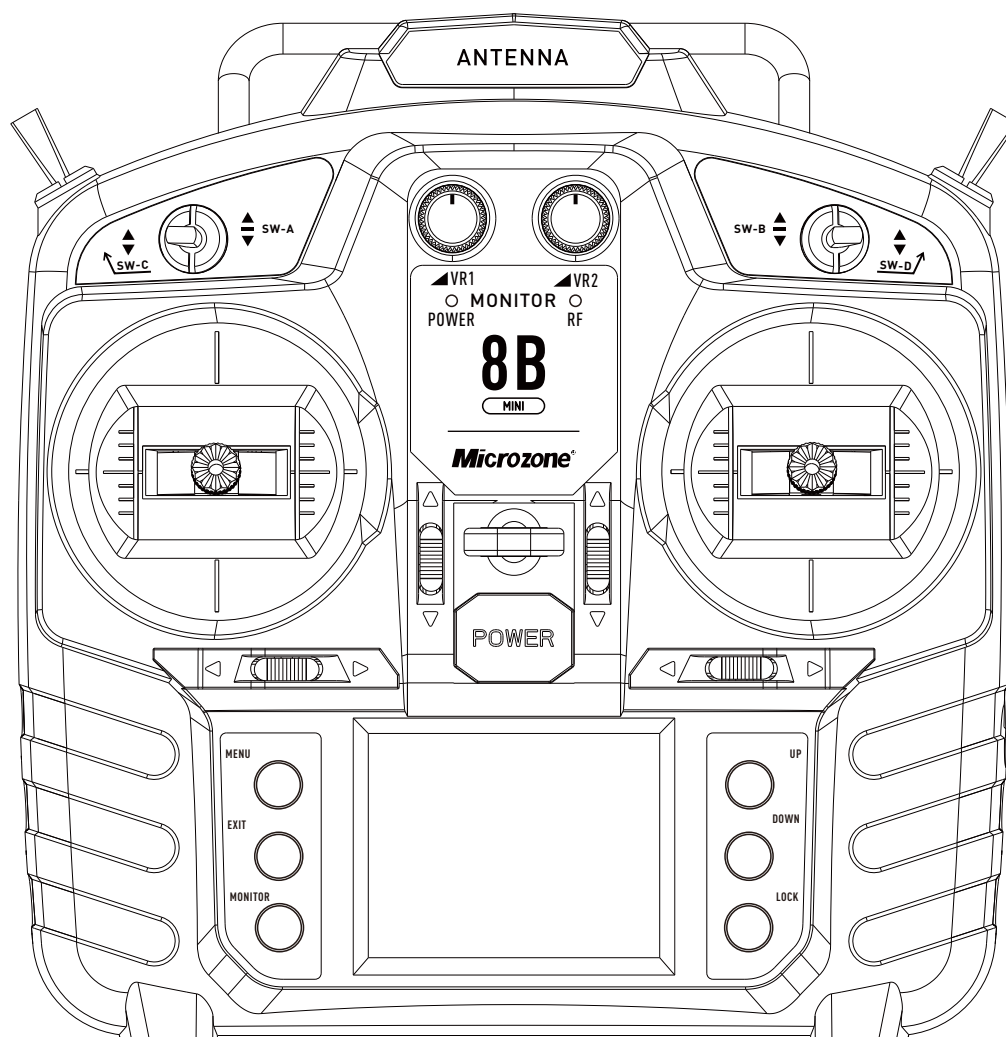


Version number:1.0.6

8B-MINI



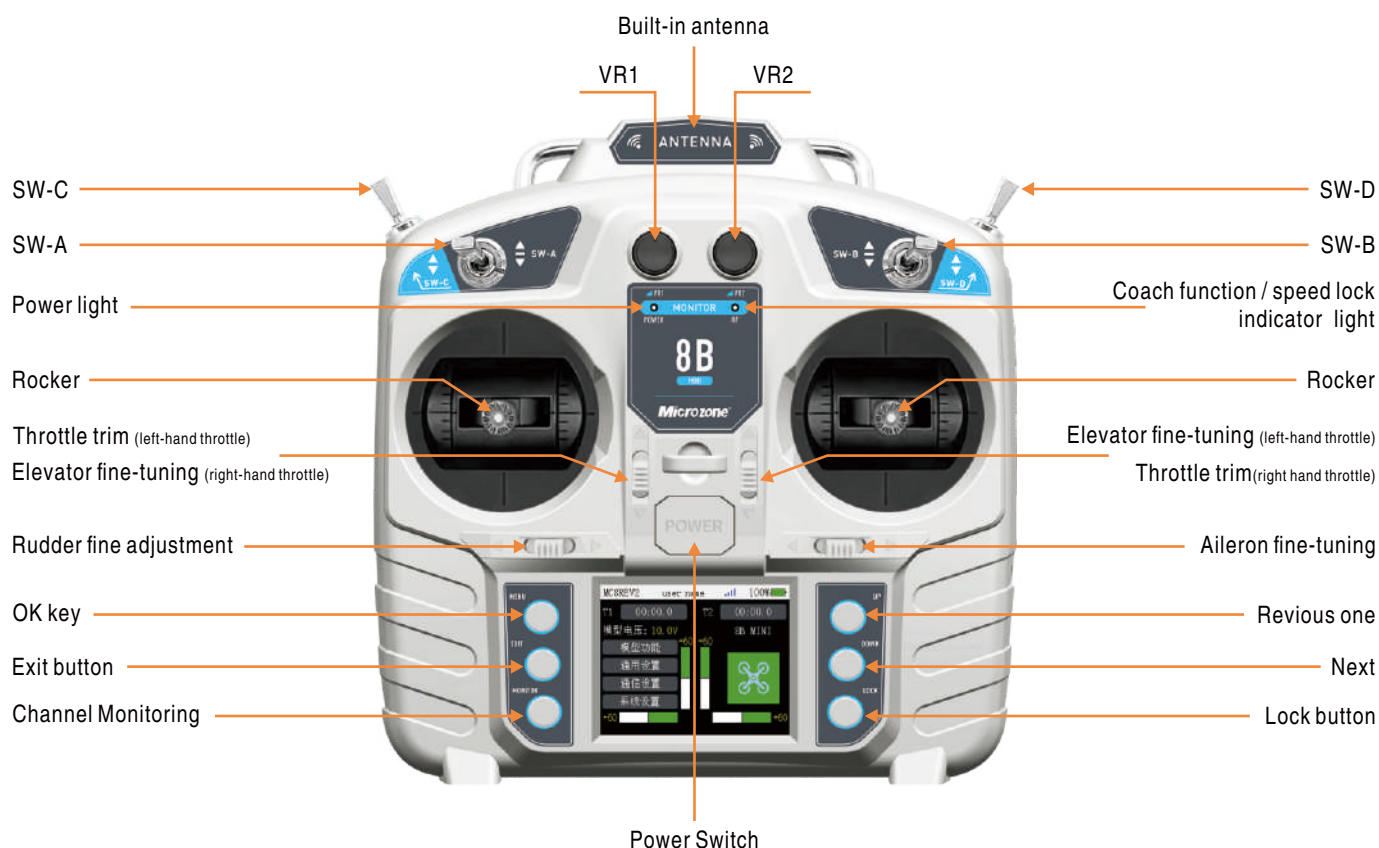
PRODUCT MANUAL

Please read the manual before use

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REMOTE CONTROL INTRODUCTION

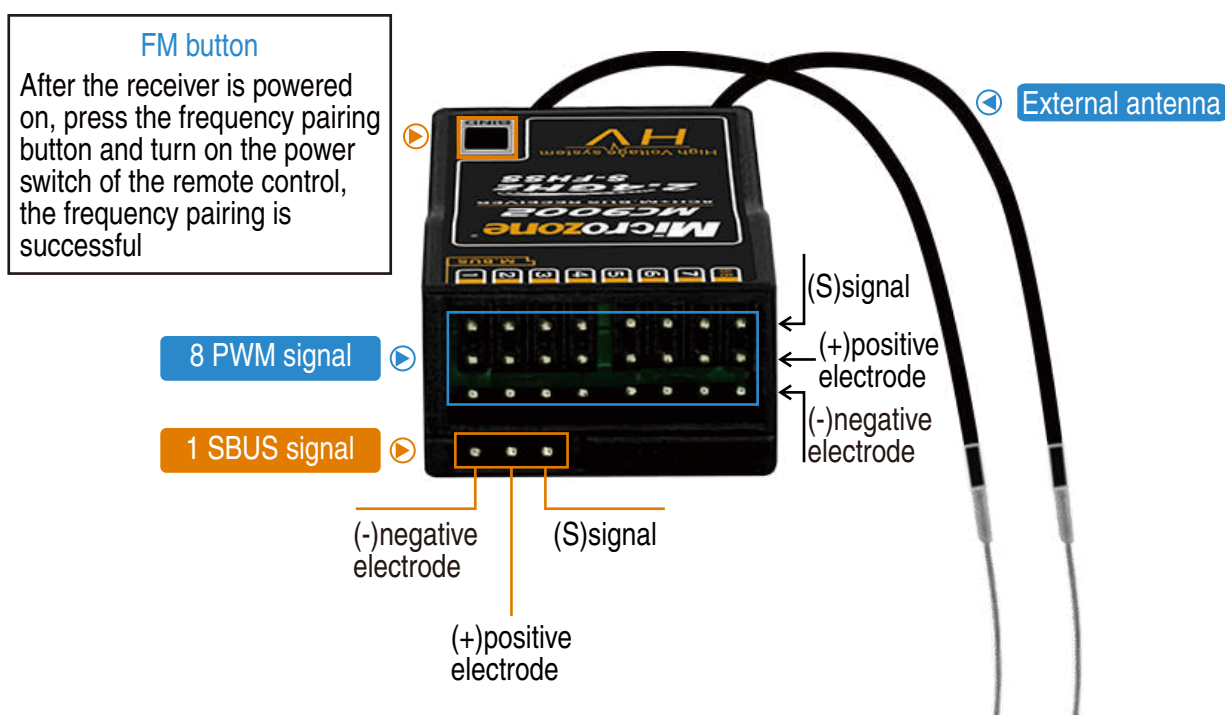




External input power supply
For indoor testing

INTRODUCTION TO STANDARD RECEIVERS

MC9002



REMOTE CONTROL PARAMETERS

Model	8B-MINI
Color	Ash gray
Display color	Colour (320*240 pixels)
Language	Chinese / English
Number of channels	8
Applications	Airplane / UAV / Car/Boat / Lawn mower / Intelligent machinery
Control range	>800m
Frequency range	2401 - 2478MHz
Rocker dynamic range	50%-250%
Fine-tuning method	Electronic fine-tuning
Transmitting power	≤100mw
Input voltage	DC4-9V
Modulation mode	FSK
Remote control power supply requirements	4 x 5 batteries or 2S lithium batteries
Low voltage alarm	Have
Analog Picking (PPM)	Have
Runaway protection settings	Support
Support receivers	Standard MC9002 ,Compatible MC8RE-V2 / MC7RB-V2 / MC6RE-V2 / E6R-E / M-BUS
Size	160*80*165(mm)
Weight	470g

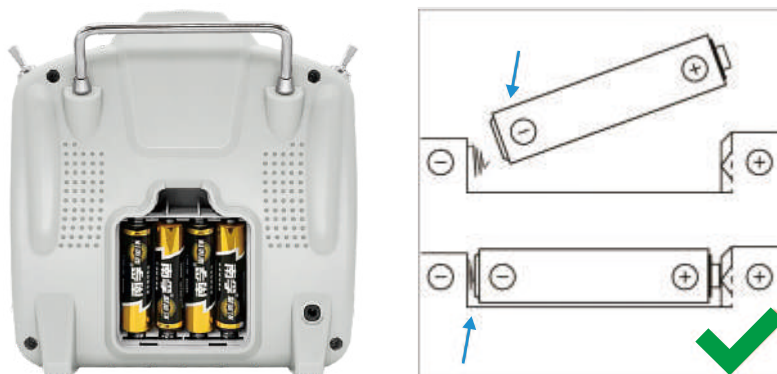
STANDARD RECEIVER PARAMETERS

Model	MC9002
Color	Teal transparent
Applications	Airplane / UAV / Car/Boat
Channel output	8 PWM signals,1 SBUS signals
Reception distance	>1000m
Frequency range	2401MHz-2478MHz
Receiver supply voltage	DC:4.5-6V
Voltage return	Not support
Runaway protection settings	Not support
PWM signal	Support
SBUS signal	Support
Frequency pairing mode	Push-button pairing
Recovery performance	Fast signal recovery
Remote control support	Standard 8B-MINI / MC8B , Compatible C10-MINI / C7-MINI / 6C-MINI / MC7 / MC6C / E6
Antenna type	External dual antenna
Antenna length	150mm
Size	46*25*14(mm)
Weight	10g

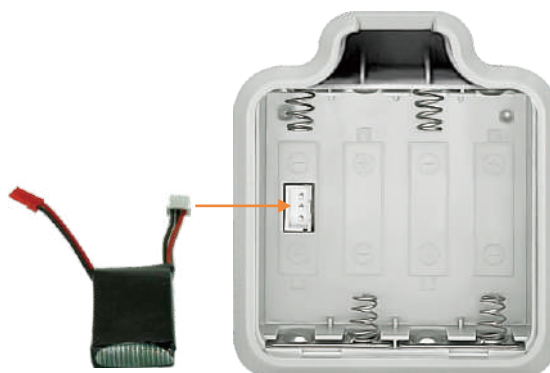
