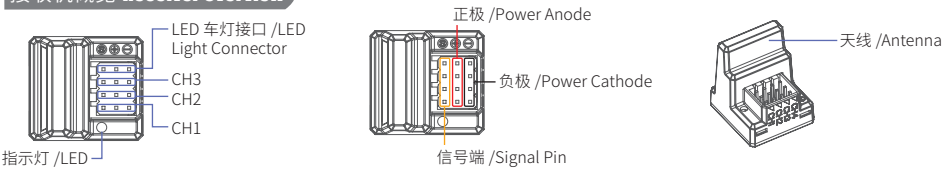
FLYSKY FS-FMS-R4P1-BS 接收机 Receiver

产品介绍 Introduction

FS-FMS-R4P1-BS 采用 2A-BS 协议，是一款带 LED 灯组控制的 4 通道接收机。它具有内置单天线，支持单向传输，采用通电自动对码技术，可输出 PWM 信号和车灯控制信号，可搭配车灯驱动板使用，可适配多种车型使用。

The FS-FMS-R4P1-BS uses the 2A-BS protocol and is a 4-channel receiver with LED light group control functionality. It features an internal single antenna, supports one-way transmission and automatic binding upon power-on. It can output PWM signals and vehicle light control signals, and can be used with an LED light unit. It is compatible with a variety of RC cars.

接收机概览 Receiver Overview



产品规格 Product Specifications

- 产品型号：FS-FMS-R4P1-BS
- 适配发射机：FS-FMS-MG44-BS
- 适配模型：车
- 通道个数：4
- 无线频率：2.4GHz ISM
- 无线协议：2A-BS
- 天线类型：内置单天线
- 遥控距离：> 150 米 (空旷无干扰地面距离)
- 车灯组数：6（LED 车灯接口连接 DB01 车灯驱动板)
- 工作电压：3.5 ~ 8.4V/DC
- 数据输出：PWM
- 温度范围：-10°C ~ +60°C
- 湿度范围：20% ~ 95%
- 防水等级：PPX4
- 固件更新：不支持
- 外形尺寸：22.6*20.6*25.5mm
- 机身重量：6g
- 认证： CE, FCC

- Product Model: FS-FMS-R4P1-BS
- Compatible Transmitters: FS-FMS-MG44-BS
- Compatible RC Model: Cars
- Number of Channels: 4
- RF: 2.4GHz ISM
- RF Protocol: 2A-BS
- Antenna: One bulit-in antenna
- Distance: More than 150m (Ground Distance without Interference)
- Number of LED Lights: 6 (The DB01 LED light unit connects to the LED light connector)
- Operating Voltage: 3.5 ~ 8.4V/DC
- Data Output: PWM
- Temperature Range: -10°C ~ +60°C
- Humidity Range: 20% ~ 95%
- Waterproof: PPX4
- Firmware Update: Not Supported
- Dimensions: 22.6*20.6*25.5mm
- Weight: 6g
- Certifications: CE, FCC

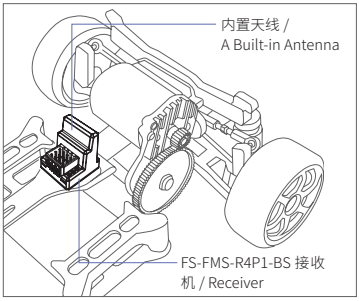
安装说明 Installation

本款接收机为内置天线，为保证信号强度，以免影响遥控距离，安装接收机时，需注意以下事项：

- 接收机天线须与模型机身保持垂直（如图所示）！
- 建议将接收机安装在模型机身位置较高的水平面上，且四周无金属遮挡。

The receiver has a built-in antenna. In order to ensure the signal strength and avoid the remote control distance affected, when installing the receiver, you need to pay attention to the followings:

- The receiver antenna must be kept perpendicular to the model body (as shown in the picture)!
- It is recommended to install the receiver on a high level surface of the model body without metal obstructions around the receiver.



对码 Binding

本款接收机通电自动进入对码状态：

- 接收机上电即进入等待连接状态，等待与已对码的发射机建立通信；
- 若 2 秒 未与已对码的发射机建立通信，则自动进入对码状态，此状态持续 10 秒；
- 若与发射机对码成功，即进入正常通信状态；否则退出对码状态，回到等待连接状态。

注：对码时，接收机 LED 灯快闪；等待连接时，接收机 LED 灯慢闪；正常通信时，接收机 LED 灯常亮。

http://www.flysky-cn.com

2.4GHz 2A-BS

对码 Binding

对码步骤如下：

2. 将发射机进入对码状态；
2. 接收机通电等待 2 秒没有连接后自动进入对码状态，此时接收机 LED 灯快闪；
3. 对码成功后 , 接收机 LED 灯常亮；
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 10 秒内对码没有完成，接收机 LED 灯进入慢闪状态。

This receiver is to automatically enter the binding mode upon power-on.

- The receiver will enter the waiting-for-connection status upon power-on, waiting for the connection to the bound transmitter.
- If the receiver does not connect the bound transmitter within 2 seconds, it will automatically enter the binding state. This state lasts for 10 seconds.
- If the binding with the transmitter is successful, it will enter the normal communication status, otherwise, it will exit the binding state and return to the waiting-for-connection status.

Note: In case of binding, the receiver LED flashes quickly. In case of waiting-for-connection, the receiver LED flashes slowly. In case of normal communication, the receiver LED is solid on.

The binding steps are as below.

1. Put the transmitter into binding mode.
2. Turn on the receiver, and it will wait 2 seconds for connection. If without connection, the receiver will enter the binding mode automatically. At this time, the receiver LED will be flashing fast.
3. After the binding is successful, the receiver LED is solid on.
4. Verify that the transmitter and receiver are working properly. If you need to re-bind, repeat the above steps.

