

使用说明书
USER MANUAL

FS-X6B

注意事项！

开始操作前请务必阅读以下安全信息！

- 请不要在夜晚或雷雨天气使用本产品，恶劣的天气环境有可能导致遥控设备失灵。
- 请不要在能见度有限的情况下使用本产品。
- 请不要在雨雪或有水的地方使用本产品。如果有液体进入到系统内部，可能会导致运行不稳定或设备失灵。
- 信号干扰可能导致设备失控。为保证您和他人的安全，请不要在以下地点使用本产品：



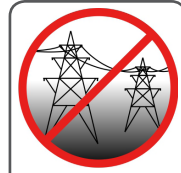
基站附近或其他无线
电活跃的地方



人多的地方或道路附
近



有客船的水域



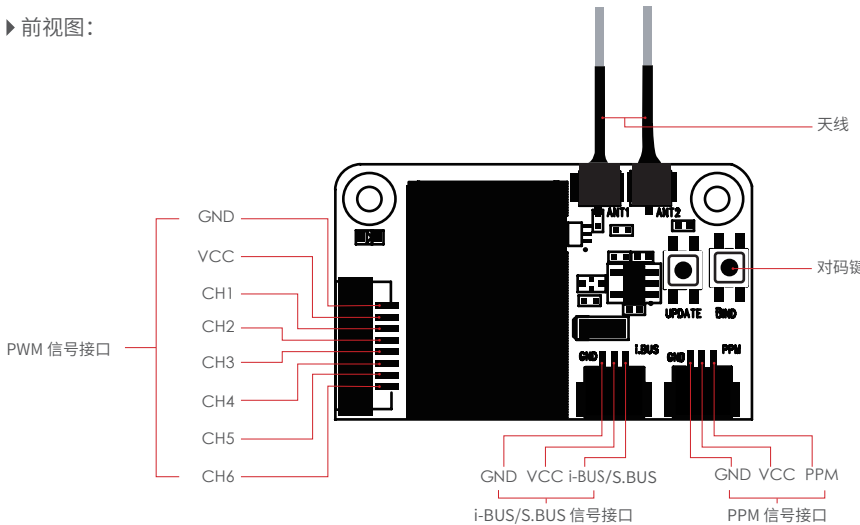
高压电线或通信广播
天线附近

产品介绍

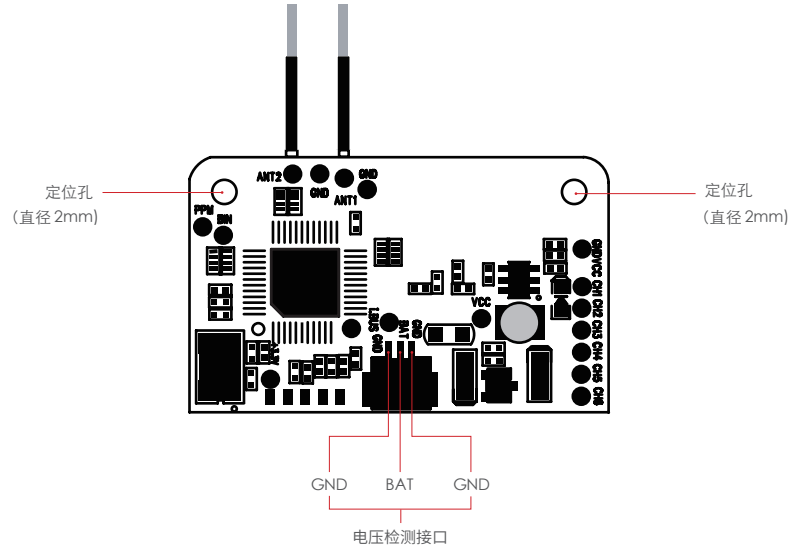
FS-X6B 是一款专用于多旋翼飞机的双向接收机，采用了 AFHDS 2A（第二代增强版自动跳频数字系统）并使用全向双天线，具有超强的抗干扰能力。它体积小巧便于安装，还拥有丰富的接口，可支持 6 个通道的 PWM 信号、一个标准的 PPM 信号和 18 个通道的 i-BUS 信号输出,16 通道的 S.BUS 输出及电压检测功能。

接收机概览

► 前视图：



► 后视图：



► 接口

用于连接接收机与模型的各个部件。

PWM 信号接口：输出 1-6 通道的 PWM 信号。

PPM 信号接口：输出标准的 PPM 信号。

i-BUS/S.BUS 信号接口：输出 i-BUS/S.BUS 信号。

电压检测接口：检测接收机外部的电源电压，可连接 1S-4S 电源，检测范围在 0-18V 内。

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。

► 对码

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. 按住接收机上的对码按键，并为接收机连接电源。接收机上的指示灯快闪表示接收机进入对码状态。
 - 对码成功后，发射机自动退出对码界面，此时接收机指示灯停止快速闪烁变为常亮。
3. 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。

