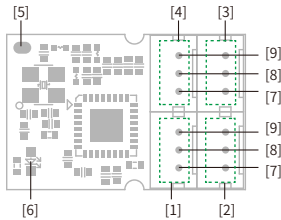


## 产品介绍 Introduction

FS-R4M 是一款采用 ANT 协议的 4 通道迷你接收机。外置单天线，双向传输，体积小，适配蚊车。

FS-R4M based on ANT protocol is a 4-channel mini receiver with single external antenna, bidirectional transmission and micro size. It adapts micro/mini cars.

## 接收机概览 Receiver overview



- |              |              |          |
|--------------|--------------|----------|
| [1] CH1 通道接口 | [4] CH4 通道接口 | [7] 信号端  |
| [2] CH2 通道接口 | [5] 天线       | [8] 电源正极 |
| [3] CH3 通道接口 | [6] LED 指示灯  | [9] 电源负极 |

- |         |             |                   |
|---------|-------------|-------------------|
| [1] CH1 | [4] CH4     | [7] Signal pin    |
| [2] CH2 | [5] Antenna | [8] Power anode   |
| [3] CH3 | [6] LED     | [9] Power cathode |

备注 /Note

接口规格: ZH1.5mm-3P/Interface specification: ZH1.5mm-3P

## 产品规格 Product specifications

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● 产品型号: FS-R4M</li> <li>● 适配发射机: ANT 协议发射机 (如 FS-G7P)</li> <li>● 适配模型: 蚊车</li> <li>● 通道个数: 4</li> <li>● 无线频率: 2.4GHz ISM</li> <li>● 发射功率: &lt; 10dBm</li> <li>● 天线类型: 单天线</li> <li>● 遥控距离: &gt;50m(地面)</li> <li>● 无线标准: ANT (蚂蚁版自动跳频数字系统)</li> <li>● 通道分辨率: 1024 级</li> <li>● 数据输出: PWM</li> <li>● 输入电源: 3.5 ~ 9V/DC</li> <li>● 在线更新: 支持</li> <li>● 温度范围: -10°C ~ +60°C</li> <li>● 湿度范围: 20% ~ 95%</li> <li>● 外形尺寸: 20.0*13.0*7.2mm</li> <li>● 机身重量: 3g</li> <li>● 安规认证: CE, FCC ID: 2A2UNR4M00</li> </ul> | <ul style="list-style-type: none"> <li>● Product Model: FS-R4M</li> <li>● Adaptive transmitters: Transmitters with ANT protocol, such as FS-G7P</li> <li>● Adaptive Models: Mini/micro cars</li> <li>● Numbers of Channels: 4</li> <li>● RF: 2.4GHz ISM</li> <li>● Maximum Power: &lt; 10dBm(e.i.r.p.) (EU)</li> <li>● Antenna: Single Antenna</li> <li>● Distance: &gt;50m(ground)</li> <li>● 2.4G Protocol: ANT</li> <li>● Resolution: 1024</li> <li>● Data Output: PWM</li> <li>● Input Voltage Range: 3.5-9V/DC</li> <li>● Online Update: Yes</li> <li>● Temperature Range: -10°C ~ +60°C</li> <li>● Humidity Limit: 20% ~ 95%</li> <li>● Dimensions: 20.0*13.0*7.2mm</li> <li>● Weight: 3g</li> <li>● Certification: CE, FCC ID: 2A2UNR4M00</li> </ul> |
|---|---|

## 对码 Binding

本款接收机上电即自动进入对码状态，支持双向对码和单向对码，双向对码完成后发射机将显示接收机回传的信息。

**双向对码步骤:**

1. 发射机选择双向通信，然后进入对码状态；
2. 接收机上电等待两秒没有连接将自动进入对码状态 (LED 灯快闪)；
3. 接收机 LED 灯常亮，即对码成功。发射机对码成功后自动退出对码状态，对码完成；
4. 检查发射机、接收机是否正常工作。如需重新对码，请重复以上步骤。

**单向对码步骤:**

1. 发射机选择单向通信，然后进入对码状态；
2. 接收机上电等待两秒没有连接将自动进入对码状态 (LED 灯快闪)；
3. 接收机 LED 灯慢闪，即对码成功。发射机则需手动将其退出对码状态，接收机 LED 灯常亮，对码完成；
4. 检查发射机、接收机是否正常工作。如需重新对码，请重复以上步骤。

注：对码时请先将发射机进入对码状态，再将接收机进入对码状态，若十秒内对码没有完成，接收机 LED 指示灯进入慢闪状态。

The receiver will automatically enter the bind mode when it is powered on. It supports two-way binding and one-way binding. The transmitter will display the information returned from the receiver after the two-way binding is completed.

