WIRELESS REMOTE USER MANUAL

Warranty

Quality Assurance

Company ensures that the product manufactured is in full compliance with the specifications of its publication. With the proper installation, it can be used normally. But Company does not guarantee the product is operating without interruption or error-free.

Warranty Period

The product enjoys one-year warranty from exit factory date. We ensure that customers will not have any problem on the product in one year. During the warranty period, if products are proved with the quality defect, Company is willing to maintain. Any product in need of repair is required to send to the Company specified service place. The customer has to pay one-way shipping cost to service place and Company will pay the return shipping cost within warranty period and send back the product.

No warranty committed in the following sequence

The foregoing warranty does not include buttons, relays, fuses, batteries and other wear and tear of parts or board damaged by wrong installation etc. and does not include the faults caused by customer improper use, force majeure, natural factors, lack of maintenance, neglect of operating environment specifications, unauthorized alteration, incorrect use or customers setting up their own interface. Company does not assume any responsibility for any loss due to non-compliance with this user manual. Company does not assume responsibility for any failure due to in conjunction with any device unrelated with Company.

- Foregoing warranties do not include other expressed or implied warranties.
- Repairing is the only compensation for customers. Company does not assume any direct, indirect, special, incidental or causal damages.

Attentions

Before operation please Unplug the user manual.for service or

unit before opening read electrical welding.

Installation notice

1，The receiver's installation site should be away from inverter, motor and their cables to keep from disturbing. The farther, the better.

2，The remote controllers of the series are with 4 billion groups' safety code and the end products are with different safety code. Please be sure that there is no products with the same code in the same working zone to avoid malfunction of disturbing.

3，In 20 meters' zone, there should not be equipment with same frequency channel to avoid mutual disturbing.

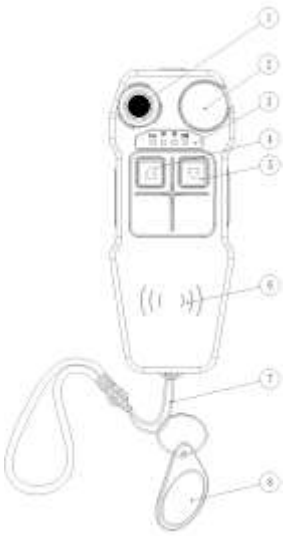
Emergency situation handling

Please handle as following steps and inform the dealer.

1. Press emergency button(STOP).
2. Turn off the equipment power.
3. Inform the dealer to find the reasons.

Technical Parameter

- Work frequency: 433HZ
- Emission distance:<=50m
- Receiving direction: 360° unidirectional
- Remote control emitter power: <=20dBm
- Working temperature: -20□~+75□
- Relative humidity: <=85%



1, Start button	2, Emergency stop switch	3, Indicator light
4, Upper button	5, Down button	6, NFC cog region
7, Sling	8, NFC key	

Indicator light description

No.	Light color	Action
POW	green	Power indicator light: turn on Emergency stop switch on the handle; turn off during power off or hibernation.
RF	white	Wireless link indicator light: power on after the transmission handle is linked with the remote control device.
OP	yellow	Action indicator light: power on when pressing UP / DOWN on the transmission handle.
ERR	red	Fault indicator light: power on when the fault information of the machine received, or when the link to the machine is broken. The lighting mode is several consecutive flashes, and the number of times is determined by the type of fault.

Normal operation

By default, the transmitter handle, NFC key, wireless receiver have been pre-paired when assembly. The pairing SN numbers are affixed to the back of the transmitter handle, NFC key and the wireless receiver respectively.

1, Plug in the power supply or power on the battery pack, and if there is a wired handle, turn on the emergency stop switch on the wired handle to power up the wireless receiver inside the hoist.

2, Turn on the emergency stop switch on the wireless transmitter handle. After powering on, the POW indicator light will illuminate. The NFC key must be placed in the designated position within 10 seconds to unlock the handle. A successful unlock will trigger three short beeps ("beep beep beep"). Timeout or incorrect NFC key will result in two short beeps followed by one long beep ("beep beep--").

3, After successful NFC key pairing, pressing the 1#"Start" button in the upper left corner of the handle will send a wireless connection request signal. If the handle receives feedback from the hoist,

the RF indicator will light up. At this point, the "UP", "Down", "Left", and "Right" functions can be operated.

4, When the "UP", "Down", "Left", or "Right" buttons are pressed, the handle will send operation commands. If the hoist receives the command and returns feedback, the handle's action indicator light will illuminate for 0.5 seconds. When "UP", "Down", "Left", or "Right" buttons are held down, the OP indicator light will remain steadily lit.