Note: Set the transmitter to its binding state first, and then set the receiver to its binding status. If the binding is not finished within 10 seconds, the receiver LED will enter a slow flashing status.

车灯控制 LED Light Control

本接收机支持 6 组车灯：左转灯、右转灯、日行灯、前大灯、刹车灯和倒车灯（此 6 组车灯通过 DB01 车灯驱动板与本接收机建立连接）。

车灯状态由 FS-FMS-MG44-BS 发射机的相应控件控制：

日行灯和前大灯：亮灭状态由 CH4 按键控制。

刹车灯和倒车灯：亮灭状态由扳机控制。

左转灯和右转灯：默认转向灯功能为关闭状态，即使旋转手轮也不会触发左右转向灯。在正常通信情况下，可顺时针旋转手轮至最大位置，然后同时长按 CH4 按键以开启转向灯功能。继续长按 CH4 按键可关闭或开启转向灯功能。转向灯功能开启后，左转灯和右转灯的亮灭状态由手轮控制

具体如下所述：

车灯	车灯状态	控制状态	控件	触发条件	备注
左转灯	慢闪	左转	手轮	逆时针打手轮	/
右转灯	慢闪	右转	手轮	顺时针打手轮	
日行灯 前大灯	常灭 常亮	/	CH4	短按 CH4 按键	短按一下 CH4 按键日行灯亮起，接着短按一下前大灯亮起，再次短按一下日行灯与前大灯同时关闭。 操作 CH4 按键，日行灯与前大灯依此状态循环。
刹车灯	常亮	刹车	扳机	前推扳机	当电调运行模式设置为正转 / 反转模式时（无刹车），前推扳机刹车灯不亮。
倒车灯	常亮	倒车	扳机	前推扳机	/

注：

1. 接收机开机后，所有车灯常亮一秒后灭；
2. 方向通道（CH1）和油门通道（CH2）具有自动识别中位的功能 , 当调过微调后，需重新给接收机上电以完成中位自动识别；
3. 方向通道设置反向后对左、右转向灯无影响。

This receiver features six sets of LED lights: Turn signal left light, turn signal right light, daytime running light, headlight, brake light and reverse light. And these six sets of LED lights are connected to this receiver through the DB01 LED light unit.

The status of all the LED lights is controlled by the corresponding controls of the FS-FMS-MG44-BS transmitter.

The daytime running light and headlight are controlled by the CH4 button.

The brake and reverse lights are controlled by the throttle trigger.

The turn signal function is off by default; even if you rotate the steering wheel, it will not trigger the left or right turn signals. Under normal communication conditions, you can rotate the steering wheel clockwise to the maximum position, and then simultaneous long press the CH4 button to activate the turn signal function. Continue to long press the CH4 button to turn off or on the turn signal function. Once the

车灯控制 LED Light Control

turn signal function is activated, the on-off state of the left and right turn signals is controlled by the steering wheel.

Details are as follows:

LED Lights	LED Light State	State	Control	Trigger Condition	Notes
Turn Signal Left Light	Slow Flashing	Turn Left	Steering Wheel	Turn the steering wheel counterclockwise.	/
Turn Signal Right Light	Slow Flashing	Turn Right	Steering Wheel	Turn the sterring wheel clockwise.	
Daytime Running Light/ Headlight	OFF	/	CH4	Short press the CH4 button	Short press the CH4 button to turn on the daytime running light; then short press the CH4 button again to turn on the headlight; short press the CH4 button again to turn off both the daytime running lights and the headlights simultaneously. The state of the daytime running lights and headlights will cycle through the described sequence accordingly each time you operate the CH4 button.
	Solid ON				
Brake Light	Solid ON	Brake	Trigger	Push the trigger forward	When the running mode of ESC is set to Forward/Reverse mode (no brake), the Brake Light will not on when pushing the throttle trigger forward.
Back Light	Solid ON	Back up	Trigger	Push the trigger forward	/

Notes:

1. After the receiver is turned on, all the LED lights will be on for one second and then go out.
2. The steering channel (CH1)and throttle channel (CH2) are capable of automatic neutral identifying, after the trim is adjusted, the receiver should be powered again to recognize the neutral positions of these two channels automatically.
3. If you have set the steering channel in reverse, the trigger condition for turn signal left light and turn signal right light will not be affected.

失控保护 Failsafe

此功能用于当接收机无法正常收到发射机的信号不受控制时，保护模型和操作人员的安全。

- 该接收机默认未设置，失控后，无论是否设置 CH2 始终无输出，接收机其他通道保持最后输出。若已在发射机端设置，则按照设置值输出。
- 失控后，左、右车灯同步慢闪提示。

The failsafe function is used to protect the model and personnel when the receiver is out-of-control.

- By default, it is not set, after out-of-control, no matter whether is set or not, the CH2 has no output, for the other channels of the receiver will keep the last output. If it has been set at the transmitter side, the output will be according to the set value.
- When the receiver is out-of-control, the turn signal left and right lights will flash slowly for prompt.

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。
- 为了一切正常，请养成先开发射机再接收机通电以及先接收机断电再关闭发射机的习惯。
- 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.
- Normally, you must power on the transmitter and then receiver, and power off the receiver and then the transmitter.
- 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 Certification

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, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [FS-FMS-R4P1-BS] is in compliance with RED 2014/53/EU.
The full text of the EU DoC is available at the following internet address: www.flyskytech.com/info_detail/10.html

RF Exposure Compliance

This equipment complies with FCC/ISED RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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.

微信公众号 Bilibili Website Facebook

Manufacturer: ShenZhen FLYSKY Technology Co., Ltd.
Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

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