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Instruction Manual 

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Microzone C7-MINI PLUS C7 Mini 2.4GHz Wireless Control System



Product Specifications:

- Model: C7-MINI PLUS
- Color: Orange-black/Blue-black/Red-black/Black
- Display color: Colored
- Language: Chinese/English
- Applications: Remote control lawn mowers / Remote control agricultural machinery / Transport tank vehicles / Photovoltaic cleaning robots
- Number of channels: 10
- Channel resolution: PCM1024
- Radio band: 2401MHz – 2478MHz
- Transmitting power: 100mw
- Control distance: >800m
- Low battery alarm: Yes
- Charging port: Type-C
- Size (length, width, height): 246*125*125mm
- Weight: 705g

Charging:

Use the Type-C cable + charger to connect the remote control for charging. Plug the cable into the Type-C charging port.

First Time Use:

Unpack the remote control and receiver for frequency pairing. Perform a short-distance test after successful pairing by holding the remote control 10 to 15 meters away from the receiver and toggling the rocker to ensure proper functionality.

Safe Shutdown Recommendation:

To ensure safety, turn off the equipment first and then the remote control after the motor has stopped running.

Low Battery Alarm:

When the remote control's power level is low, an alarm will sound, indicating the need for immediate charging.

Fixed Speed Switch:

Enable this switch for fixed speed m, mode where joystick movements control speed increments or decrements.

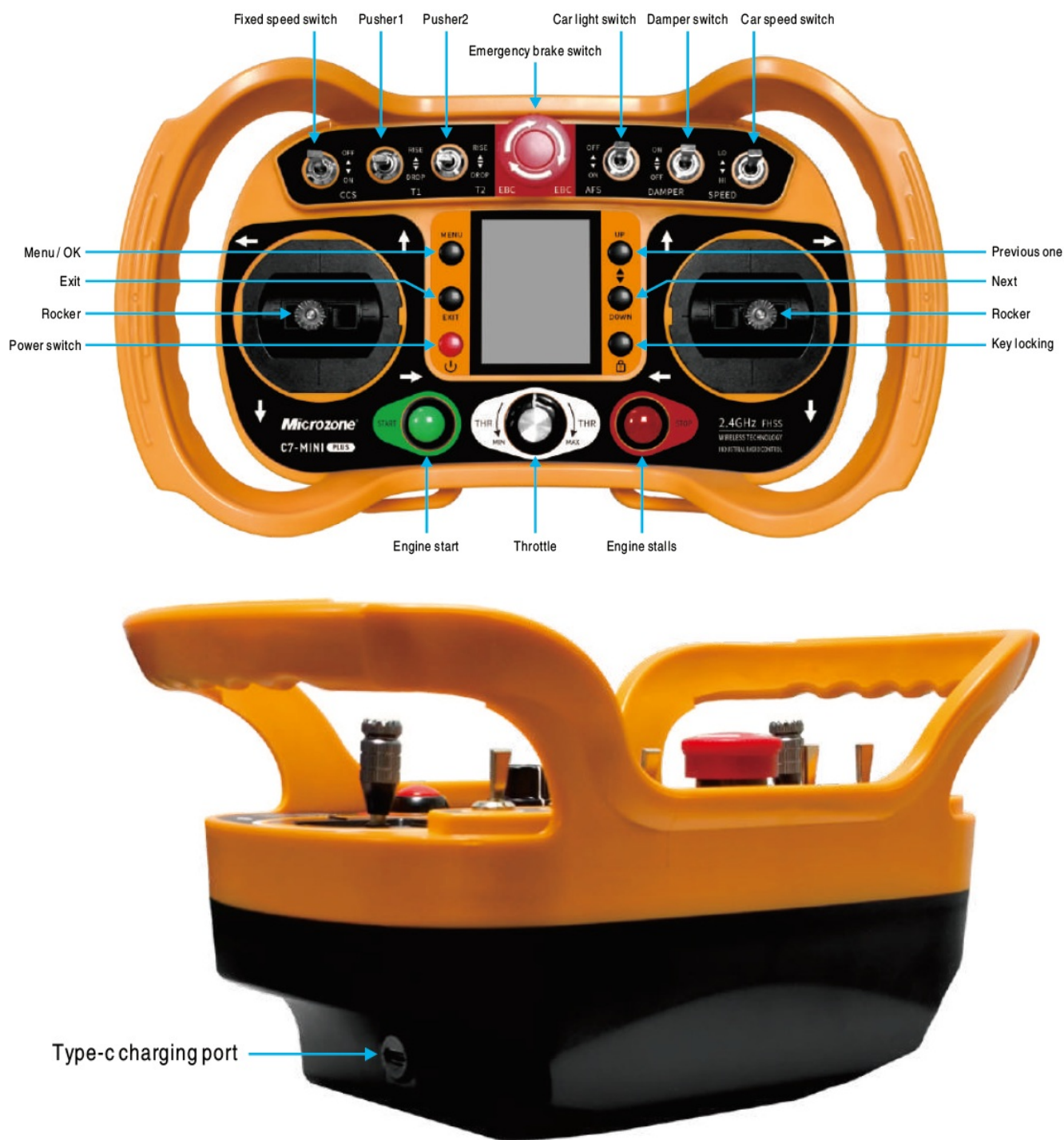
Damper Switch and Car Speed Switch:

The damper switch toggles between high, medium, and low positions, while the car speed switch shifts between high and low speed gears.

Key Locking:

To lock/unlock keys, long-press the specified key for 2 seconds on the main page. When locked, certain keys become ineffective with a lock symbol displayed.

