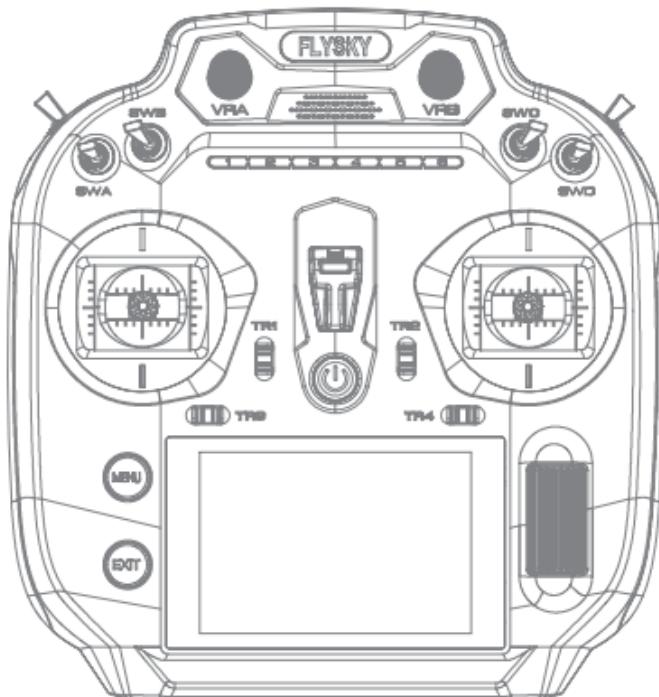


# Quick Start Guide

## 快速操作指南

# FS-ST16

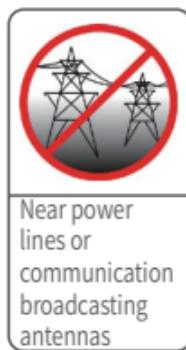
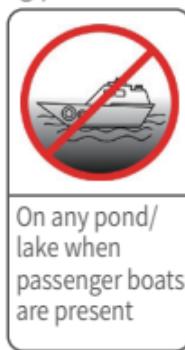


Thank you for purchasing the products of Flysky! To find out more about our products, visit our website at [www.flysky-cn.com](http://www.flysky-cn.com). If you encounter any problems during using, please refer to the manual first. If the problem is still not resolved, contact your local dealer directly 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:



- 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.

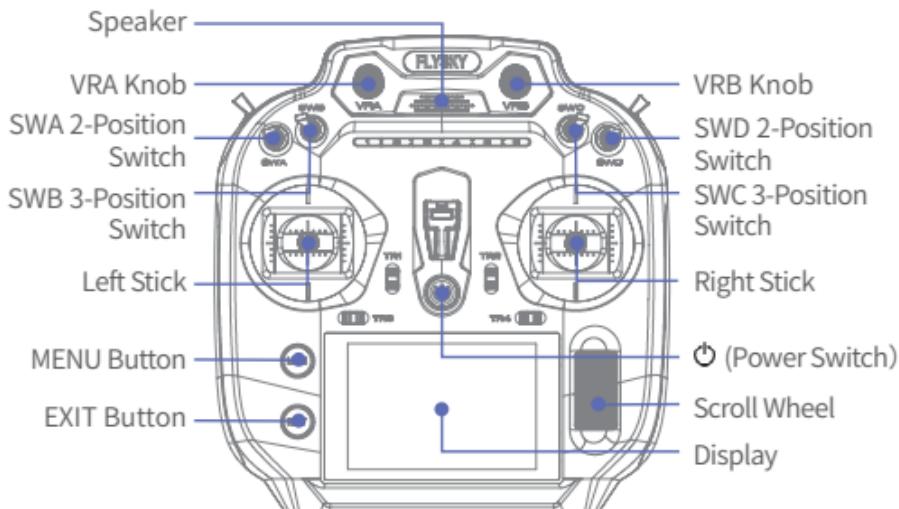
- Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Make sure that the receiver's battery is disconnected before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.
- Ensure that all servos 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.