DETAILED DESCRIPTION

Electricity Supply:

DC4-9V, can be installed into the battery compartment using four No. 5 batteries, as shown in the following figure,



Alternatively, insert a 2S lithium battery into the battery compartment socket, as shown in the following figure,



You can also use an external power supply to connect to the DC power socket on the right side of the remote control, as shown in the following figure, **When using an external power supply, please Remove the battery from the remote control battery compartment first.**



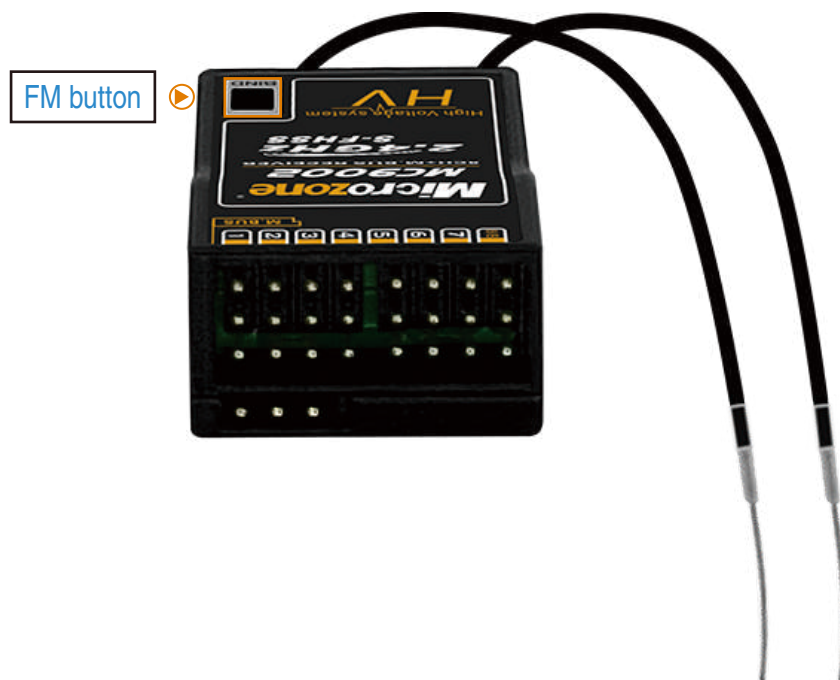
This DC port is not a charging port, Cannot charge, only available External connection to simulator teaching Power usage This DC port is not a charging port, Cannot charge, only available External connection to simulator teaching Power usage

Initial use:

When you unpack the package for the first time, please pair the frequency of the remote control with the receiver, after the frequency pairing is successful, the remote control and the receiver will be tested at a short distance, holding the remote control 10 to 15 metres away from the receiver, and then shake the remote control rocker to observe whether the model is controlled by the remote control, and if it is controlled, it means that the remote control and the receiver are working properly.

Couple of frequencies:

After the remote control is turned off and the receiver is powered on, press the frequency control button on the receiver, and the indicator light will flash quickly, the receiver will enter the frequency control mode, as shown in the following figure, then, turn on the remote control, and the receiver indicator light will turn on, the receiver will receive the signal normally.