REMOTE CONTROL FUNCTION ANALYSIS



REMOTE CONTROL SPECIFICATIONS AND PARAMETERS

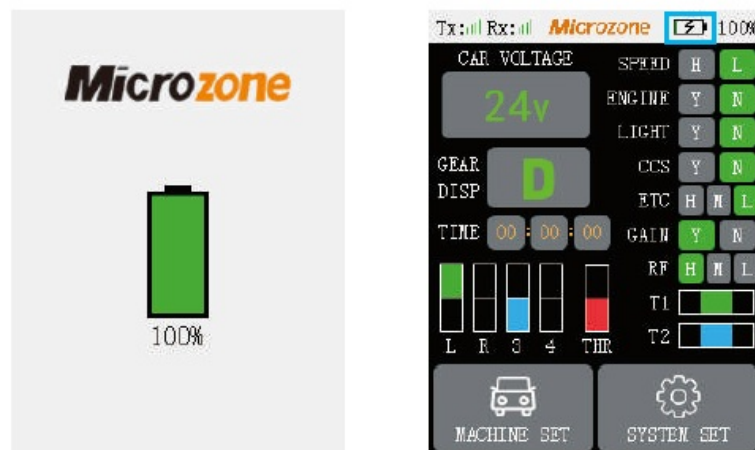
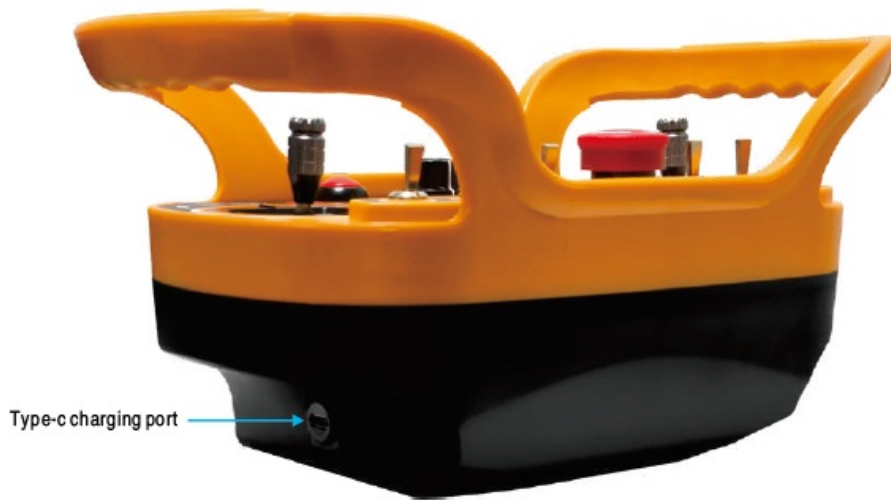
Model	C7-MINI PLUS
Color	Orange-black/Blue-black/Red-black/Black
Display color	Colored 320*240 px
Language	Chinese/English

Applications	Remote control lawn mowers / Remote control agricultural machinery / Transport tank vehicles / Photovoltaic cleaning robots
Number of channels	10
Channel resolution	PCM1024
Radio band	2401MHz – 2478MHz
Transmitting power	≤100mw
Control distance	>800m
Low battery alarm	Yes
Charging port	Type-c
Size(length, width, height)	246*125*125mm
Weight	705g

DETAILED DESCRIPTION

CHARGING:

Use the Type-C cable + charger to connect the remote control for charging, as shown below.

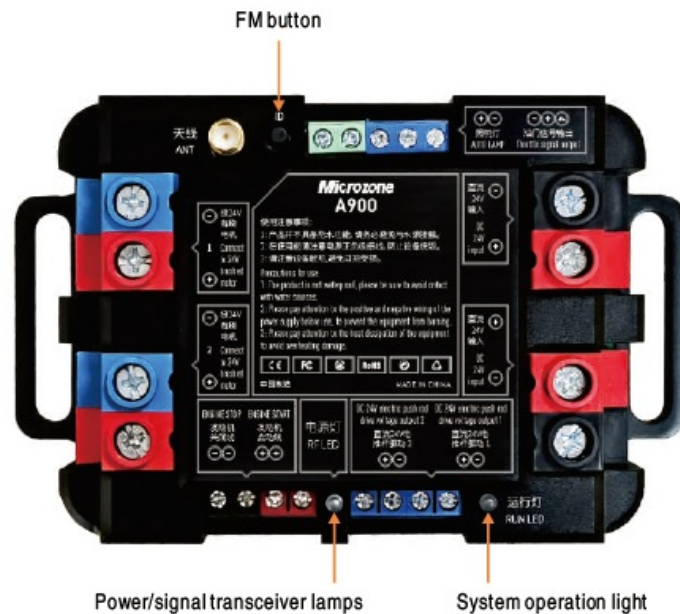


FIRST TIME USE:

The first time you unpack the use of the remote control and receiver for frequency pairing, frequency pairing after the success of the remote control and receiver for a short distance distance test, hand holding the remote control from the receiver 10 to 15 metres away, and then toggle the remote control rocker, to observe whether the device is controlled by the remote control, if controlled that the remote control and the receiver is working properly.

FREQUENCY PAIRING:

After the remote control is turned off and the receiver is powered on, the power/signal transceiver lamp is on, press the frequency pairing button on the receiver, the power/signal transceiver lamp and the system operation lamp flash alternately to indicate that the receiver is in the frequency pairing mode, then turn on the remote control, the power/signal transceiver lamp on the receiver blinks slowly and the system operation lamp blinks fast to indicate that the frequency pairing has been successful.