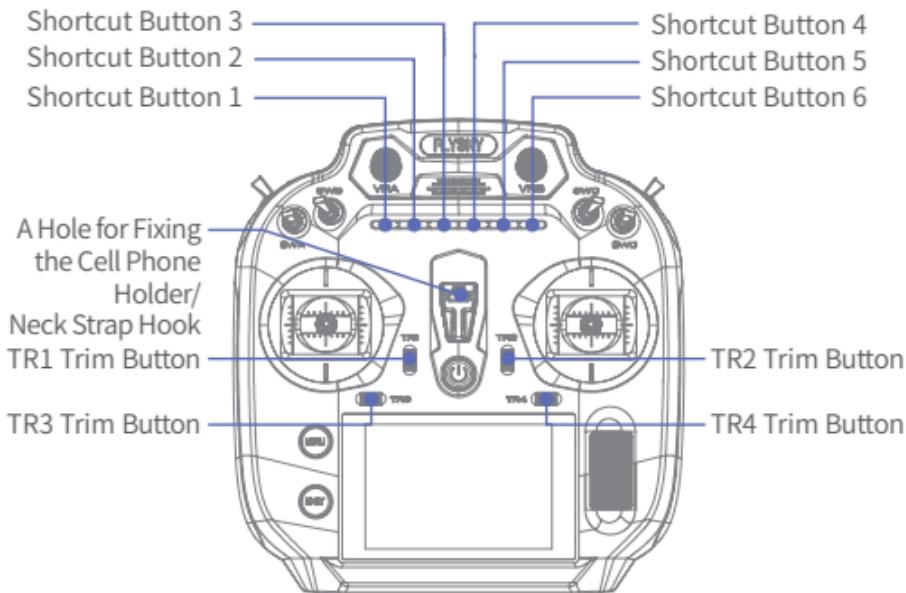
#### CAUTION!