Low Battery Alarm:

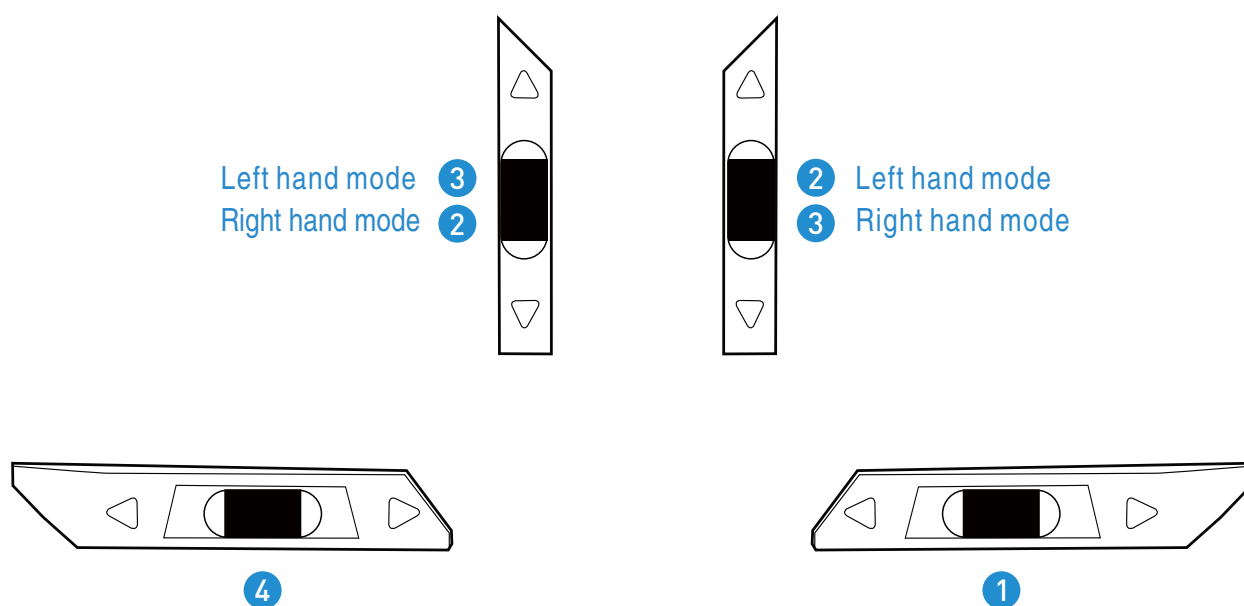
At 0% battery, a ticking sound will be made, and the remote control power indicator will blink, indicating that the power is low and needs to be charged.

Safe Shutdown advice:

Safe Shutdown Advice: To ensure the safety of the model and yourself, turn off the power to the model first and then the power to the remote control after the model motor stops running.

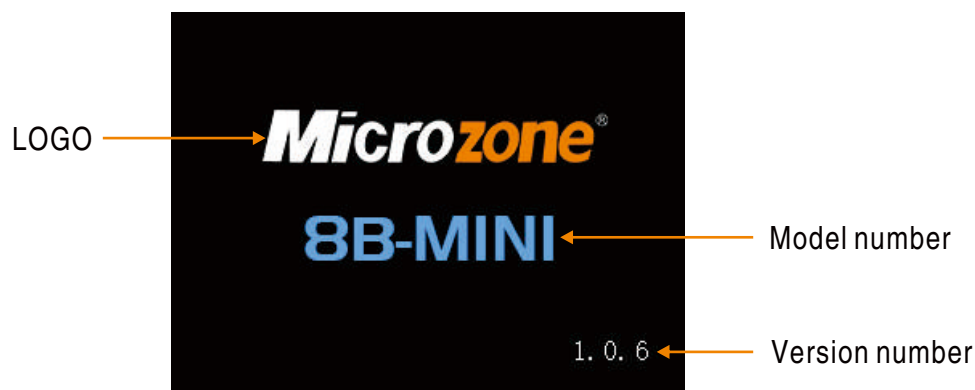
Trimmer switch:

The lower left trimming switch corresponds to channel 4, and the right trimming switch corresponds to channel 1; Upper left fine adjustment switch, left mode Corresponds to channel 3, and the right arrow mode corresponds to channel 2; Upper right fine adjustment switch, left mode corresponds to channel 2, right mode Equation corresponds to channel 3; As shown in the following figure.

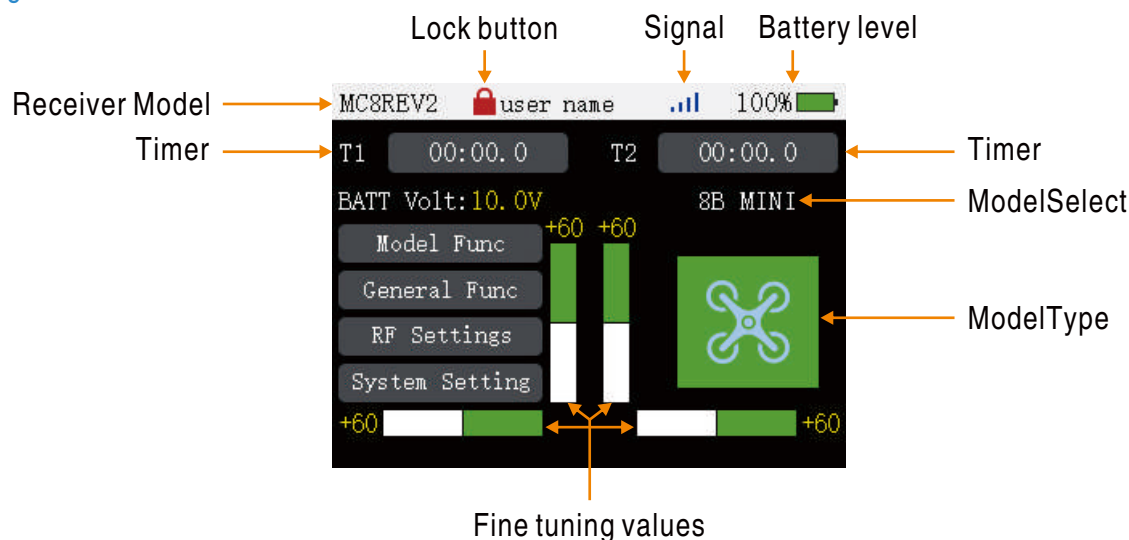


OPERATION PAGE DESCRIPTION

Boot page:

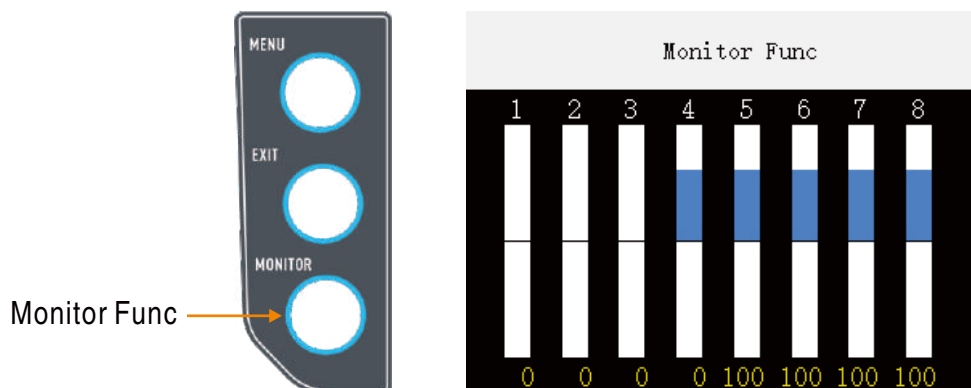


Main page:



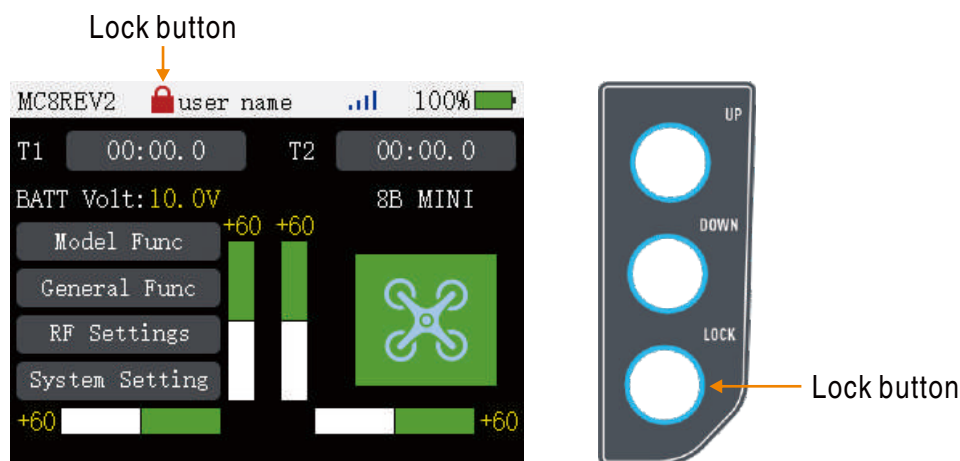
Monitor Func:

In the main page press <MONITOR> key to enter the channel monitor, you can see the information of channels 1-8 in the channel monitor, then press <MONITOR> key or <EXIT> key to exit the channel monitor.



