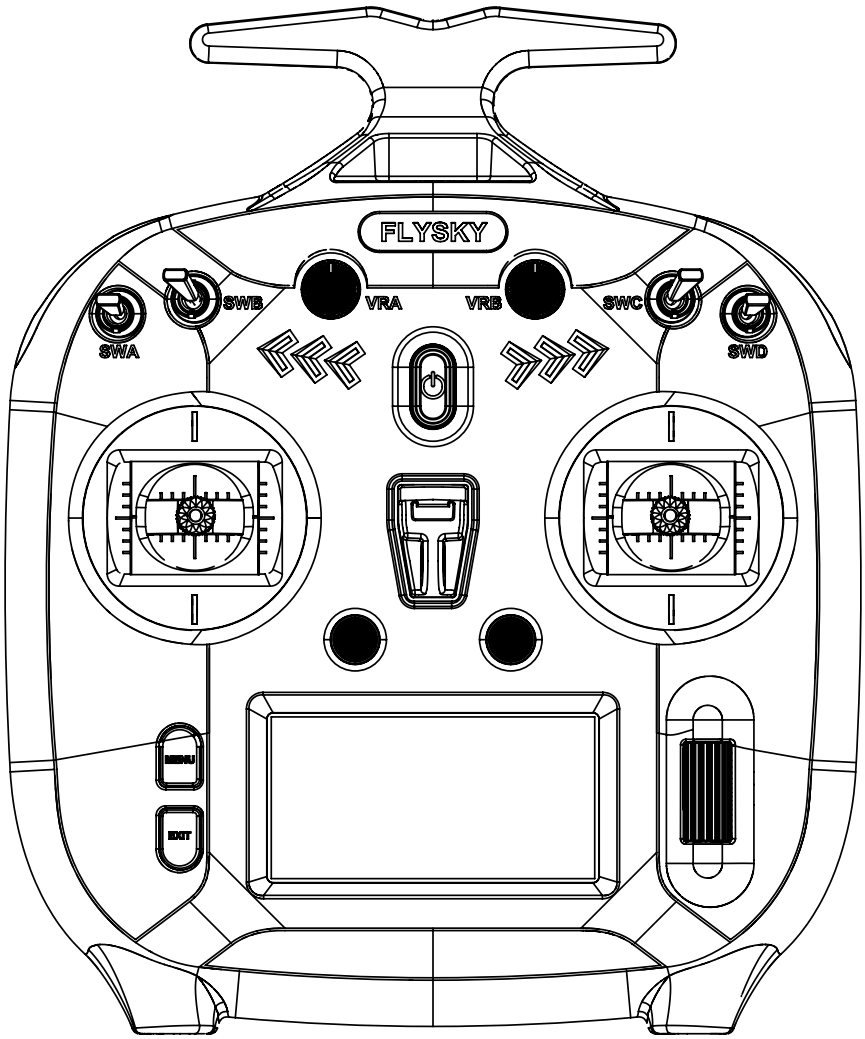
Quick Start Guide
快速操作指南

FS-ST8



Http://www.flysky-cn.com

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Thank you for purchasing the products of Flysky! To find out more about our products, visit our website at www.flysky-cn.com. If you encounter any problems during using, please refer to the manual first. If the problem is still not resolved, contact your local dealer directly or contact the customer service staff via Flysky official website.

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:



Near any sites where other radio control activity may occur



Near people or roads



On any pond/ lake when passenger boats are present



Near power lines or communication broadcasting antennas

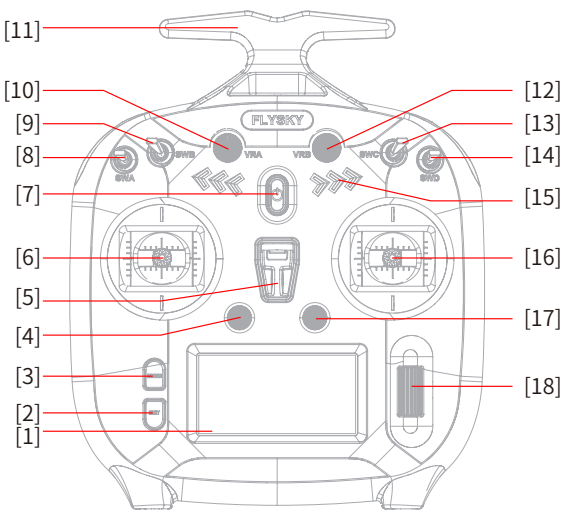
- Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.
- The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large can block the RF signal and lead to loss of control.
- Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause loss of control.

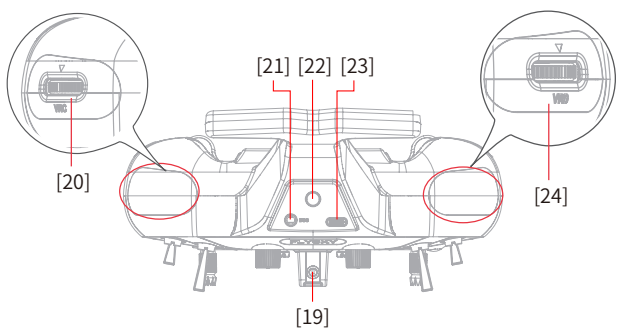
- Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine or motor, may be very hot and can cause serious burns.
- Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Make sure that the receiver's battery is disconnected before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.
- Ensure that all motors operate in the correct direction. If not, adjust the direction first.
- Make sure that the model stays within range in order to prevent loss of control.