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

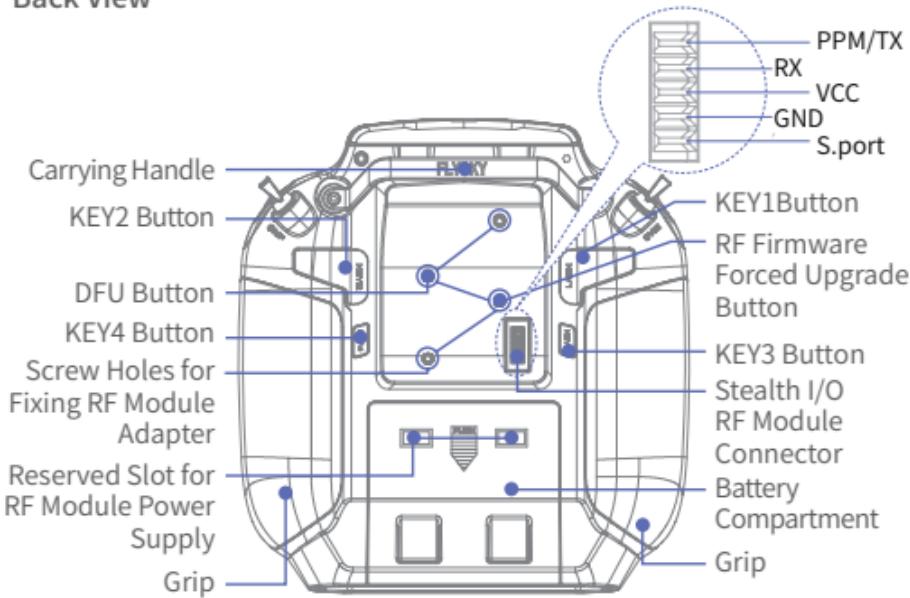
## Transmitter Overview

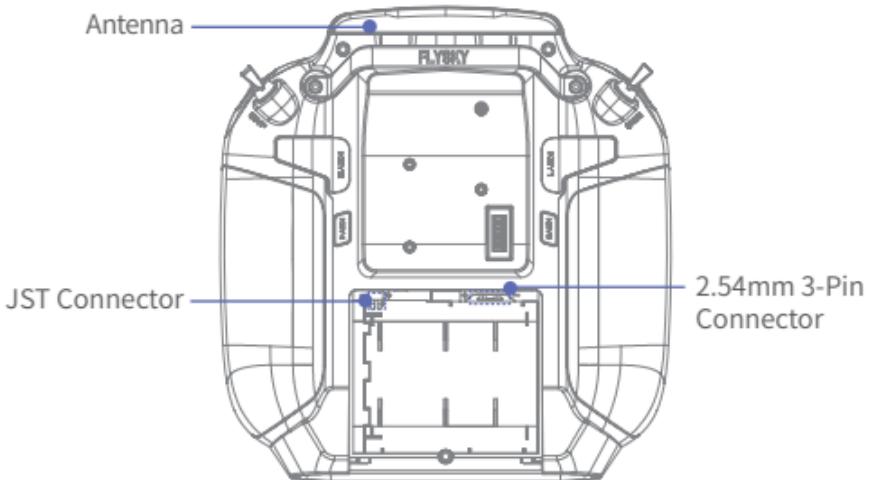
### Front View



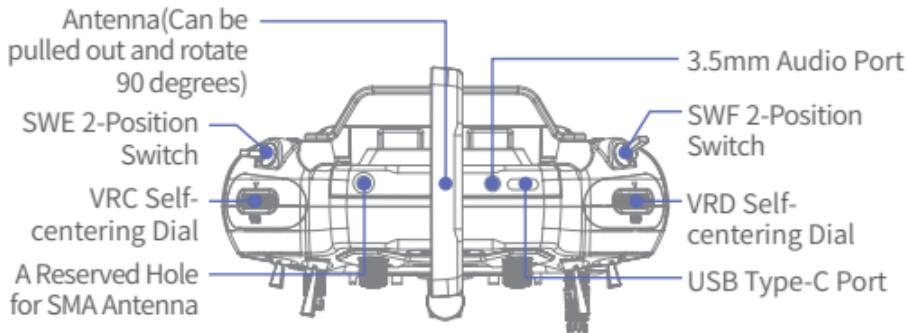


## Back View

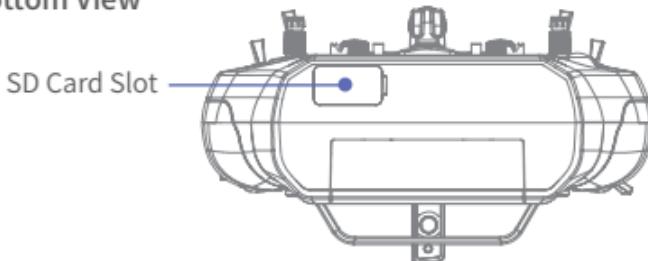




### Top View



### Bottom View



# Basic Operations

## ▶ Installing the 18650 Battery

Follow the steps below to install the 18650 battery:

1. Open the battery compartment cover.
2. Insert 2 batteries into the compartment. Make sure that the batteries are well set according to the polarities marked on the battery compartment.
3. Close the battery compartment cover.

## ▶ Installing the LiPo Battery

The transmitter supports LiPo batteries and has one JST connector and one 2.54mm 3-Pin connector for battery wiring. Follow the steps below to install the LiPo batteries:

1. Open the battery compartment cover.
2. Insert 2S LiPo batteries into the compartment.
3. Plug the battery wiring of the LiPo battery into the JST connector or 2.54mm 3Pin connector accordingly.
4. Close the battery cover, minding to avoid pinching the battery wiring.

Note: Additionally, you can also use a USB Type-C cable to connect the transmitter's USB Type-C port for power.

## ▶ Charging

This transmitter is compatible with charging of 18650 batteries or LiPo batteries installed in the transmitter via the USB Type-C port. Pay attention to that a 5V/2A or 2A or higher USB power adapter is required for charging.

