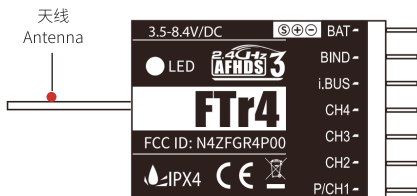


## 产品介绍 Introduction

FTr4 采用 AFHDS 3（第三代自动跳频数字系统），外置单天线双向传输，它的设计小巧，便于安装。可输出 PWM/PPM/i.BUS/S.BUS 信号。

FTr4 adopts AFHDS 3, Flysky's third-generation automatic frequency hopping digital system. It uses a single-antenna bidirectional transmission system and is uniquely designed to save space and output standard PWM, PPM, i.BUS and S.BUS signals.

## 接收机概览 Receiver overview



用于连接接收机与模型各个部件。

BAT: 给接收机单独供电。

BIND: 连接对码线。

i.BUS: 连接 i.BUS、s-BUS 信号，扩展通道，连接传感器。

CH 2 - CH 4: PWM 输出。

P/CH1: PWM/PPM 输出。

注：传感器的连接和使用方法请参发射机或传感器说明书。

Ports used to connect the receiver to the various components.

BAT: Separate power supply interface for the receiver.

BIND: For bind cable.

i.BUS: Connects to the i.BUS, s-BUS for channel expansion, Connects sensor.

CH 2 - CH 4: Output PWM signal.

P/CH1: Output PWM/PPM signals.

Note: Refer to the transmitter's or sensor's user manual for further information on how to connect and set up sensors.

## 产品规格 Product specification

- 产品型号：FTr4
- PWM 通道：4
- 无线频率：2.4GHz
- 无线协议：AFHDS 3
- 遥控距离：>1500m（空旷无干扰空中极限距离）
- 天线类型：单天线
- 输入电源：3.5-8.4V
- RSSI：支持
- 数据输出：PWM/PPM/i.BUS/S.BUS
- 温度范围：-15°C—+60°C
- 湿度范围：20 ~ 95%
- 在线更新：有
- 外形尺寸：33.7\*20\*10.7mm
- 机身重量：4.9g
- 安规认证：CE, FCC ID: N4ZFGR4P00

- Product Model: FTr4
- PWM Channels: 4
- RF: 2.4GHz
- 2.4G Protocol: AFHDS 3
- Distance: >1500m(Range without interference air distance)
- Antenna: Single Antenna
- Input Power: 3.5-8.4V
- RSSI: Yes
- Data Output: PWM/PPM/i.BUS/S.BUS
- Temperature Range: -15°C—+60°C
- Humidity Limit: 20%-95%
- Online Update: Yes
- Dimensions: 33.7\*20\*10.7mm
- Weight: 4.9g
- Certification: CE, FCC ID: N4ZFGR4P00

## 对码 Binding

1. 将对码线插入 BIND 接口；
2. 将电源线插入其他任意接口，接收机指示灯快闪表示进入对码状态；
3. 将发射机进入对码状态；（发射机进入对码状态的方式可能不同，请根据发射机的使用说明书进行操作）
4. 当接收机指示灯变为常亮时，对码成功。将对码线和电源线从接收机上取下。
  - 若发射机是单向，则当接收机指示灯慢闪时手动退出发射机，指示灯常亮，表示对码成功。
  - 对码成功后请将对码线取下，否则重新上电时将再次进入对码状态。在模型使用过程中若发生电源重启，这将导致模型失控。
5. 将电源线重新连接至接收机，接收机指示灯常亮表示对码成功；
6. 检查发射机、接收机、模型是否正常工作。如需重新对码，请重复以上步骤。

1. Insert the bind cable into the receivers BIND port.
2. Plug the power cable into any other port, and the receiver's LED will start to flash quickly indicating that it has entered bind mode.
3. Put the transmitter into bind mode.(See the transmitter's instruction manual for more information)

## 对码 Binding

4. Binding is successful when the receiver's LED stop flashing. Remove the power and bind cables from the receiver.
  - If the transmitter is one-way transmission, manually exit the transmitter when the receiver status indicator flashes slowly, Binding is successful when the receiver's LED stop flashing.
  - Remove the bind cables from the receiver, Otherwise when reconnect the power cable to the receiver, it will binding again. Reconnect the power cable to the model during using it will causing the model run out of control.
5. Reconnect the power cable to the receiver.
6. Check to make sure that the transmitter and receiver are working as expected, if there are any issues or unexpected operation follow the steps above to bind again.

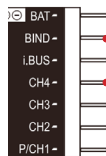
## 强制更新 Forced update

发射机在更新完后，如无法与接收机对码，需强制更新接收机。

1. 用对码线将 CH4 与 BIND 短接（如右图）；
2. 在发射机端选择接收机更新并进入更新状态；
3. 当接收机指示灯由快闪变为慢闪时表示强制更新成功。

If after an update the transmitter is unable to connect or bind to the receiver, it is necessary to put the receiver into forced update mode

1. Insert the bind cable and CH4 as shown to short the pins and enter forced update mode. (such as the picture on right).
2. Then go to the RX Setup menu and select RX update as normal.
3. updating is successful when the receiver status indicator flashes slowly.



Insert the bind cable as shown to short the pins and enter forced update mode.

## 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。

请在发射机端设置失控保护，设置方法请参照对应的发射机说明书。

- 当接收机重新对码后，接收机失控保护将恢复默认

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

Make sure to setup the failsafe function on the transmitter. For more information on setting up the failsafe refer to the transmitter's user manual.

- When a receiver has been rebound to the transmitter the failsafe function will reset to its default settings.

## 兼容性 Compatibility

该接收机兼容 PL18、NB4 发射机，兼容 FRM302 高频头。

The receiver is compatible with PL18, NB4 and FRM302.

### ► 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.

### EU DoC Declaration

Hereby, [Flysky Technology co., ltd] declares that the Radio Equipment [FTr4] 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 : N4ZFGR4P00