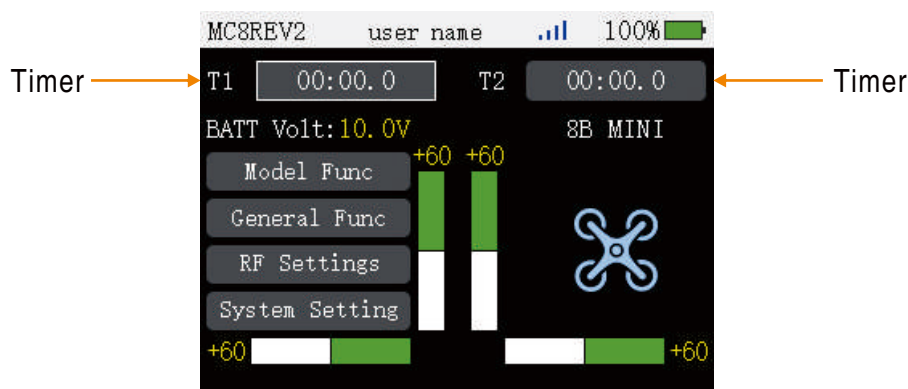
Lock button:

In the main page press <LOCK> key for 1 second to lock the key, when the key is locked, press <Fine tuning> key, <MENU> key, <EXIT> key, <UP> key, <DOWN> key are invalid, the lock symbol will appear on the page, then long press <LOCK> key for 1 second to unlock the key.

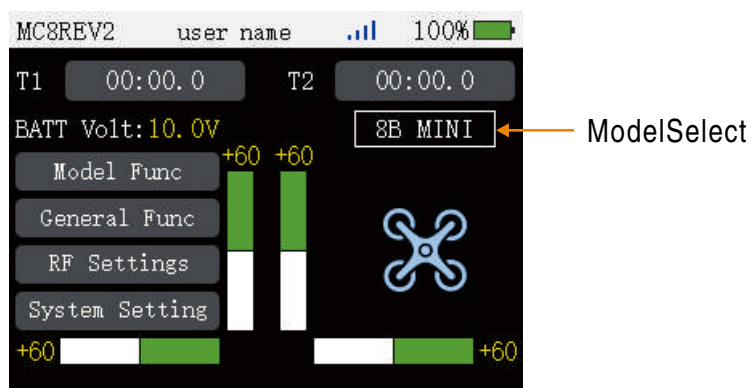


Quick Menu:

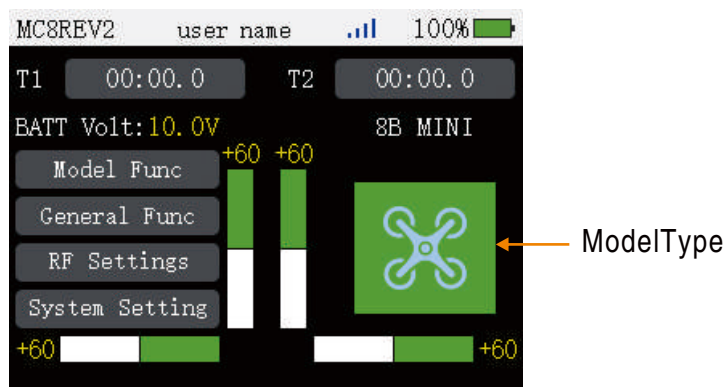
Timer: Press <MENU> key in the main page, then press <UP> key or <DOWN> key to select <T1> or <T2> button, then press <MENU> key to enter the timepiece setting page.



ModelSelect: Press <MENU> key in the main page, then press <UP> key or <DOWN> key to select the <ModelSelect> button, then press <MENU> key to enter the model selection page.

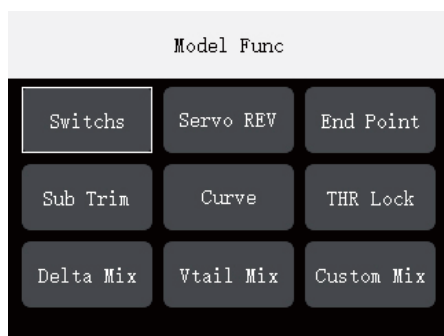


ModelType: Press <MENU> key in the main page, then press <UP> key or <DOWN> key to select the <Model Icons> button, then press <MENU> key to enter the selection of models page.

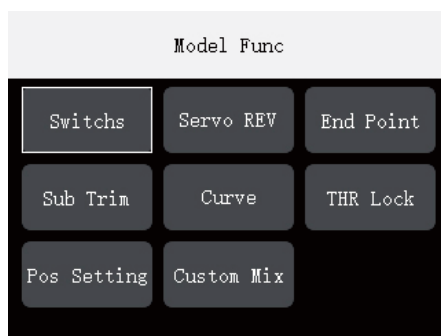


Model Func:

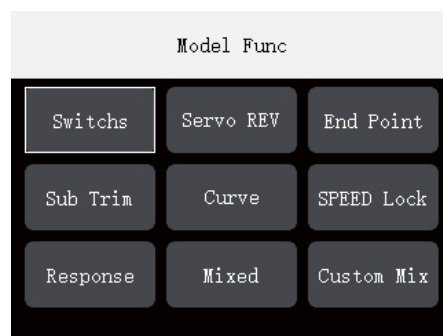
In the main page press <MENU> key to select <Model Func> button, then press <MENU> key to enter the model function, you can press <UP> key or <DOWN> key to select the corresponding option, then press <MENU> key to enter.



Fixed-wing mode



UAV mode

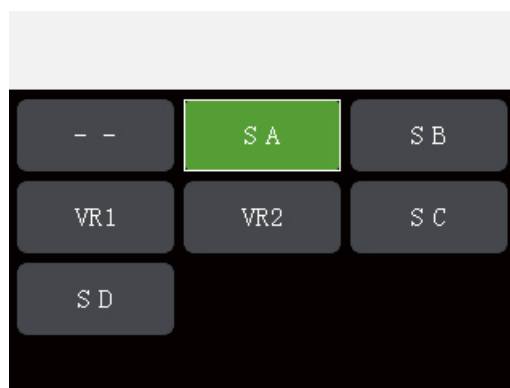
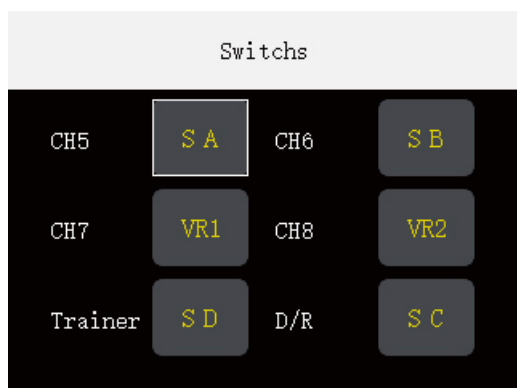


Vehicle / boat mode

Switchs:

With the lever that allows you to customise each function, one switch can control multiple channels / functions;

Press the <UP> key or <DOWN> key to select the corresponding option, press the <MENU> key to enter the setting option, then press the <UP> key or <DOWN> key to select the corresponding option, and press the <MENU> key to finish.

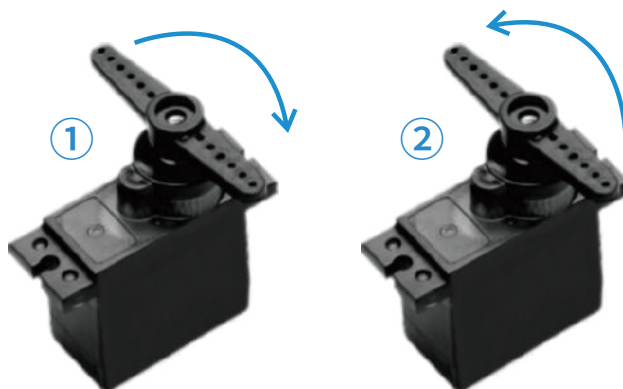
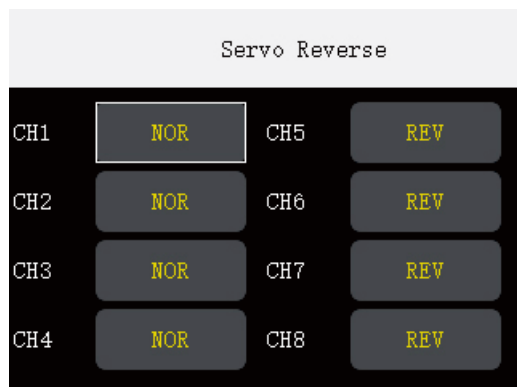


Servo Reverse:

Set the rudder swing direction;

Press <UP> key or <DOWN> key to select the corresponding channel, and press <MENU> key to switch between forward and reverse;

Taking channel 1 as an example, when in forward direction, the servo will swing from left to right when you toggle the joystick from left to right (Picture ①), and will swing from right to left when you toggle the joystick from left to right again in reverse direction (Picture ②).