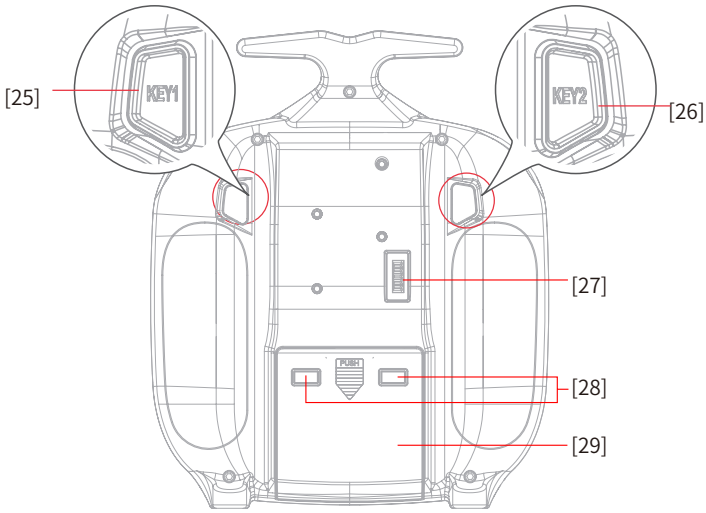
CAUTION!

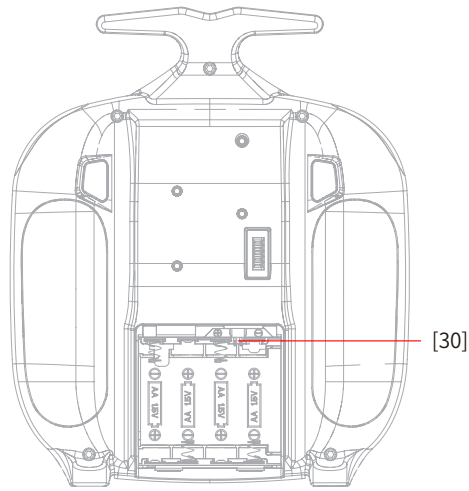
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Transmitter Overview









[1]	Display	[16]	Right Stick
[2]	EXIT Button	[17]	T3/T4 Trim Button
[3]	MENU Button	[18]	Scroll Wheel
[4]	T1/T2 Trim Button	[19]	A Hole for Fixing the Cell Phone Holder
[5]	Neck Strap Hook	[20]	VRC Knob(For upgraded version)
[6]	Left Stick	[21]	Trainer Jack （3.5mm audio head）
[7]	⏻ (Power Switch)	[22]	A Reserved Hole for SMA Antenna
[8]	SWA Two-position Switch	[23]	Type-C Port
[9]	SWB Two-position Switch	[24]	VRD Knob(For upgraded version)
[10]	VRA Knob	[25]	KEY1 Button(For upgraded version)
[11]	Carrying Handle	[26]	KEY2 Button(For upgraded version)
[12]	VRB Knob	[27]	Stealth I/O RF interface
[13]	SWC Three-position Switch	[28]	A Reserved Hole for XT30 Cable
[14]	SWD Two-position Switch	[29]	Battery Compartment
[15]	LED Indicator	[30]	JST Jack

Basic Operations of the Transmitter

Install the AA Battery

Follow the steps below to install the AA batteries:

1. Open the battery compartment cover as illustrated.

2. Insert 4 fully-charged AA batteries into the compartment. Make sure that the batteries are well set according to the polarities marked on the battery compartment.
3. Replace battery compartment cover.

Install the Lipo Battery

Follow the steps below to install the lithium batteries:

1. Open the battery compartment cover.
2. Insert 2S fully-charged lithium batteries into the compartment.
3. Plug the cables of lithium batteries into the JST Jack.Make sure to connect correctly according to the polarities marked on the battery compartment.
4. Replace battery compartment cover.

Notes:

Additionally, you can connect a USB cable with C interface to the Type-C port to supply power for the transmitter.

1. if the transmitter has installed the AA battery or lithium battery, at the time, when you connect a USB-C cable to the Type-C port, the supply power by Type-C port for the transmitter is preferred.
2. It is recommended to use AA battery or lithium battery to supply power for the transmitter.

Power on

Follow the steps below to turn on the transmitter:

1. Check to make sure that the batteries are fully charged and installed correctly.
2. Press and hold **Power Switch** until the LED indicator is solid on and FLYSKY logo displays on the LCD screen, indicating that the transmitter has powered on.

Note: If SWA/SWB/SWC/SWD switches are not at their high positions and the throttle stick is not at its low position when the transmitter is powered on. A pop-up menu will appear to remind you to put these switches and the throttle stick to the proper positions. The transmitter will launch after these switches and the throttle stick are at proper positions.

Binding

The transmitter and the receiver have been pre-bound before delivery. If you are using another receiver, follow the steps below to bind the transmitter and the receiver. The transmitter supports two-way binding and one-way binding, and two-way binding is the default setting. The transmitter will display the information returned from the receiver after the two-way binding is completed.