SAFE SHUTDOWN RECOMMENDATION:

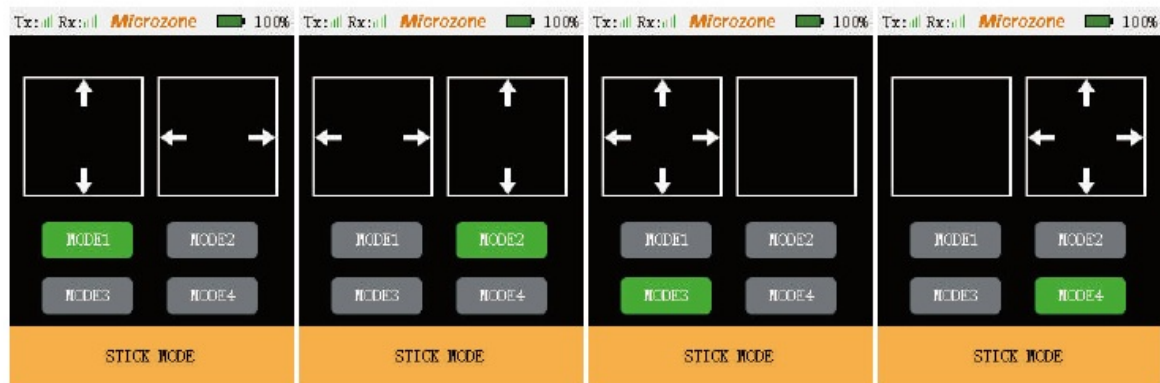
To ensure the safety of your equipment and yourself, turn off the power to the equipment first and then to the remote control after the equipment motor has stopped running.

LOW BATTERY ALARM:

When the power level of the remote control is lower than 0%, it will tick to indicate that you are low on power. Please charge it as soon as possible.

FIXED SPEED SWITCH:

When it is on, the main page gear position Information display “MD”, each time you poke the front and back direction joysticks (depending on the joystick setting to determine which joystick controls forward and backward, as shown below), both can increase or decrease speed, and it rattles.



DAMPER SWITCH:

Toggles high, medium, and low positions.

CAR SPEED SWITCH:

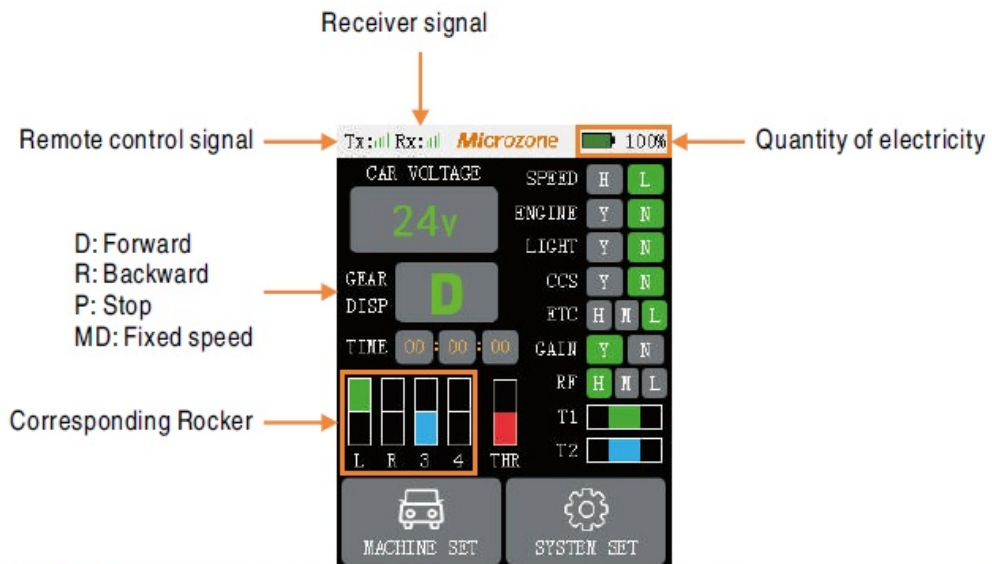
Switch between high and low speed gears.

OPERATION PAGE DESCRIPTION

BOOT PAGE:

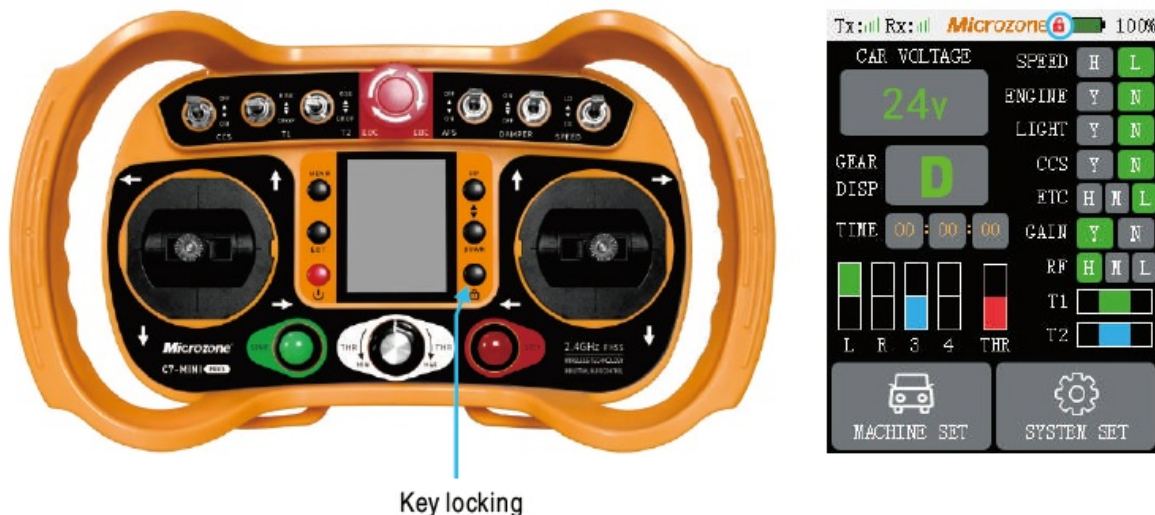


MAIN PAGE:



KEY LOCKING:

When on the main page, long press <Key locking> key for 2 seconds to lock the key, when the key is locked, press <MENU> key, <EXIT> key, <UP> key, <DOWN> key are ineffective, and t the page, then long press <Key locking> key for 2 seconds to unlock the key.