Connect one end of the USB Type-C cable to the power source and the other end to the transmitter USB Type-C port.

 **Please use the standard charging cable of this transmitter to charge it. Improper use may cause damage to the battery and affect its service life.**

## ► Powering 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  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 their proper positions. The transmitter will launch after these switches and the throttle stick are at proper positions.

## ► Powering 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.

**!** 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.

## ► Calibration

Use this function to correct for the mechanical deviation of the sticks, VRA knob and VRB knob, for example, deviation occurred in the self-centering or maximum minimum travel. The calibration is completed before leaving factory, by default. If you need to calibrate again, enter System Settings > Stick Calibration, and follow the prompts to perform the corresponding operations:

1. Enter the calibration function, and move the stick to the center position as prompted, then scroll the Scroll Wheel to select [Start] and press the

Scroll Wheel to enter the next step.

- Follow the prompts, move the sticks, VRA and VRB to the maximum/minimum travel respectively, scroll the Scroll Wheel to select Calibration and press the Scroll Wheel to start. If the calibration is successful, a prompt interface pops up indicating successful calibration; otherwise, scroll the Scroll Wheel to select Restart and press the Scroll Wheel to start recalibration, or select Cancel to cancel the stick calibration.

## ► LED

The transmitter LED includes a power indicator (at the power button), a main ambient light (at the assembly seat) and a secondary ambient light (at the KEY button).

### **Power Indicator**

The power indicator can be set to on or off. It is set to on, by default.

#### Setup:

Scroll the Scroll Wheel to select System > Settings > Power Indicator, then scroll the Scroll Wheel to select On or Off and press the Scroll Wheel.

### **Primary Ambient Light**

The primary ambient light can be set the color type and brightness, as well as whether to turn off the primary ambient light, or be set to indicate the battery indicator, or the throttle position.

- Battery Indicator:** When the light is green, it means the battery voltage is equal to or greater than the alarm value; when it is lower than the alarm value, it is red.
- Throttle Position Indicator:** When the light is blue, it means the stick is in the throttle neutral range, and red in other positions.
- Ambient Light Color:** It can be set to red, green, blue, yellow, cyan, purple, white or colorful.
- Brightness:** It is 50%, by default, and the adjustment range is from zero to 100%.

#### Setup:

- Scroll the Scroll Wheel to select System > Settings > Primary Ambient Light>Blue, and press the Scroll Wheel.
- Select the appropriate function item and press the Scroll Wheel.

3. Select the Brightness, and scroll the Scroll Wheel to set to a desired value, then press the Scroll Wheel.

## **Secondary Ambient Light**

The functions of the secondary ambient light are the same as those of the primary ambient light except that it cannot indicate the throttle position.

## ► **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. 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.
2. Put the receiver into binding mode.
3. The binding is finished when the LED of the receiver is solid on.
4. 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, put the transmitter to exit binding state when the status of the receiver LED changes to slow flash, and at the same time, the receiver LED is solid on, indicating that the binding is completed.
2. The binding mode may vary according to the receiver model. Visit the Flysky official website to check the receiver manual or other relevant information.

## ‣ Failsafe

The fail-safe function is used when the receiver loses signal and is out-of-control. The receiver performs channel output according to the set fail-safe value to protect the safety of the model and personnel.

For i-BUS/PPM/PWM signal. It can be set to ON or OFF.

OFF It is no output for i-BUS/PPM/PWM channel.

ON i-BUS/PPM/PWM channel output respectively the set value.

Namely, you can set a value respectively for channel1 to channel16. 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. Because the S.BUS signal information contains failsafe flag bits, the failsafe information can be transmitted to the subsequent devices by the failsafe flag bits rather than by OFF state. The subsequent devices give response according to the analysed information for the failsafe flag bits.
2. For the signal PWM/PPM/i-BUS without failsafe flag bits, it supports the setting of the output signal to OFF in case of failsafe, transmitting the failsafe information to the subsequent devices by OFF state.
3. If no failsafe setting has been set, then the receiver will not output when signal is lost.