1. Turn on the transmitter, then press **MENU** to enter the main menu.
2. Scroll the **Scroll Wheel** to navigate to the **RX SETUP** and press the **Scroll Wheel** to enter **RX SETUP** menu. Then scroll the **Scroll Wheel** to navigate to the **BIND** and press the **Scroll Wheel** to enter. Scroll the **Scroll Wheel** to navigate to the **START** and press the **scroll wheel** to put the transmitter into bind mode.
3. Put the receiver into bind mode.
4. The binding process is completed when the LED of the receiver stops flashing and is solid on.
5. Check to make sure the transmitter and receiver are working correctly, if there are any issues or unexpected operation arise, follow the steps above to bind again.

Notes:

1. If the transmitter that has its radio frequency set to **1WAY** enters bind mode, the LED of the receiver will be in slow flashing state. You need to put the transmitter to exit bind mode manually and if the LED of the receiver stops flashing and is solid on, indicating that the binding is completed.
2. The bind mode may vary according to the receiver model. Visit the Flysky official website to check the receiver manual or other relevant information.

Stick Calibration

To calibrate the maximum/minimum range of the sticks. The transmitter is calibrated before leaving the factory, however if recalibration is required, please follow the steps as below:

1. Enter the **Stick Calibration** interface, push/pull the **Sticks** to their central position according to the prompt. Then scroll the **Scroll Wheel** to navigate to the START and press the **Scroll Wheel** to continue.
2. Push/pull the **Sticks** to their maximum or minimum endpoint. Then scroll the **Scroll Wheel** to navigate to the **CALIBRATION** and press the **Scroll Wheel** to start. When the calibration is completed successfully, a pop-up interface appears to hint the calibration is successful. If the calibration is failure, scroll the **Scroll Wheel** to navigate to the **REPEAT** and press the **Scroll Wheel** to repeat the steps above. Choose **CANCEL** to exit the interface.

Failsafe

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

For i-BUS/PPM/PWM. It can be set to **NOT SET**, **ON** or **OFF**.

OFF It is no output for the interface of PWM.

NOT SET Failsafe is not set.

ON CH1-CH8 are respectively set with a fixed failsafe value. By default, this value is the reading of current channel output value. You can toggle the corresponding control to the desired position and hold it. After pressing **EXIT** to return, the setting is saved.

Notes:

1. For bus signal types such as PPM/i-BUS/S.BUS, a single or several of these channels are not allowed to be in **OFF** mode. The actual signal is held at the last output value when the channel is set to **OFF**.
2. Because the S.BUS signal information contains failsafe flag bits, the failsafe settings of each channel are communicated to subsequent devices by the failsafe flag bits. If the connected devices support the failsafe flag bit analysis, the failsafe values set for each channel are output after out of control.
3. For the signal PPM/i-BUS without failsafe flag bits, it supports the setting of the signal to **OFF** mode in case of out of control. After setting to **OFF** mode, regardless of the setting of the failsafe of each channel, each channel will be in **OFF** mode after out of control. The failsafe function has no default set at

the factory and as such must be set manually.

4. If no failsafe setting has been set, then the receiver will not output anything when signal is lost.

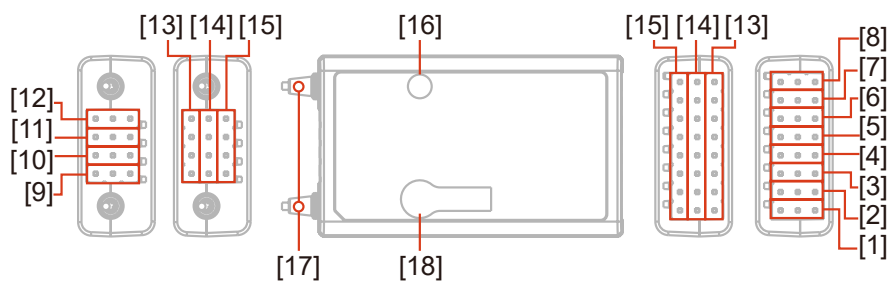
Power Off

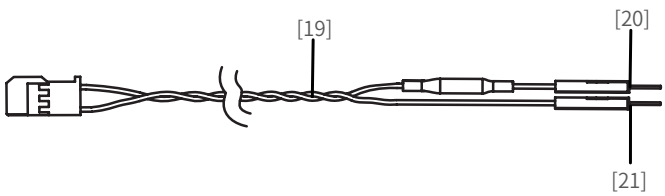
Follow the steps below to turn off the transmitter:

1. Turn off the receiver first.
2. Press and hold **Power Switch** until the screen turns off, indicating that the transmitter is powered off. After the transmitter is powered off, please wait for 3 seconds before turning it on again.

Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so can result out of control. Unreasonable setting of the Failsafe may cause accidents.

Receiver Overview





[1] CH1 interface
[2] CH2 interface
[3] CH3 interface
[4] CH4 interface
[5] CH5 interface
[6] CH6 interface
[7] CH7 interface
[8] CH8 interface
[9] BIND interface

[10] BVD/VCC(Battery voltage detection/
Power supply interface)
[11] SENS interface
[12] SERVO/S.BUS interface
[13] - (Power cathode)
[14] + (Power anode)

[15] Signal pin
[16] LED
[17] Antenna
[18] BIND button
[19] BVD harness
[20] Connect to battery positive pole
[21] Connect to battery negative pole

Note: The range of BVD voltage detection is from 0 to 70V.