MACHINE SET:

When there is no menu selection in the main page, press the <MENU> key to select "MACHINE SET", then press the <MENU> key to enter the machine set, press the <UP> key or <DOWN> key to select the corresponding option, then press the <MENU> key to enter.



TIMER:

Record the operating hours of the remote control.

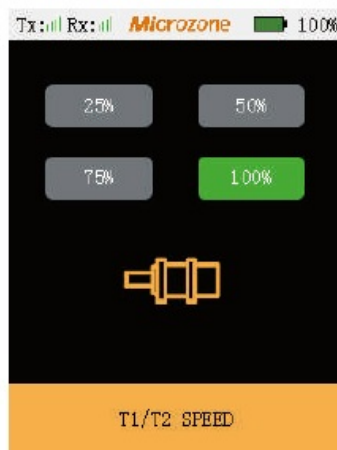
Press <UP> key or <DOWN> key to select one of the the top three options, then press <MENU> key, then press <UP> key or <DOWN> key to can modify the time, then press <MENU> key to confirm; Other options press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



T1/T2 SPEED:

Controls the extension and retraction speed of the actuator.

Press the <UP> key or the <DOWN> key to select the corresponding option, then press the <MENU> key to confirm.



SENSITIVITY:

Adjust the reaction speed of the joystick; the larger the value, the faster the reaction speed; the smaller the value, the slower the reaction speed.

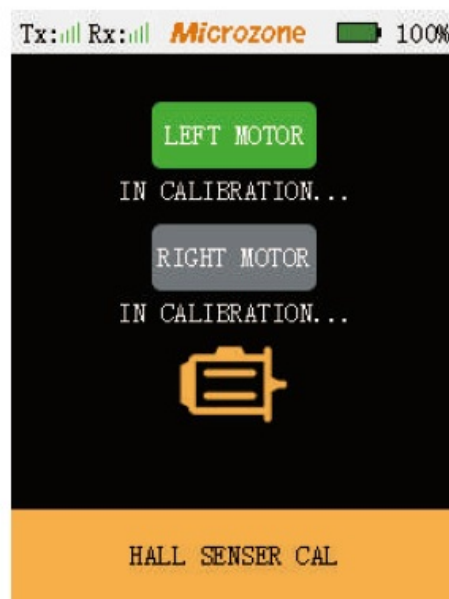
Press the <UP> key or the <DOWN> key to select the corresponding option, then press the <MENU> key to confirm.



HALL SENSER CAL:

Optimize control parameters, improve system efficiency and stability, adapt to different motors, simplify commissioning, and assist in fault diagnosis;

Press the <UP> key or the <DOWN> key to select the corresponding option, then press the <MENU> key to turn on motor hall learning, then press the <MENU> key to turn off motor hall learning.



EBC SETTING:

- BRAKE OPEN: Press the emergency brake switch; the emergency brake is on. When the emergency brake is on, the remote control and the device will pause the work, the screen will be flashing and ringing. Rotate the emergency brake switch to the right to turn off the emergency brake.
- BRAKE CLOSE: Pressing the emergency brake switch is invalid;
- THR LINK OPEN: When the emergency brake is "OPEN" on the page, press the

emergency brake switch, and the throttle amount is minimized.

- **THR LINK CLOSE:** Press the emergency brake switch, the throttle volume remains unchanged;

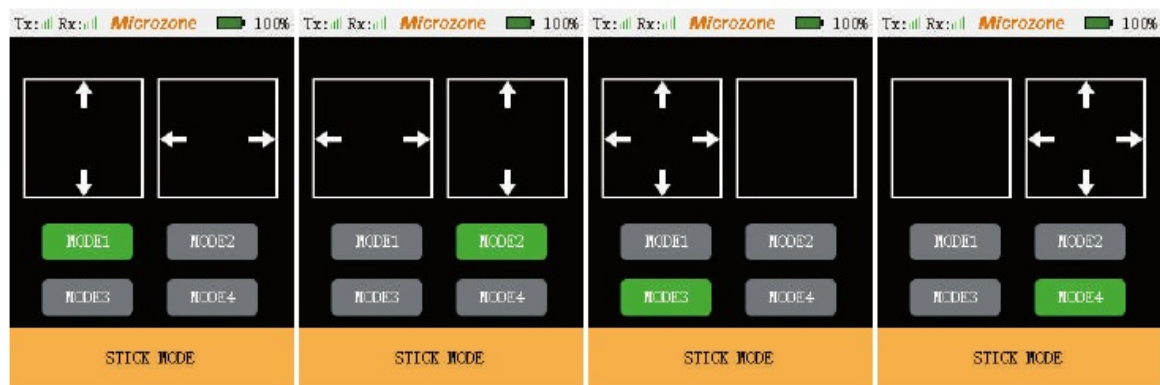
Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



AFS SETTING: HEADLIGHT OPEN: Toggle the car light switch backward to turn the car headlight on and forward to turn the car headlight off;

- **HEADLIGHT CLOSE:** Toggle the car light switch is invalid.
- **TURN LIGHT OPEN:** When the vehicle turns, the turn signal light flashes; Rocker mode according to settings, figure below, toggle the rocker left and right to turn on the left and right turn signals;
- **TURN LIGHT CLOSE:** Turn signal is invalid when the rocker is toggled to the left or right;