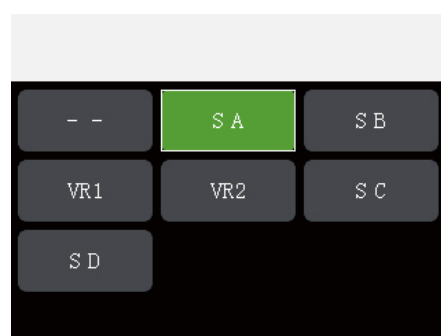


End Point:

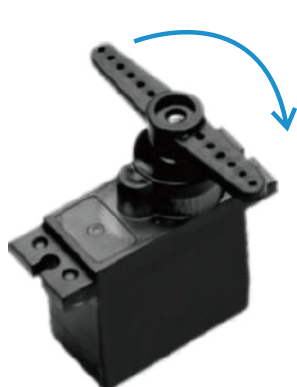
It can output a larger rudder range and make the model more sensitive, set the pulse width of each channel output so that the pulse width is adjustable from 500us-2500us;

Press <UP> key or <DOWN> key to select the corresponding channel option, press <MENU> key to determine the channel option that needs to be modified, then press <UP> key or <DOWN> key to modify the setting, then press <MENU> key to finish;

When the switch is not set, all itinerary are turned on by default, and when the switch is set, the custom itinerary for the corresponding channel can be turned off or on.



1000-2000us 90°



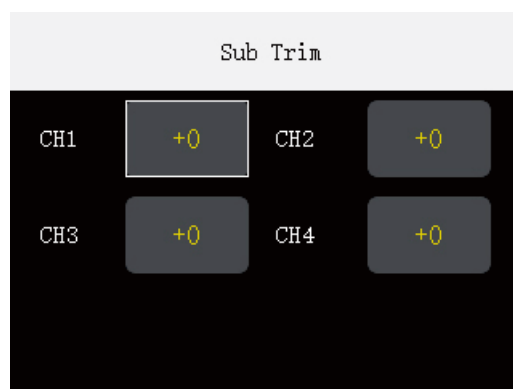
500-2500us 180°



Sub Trim:

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

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

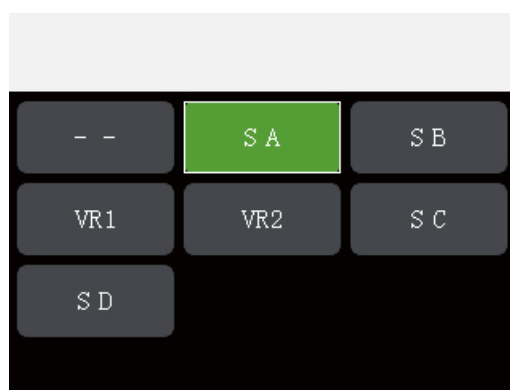
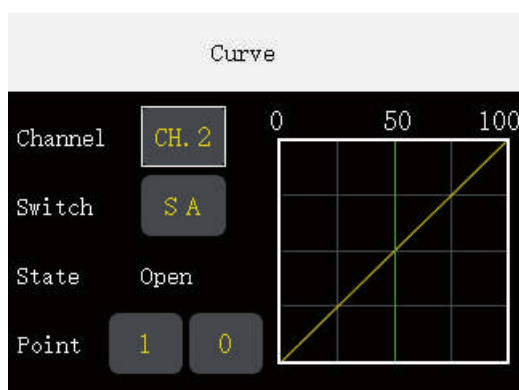


Curve:

Output curves for 8 channels can be set;

There are four buttons on the screen, Button 1 is the channel selector button, 2 is the curve switch; if there is no selector switch, the curve function will not be activated, 3 is the key point of the current channel curve, and 4 is the amount of rudder (0-100) associated with the key point;

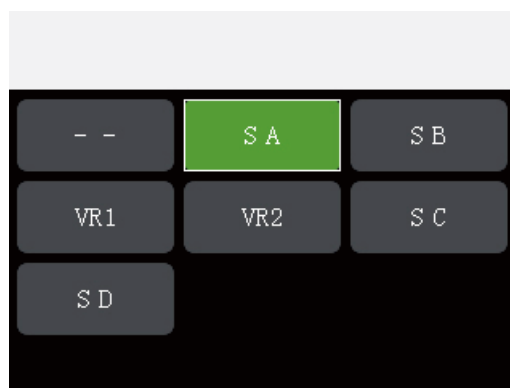
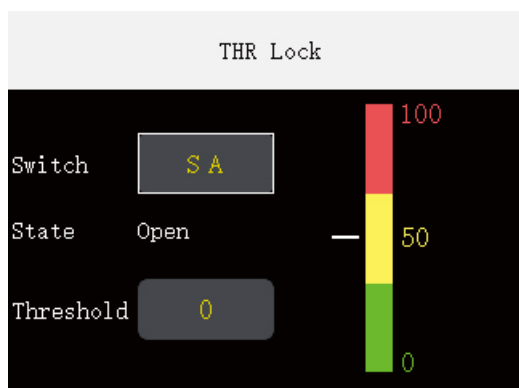
Press the <UP> key or <DOWN> key to select the corresponding option, press the <MENU> key to identify the option to be modified, press the <UP> key or <DOWN> key again to modify the setting, and press the <MENU> key again to finish.



THR Lock (Fixed wing / UAV mode):

When the value of channel 3 is close to or equal to the lock value when the function is turned on, the value of channel 3 output will no longer be changed, and channel 3 will resume control only when the toggle switch turns off the lock function;

Press <UP> key or <DOWN> key to select the corresponding option, press <MENU> key to determine the option to be modified, then press <UP> key or <DOWN> key to modify the setting, then press <MENU> key to finish.



Delta Mix (Fixed wing mode):

1/2 channel hybrid control;

When selecting <State> option, press <MENU> key to turn on or off the hybrid control;

Press <UP> key or <DOWN> key to select <Aileron>

<Elevator> option, press <MENU> key to determine the option to be modified, then press <UP> key or <DOWN> key to modify the parameter, then press <MENU> key to finish.



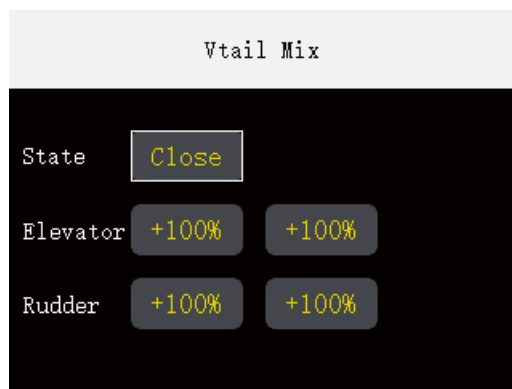
Vtail Mix (Fixed wing mode):

2/4 channel hybrid control;

When selecting <State> option, press <MENU> key to turn on or off the hybrid control;

Press <UP> key or <DOWN> key to select <Elevator>

<Rudder> option, press <MENU> key to determine the option to be modified, then press <UP> key or <DOWN> key to modify the parameter, then press <MENU> key to finish.

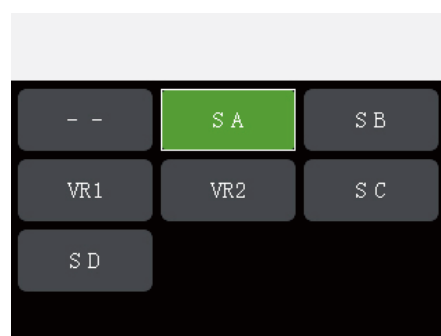


Custom Mix:

As shown below, take channel 1 as an example, when hybrid control is on, channel 1 outputs 100% rudder and channel 2 also outputs 100% rudder volume;

Press <MENU> key to turn on or off the hybrid control when selecting the option in the upper right corner of the page;

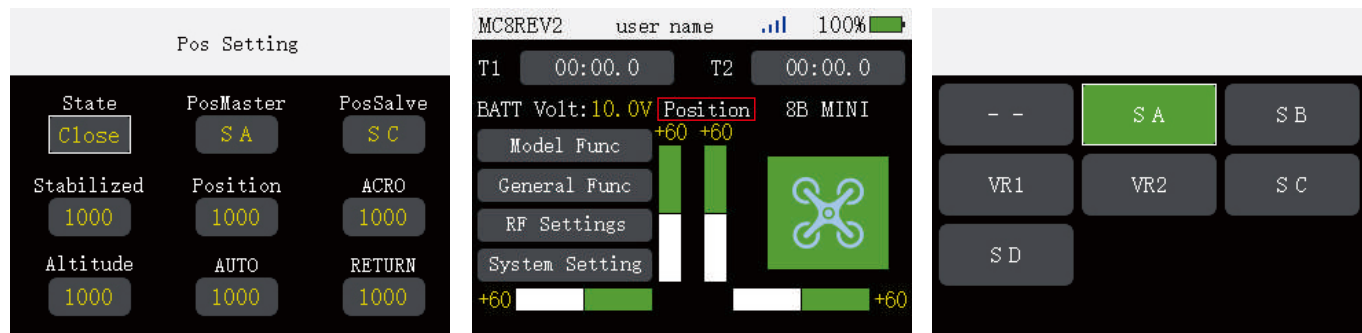
Press <UP> key or <DOWN> key to select the corresponding channel option, press <MENU> key to determine the option that needs to be modified, then press <UP> key or <DOWN> key to modify the parameter, then press <MENU> key to finish.