Basic Operations of the Receiver

Interface Introduction

CH1~CH8: Outputs PWM signal (Additional, CH1 can output PPM signal). Can be connected to the servos, or other compatible components.

BVD/VCC: During the battery voltage detecting process, a BVD harness is connected to this interface. During normal operation, the power cable is plugged into this interface.

BIND interface: During the binding process, a bind cable is connected to this interface.

SENS interface: For connecting i-BUS sensors.

SERVO interface: To output i-BUS or S.BUS signal.

Binding the Receiver With the Transmitter

The receiver supports two -way binding and one-way binding. The transmitter will display the information returned from the receiver after the two-way binding is completed.

Follow the steps below to bind in two-way binding:

1. Select **2 WAY** for RF standard of the transmitter, then put the transmitter into bind mode.
2. The receiver supports three ways to enter bind mode: BIND button binding, bind cable binding and BIND button binding after power-on.
    - BIND button binding: Press and hold the **BIND** button of the receiver while powering on the receiver, tthe LED of the receiver should be flashing, indicating that the receiver is in bind mode. Then release the **BIND** button.
    - Bind cable binding: Insert the bind cable to the BIND interface of the receiver, then power on the receiver. The LED of the receiver should be flashing, indicating that the receiver is in bind mode. Note that you need to remove the bind cable from the receiver

after the binding process is completed.

- BIND button binding after power-on: The receiver has not been connected to the transmitter when it is powered on. Press and hold the **BIND** button for 3 seconds, the LED of the receiver should be flashing, indicating that the receiver is in bind mode. Then release the **BIND** button.

3. When the LED of the receiver is solid on, the binding process should be completed. The transmitter exits the bind mode automatically.
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

Follow the steps below to bind in one-way binding:

1. Select **1 WAY** for RF standard of the transmitter, then put the transmitter into bind mode.
2. Put the receiver into bind mode (Refer to the description above for entering bind mode).
3. When the LED of the receiver is in slow flashing state, the binding process should be completed. You need to manually put the transmitter to exit the bind mode. Then the LED of the receiver is solid on, indicating that the binding is completed.
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

Note: Put the transmitter in bind mode first, then put the receiver in bind mode. If the binding is not completed within ten seconds, the LED of the receiver will enter its slow flashing state.

Updating the Firmware of the Receiver

The firmware of this receiver can be updated through the FlyskyAssistant (Only version 3.0 or above is supported. The firmware of FlyskyAssistant is available on the Flysky official website).

This firmware can be updated via the following two ways:

1. After the binding between the transmitter and the receiver (the LED of the receiver is solid on), connect the transmitter to the computer, then open the FlyskyAssistant on the computer to update the firmware.
2. Connect the transmitter to the computer. Then put the receiver to enter the forced update mode by referring to the following three ways (The LED of the receiver operates in three-flash-one-off manner repeatedly). Afterwards, run the FlyskyAssistant on the computer to update the firmware.
    - Power on the receiver while pressing and holding the **BIND** button for more than ten seconds, until the LED of the receiver operates in three-flash-one-off manner repeatedly, then release the **BIND** button.
    - Power on the receiver first, then press and hold the **BIND** button for more than ten seconds, when the LED of the receiveroperates in three-flash-one-off manner repeatedly, then release the **BIND** button.
    - Connect the bind cable to the signal pins of the **BIND** and **SENS**, then power on the receiver.

Failsafe of the Receiver

This receiver supports two failsafe modes: **ON** and **OFF**. You can set it at transmitter side. Please refer to Failsafe in the previous description.

Attentions:

- 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 can result out of control. Unreasonable setting of the Failsafe may cause accidents.
- 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.

Specifications

- **The Specifications of the Transmitter**
  - **Product Name**: FS-ST8
  - **Adaptive Receiver**: Receivers with ANT protocol,such as FS-SR8
  - **Adaptive Models**: Fixed-wing aircraft, Helicopters, Gliders, Delta-wing airplanes, Multicopters, Racing drones, Engineering vehicles, Robots, Cars or Boats, etc.
  - **Number of Channels**: 8-10
  - **RF**: 2.4GHz ISM
  - **Maximum Power**: < 20dBm (e.i.r.p.) （EU）
  - **2.4G Protocol**: ANT
  - **Resolution**: 4096
  - **Low Voltage Alarm**: AA battery: <4.2V/ Lipo battery: <7.2V
  - **Data Output:** PWM/PPM/i-BUS/S.BUS
  - **Antenna:** Built-in two antennas
  - **Battery:** 1.5AA*4/2S Lipo
  - **Distance**: >1000m (Air distance without interference)
  - **Display:** 128*64 LCD (Black and white dot matrix screen)
  - **Online Update**: Yes
  - **Temperature Range**: -10°C ~ +60°C
  - **Humidity Limit**: 20% ~ 95%
  - **Color:** Black
  - **Dimensions**: 176*210.9*82.5mm
  - **Weight**: 420g
  - **Charging Jack:** NO
  - **Certifications**: CE, FCC ID: N4ZST800
  - **Languages:** Chinese, English