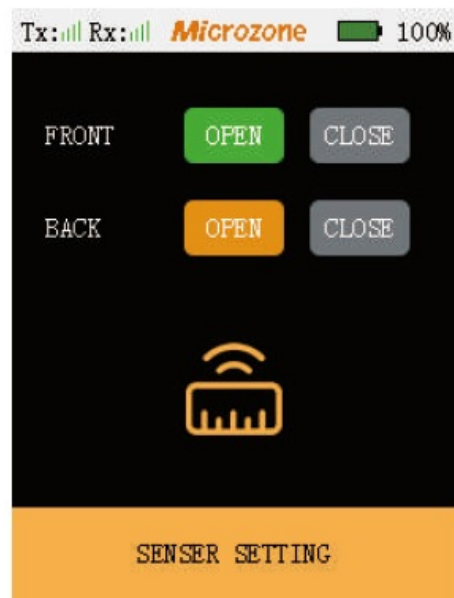
Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



SENDER SETTING:

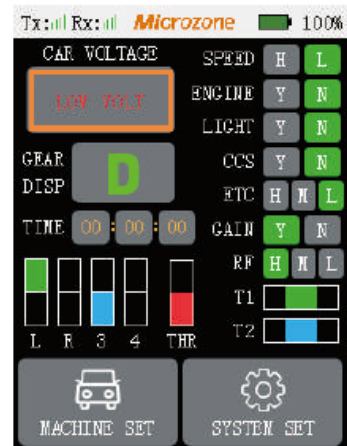
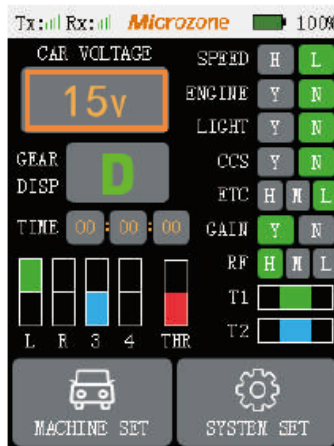
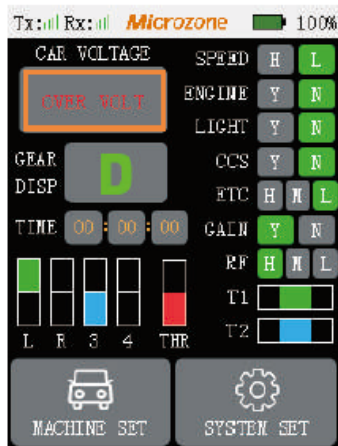
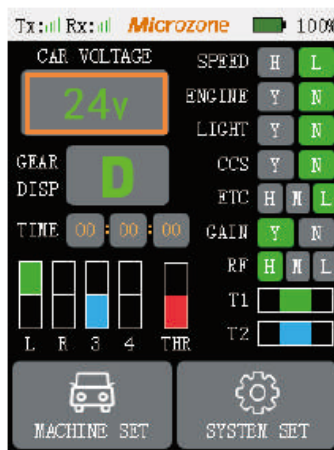
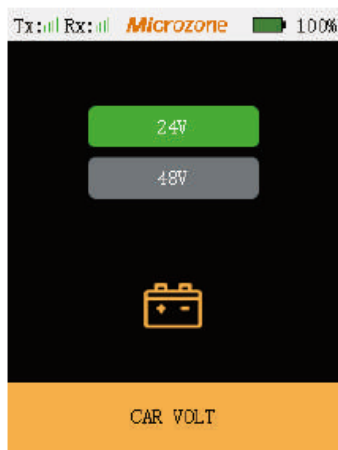
- FRONT SENSER OPEN: Pause when the front of the unit hits an object.t;
- FRONT SENSER CLOSE: Front senser not valid;
- BACK SENSER OPEN: Pause when the back end of the unit hits an object;
- BACK SENSER CLOSE: Back senser not valid;

Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



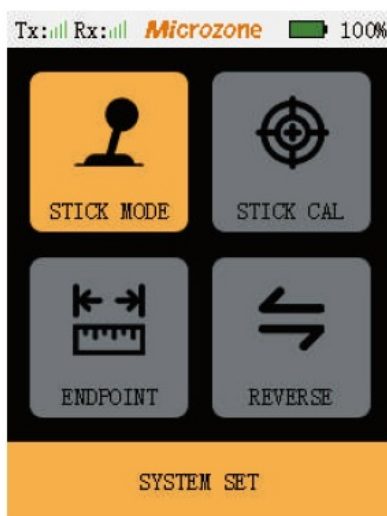
CAR VOLT:

Monitor its voltage status according to the set voltage value; Take 24V as an example, $24\pm 8V$ is the normal voltage, and the car voltage value on the main page is green; When it is higher than 8V, the car voltage value on the main page becomes red, indicating that the voltage is a little high; When it is higher than 10V, the car voltage on the main page shows over volt, indicating that the voltage is too high; When it is lower than 8V, the car voltage value on the main page becomes orange, indicating that the voltage is a little low; When it is lower than 10V, the car voltage on the main page shows low volt, indicating that the voltage is too low; Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