## ‣ Firmware Update

To put the transmitter into updating state. In case of updating the firmware of the transmitter, use this function to put the transmitter into updating mode first, then upgrade the transmitter's firmware.



### Warning

- Do not unplug the USB Type-C cable while the firmware is updating.

This firmware can be updated via the following two ways.

- The firmware of this receiver can be updated through the

Flysky Assistant (The firmware of Flysky Assistant is available on the Flysky official website).

- Or update it by following the steps below:
  1. Download and open the latest official software.
  2. Connect the transmitter to the computer via USB Type-C first.
  3. Select Firmware Update, a prompt screen pops up and select Yes to enter updated status.
  4. After completing the above steps, click Update in the computer update software window to start the update.



### Attention

- After a firmware update the receiver may not be connected. If this is the case the receiver firmware needs to be updated.

## ► Receiver Firmware Update

FS-SR8 receiver firmware update must be finished through FlySky Assistant which only version 3.0 and later are supported, the firmware of Flysky Assistant is available on the Flysky official website ([www.flysky-cn.com](http://www.flysky-cn.com)).

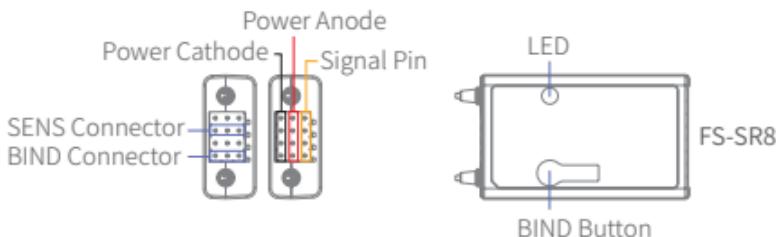
This receiver can be updated via the following two ways:

**Mode I** : 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.

**Mode II** : 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, open 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 receiver operates in three-flash-one-off manner repeatedly, then release the BIND button.

- Connect the signal pin of the BIND connector to the signal pin of the SENS connector, then power on the receiver.



Note: Different receivers may have different ways of entering the firmware update status. Please refer to the instructions of related receivers.

# Specifications

- Product Model: FS-ST16
- Compatible Receivers: Receivers with ANT protocol, such as FS-SR8
- Compatible Models: Fixed-wing aircraft, cars or boats, etc.
- Number of Channels: 16
- RF: 2.4GHz ISM
- Maximum Power: < 20dBm (e.i.r.p.) (EU)
- RF Protocol: ANT
- Resolution: 4096
- Data Connector: USB Type-C
- Antenna: Two antennas(One bulit-in antenna and one external folding antenna)
- Input Power: 18650\*2PCS/2S Lipo
- Distance: Greater than or equal to 1500m (Air distance without interference)
- Display: 3.5 inch 320\*480 full dot color non-touch IPS screen
- Online Update: Yes
- Temperature Range: -10°C ~ +60°C
- Humidity Range: 20% ~ 95%
- Color: Black
- Dimensions: 189.3x180x93.5mm
- Weight: 665g
- Charging Jack: Yes
- Certifications: CE, FCC ID: 2A2UNST1600

# 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, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the radio equipment type[FS-ST16] is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.flyskytech.com/info\\_detail/10.html](http://www.flyskytech.com/info_detail/10.html)

## 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



## **RF Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

These requirements set a SAR limit of 4 W/kg averaged per ten gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the limbs.

## **CE SAR statement**

This equipment complies with Directive 2014/53/EU radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market(France). These requirements set a SAR limit of 4W/kg averaged over ten gram of tissue. The highest SAR value 1.149W/kg reported under this standard during product certification for use when properly worn on the limbs.

## **FCC SAR statement**

1.The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna should be minimized.

For body worn operation, this model phone has been tested and meets the FCC RF exposure. Guidelines when used with an accessory designated for this product or when used with an accessory that Contains no metal and that positions the handset a minimum of 0mm from the body.