- **The Specifications of the Receiver**
  - **Product Name**: FS-SR8
  - **Adaptive transmitter**: FS-ST8 (Adapts transmitter with ANT protocol)
  - **Adaptive Models**: Fixed-wing aircraft, Helicopters, Gliders, Delta-wing airplanes, Multicopters, Racing drones, Engineering vehicles, Robots, Cars or Boats, etc.
  - **Number of Channels**: 8
  - **RF**: 2.4GHz ISM
  - **Maximum Power**: < 20dBm (e.i.r.p.) （EU）
  - **2.4G Protocol**: ANT
  - **Resolution**: 4096
  - **Antenna**: Two antennas
  - **Distance**: >1000m(Air distance without interference)
  - **Input Power**: 3.5~9V/DC
  - **Data Output**: PWM/PPM/i-BUS/S.BUS
  - **Online Update**: Yes
  - **Temperature Range**: -10°C ~ +60°C
  - **Humidity Limit**: 20% ~ 95%
  - **Dimensions**: 44.8*26.6*11.3mm
  - **Weight**: 10g
  - **Certifications**: CE, FCC ID: 2A2UNSR800

Certifications

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 [FS-SR8] and [FS-ST8] are 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.

RF Exposure Compliance for the Receiver

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.

SAR

The maximum SAR value is 2.57W/kg when the equipment used 5mm close to user.



CE

FCC ID: N4ZST800
FCC ID: 2A2UNSR800

Figures and illustrations in this manual are provided for reference only and may differ from actual product appearance. Product design and specificatiions may be changed without notice.

感谢您购买富斯公司的产品!欲知更多产品信息,请浏览以下官方网站:www.flyskytech.com. 如果您在使用中遇到任何问题,请先查阅发射机使用说明书。如果问题仍未得到解决,请直接联系当地经销商或者访问官网联系客服人员。

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



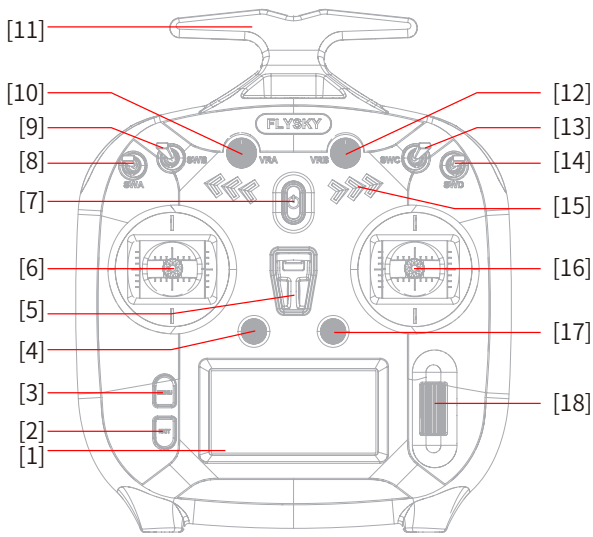
高压电线或通信广播天线附近

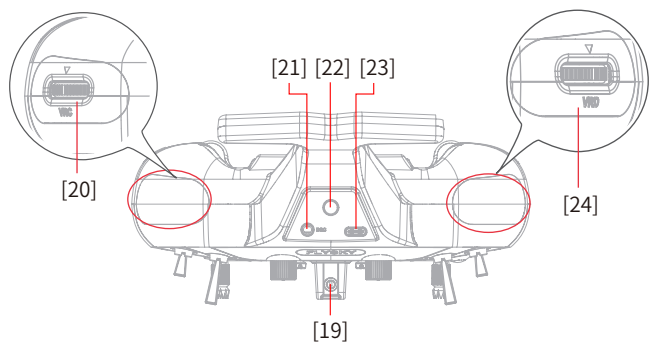
- 当你感到疲倦、不舒服，或在摄入酒精或服食导致麻醉或兴奋的药物后，不要操作本产品，否则可能对自己或他人造成严重的伤害。
- 2.4GHz 无线电波段完全不同于之前所使用的低频无线电波段。使用时请确保模型产品在您的视线范围内，大的障碍物将会阻断无线电频率信号从而导致遥控失灵模型失控。
- 在使用过程中，严禁紧握发射机天线，否则将会大大减弱无线电传播信号的质量和强度， 导致遥控失灵模型失控。
- 在操作或使用模型后，请勿触摸任何可能发热的部位，如发动机、电机等。这些部件可能非常热，容易造成严重的烧伤。