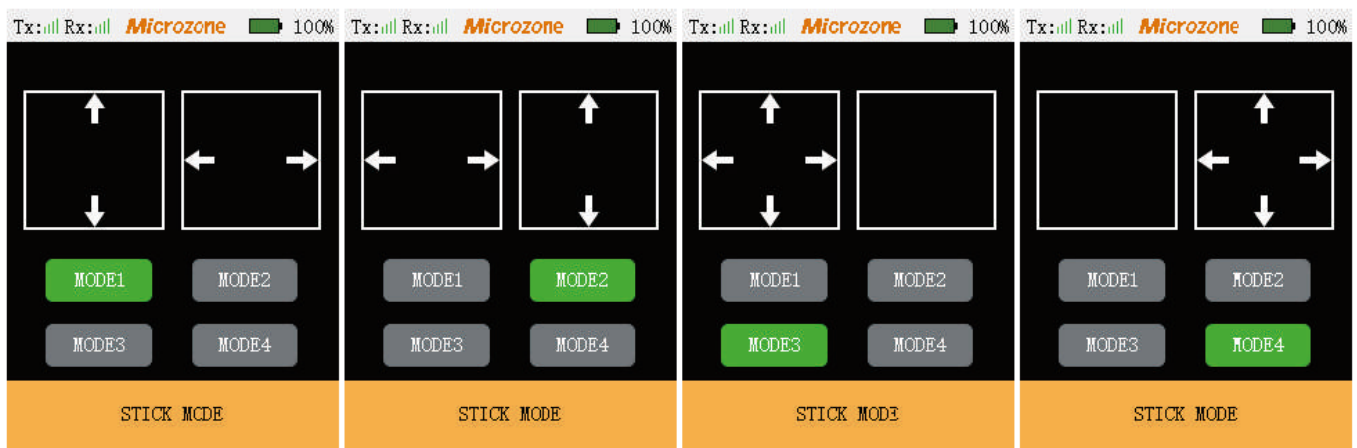
SYSTEM SET:

When there is no menu selection in the main page, press <MENU> key, then press <UP> key or <DOWN> key to select “SYSTEM SET”, and then press <MENU> key to enter the system set, you can press <UP> key or <DOWN> key to select the corresponding option, and then press <MENU> key to enter.



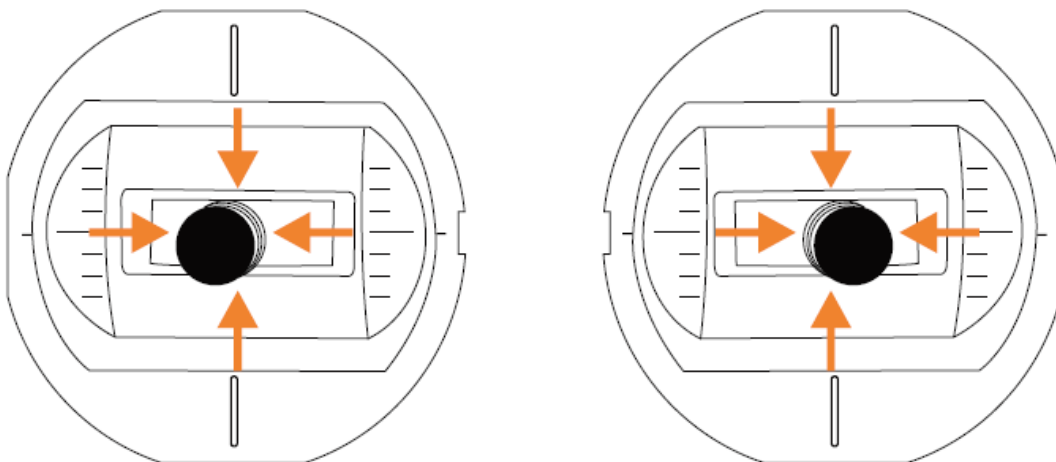
STICK MODE:

- MODE 1: Left stick forward and backward controls forward and backward, right stick left and right turns;
- MODE 2: Left joystick left and right control left turn and right turn, right joystick front and back control forward and backward;
- MODE 3: Left joystick controls forward, backward, left turn, and right turn; right joystick is invalid; MODE 4: Left joystick is invalid, right joystick controls forward, backward, left turn, and right turn; Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.

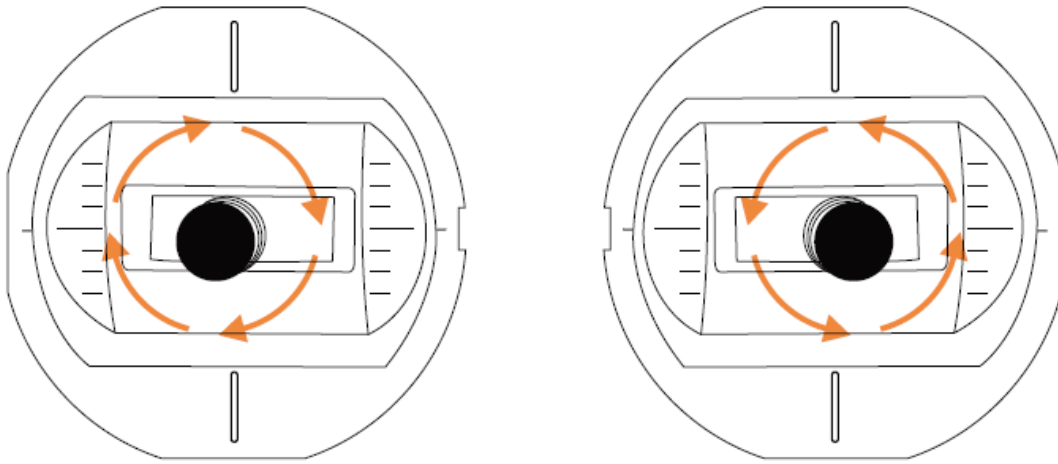


STICK CAL:

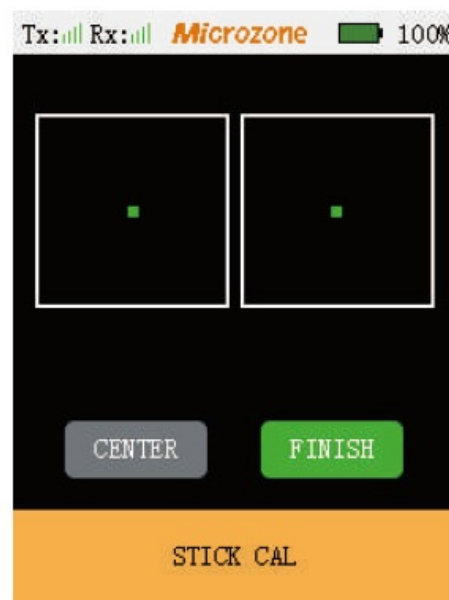
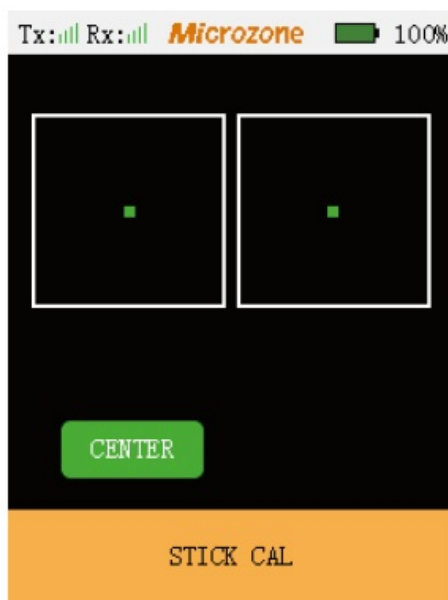
First, touch the joystick to the center position, as shown below, and then press the < MENU> key,



Then rotate the two joysticks on the remote control up, down, left, right, and by the maximum range for one full circle, as shown in the following figure,



When the “FINISH” button turns green, as shown below, press <MENU> again to complete the calibration.



ENDPOINT:

Used to limit the range of motion of the rudder surface, to ensure that the rudder surface only events within your desired range of servo motor travel;

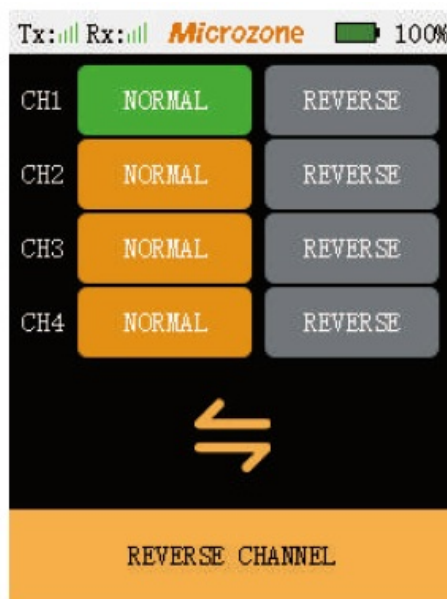
Prethe ss <UP> key or the <DOWN> key to select the corresponding option, thenpress the <MENU> key to determine the option to be modified, then press the <UP> key or the <DOWN> key to modify the parameter, and then press the <MENU> key to finish.



REVERSE CHANNEL:

The operation direction of channels 1-4 can be reversed.

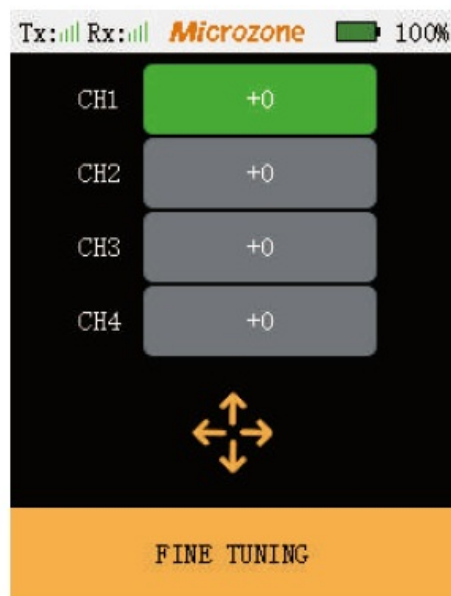
Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



FINE TUNING:

Software fine-tuning, the effect is equivalent to hardware fine-tuning;

Press the <UP> key or the <DOWN> key to select the corresponding channel, then press the <MENU> key to determine the channel to be modified, then press the <UP> key or the <DOWN> key to modify the fine-tuning value, then press the <MENU> key to finish.



LANGUAGE:

Support Chinese and English;

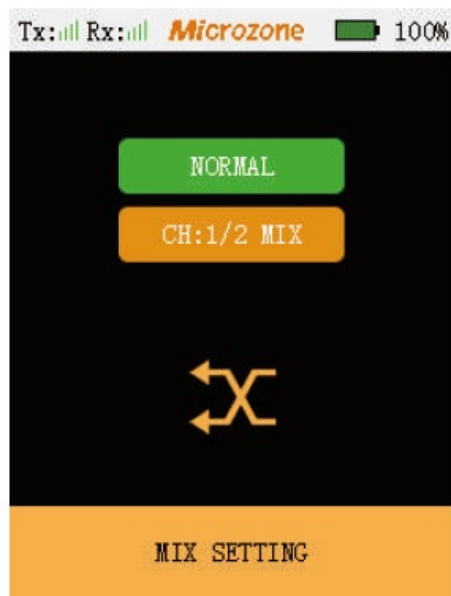
Press the <UP> key or the <DOWN> key to select the corresponding option, then press the <MENU> key to confirm.



MIX SETTING:

Bind the two channels of the receiver together and accept one channel control of the remote control for linkage.