## 对码 Binding

Follow the steps below to bind in two-way binding:

1. Select [ANT 2 WAY] for RF standard of the transmitter, then put the transmitter in bind mode.
2. When the receiver is powered on and waits for two seconds, it will automatically enter the bind mode if it does not connect to the transmitter, and the LED of the receiver should be flashing.
3. When the LED of the receiver is solid on, the binding process should be complete. The transmitter exits the bind mode automatically.
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

Follow the steps below to bind in one-way binding:

1. Select [ANT 1 WAY] for RF standard of the transmitter, then put the transmitter in bind mode.
2. When the receiver is powered on and waits for two seconds, it will automatically enter the bind mode if it does not connect to the transmitter, and the LED of the receiver should be flashing.
3. When the LED of the receiver is in slow flashing state, the binding process should be completed. You need to manually put the transmitter to exit the bind mode. Then the LED of the receiver is solid on, indicating that the binding process is completed.
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

**Note:** Put the transmitter in bind mode first, then put the receiver in bind mode. If the binding is not completed within ten seconds, the LED of the receiver will enter its slow flashing state.

## 固件更新 Firmware update

本接收机固件更新需通过富斯遥控管家 (FlySkyAssistant) 完成 (仅 3.0 及以上版本支持, 富斯遥控管家固件可从官网 [www.flysky-cn.com](http://www.flysky-cn.com) 获取)。

本接收机可以通过以下两种方式进入更新:

1. 先将发射机与接收机对码后 (接收机 LED 灯常亮), 再将发射机与电脑连接, 然后在电脑端打开富斯遥控管家, 通过富斯遥控管家进行固件更新;
2. 将发射机与电脑连接, 短接接收机的 CH3 与 CH4 信号端后, 再接通接收机电源, 接收机即进入强制更新状态 (接收机 LED 灯三闪一灭), 然后在电脑端打开富斯遥控管家, 通过富斯遥控管家进行固件更新。

The firmware of this receiver is updated through the FlyskyAssistant (Only version 3.0 or above is supported). The firmware of FlyskyAssistant is available on the Flysky official website).

This receiver can be updated via the following two ways:

1. After the binding between the transmitter and the receiver (the LED of the receiver is solid on), connect the transmitter to the computer, then open the FlyskyAssistant on the computer to update the firmware.
2. Connect the transmitter to the computer, and connect the signal pins of the CH3 and the CH4. Then power on the receiver. The receiver will enter the forced update mode (the LED of the receiver operates in three-flash-one-off manner repeatedly). Open the FlyskyAssistant on the computer to update the firmware.

## 失控保护 Failsafe

失控保护功能用于在接收机失去信号不受控制后, 接收机按设置好的失控保护值进行通道输出以保护模型及人员安全。

本款接收机共支持两种失控保护模式: [无输出] 和 [有输出]

[无输出] PWM 通道接口为无输出状态;

[有输出] 输出设置的固定值。

The failsafe function is used to output the channel value according to the out-of-control protection value set by the user after the receiver loses its signal and is out of control to protect the model and personnel.

It can also be set failsafe for each channel respectively. This receiver supports two failsafe modes: [ON] and [OFF]

[OFF] It is no output for the interface of PWM.

[ON] Outputs the failsafe values set for each channel.

## 舵机响应速度 Servo Frequency

本款接收机支持在发射机端设置舵机响应速度 (舵机频率), 设置选项包括模拟、数字和其他三种类型。可根据使用的舵机选择或设置正确的输出频率值, 系统默认 [模拟舵机], [其他] 调节范围在 50-400Hz 之间。具体功能设置请参考发射机说明书。

The receiver supports to set the servo frequency via the transmitter. There are three types: Analog servo, Digital servo or Custom. You can select or set the correct output frequency value according to the servo used. By default, the system adopts the Analog servo. The Custom frequency adjustment range is 50-400Hz. Please refer to the manual of the transmitter for detailed.

## 兼容性 Compatibility

本款接收机兼容: ANT 协议发射机 (如 FS-G7P、FS-G4P 等)

The receiver is compatible with the transmitters with ANT protocol, such as FS-G7P or FS-G4P.

**ⓘ 注意事项:**

- 使用前必须确保本产品与模型安装正确, 否则可能导致模型发生严重损坏。
- 关闭时, 请务必先关闭接收机电源, 然后关闭发射机。如果关闭发射机电源时, 接收机仍然在工作, 将会导致遥控设备失控。失控保护设置不合理可能引起事故。
- 确保接收机安装在远离电机, 电子调速器或电子噪声过多的区域。
- 接收机天线需远离导电材料, 例如金属棒和碳物质。为了避免影响正常工作, 请确保接收机天线和导电材料之间至少有 1 厘米以上的距离。
- 准备过程中, 请勿连接接收机电源, 避免造成不必要的损失。

**ⓘ Attention:**

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so can result out of control. Unreasonable setting of the Failsafe may cause accidents.
- Make sure the receiver is mounted away from motors, electronic speed controllers or any device that emits excessive electrical noise.
- Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.

**认证相关 Certifications****FCC Compliance Statement**

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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

**EU DoC Declaration**

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [FS-R4M] is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address: [www.flysky-cn.com](http://www.flysky-cn.com).

**RF Exposure Compliance**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Environmentally friendly disposal**

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.



FCC ID : 2A2UNR4M00

Manufacturer: FLYSKY Technology Co., Ltd  
Address: 16F, Huafeng Building, 6006 Shennan Road, Futian District, Shenzhen

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