5, Fault Indication: If there is a communication abnormality between the wireless transmitter handle and the hoist (e.g., the wireless receiver loses power or is damaged, and the handle fails to receive feedback signals from the hoist), the fault indicator light will flash once every 4 seconds. If the hoist itself malfunctions—such as motor damage, over-current, over-voltage, or over-temperature faults—the wireless handle will also flash upon receiving the fault information (with a flashing interval of 4–5 seconds, and the number of flashes per cycle determined by the fault information. This function is exclusive to brushless DC products developed by Yongtian).

6, If the controller remains inactive for 15 consecutive minutes, it will enter sleep mode, at which point the operation indicator light will also turn off.

Batteries

- **Insert the batteries of AA type with full power in the transmitter.**

The LED indicator flash green after pressing the button if the batteries are full electric. Otherwise the LED Indicator flash red or does not flash if the electric is not enough.
Then the batteries should be changed soon.

Malfunction Alert

The fault light blinks at intervals of 4 seconds	Fault phenomenon (failure on the hoist)
1	The wireless receiver and wireless controller lost connection
4	Short-circuit protection
5	Under-voltage protection
6	Over-voltage protection
7	Motor over-temperature protection
8	Brushless drive board for over-temperature protection
9	Motor phase failure protection
10	Motor stall protection

Troubleshooting

TX LED remains ON with red light. Solution: Please remove the batteries and insert again.

The RX does not respond at all. Solution: Turn the main power off for 20 seconds and turn it on again.

Additional functions

Blank controller paired with hoist

This function is applicable for multiple handles controlling one hoist (multiple controls for one) or when the original handle is damaged or lost, allowing a new blank handle to be re-paired with the hoist receiver.

Step 1. Pairing preparation phase: Power off the hoist (unplug the AC power supply/remove the battery pack) and let it stand for 1 minute (ensuring the receiving module is completely powered down). Press the emergency stop button on the remote control handle (to cut power to the handle).

Step 2. Start pairing: Power on the hoist and release the emergency stop button on the remote control handle (the handle will power on, and you will hear the startup tone).
Note: Subsequent operations must begin within 10 seconds (the handle will automatically shut down after 10 seconds) and be completed within 1 minute (the hoist only allows pairing within the first minute of power-on). If the time limit is exceeded, repeat Step 1.

Step 3. Simultaneously press the "Start" and "UP" buttons and hold for 10 seconds. The remote will emit a pairing request signal, and the hoist will respond upon receiving the request. If the remote emits two short beeps ("beep beep"), it indicates successful pairing; if the remote emits one long and one short beep ("beep--"), it indicates pairing failure.

Step 4. After successful pairing, the controller can initiate a connection request, and this connection does not require NFC key unlocking.

Blank handle paired with original NFC

This function is applicable for multiple handles controlling one hoist (multiple controls for one) or when the original handle is damaged or lost, allowing a new blank handle to be re-paired with the original NFC key.

Step 1. Pairing preparation phase: Press the emergency stop button on the remote control handle (handle power-off).

Step 2. Start pairing: Release the emergency stop button on the remote controller (the controller will power on and you will hear the startup music).
Note: Subsequent operations must begin within 10 seconds.

Step 3. Simultaneously press and hold the "Start" and "DOWN" buttons for 10 seconds. The controller will emit a short "beep" sound, indicating the start of pairing.
Step 4. After initiating pairing, the original NFC key must be placed in the designated position within 10 seconds. If the controller emits two short "beep" sounds, it indicates successful pairing; if the controller emits two short and one long "beep-beep--" sound, it indicates pairing failure.

Step 5. After successful pairing, the controller can initiate a connection request, and this connection does not require NFC key unlocking.

Blank NFC key paired with original controller

This feature is applicable when the original NFC key is damaged or lost, allowing the pairing of a new blank NFC key with the original controller.

Step 1. Pairing preparation phase: Press the emergency stop button on the remote control handle (handle power off).

Step 2. Start pairing: Release the emergency stop button on the remote control handle (the handle will power on and you will hear the startup music).
Note: Subsequent operations must begin within 10 seconds.

Step 3. Simultaneously press the "UP" and "DOWN" buttons and hold for 10 seconds. The controller will emit a short "beep" sound, indicating the start of pairing.

Step 4. After initiating pairing, the NFC key must be placed in the designated position within 10 seconds. The handle emits three short beeps "beep beep beep" to indicate successful pairing; if the handle emits two short and one long beep "beep beep--", it indicates pairing failure.

Step 5. After successful pairing, the controller can initiate a connection request, and this connection does not require NFC key unlocking.