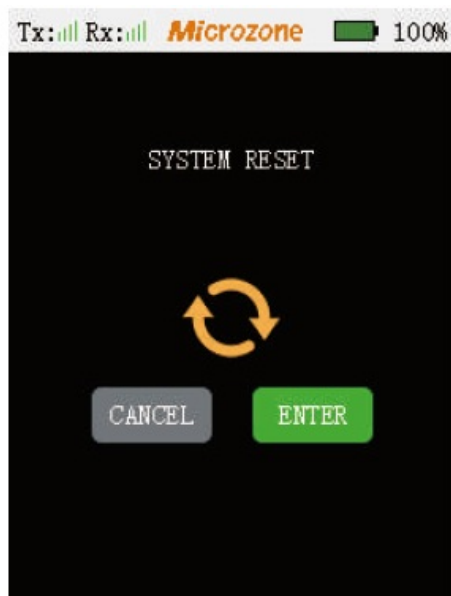
Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



SYSTEM RESET:

Reset all parameters to return to the originally set parameters.

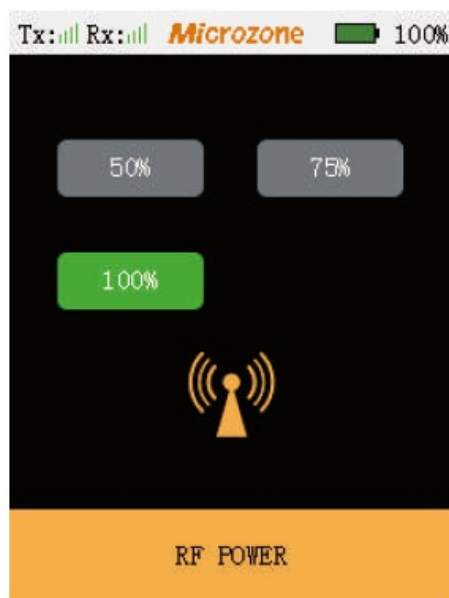
Press the <UP> key or the <DOWN> key to select “ENTER”, then press the <MENU> key to confirm.



RF POWER:

The greater the power, the farther the control distance.

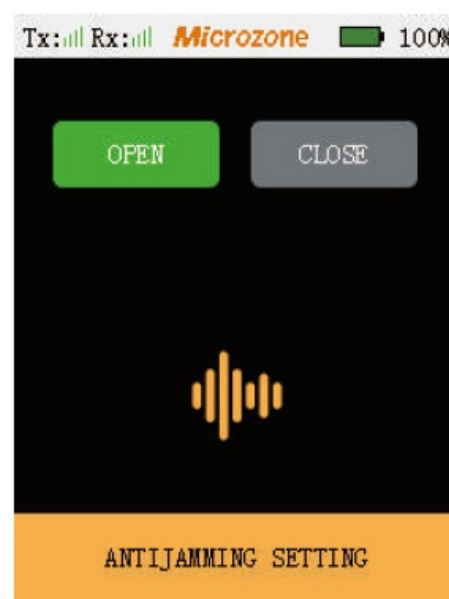
Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



ANTIJAMMING SETTING:

Stronger immunity to interference;

Press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to confirm.



STANDARD CONFIGURATION LIST

Packaging box * 1, remote control * 1, receiver * 1.

MATTERS NEEDING ATTENTION

Before starting to use the remote control, carefully read the following precautions!

1. This product is not a toy and is not suitable for children under the age of 12. Adults

should keep this product out of reach of children and keep it out of reach of Be careful when operating this product in the field.

2. Do not use at night, in thunderstorms, snow, low visibility, or other adverse weather conditions.
3. Do not use the remote control in snowy or watery places. If rainwater enters the remote control, the circuit will be short-circuited and cannot be used.
4. Signal interference may cause the remote control to go out of control. Places where interference affects more than others are as follows:
 - A. Near the mobile phone signal transmission tower
 - B. Near high-voltage power lines and communication broadcasting antennas
 - C. Near the military radar launch tower
 - D. The complexity of wireless communication and the commercial path of mobile activities
 - E. Navigation domain
5. Please do not use this product after feeling tired, uncomfortable, drunk, or excited about drugs, otherwise it will cause serious injury to oneself or others The value of is. The
6. 2.4G radio band is completely different from the low-frequency radio band used previously. Make sure that the product is operated within your line of sight when using it, as large obstacles can block the radio signal and cause loss of control of the remote control and the device.
7. Make sure that the remote control and equipment are installed correctly, and that all servos operate in the same direction as the controls before use; otherwise, serious damage to the equipment may occur.
8. If the remote control distance continues to be long, loss of control may occur, so please shorten the control distance appropriately; Low battery of the remote control, the remote control will not be able to send out a signal, which may result in loss of control, so when the remote control low battery alarm, please recharge the batteries as soon as possible.
9. When keeping the remote control off, be sure to turn off the power to the receiver and then turn off the remote control. If you turn off the power to the remote control first and the receiver is still operating, the equipment may go out of control or the engine may continue to operate, resulting in a serious accident.
10. Improper use of the remote control may cause serious injury or even death to the

operator or others. To ensure the safety of others and equipment, please be careful, read this guide, and follow the instructions.

11. The remote control and receiver required for our company's 2.4G wireless transmission system are used in pairs, while other company products cannot be connected to our company's products. The product is of great value.

www.microzone.cn

Frequently Asked Questions

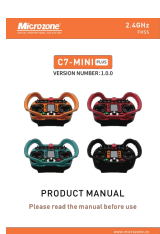
Q: How do I charge the remote control?

A: Use a Type-c cable + charger to connect to the Type-c charging port on the remote control for charging.

Q: What should I do if I hear the low battery alarm?

A: When the low battery alarm sounds, please charge the remote control immediately to avoid power loss during operation.

Documents / Resources

	<p>Microzone C7-MINI PLUS C7 Mini 2.4GHz Wireless Control System [pdf]</p> <p>Instruction Manual</p> <p>C7-MINI PLUS C7 Mini 2.4GHz Wireless Control System, C7-MINI, PLUS C7 Mini 2.4GHz Wireless Control System, Wireless Control System, Control System</p>
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References

- [User Manual](#)

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