2. The maximum SAR value is 1.509W/kg when the phone used 0mm close to user.

## **CAUTION**

- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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](http://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

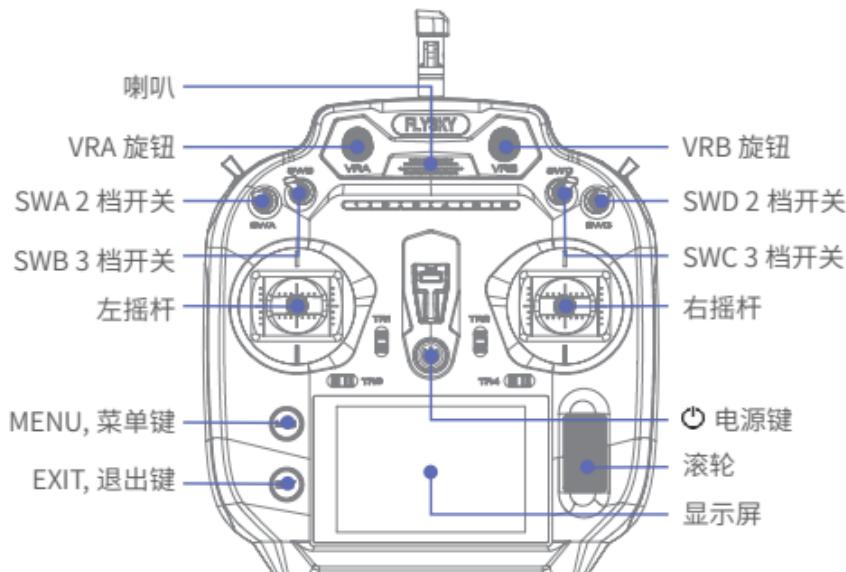
- 当你感到疲倦、不舒服，或在摄入酒精或服食导致麻醉或兴奋的药物后，不要操作本产品，否则可能对自己或他人造成严重的伤害。
- 2.4GHz 无线电波段完全不同于之前所使用的低频无线电波段。使用时请确保模型产品在您的视线范围内，大的障碍物将会阻断无线电频率信号从而导致遥控失灵模型失控。
- 在使用过程中，严禁紧握发射机天线，否则将会大大减弱无线电传播信号的质量和强度，导致遥控失灵模型失控。
- 在操作或使用模型后，请勿触摸任何可能发热的部位，如发动机、电机等。这些部件可能非常热，容易造成严重的烧伤。

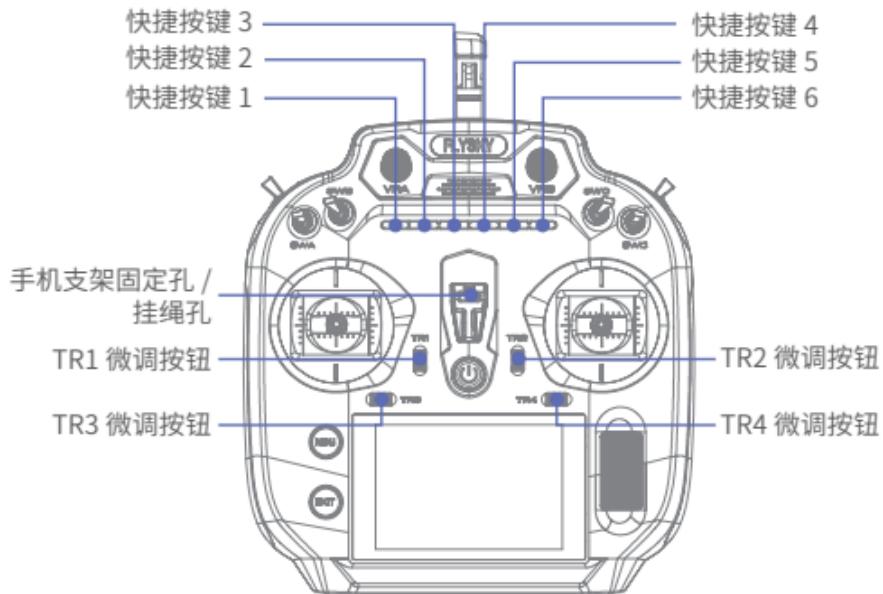
- 遥控设备使用不恰当可能导致操作者或他人严重受伤，甚至死亡。为保证您和设备的安全，请仔细阅读使用说明书并按照要求进行操作。
- 使用前必须确保本产品与模型安装正确，否则可能导致模型发生严重损坏。
- 关闭时，请务必先关闭接收机电源，然后关闭发射机。如果关闭发射机电源时接收机仍然在工作，将有可能导致遥控设备失控或者引擎继续工作而引发事故。
- 操控时，请先确认模型所有舵机的动作方向与操控方向一致。如果不一致，请调整好正确的方向。
- 当遥控距离持续较远时，有发生失控的可能。请适当缩短遥控的距离。