► 失控保护

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。

- 若发射机未设置失控保护通道值输出，接收机在进入失控状态后所有接口保持最后输出；若发射机设置了失控保护，则按照发射机通道设置输出。

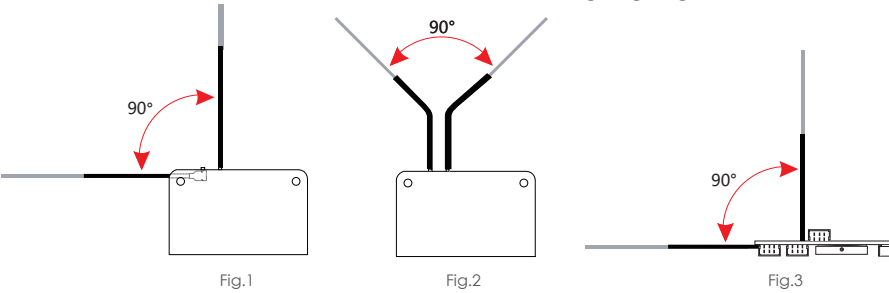
- ⚠ 关闭时，请务必先关闭接收机电源，然后关闭发射机。如果关闭发射机电源时接收机仍然在工作，将有可能导致遥控设备失控或者引擎继续工作而引发事故。

操作前准备

请结合模型飞机的结构选择合适的位置安装接收机，以确保接收机的性能和遥控距离的稳定，并防止外界干扰。

⚠ 安装过程中请注意以下事项：

1. 准备过程中，请勿连接接收机电源，避免造成不必要的损失。
2. 确保接收机安装在远离电机、电子调速器或电气噪声过多的区域。
3. 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，请确保接收器和导电材料之间至少有 1 厘米以上的距离。
4. 为保证信号质量，请将接收机两根天线 90 度垂直放置（如 Fig.1, Fig.2, Fig.3 所示）。

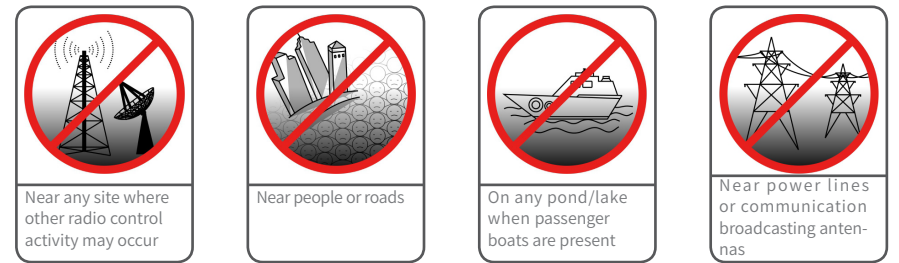


规格参数

产品型号	FS-X6B
适合机种	多轴飞行器
无线频率	2.4GHz
无线协议	AFHDS 2A
天线类型	双天线
输入电源	4.0-8.4V
数据输出	PPM/PWM/i-BUS/S.BUS
温度范围	-15°C -60°C
湿度范围	20%-95%
在线更新	有（无线更新）
机身重量	4.5g
外形尺寸	36*22*7.5mm
认证	CE, FCC ID: N4ZX6B00

Precautions!

- Read the safety messages listed below before operation!
- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It can cause erratic operation or loss of control.
 - Do not use the product when visibility is limited.
 - Do not expose the product to rain or snow. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.
 - Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:

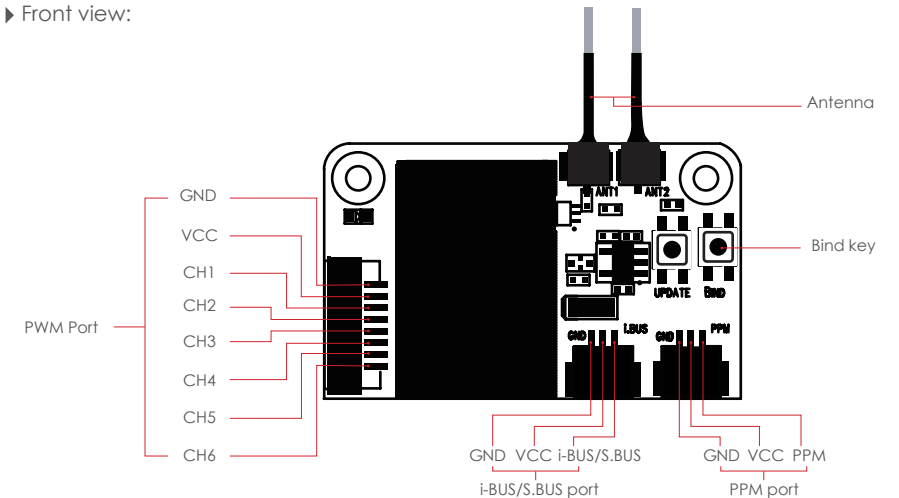


Product Introduction

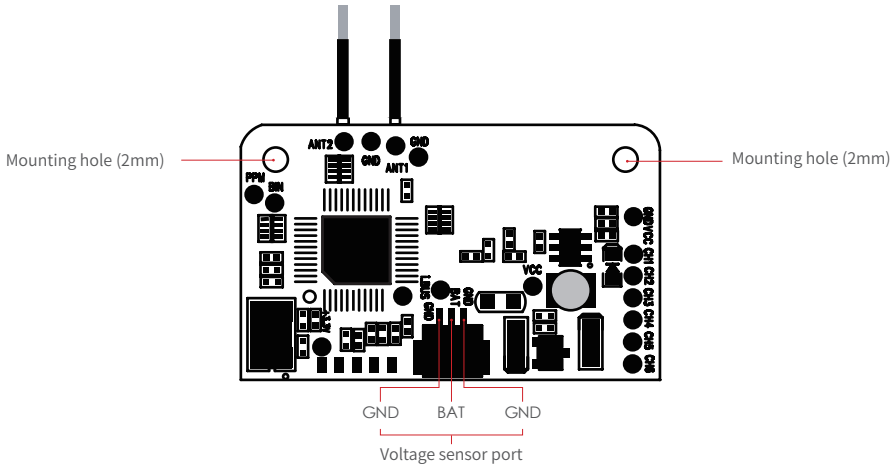
The FS-X6B is a 6 channel two-way receiver designed for multi-rotor aircraft. It uses the AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation) protocol with dual omnidirectional antennas for superior noise reduction. It's compact, easy to install and boasts a rich and easy to use interface. It also supports 6 channel PWM output, standard 8 channel PPM output and can use up to 18 channel using i-BUS,It also can use up to 16 channel using S.BUS.

Receiver Overview

► Front view:



► Rear view:



► Ports:

These ports are for connecting the receiver to various models and flight controllers.

PWM port: Outputs channels 1-6 PWM.

PPM port: Outputs 8 channel standard PPM signal.

i-BUS/S.BUS port: Outputs i-BUS/S.BUS signal.

Voltage sensor port: External power sensor (1S-4S connector) +0 to +18V.

Note: The receiver uses CH14 for output of RSSI data to the onboard flight controller via i-BUS/S.BUS. The receiver signal strength data from the onboard flight controller will be displayed as values between 0 and 100 (100 being max signal strength) and the corresponding values displayed on CH14 on the transmitter will be 1000 and 2000 (2000 being max signal strength).

► Binding

- To prepare the transmitter for binding information refer to your transmitter's user manual.
- Power on the receiver while holding the bind button. If the receiver's LED is flashing it has entered bind mode.
 - After the successfully binding, the transmitter will automatically return to the previous menu. If binding is successful the receiver's LED will stop flashing and remain solid.
- Check if all the model and receiver work as expected. If anything does not work as expected, restart this procedure from the beginning.

► Failsafe

This function protects your vehicle by preventing unexpected behaviors in case of signal lost.

- If the transmitter is not set with failsafe channel value output, all interfaces of the receiver will keep the final output after entering failsafe state; If the transmitter is set with failsafe mode, the output will be set according to the transmitter channel.

! Make sure to disconnect the receiver battery before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.

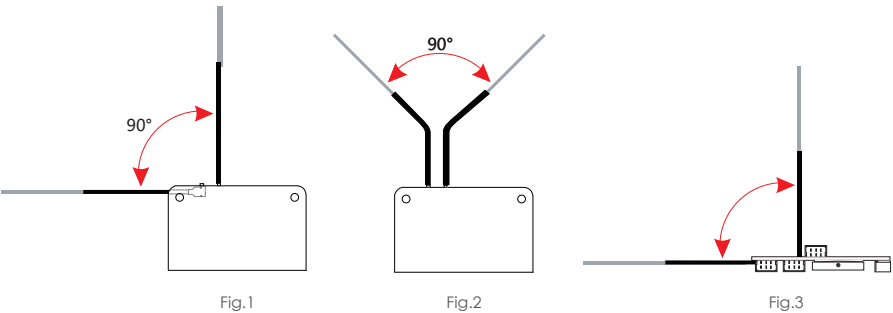
Before use

Make sure that you find an appropriate location to mount the receiver in order to ensure good performance, stability and prevent outside interference.



Installation:

- Do not power on the receiver during the setup process to prevent 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 away from conductive materials such as carbon or metal. To ensure normal function make sure there is a gap of at least 1cm between the antenna and the conductive material.
- Ensure that the two antennas are mounted at 90 degrees to each other, as shown in Fig.1, Fig.2, Fig.3.



Specifications

Product Name	FS-X6B
Model Type	Multi-Rotor
RF	2.4GHz
Protocol	AFHDS 2A
Antenna	Dual Antenna
Data Output	PPM/ PWM/ i-BUS/S.BUS
Power input	4.0-8.4V
Temperature Range	-15°C—+60°C
Humidity Range	20%-95%
Online Update	Yes (Wireless)
Weight	4.5g
Size	36*22*7.5mm
Certification	CE, FCC ID: N4ZX6B00