Pos setting (UAV mode):

The attitude switching function on the fifth channel of the multi-axis model requires you to set the parameters in conjunction with the controller;

When selecting the <State> option, press the <MENU> key to turn the attitude setting on or off, and the corresponding status will be displayed on the main page when it is turned on, chart below①, press the<UP> key or the <DOWN> key to select other options, press the <MENU> key to determine the option that needs to be modified, and then press the <UP> key or the <DOWN> key to modify the parameters, and then press the <MENU> key to complete the process.

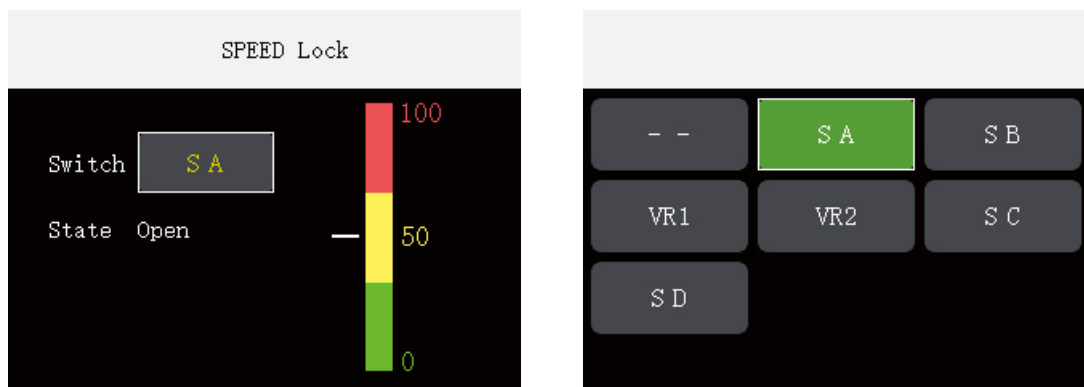


①

SPEED Lock (Vehicle / boat mode):

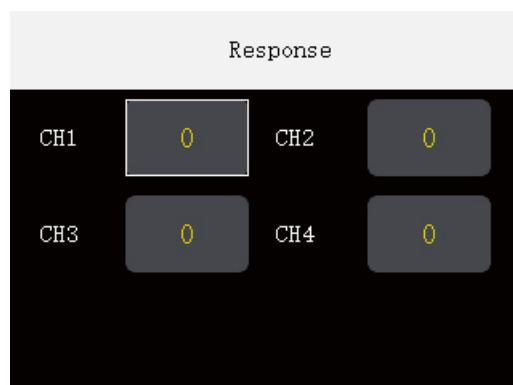
When speed lock is turned on for vehicles or boats with differential construction, they will travel at the same speed and no change in speed will be made;

Press <MENU> key, then press <UP> key or <DOWN> key to modify the setting, then press <MENU> key to finish.



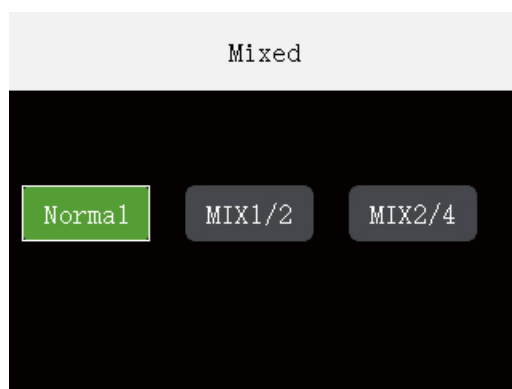
Response (Vehicle / boat mode):

The response speed of the channel can be adjusted;
Press <UP> key or <DOWN> key to select the corresponding option, press <MENU> key to determine the option that needs to be modified, then press <UP> key or <DOWN> key to modify the setting, then press <MENU> key to finish.



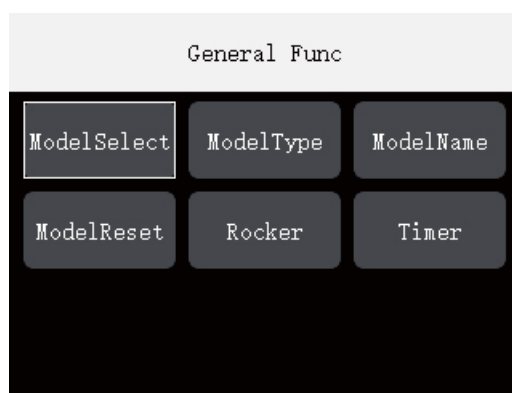
Mixed (Vehicle / boat mode):

Bind the two channels of the receiver together and accept one channel control of the remote control for linkage;
Press the <UP> key or <DOWN> key to select the corresponding option, and then press the <MENU> key to finish.



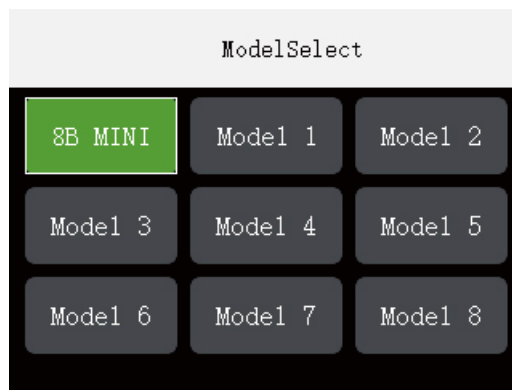
General Func:

In the main page press <MENU> key, press the <UP> key or <DOWN> key to select the <General Func> button, then press <MENU> key to enter the communication setting, you can press the <UP> key or <DOWN> key to select the corresponding option, and then press <MENU> key to Enter.



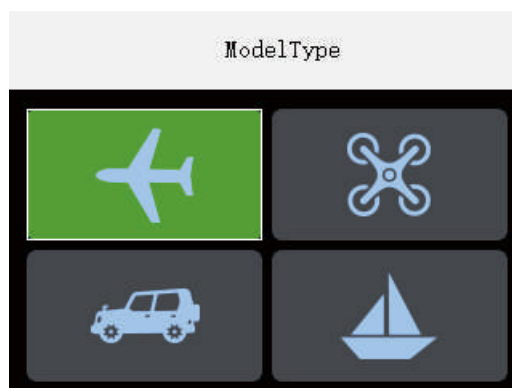
ModelSelect:

A total of 9 groups model data can be saved, and the remote control parameters will change after changing model;
Press <UP> key or <DOWN> key to select the corresponding model, press <MENU> key to finish.



ModelType:

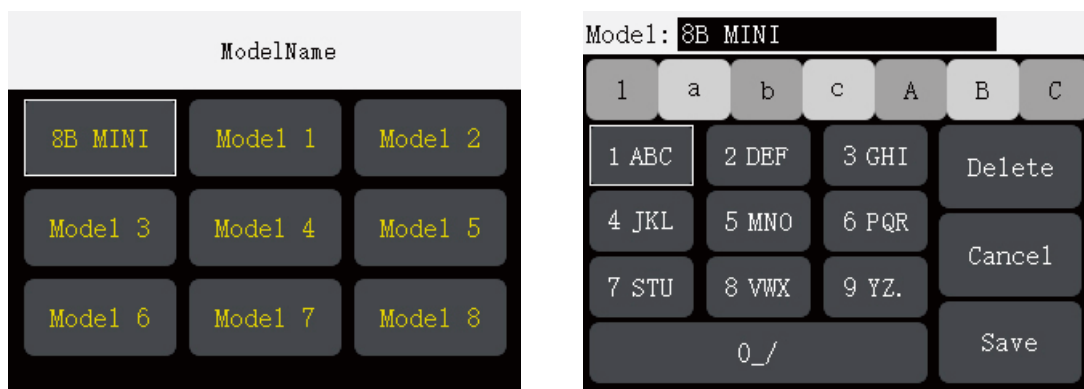
Fixed-wing / UAV / Vehicle / Boat can be selected;
Press <UP> key or <DOWN> key to select the corresponding models, press <MENU> key to finish.



ModelName:

The corresponding model name can be selected or modified;

Press <UP> key or <DOWN> key to select the corresponding model name, press <MENU> key to enter the modification page, after the modification is completed, press <UP> key or <DOWN> key again to select the <Save> button, then press <MENU> key to finish.

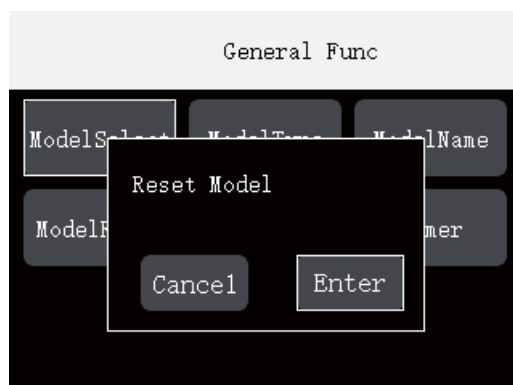


ModelReset:

Reset the parameters of the currently selected model, reset parameters include:

ModelName/Receiver Type/Forward and Reverse/Trim/Switchs/Function Switch/Lock Value/Mixed/Curve/Rudder Volume;

Press <DOWN> key to select the <Enter> button, then press <MENU> key to reset the model.