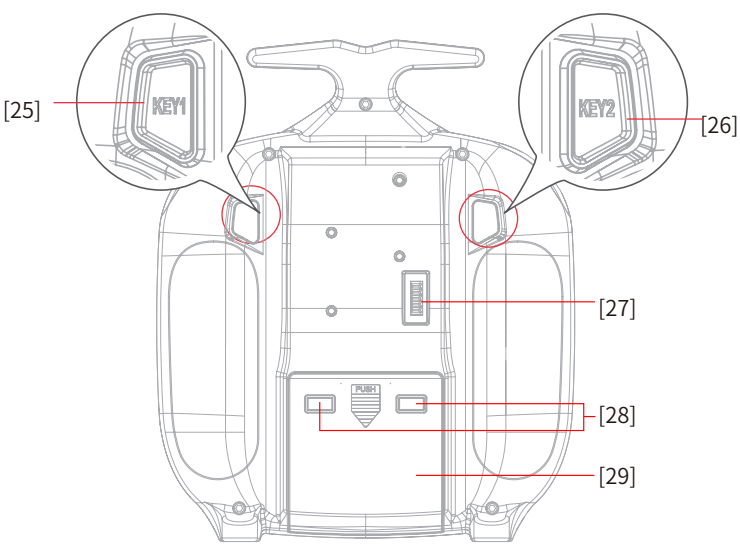
- 遥控设备使用不恰当可能导致操作者或他人严重受伤，甚至死亡。为保证您和设备的安全，请仔细阅读使用说明书并按照要求进行操作。
- 使用前必须确保本产品与模型安装正确，否则可能导致模型发生严重损坏。
- 关闭时，请务必先关闭接收机电源，然后关闭发射机。如果关闭发射机电源时接收机仍然在工作，将有可能导致遥控设备失控或者引擎继续工作而引发事故。
- 操控时，请先确认模型所有舵机的动作方向与操控方向一致。如果不一致，请调整好正确的方向。
- 当遥控距离持续较远时，有发生失控的可能。请适当缩短遥控的距离。

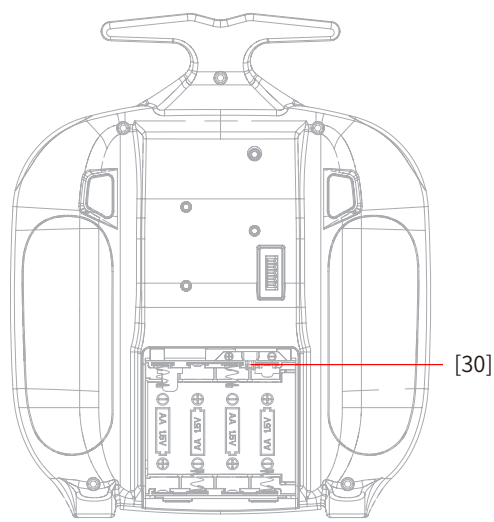
注意：使用类型不正确的电池可能发生爆炸风险，请妥善处理使用完的电池。

发射机概览









[1]	显示屏	[16]	右摇杆
[2]	EXIT, 退出键	[17]	T3/T4，微调按钮
[3]	MENU, 菜单键	[18]	滚轮
[4]	T1/T2, 微调按钮	[19]	手机支架螺母孔
[5]	吊环	[20]	旋钮 VRC（升级版）
[6]	左摇杆	[21]	教练接口（3.5mm 音频接口）
[7]	(电源键)	[22]	预留 SMA 天线孔位
[8]	SWA，二档开关	[23]	Type-C 接口
[9]	SWB，二档开关	[24]	旋钮 VRD（升级版）
[10]	VRA，旋钮开关	[25]	按键 KEY1（升级版）
[11]	提手	[26]	按键 KEY2（升级版）
[12]	VRB，旋钮开关	[27]	Stealth I/O 高频头接口
[13]	SWC， 三档开关	[28]	预留孔位（XT30 接口出线）
[14]	SWD，二档开关	[29]	电池盖
[15]	指示灯	[30]	JST 接口（2S 锂电池）

发射机基本操作

AA 电池安装

请按照以下步骤安装 AA 电池：

1. 打开电池仓盖；
2. 将 4 颗电量充足的电池按标注的极性方向装入电池仓内；
3. 盖好电池仓盖。

Lipo 锂电池安装

请按照以下步骤安装锂电池：

1. 打开电池仓盖；
2. 将 2S 电量充足的锂电池放入电池仓内；
3. 将电池连接线接入 JST 接口，确保正确连接正负极；
4. 盖好电池仓盖，注意不夹到电池连接线。

注：

除所述供电方式外，还可以使用 USB-C 线连接发射机的 Type-C 接口供电。

1. 若连接 Type-C 时，发射机已安装了电池，则优先使用 Type-C 供电 ;
2. 推荐使用 AA 电池或 Lipo 电池供电。

开机

请按照以下步骤打开发射机：

1. 检查系统状态，确保电池电量充足且安装正确；
2. 在关机状态下，长按电源键，LED 灯常亮，显示屏显示开机 logo，表示已开机。

注：如果开机时，SWA/SWB/SWC/SWD 开关未拨到最高位置且油门摇杆没有拨至最低位置，系统会弹出“请将 SWA/SWB/SWC/SWD 调整至最高位置，油门拨至最低位！”的提示，依照提示检查并将开关或摇杆调整到正确位置后方可正常开启发射机。

对码

本发射机和接收机在出厂前已对码成功。若需使用其他的接收机，请按照如下步骤进行对码。本发射机支持双向对码与单向对码，默认双向，双向对码完成后发射机将显示接收机回传的信息，双向对码步打开发射机，按 [MENU] 键进入主界面 ;

1. 滚动滚轮选择 [接收机设置] 后按一下滚轮进入接收机设置界面，滚动滚轮选择 [对码] 按一下滚轮进入对码设置界面，滚动按滚轮选 [开始] 后按

一下滚轮，发射机即进入对码状态；

2. 当接收机 LED 灯变为常亮时，表示对码成功；
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。

注：

1. 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。
2. 不同的接收机对码方式不同，具体对码方式请访问 FLYSKY 官网查询接收机说明书或其他相关资料。

