

I. Precautions

1. The machine shall not be disassembled by untrained personnel, otherwise, it would be damaged.
2. The transmitter and receiver can be used together only when the address code and wireless channel are consistent;
3. To avoid interference from irrelevant signals, the receiver shall be installed far away (at least 3m) from frequency converter, motor and connecting cables;
4. The receiver shall not be installed in electric control cabinet, but fixed on the top of (or outside) cabinet in a suitable way. The output cable shall be penetrated into cabinet as a flexible wire;
5. To avoid radio interference, equipment in same wireless channel shall not be used within 200m;
6. The crane shall have safety facilities such as master stop contactor and limit switch. 7. After using, press Stop on the remote transmitter, then press the Emergency Stop Button. Finally, turn off the main power of crane and power off the receiver.

II. Transmitter components and description



III. Safety case

1. When turning safety switch from ON to OFF, the remote control stops actions, shuts off the OFF signal and has no response to the keys.
2. The mushroom emergency stop switch is OFF when being pressed and ON when being rotated clockwise and released.
3. In emergency case or when finishing operation, the operator shall turn off the safety switch.

IV. Address code and wireless channel

1. Transmitter and receiver with same address code and wireless channel constitute a remote control system WCT-K4 (32-bit address code). Machines shall be used together because the address codes are different when leaving factory.
2. Before installation and use, confirm the address code and wireless channel of transmitter and receiver are consistent and ensure there is no equipment with same address code and wireless channel in workplace.
3. A control system for one-transmitter and multiple-receiver/multiple-transmitter and one-receiver/multiple-transmitter and receiver can be constituted by setting the address code and wireless channel of transmitter and receiver.

Note: The address code and wireless channel are marked on the nameplate of transmitter and receiver.

V. Transmitter battery

1. Transmitter is powered by 2 AA (5#) alkaline batteries, but rechargeable battery is not recommended. Battery box cover is arranged at the bottom of transmitter and fixed with 1 screw.
2. After pressing keys, if the signal indicator is normally-on in red, the battery would be undervoltage and should be changed. 3. After installing a new battery, the continuous working time of equipment depends on the battery type and operation frequency. Generally, a high-performance battery can be used for 3-6 months, while the low-performance battery could only be used for 1 month or shorter.
4. To ensure long and continuous operation, high-performance alkaline battery is recommended.

VI. Receiver connection

Generally, the power supply of receiver is AC36V or AC380V (or other types specified by users). During connection, please refer to the power specification marked on receiver. Connection of receiver is shown as the table below:

WIRING	No.	DESCRIPTION	
	1	Power supply	
	2	Power supply	
	3	Common terminal of control power	
	4	OFF	
	5	Up	
	6	Down	
	7	Front	Two positions; Line 7 and 8 are invalid
	8	Back	

VII. Operation steps

Please refer to the following operation steps:

- Step 1: Confirm the transmitter battery is full in power and the receiver is powered on;
- Step 2: Turn the Emergency Stop Button clockwise and it pops up;
- Step 3: Press "START" to start the remote control;
- Step 4: Control the remote control by pressing direction keys;
- Step 5: Stop operation and press "STOP" to power off the remote control;
- Step 6: Press the Emergency Stop Button on transmitter and turn off the main power of receiver.

[ ] In emergency case, please operate according to Step 5 and 6; if necessary, inform the dealer for solution.

VIII. LED signal indicator

Normal state		
1	Green light flashes	Remote control is powered on and transmitter is sending signals
Abnormal state and handling		
1	Red light is normally-on if battery is low	Battery is low, please change.
2	Red light flashes	Check the safety switch and press "START" to power it on
3	Yellow light flashes	Transmitter is failed
4	Indicator has no response	Battery/transmitter is failed

IX. Simple fault removal

When remote control fails to act, please check the fault in following steps:

1. Confirm whether the address code and wireless channel of transmitter and receiver are consistent;
2. Confirm whether the receiver is installed outside electric cabinet and whether the antenna is normal;
3. Confirm whether the safety switch is ON
4. Press "Start" to power on
5. Hold down "Start" and observe whether the green indicator of transmitter flashes; if under-voltage, the red light is normally-on to indicate the battery power is low, please change;
6. Open the battery box cover of transmitter, take out the battery, reinstall it 10s later and operate in above steps;
7. Turn off the receiver, power on again 30s later and operate in above steps
8. If fault cannot be removed with above methods, please contact with the dealer.

FCC Warning:

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 a 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.