Setting the joystick mode:

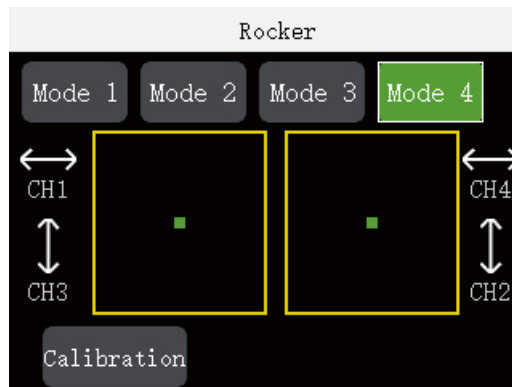
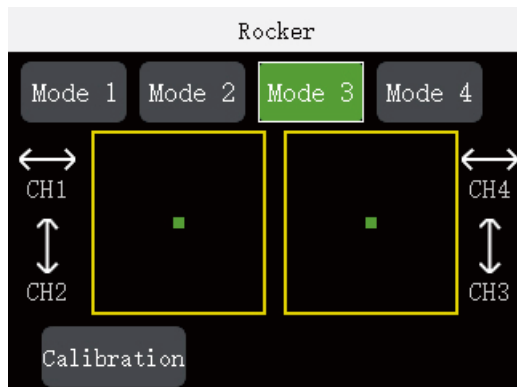
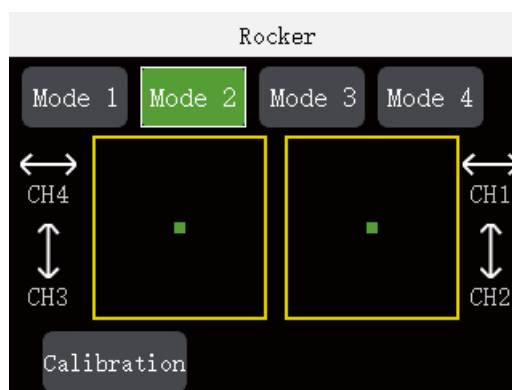
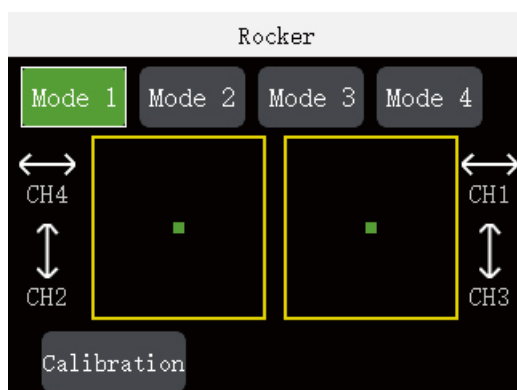
Mode 1: left joystick up / down control channel 2, left / right control channel 4, right joystick up / down control channel 3, left / right control channel 1;

Mode 2: left joystick up / down control channel 3, left / right control channel 4, right joystick up / down control channel 2, left / right control channel 1;

Mode 3: left joystick up / down control channel 2, left / right control channel 1, right joystick up / down control channel 3, left / right control channel 4;

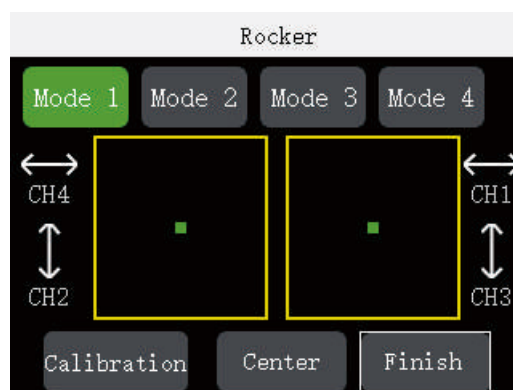
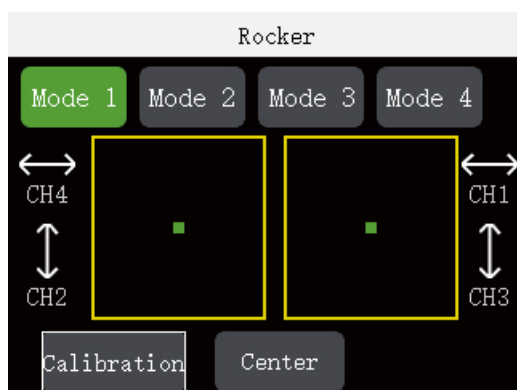
Mode 4: left joystick up / down control channel 3, left / right control channel 1, right joystick up / down control channel 2, left / right control channel 4;

Press <UP> key or <DOWN> key to select the corresponding mode, press <MENU> key to finish.

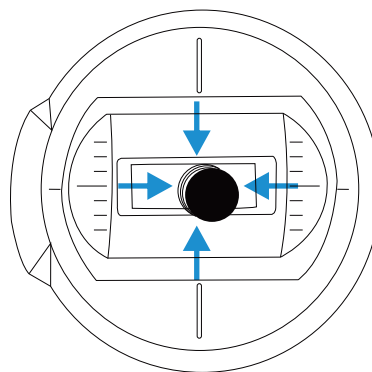
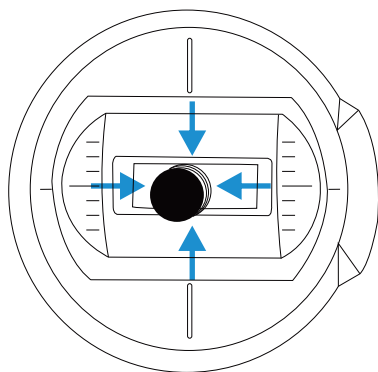


Rocker Calibration:

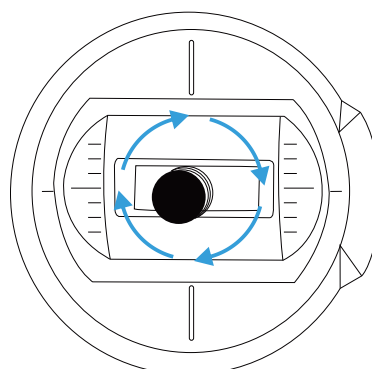
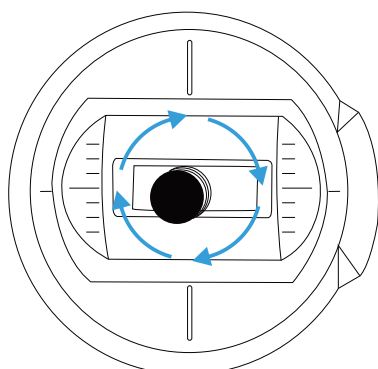
Press <DOWN> key to select < Calibration> button, press <MENU> key to turn on the calibration, push the left and right rockers to the centre point position (Picture ①), then press <DOWN> key to select <Centre> button, then press <MENU> key to confirm, and then push forward the two joysticks at the maximum range (Picture ②), and when the <Finish> button appears, press <MENU> key to finish the calibration.



①



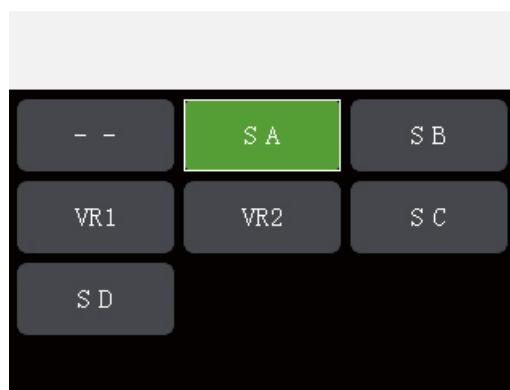
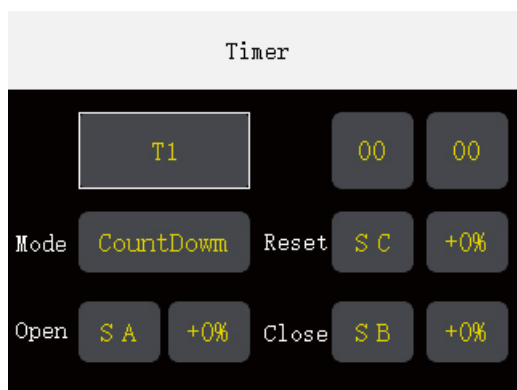
②



Timer:

Check button 1 to switch T1 or T2 setting, timer can choose <Close> <CountUp> <CountDown> mode, you can set the timer function to be triggered when the switch is in which rudder volume, selectable value: (-100) ~ (+100);

The leftmost button in line 1 and line 2, press <MENU> key to modify the setting; press <MENU> key for other buttons, then press <UP> key or <DOWN> key to modify the setting, press <MENU> key to finish.



