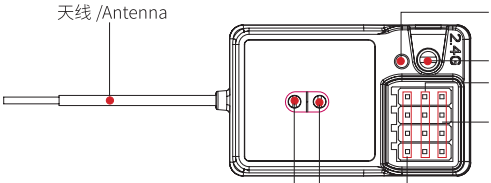
产品介绍 Introduction

FS-BS3 是一款带陀螺仪的 3 通道接收机，除接收机基本功能外，可进行 S.V.C.（Smart Vehicle Control 智能车辆控制）相关设置，实现对车辆的智能控制，即使在颠簸路况或急剧转弯时，也能够保证车辆在预期的方向急速行驶。

FS-BS3, a gyro-embeded receiver, has 3 channels. In addition to the regular functions, it can also provide a smart vehicle control (S.V.C.) function, that makes sure the car travels in the expected direction on bumpy/slippery surfaces, or during cornering.

概览 Overview



产品规格 Product specification

- 产品型号：FS-BS3
- PWM 通道：3
- 无线频率：2.4G
- 无线协议：AFHDS
- 天线类型：单天线（150mm）
- 电源：4.0-6.5V
- RSSI：不支持
- 数据接口：PWM
- 温度范围：-10°C—+60°C
- 湿度范围：20%-95%
- 在线更新：不支持
- 外形尺寸：35*22*12mm
- 机身重量：5.6g
- 认证：CE

- Product Type: FS-BS3
- PWM Channel: 3
- RF: 2.4GHz
- 2.4GHz Protocol: AFHDS
- Antenna Type: Single antenna(150mm)
- Power: 4.0-6.5V
- RSSI: NO
- Data Ports: PWM
- Temperature Range: -10°C—+60°C
- Humidity Limit: 20%-95%
- Online Update: NO
- Dimensions: 35*22*12mm
- Weight: 5.6g
- Certification: CE

对码 Binding

1. 打开发射机电源，确认或更改其 RF 标准为 [AFDHS]。具体操作方法请参见发射机使用说明书。
2. 使发射机进入对码状态。具体操作方法请参见发射机使用说明书。
3. 确认接收机未连接电源。
4. 将对码线连接到接收机上的 BIND/VCC 接口。然后将电源连接到接收机上的其他接口。接通后指示灯红色快闪，接收机进入对码状态。
5. 接收机指示灯转为红色常亮时，表示对码成功。
6. 将对码线和电源从接收机上断开。然后重新将电源线连接到 BIND/VCC 接口。
7. 检查发射机、接收机、模型是否正常工作。如有异常，重复以上步骤重新对码。

1. Turn on the transmitter, check the RF standard and if necessary, change it to [AFDHS]. For detailed instructions, refer to the transmitter's manual.
2. Set the transmitter to bind mode. For detailed instructions, refer to the transmitter's manual.
3. Make sure the receiver is powered off.
4. Connect the bind cable to the BIND/VCC port on the receiver. Then connect the power to any other ports on the receiver. The red indicator will start to flash rapidly, indicating that the receiver is in bind mode.
5. Wait till the indicator stops flashing. Once the indicator has stopped flashing, the binding process has been completed.
6. Disconnect the bind cable and power from the receiver. Then connect the power to the BIND/VCC port.
7. Check if all the servos work as expected. If anything does not work as expected, restart this procedure from the beginning.

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，保护模型及人员安全。

1. 确认接收机与发射机对码成功，并处于正常工作状态。
2. 将油门和方向调整到合适的失控保护位置，同时长按功能按键。

接收机上的红色指示灯快速闪烁后常亮，表示失控保护设置成功。

设置成功后，如果发射机和接收机信号丢失，汽车将按照所设置的油门和方向行驶。

更多操作相关信息，请参见发射机使用说明书。

This function protects the user by preventing the model from behaving unexpectedly if signal is lost.

