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NEWTRY F24-60

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Model: F24-60

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of the NEWTRY F24-60 Wireless Crane Remote. This industrial remote control hoist crane controller features dual joysticks and is designed for various lifting applications. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. PRODUCT FEATURES

- **Efficient Control:** Offers a 100-meter control distance, providing ample range for crane operation. With 40 control points, precise maneuvering is achievable. Connectivity with a computer interface allows for customization of internal functions.
- **Dual Joysticks:** Equipped with two joysticks for accurate control over machine direction and speed, enhancing operational flexibility and precision. The ergonomic design ensures a comfortable grip and user experience.
- **IP65 Protection:** Features IP65 protection, enabling the crane controller to function reliably in harsh conditions, including high temperatures and humidity. The integrated design boasts a pure surface sandblasting injection molding process.
- **Convenient to Use:** Includes an adjustable waist belt and shoulder strap for customizable comfort during extended use.

3. PRODUCT COMPONENTS AND STRUCTURE

The NEWTRY F24-60 Wireless Crane Remote consists of a transmitter (remote control) and a receiver unit. Below is an overview of the transmitter's key components:

WIDE APPLICATION



Figure 1: Transmitter Component Diagram

- **Multi-function Indicator:** Provides operational status feedback.
- **Removable Rotary Key Switch:** Controls access to the remote, ensuring only authorized personnel can operate.
- **Built-in Antenna:** For wireless communication.
- **Independent Switch Key:** Dedicated control switches.
- **Programmable Function Buttons (F1, 1, 2, 3, 4):** Customizable buttons for specific functions.
- **Three-stage Waterproof Toggle Switch:** Provides robust control in various conditions.
- **Two-stage Waterproof Toggle Switch:** Additional robust control.
- **Emergency Stop Button:** Immediately halts all operations in an emergency.
- **Five-speed Variable Axial Rocker (Joysticks):** Allows for precise, multi-directional control with variable speed.
- **Stainless Steel Guardrail:** Protects the controls and provides a sturdy grip.



Figure 2: Transmitter and Receiver Units



Figure 3: Receiver Unit Rear View

4. SETUP INSTRUCTIONS

Before operating the crane remote, ensure proper installation and pairing of the receiver unit with the crane's electrical system. Consult a qualified electrician for installation if you are unfamiliar with industrial electrical wiring.

1. **Receiver Installation:** Mount the receiver unit securely in a location protected from excessive vibration and direct impact, yet accessible for wiring. Ensure the receiver's antenna has a clear line of sight to the operating area.
2. **Wiring:** Connect the receiver to the crane's control circuit according to the wiring diagram provided on the receiver unit (refer to Figure 3) and the crane's electrical schematics. Ensure all connections are secure and insulated.
3. **Power Connection:** Connect the receiver to the appropriate 12V power supply. Verify correct voltage and polarity.
4. **Transmitter Battery Installation:** Install the Lithium-Ion battery into the transmitter unit.
5. **Pairing (if required):** Most units are pre-paired. If pairing is necessary, refer to the detailed pairing procedure in the separate technical manual or contact NEWTRY support.
6. **Initial Test:** After installation, perform a low-load test in a safe environment to confirm all functions operate as expected before full operation.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls before operating the crane. Always maintain a safe distance from the load and moving parts.

Your browser does not support the video tag.

Video 1: Demonstration of NEWTRY F24-60 Wireless Crane Remote controls, showing joystick and button functionality.

1. **Power On:** Insert the removable rotary key switch and turn it to the 'ON' position. The multi-function indicator light will illuminate.
2. **Emergency Stop:** The large red button is the Emergency Stop. Press it firmly to immediately halt all crane operations. To reset, twist the button clockwise until it pops out.
3. **Joystick Operation:** The dual joysticks provide proportional control for crane movements. Moving a joystick in a direction will initiate movement in that direction. The five-speed variable axial rocker allows for precise speed control.
4. **Function Buttons:** Use the programmable function buttons (F1, 1, 2, 3, 4) for specific crane functions as configured.
5. **Toggle Switches:** Utilize the two-stage and three-stage waterproof toggle switches for auxiliary functions or mode selections as defined by your crane system.
6. **Power Off:** After use, turn the rotary key switch to the 'OFF' position and remove the key for security.



Figure 4: Key Safety Features

6. SAFETY INFORMATION

Operating industrial equipment requires strict adherence to safety protocols. Failure to follow these guidelines can result in serious injury or equipment damage.

- Always ensure the Emergency Stop button is functional before starting operations.
- Only authorized and trained personnel should operate the crane remote.

- Never operate the remote if you are fatigued or under the influence of substances.
- Maintain a clear line of sight to the crane and load at all times.
- Keep the remote control dry and clean. The IP65 rating provides protection but does not guarantee immunity from all environmental hazards.
- Regularly inspect the remote and receiver for any signs of damage or wear.
- In case of malfunction, immediately press the Emergency Stop and cease operations.

7. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your NEWTRY F24-60 Wireless Crane Remote.

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the transmitter and receiver. Avoid abrasive cleaners or solvents.
- **Battery Care:** Recharge the Lithium-Ion battery regularly. Do not expose batteries to extreme temperatures. Replace batteries when they no longer hold a charge effectively.
- **Inspection:** Periodically check all buttons, joysticks, and switches for proper function and responsiveness. Inspect cables and connections on the receiver for wear or damage.
- **Storage:** Store the remote in a dry, cool place when not in use, away from direct sunlight and corrosive materials.

8. TROUBLESHOOTING

If you encounter issues with your NEWTRY F24-60, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Remote not responding	Low battery; Emergency Stop engaged; Out of range; Receiver not powered; Interference.	Charge/replace battery; Reset Emergency Stop; Move closer to receiver; Check receiver power; Reduce interference sources.
Intermittent control	Weak signal; Obstructions; Battery low.	Ensure clear line of sight; Move closer; Charge/replace battery.
Specific function not working	Button/switch malfunction; Incorrect programming.	Check button/switch for physical damage; Verify programming via computer interface (if applicable).
Indicator light not on	No power to transmitter/receiver; Faulty indicator.	Check battery/power supply; Contact support if indicator is faulty.

If the problem persists after attempting these solutions, contact NEWTRY customer support for further assistance.

9. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	NEWTRY
Model Number	F24-60
Control Type	Wireless Remote Control (Radio Frequency)
Joysticks	Dual Joysticks, Five-speed Variable Axial Rocker
Control Distance	Up to 100 Meters
Control Points	40
Protection Rating	IP65 (Waterproof and Dustproof)
Battery Type	Lithium-Ion
Item Weight	5.76 Kilograms
Color	Yellow
Compatible Devices	Truck crane, Travelling crane, Lifting crane, Boat elevator, Hydraulic tilt trailer, Electric hoist

10. APPLICATIONS

The NEWTRY F24-60 industrial crane remote control is suitable for a wide range of heavy-duty lifting and crane applications, including but not limited to:

- Truck cranes
- Travelling cranes
- Lifting cranes
- Boat elevators
- Hydraulic tilt trailers
- Electric hoists

WIDE APPLICATION



Figure 5: Wide Range of Applications

11. WARRANTY AND SUPPORT

NEWTRY products are designed for durability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official NEWTRY website. Keep your purchase receipt as proof of purchase.

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