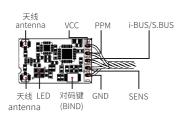


产品介绍 Introduction

FTr16S 是一款专用干穿越机的双天线双向传输接收机,采 用了 AFHDS 3 协议。它体积小巧便于安装,可输出标准 PPM 信号和 i-bus/s.bus 信号。

The FTr16S is a double antenna bidirectional receiver using the AFHDS 3 protocol. It's compact, easy to install and can output using a standard PPM or i-bus/s.bus signal.

妾收机概览 Receiver overvie



GND 测试点 GND Test SolderTerminal

> 强制更新触点 Manual Update Solder Terminal

用干连接接收机与模型的各个部件。

VCC: 电源电压为 3.5~8.4V。

PPM 信号接口:输出标准的 PPM 信号。

i-bus/s.bus 信号接口:用于输出 i-bus/s.bus 信号。

SENS: 传感器。 GND: 连接地线。

注:接收机将 RSSI 数据转换成 CH14 通道值通过 i-BUS/S.BUS 输出 给飞控,信号强度为0时对应通道值为1000,信号强度为100时对 应通道值为 2000,线性对应相关。

These ports connect the receiver to various models, component's and flight controllers

VCC: Power supply voltage from 3.5 - 8.4V.

PPM signal port: Outputs standard PPM signal.

i-bus/s.bus signal port: Outputs i-bus/s.bus signal.

SENS: Sensor

GND: Connect to ground wire.

Note: When Channel 14 on the receiver is set to RSSI data output via i-Bus/S.Bus to the transmitter. Signal strength is indicated on the transmitter screen under the Channel 14 output bar with the number 1000 being the equivalent of the lowest signal strength and 2000 being the highest signal strength.

产品规格 Product specification

产品型号: FTr16S

适配发射机: 所有支持 AFHDS3 的发射机 (PL18、

NB4、NB4 Lite 等) 适用机型:穿越机 PPM 通道: 8 个

无线频率: 2.4G 无线协议: AFHDS 3 天线类型:双天线(ipex4)

输入电源: 3.5~8.4V 数据输出: 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: 20*12*3.1mm

机身重量: <2g

安规认证: CE, FCC ID: N4ZFTR16S00

Product Model: FTr16S

Adaptive transmitter: all transmitter supporting AFHDS3 (PL18, NB4, NB4 Lite, etc.)

Model Type: Racing Drone

PWM Channels: 16

 RF: 2.4GHz Protocol: AFHDS 3

· Antenna: Dual Antenna(ipex4)

Input Power: 3.5-8.4V

Data Output: PPM/i-bus/s.bus Temperature Range: -15°C-+60°C

Humidity Limit: 20%-95%

Online Update: Yes

Dimensions: 20*12*3.1mm

Weight: <2g

Certification: CE, FCC ID: N4ZFTR16S00

- 1. 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)
- 2. 按住接收机对码键同时接通电源, LED指示灯绿色快闪即进入对码状态;
- 接收机对码成功后,LED指示灯绿色常亮,即可与发射机正常通信;
- 当对码的发射机是单向模式进入对码状态时,接收机收到对码信息后指示灯慢闪;然后手动将发射机退出对码状态;接收 机指示灯变为常亮表示对码成功:
- 接收机未对码或者掉码后, LED指示灯红色慢闪;
- 接收机发生硬件错误时,LED指示灯红色常亮。
- 3. 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. First put the transmitter into bind mode (see the transmitter's user manual for instructions on how to activate bind mode.)
- 2. Press receiver's bind key and connect the receiver to power at the same time. The receiver's green LED will start to flash quickly indicating that it has entered bind mode.







对码 Binding

- When the receiver's green LED stops flashing the transmitter and receiver have successfully bound.
- If a transmitter that has had its radio frequency (RF Standard) set to "AFHDS3 1 way" (please refer to your transmitter user manual) enters bind mode, the receiver LED will instead flash slowly. Exit bind mode on the transmitter and if the receiver LED stops flashing and is on continuously, the binding process is complete.
- When the receiver's red LED flash slowy indicating losing signal.
- · If there is a critical hardware error the LED will remain red.
- 3. 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。

- 用镊子或其他金属导体短接概览图中的"强制更新触点"和"GND测试点"同时给接收机上电,指示灯红绿慢闪进入强制更新状态;
- 2. 更新过程中指示灯红绿快闪;
- 3. 更新完成指示灯红灯慢闪。

If the transmitter is unable to bind with the receiver after a firmware update was performed on the transmitter, a manual firmware update will need to be performed on the receiver following the steps below.

- Use a pair of metal tweezers or other sharp metal objects to perform a short between the "Manual Update" solder pad/terminaland the "GND Test" solder pad/terminal (refer to picture below) while powering up the receiver. The receiver is in Manual Update status if the LED light alternates between red and green.
- 2. Manual Update is in progress if the LED light flashes rapidly in red.
- 3. Manual Update has been complete if the LED light flashes slowly in red.

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。

若发射机未设置失控保护通道值输出,接收机在进入失控保护状态后无输出;若发射机设置了失控保护,则按照发射机通道值设置输出。

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

If the transmitter is not set to output the failsafe channel value, the
receiver will have no output after entering the failsafe state; if the
transmitter is set to failsafe, the output will be set according to the
transmitter channel value.parameters during signal lost.

兼容性 Compatibility

该接收机兼容所有 AFHDS3 的发射机和高频头(主要包括 PL18、NB4、NB4 Lite、FRM302 等).

The FTr16S receiver is compatible with all AFHDS 3 transmitters and RF modules (including PL18, NB4, NB4 Lite, FRM302 etc.)

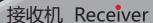
注意事项:

- 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。
- 此接收机的接收信号的距离比回传距离远,当超出回传距离后,部分发射机会有报警提示,此为正常现象。此报警提示音部分发射机可以通过设置发射机关闭,如Paladin (PL18)。

► 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.
- The receiver can receive at distances further than it can transmit from. When the receiver goes out of its transmission range, some transmitter's will sound the lost signal alarm. This is normal, the lost signal alarm can be turned off in the settings for transmitters such as the Paladin (PL18).







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 the true forest the following reception. 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 [FTr16S] 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 ID: N4ZFTR16S00