1. Make sure the transmitter and receiver has been bound, and are working properly.
2. Adjust the throttle trigger and steering wheel to the failsafe position and then hold the FAIL SAFE KEY.
   The red indicator flashes in a pattern of five flashes and a pause, indicating the setting is finished.

After setting the fail safe position, if the receiver loses signal, the car will continue moving in the set fail safe position.

For more operation instructions, refer to the transmitter's manual.

S.V.C

S.V.C. 功能可通过油门和方向通道对车辆进行智能控制，即使在颠簸路况下或急剧转弯时，也能够保证车辆在预期的方向急速行驶。

开启 / 关闭 SVC 功能

1. 确认接收机电源未连接。
2. 将对码线连接到接收机上的 CH3 接口。
3. 长按 FAIL SAFE KEY 的同时，将电源连接到接收机上的 BIND/VCC 接口。此时红色指示灯闪烁两次后短暂熄灭，然后重复该闪烁模式，表示功能已开启或关闭。

注意：

S.V.C. 功能开启后，接收机开机后需要将其水平静置 2 秒钟，待陀螺仪完成自检后，方可正常使用。

This function has two uses, the first, is to keep the model moving in a straight line by correcting the steering, when going over bumps or slippery surfaces. The second, is to reduce throttle during cornering in order to prevent the model from spinning out and to increase the speed coming out of a turn.

Activating/Deactivating S.V.C. Function

1. Disconnect the power from the receiver.
2. Connect the bind cable to the CH3 port on the receiver.
3. Hold the FAIL SAFE KEY and then connect the power to the BIND/VCC port. Then the red indicator flashes in a pattern of two flashes, indicating the function is active.

Note:

If the S.V.C. function is active, the receiver has a 2 second startup time, during which the receiver must be placed on a level surface.

调节正逆转 Reverse Setting

接收机安装到车身以后，转动车体，观察车轮矫正方向是否正确。向左转动时，车轮应向右矫正；向右转动时，车轮应向左矫正。如车轮反向矫正，请按照以下步骤进行正逆转设置：

1. 断开接收机电源。
2. 将对码线连接到接收机上的 CH3 接口。
3. 将电源连接到接收机上的 BIND/VCC 接口。此时红色指示灯闪烁两次后短暂点亮，然后重复该闪烁模式，表示方向已调整为与当前相反的方向。
4. 再次观察车轮矫正方向，确保与预期方向一致。

After installing the receiver, rotate the car to check if the wheels turn to the correct direction. If you rotate the car to the left, the wheels shall turn right, and if the you rotate the car to the right, the wheels shall turn left. If the wheels does not respond properly, follow the steps below to reverse the direction:

1. Disconnect the power from the receiver.
2. Connect the bind cable to the CH3 port on the receiver.
3. Connect the power cable to the BIND/VCC port. Then the red indicator flashes in a pattern of two flashes and a pause, indicating the direction has been reversed.
4. Check the wheels again and make sure they move as expected.

方向油门感度设置 Steering/ throttle sensitivity setting

用于设置车辆转向时方向及油门感度的矫正比例。
数值越大，矫正就越明显。您可以通过转动接收机中部对应的旋钮来调整，逆时针转动减小数值，顺时针转动增大数值。

This is used to set the correction ratio between steering and throttle when the vehicle is turning.
The larger the value, the more obvious the correction. The adjustment is made by turning the corresponding knob in the middle of the receiver. Turn counterclockwise to decrease the value, and turn clockwise to increase the value.

兼容性 compatibility

该接收机兼容富斯 AFHDS 协议发射机，如 FS-iT4S、FS-iT4、FS-GT3C、FS-GT3B。

The receiver is compatible with the AFHDS protocol transmitter. Such as FS-iT4S、FS-iT4、FS-GT3C、FS-GT3B.

► **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，将有可能导致遥控设备失控或者引擎继续工作而引发事故。
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 may lead to unintended operation or loss of control.
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.

DoC Declaration

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [FS-BS3] 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.

CE Warning

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

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.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

FCC