摇杆校准

出厂默认校准完成，当需要再次校准时，则进入发射机设置 [摇杆校准] 功能，按照界面提示进行相应操作：

1. 进入校准功能，按照提示将摇杆移动到中心位置，滚动按滚轮选 [开始] 按一下滚轮进入下一步；
2. 依照提示将摇杆打到最大 / 最小行程，滚动按滚轮选 [校准] 按一下滚轮即开始校准。若校准成功弹出校准成功的提示界面；若校准失败，滚动按滚轮选 [重来] 按一下滚轮即开始重新校准，选 [取消] 则取消摇杆校准。

失控保护

当接收机无法正常收到发射机的信号时，接收机按设置好的失控保护值进行通道输出以保护模型和操作人员的安全。

对于 i-BUS/PPM/PWM 信号，FS-ST8 系统失控保护设置了三项功能项可选：[未设置]、[无输出] 和 [有输出]。

[未设置] 即未设置失控保护；

[无输出] PWM 通道接口为无输出状态 ;

[有输出] 通道 1~8 分别设置一个失控保护的固定值，默认为读取当前通道的输出值。可将对应的控件拨到需要的位置并保持，按 EXIT 键返回后，设置即

保存。

注：

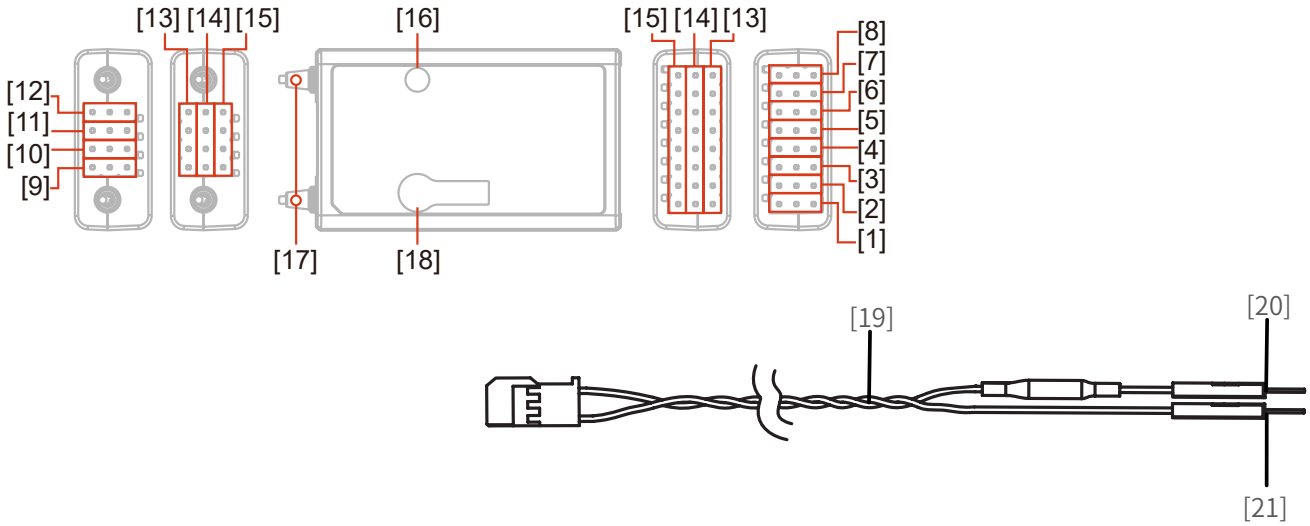
1. 对于 PPM/i-BUS/S.BUS 等总线信号类型不允许单个或其中几个通道为 [无输出] 模式，通道设置为 [无输出] 模式时，实际信号是保持最后输出值；
2. 因 S.BUS 信号信息包含失控标志位，各通道失控保护设置被失控标志位传达给后续设备，若连接的设备支持失控标志位解析，则失控后，输出各通道设置的失控保护值；
3. 对于无失控标志位的信号 PPM/i-BUS，支持设置失控时信号 [无输出] 模式。设置为 [无输出] 模式后，不管各通道失控保护如何设置，失控后各通道均为 [无输出] 模式 ;
4. 失控保护出厂默认无设置，无设置时失控后的接收机无有效信号输出。

▸ 关机

1. 先断开接收机电源；
2. 在开机状态下，长按发射机电源键，直至屏幕熄灭，表示关机。发射机屏幕熄灭后，需等待三秒，方可完全关闭，期间请勿再次开机。

关闭发射机之前，请务必先断开接收机电源，然后关闭发射机。如果强行关闭发射机，将会导致遥控设备失控，失控保护设置不合理可能引起事故。

接收机概览



[1] CH1 通道接口
[2] CH2 通道接口
[3] CH3 通道接口
[4] CH4 通道接口
[5] CH5 通道接口
[6] CH6 通道接口
[7] CH7 通道接口
[8] CH8 通道接口
[9] BIND 接口
[10]BVD/VCC 接口
[11] SENS 接口
[12] SERVO/S.BUS 接口
[13] -(电源负极)
[14] + (电源正极)
[15] S(信号脚)
[16] LED 灯
[17] 天线
[18] 对码按键
[19] BVD 功能配件
[20] 接电池正极
[21] 接电池负极