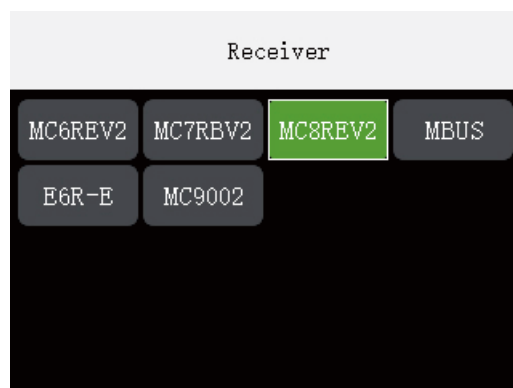
Communication:

In the main page press <MENU> key, press the <UP> key or <DOWN> key to select the <RF Settings> button, then press <MENU> key to enter the communication setting, you can press the <UP> key or <DOWN> key to select the corresponding option, and then press <MENU> key to Enter.



Receiver:

Press the <UP> key or <DOWN> key to select the corresponding receiver model, then press the <MENU> key to finish.

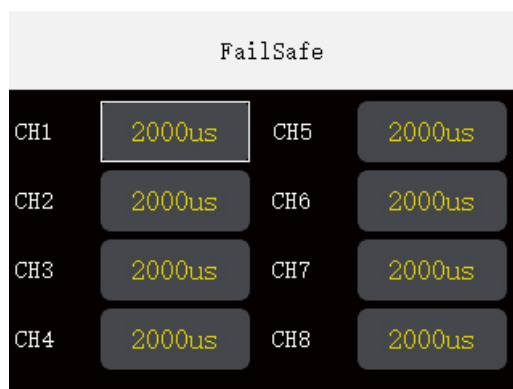


FailSafe:

It works when the receiver can't receive the signal from the remote control normally, and it works when the remote control is turned off and the distance exceeds the signal range that the receiver can receive, and it returns to the set runaway protection value when it can't receive the signal to protect the model from being hurt, and this value needs to be set according to the characteristics of the controlled machine, such as a vehicle / boat, the fuel channel can be set to 1500us, in this way, when the motorcycle or boat goes out of control, it will stay in the current position;

Setting method: Make sure the receiver and the remote control have been aligned to the frequency, press <UP> key or <DOWN> key to select the corresponding channel, then press <MENU> key to determine the channel that needs to be modified, then press <UP> key or <DOWN> key to modify the parameter, and then press <MENU> key to complete the process. After the setting is completed, to ensure the correctness of the setting, please take the initiative to turn off the remote control in order to test the result of the setting (before turning off the remote control Please pay attention to safety, such as whether the propeller has been dismantled or not);

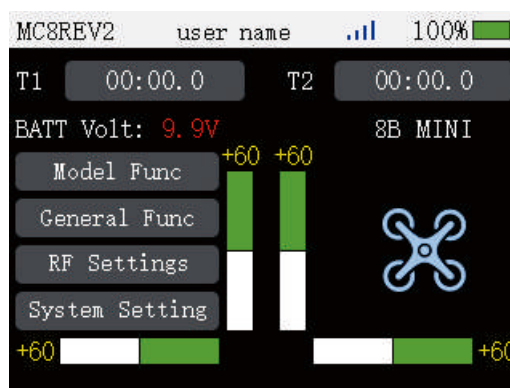
Receiver M-BUS / MC3RB / MC4RB / MC6RE / MC7RB / MC8RE / E6R-E / MC9002 do not support runaway protection.



Warning:

When the receiver return voltage is lower than the model voltage set by the remote control, it will tick, and the model voltage value in the main page is red and blinking, and there is no alarm when the model voltage is set to 0V;

Press <MENU> key, then press <UP> key or <DOWN> key to modify the model voltage value, then press <MENU> key to finish.



Sys Setting:

In the main page press <MENU> key , press the <UP> key or <DOWN> key to select the <System Setting> button, then press <MENU> key to enter the sys setting.

Volume:

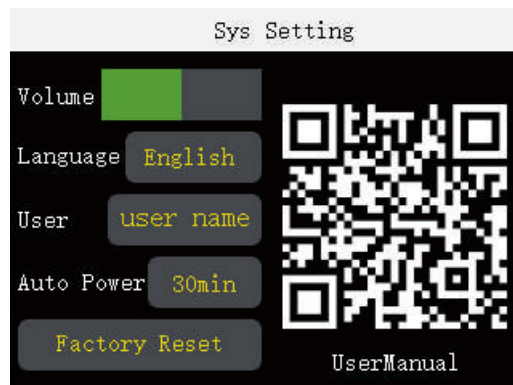
Press <MENU> key, then press <UP> key or <DOWN> key to adjust the volume, then press <MENU> key to finish.

Auto Power:

Press the <MENU> key, then press the <UP> key or <DOWN> key to select the time for auto power off, then press the <MENU> key to finish.

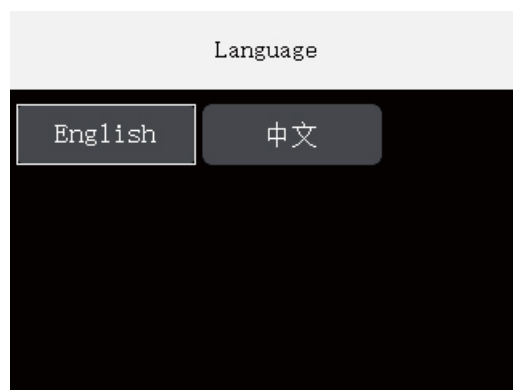
UserManual:

Scan the QR code to download the manual.



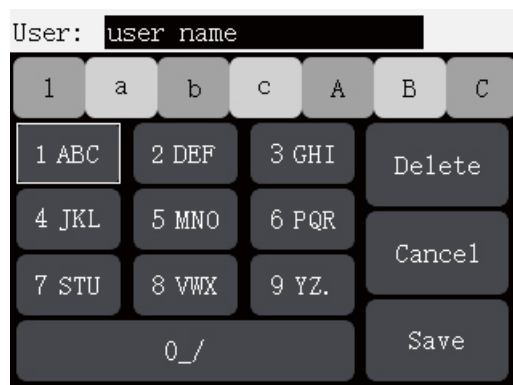
Language:

Support Chinese and English;
Press<UP> key or <DOWN> key to select Chinese or English, then press <MENU> key to finish.



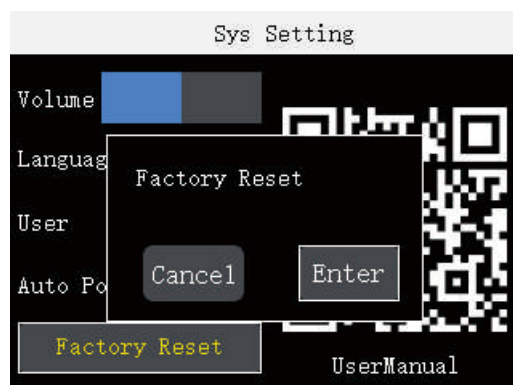
User:

You can modify the user name, after modifying, press <UP> key or <DOWN> key to select <Save> button, then press <MENU> key to finish.



Factory Reset:

All settings can be reset to return to the original settings;
Press the <DOWN> key to select the <Enter> button, then press the <MENU> key to finish.



STANDARD CONFIGURATION LIST

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

Standard receiver: MC9002 ;

Compatible receivers: MC8RE-V2 / MC7RB-V2 / MC6RE-V2 / E6R-E / M-BUS.

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 children Be careful when operating this product in the field.
2. Please do not use it in harsh weather conditions such as evenings, thunderstorms, snows, low energy levels, etc.
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.
6. The 2.4G line band is completely different from the low-frequency line radio band previously used, Please ensure that the model product is within your line of sight when using it Obstacles inside can block the signal from the power line, causing the remote control and model to lose control.
7. Before using it, it is necessary to ensure that the remote control and model are installed correctly, and that all steering gear actions and controls are in the same direction, otherwise it may cause damage to the model Severe damage to the engine.
8. If the remote control distance continues to be long, loss of control may occur, so please shorten the distance appropriately; if the remote control batteries do not have enough voltage, no signal will be emitted from the remote control, resulting in loss of control; so when the remote control has a low battery alarm, please replace the batteries with new ones as soon as possible.
9. When stopping the remote control, be sure to cut off the power supply of the receiver and then turn off the remote control; If the power to the remote control is turned off first, the receiver will still be on Operation may cause the model to lose control or the engine to continue working, leading to serious accidents.
10. Improper use of the remote control may result in serious injury or even death to the operator or others; to ensure the safety of you, others, and the model, read this guide carefully 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.