8. Routine Maintenance of the System

8.1 Routine Maintenance of the Receiver

Clean the receiver with a cleaning brush and a soft, dry cotton cloth.

Note: Never wash the receiver with water.

If welding work on the controlled equipment is required, please follow these steps:

Turn off the remote control system.

Turn off the controlled system.

Disconnect the receiver's connection interface or cables.

Please strictly follow the above steps to avoid damage to the receiver's electronic components.

8.2 Fault Repair

Note: During the warranty period, do not attempt to open or repair the system yourself. Unauthorized repairs will void the warranty.

Please send the faulty system to one of our authorized service centers for repair.

Always include both the transmitter and receiver, along with a detailed description of the fault.

Provide your mailing address and contact information.

Pack the system properly to avoid damage during shipping.

Alternatively, you may deliver the faulty system (transmitter and receiver) directly to our company headquarters for repair.

Company Statement

Our company reserves the right of final interpretation of all technical specifications. Parameters are subject to change without prior notice.

FCC Statement

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.

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 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.

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

Radiation Exposure Statement

This device complies with RF radiation exposure limits set forth for an uncontrolled environment. The device can be used in portable exposure condition without restriction.