BVD 电压检测范围： 0~70V

接收机基本操作

接口介绍

CH1~CH8 通道接口：输出标准的 PWM 信号 (CH1 接口，还支持输出 PPM 信号)。连接舵机或其他各部件。

BVD/VCC 接口：BVD 电压检测时用于连接 BVD 功能件 , 正常操作时用于连接电源线。

BIND 接口：对码时用于连接对码线。

SENS 接口：支持 i-BUS 传感器。

SERVO/S.BUS 接口：支持 i-BUS/S.BUS 信号输出。

对码

本款接收机支持双向对码和单向对码 , 双向对码完成后发射机将显示接收机回传的信息。

双向对码步骤：

1. 发射机选择双向通信，然后进入对码状态；
2. 本接收机支持三种方式进入对码状态：按键对码、对码线对码和通电后按键对码
   - 按键对码：按住接收机对码按键同时上电，接收机 LED 灯快闪表示进入对码状态，松开对码键；
   - 对码线对码：BIND 接口连接对码线后上电，接收机 LED 灯快闪，进入对码状态。注意对码成功后需取下对码线；
   - 通电后按键对码：接收机上电后未与发射机通信过，长按对码键 3 秒，接收机指示灯快闪表示进入对码状态，松开对码键。
3. 接收机 LED 灯常亮，即对码成功。发射机对码成功后自动退出对码状态，对码完成；
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。

单向对码步骤：

1. 发射机选择单向通信，然后进入对码状态；
2. 本接收机进入对码状态（进入对码状态的方式请参考双向对码时描述）；
3. 接收机 LED 灯慢闪，即对码成功。发射机则需手动将其退出对码状态，接收机 LED 灯常亮，对码完成；
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，若十秒内对码没有完成，接收机 LED 指示灯进入慢闪状态。

接收机固件更新

本接收机固件更新需通过富斯遥控管家（FlySkyAssistant）完成（仅 3.0 及以上版本支持，富斯遥控管家固件可从官网 www.flyskytech.com 获取）。

本接收机可以通过以下两种方式进入更新：

1. 先将发射机与接收机对码后（接收机 LED 灯常亮），再将发射机与电脑连接，然后在电脑端打开富斯遥控管家，通过富斯遥控管家进行固件更新;
2. 将发射机与电脑连接，参考如下方式使接收机进入强制更新状态（接收机 LED 灯状态三闪一灭），然后在电脑端打开富斯遥控管家，通过富斯遥控管家进行固件更新。

   进入强制更新状态的操作方式有如下三种方式：

   - 按下对码按键，上电十秒钟后接收机 LED 灯状态三闪一灭，松开对码按键。
   - 先给接收机上电，长按对码键十秒后接收机 LED 灯状态三闪一灭，松开对码按键。
   - 先将对码线连接到接收机 BIND 和 SENS 信号端，然后接通接收机电源。

接收机失控保护

本款接收机共支持两种失控保护模式 : [无输出] 和 [有输出]，在发射机端设置，设置相关内容请参考前面发射机的失控保护章节。

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，将会导致遥控设备失控。失控保护设置不合理可能引起事故。
- 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。

产品规格

发射机产品规格

- 产品型号：FS-ST8
- 适配接收机：ANT 协议接收机（如 FS-SR8）
- 适配模型：固定翼、直升机、滑翔机、三角翼、多轴、穿越机、工程车、机器人、车模、船模等
- 通道个数：8-10
- 无线频率：2.4GHz ISM
- 发射功率：小于 20dBm
- 无线标准：ANT
- 通道分辨率：4096 级
- 低电压报警：AA 电池：<4.2V；Lipo 电池：<7.2V
- 输出数据：PWM/PPM/i-BUS/S.BUS
- 天线类型：内置双天线
- 输入电源：1.5AA*4 ，2S Lipo
- 遥控距离：>1000m(空旷无干扰空中距离)
- 显示方式：128*64 LCD 全点阵黑白屏
- 在线更新：支持
- 温度范围：-10°C ～ +60°C
- 湿度范围：20% ～ 95%
- 外观颜色：黑色
- 外形尺寸：176*210.9*82.5mm
- 机身重量：420g
- 充电接口：无
- 认证：CE，FCC ID: : N4ZST800
- 操作语言：中文、英文

接收机产品规格

- 产品型号：FS-SR8
- 适配发射机：FS-ST8(支持 ANT 协议发射机）
- 适配模型：固定翼、直升机、滑翔机、三角翼、多轴、穿越机、工程车、机器人、车模、船模等
- 通道个数：8
- 无线频率：2.4GHz ISM
- 发射功率：小于 20dBm
- 无线标准：ANT
- 通道分辨率：4096 级
- 天线类型：双天线
- 遥控距离：>1000 米 (空旷无干扰空中距离)
- 输入电源：3.5~9V/DC
- 输出数据：PWM/PPM/i-BUS/S.BUS
- 在线更新：支持
- 温度范围：-10°C ～ +60°C
- 湿度范围：20% ～ 95%
- 外形尺寸：44.8*26.6*11.3mm
- 机身重量：10g
- 认证：CE，FCC ID: 2A2UNSR800

本说明书中的图片和插图仅供参考，可能与实际产品外观有所不同。 产品设计和规格可能会有所更改，恕不另行通知。

FLYSKY

Digital Proportional Radio Control System



FCC ID: N4ZST800

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