



RXC42-SG/SP V3.1 Manual

Thank you for choosing the MXO-RACING products, please read this document carefully before using it!

RXC42-SG/SP V3.1 is a micro high-speed surface receiver, compatible with Futaba SFHSS protocol, used for 1:24/1:28 or MINIZ. Its output speed is up to 3.4ms, which is much higher than other receivers of the same protocol.

In addition, due to its extremely small size, it can be easily installed on any 1:24/1:28 car frame.

In order to ensure its working distance, we have added a high-gain LNA to the hardware, and optimized the automatic control logic of the LNA in the software to ensure that the receiver can work effectively at short and long distances.

RXC42-SG V3.1 is a built-in GYRO that supports high-speed output and online FW update.

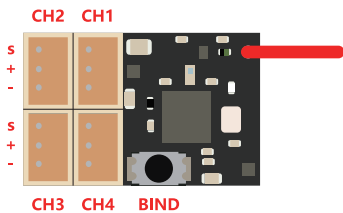
RXC42-SP V3.1 only supports high-speed output.

Features

- Size: 18.6*12.0*7.0mm
- Weight: 1.25g
- Working voltage: 3.3~8.5V
- Compatible with Futaba SFHSS
- Built-in LNA
- Parallel high-speed output
- Support two output speeds of 3.4ms and 6.8ms
- Built-in GYRO (Note 1)
- Support turning off the built-in GYRO (Note 1)
- Support the setting of GYRO sensitivity and direction of action (Note 1)
- Support the end point limit setting of the steering channel (Note 1)
- Support online firmware upgrade

Note 1: Only the RXC42-SG version supports this function

Interface



Bind operation

First power on the receiver and then press the binding switch until the blue LED flashes quickly, then power on the transmitter. When the blue LED on the receiver changes from fast flashing to constant light, it means that the binding operation is successful and the signal has been received.

Switch between 3.4ms and 6.8ms Mode

RXC42-SG/SP V3.1 supports two output modes of 3.4ms and 6.8ms, and users can freely switch between these two output modes.

When S-FH (NORM) is selected in the RX MODE menu of the transmitter, the receiver works in 6.8ms mode, and when S-FH (HIGH) is selected, the receiver works in 3.4ms mode.

If you are using the RXC42-SP version, the red LED is on when the RX is working in 3.4ms mode, otherwise the red LED is off.

Set the sensitivity and direction of action of the GYRO

RXC42-SG V3.1 uses the CH3 of the transmitter to set the sensitivity and direction of the GYRO.

When the CH3 signal is less than 1.4ms (Red LED ON), the direction of action of the GYRO is to the left, and at the same time, the smaller the width of the CH3 signal, the higher the sensitivity of the GYRO.

When the CH3 signal is greater than 1.6ms (Green LED ON), the direction of action of the GYRO is to the right, the greater the width of the CH3 signal, the higher the sensitivity of the GYRO.

When the CH3 is in the middle, the GYRO will turn off, and the red and green LEDs are off.

Set the End Point of the ST channel

When using the built-in GYRO, the signal of the GYRO will be superimposed on ST. At this time, the output of ST is not limited by the End Point function of the transmitter. If the EXP is too large, the servo may be stuck. In order to prevent the above situation from happening, we have developed the End Point function on the receiver. The setting method is as follows:

- 1) First set CH3 on the transmitter to the midpoint to turn off the built-in GYRO, at this time the red LED and green LED are off;
- 2) Turn the ST channel of the transmitter to make the servo arm swing to the desired position on the left and hold, and then press the BMD switch. At this time, the red LED flashes for about 2 seconds and then does not light up;
- 3) Turn the ST channel of the transmitter to make the servo arm swing to the desired position on the right and hold, then press the BIND switch, at this time the green LED flashes for about 2 seconds and then does not light up;
- 4) After the above three steps, the left and right end points of the ST channel are set up. The position of the servo arm on the left and right in the second and third steps is the end of the ST channel.

Note: When the built-in GYRO is turned off, the End Point value of the ST channel comes from the End Point setting of the transmitter. When the built-in GYRO is turned on, the End Point value of the ST channel comes from the setting of the receiver.

Online firmware update

This function needs PC GUI support, and needs to connect RX and GUI through MX USB-PG02 (3P-1.5). The transmitter must be turned off before the RX connects to the GUI, otherwise the RX cannot connect to the GUI.

GUI download connection: update.crossover-rx.com/mxo.zip

Contact us

If you have any feedback or suggestions, please contact us, thank you!

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