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。

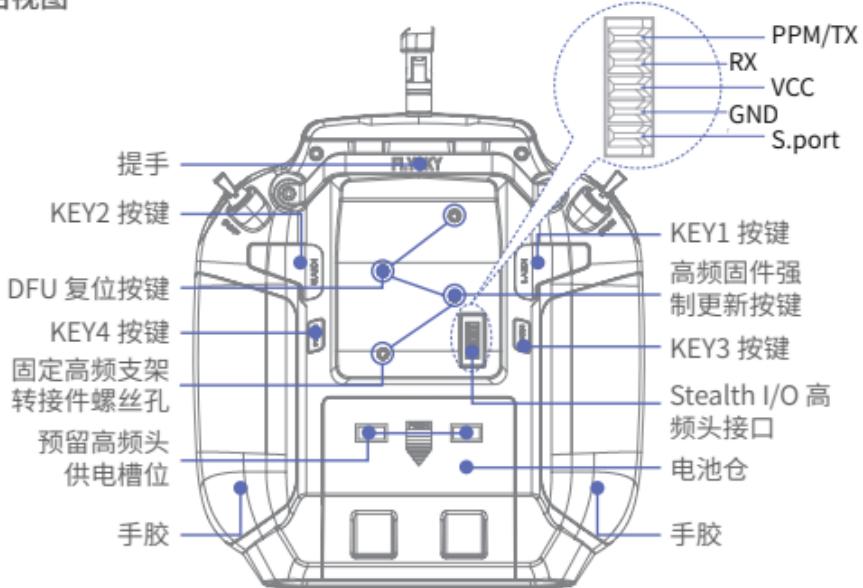
## 发射机概览

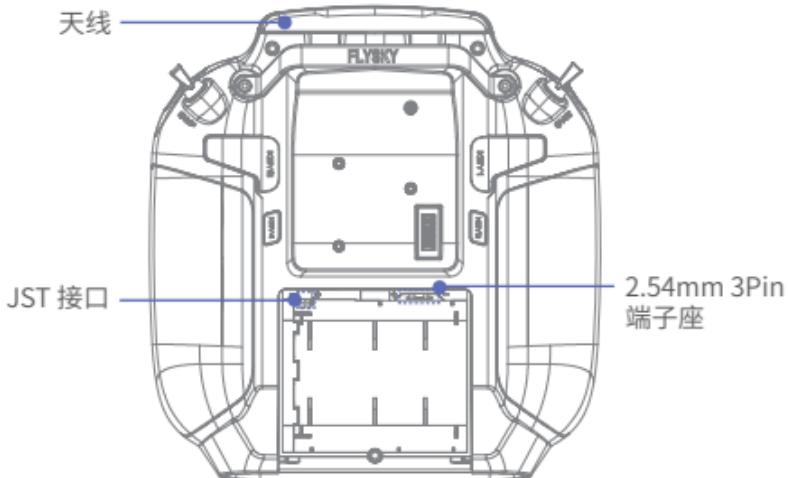
### 前视图



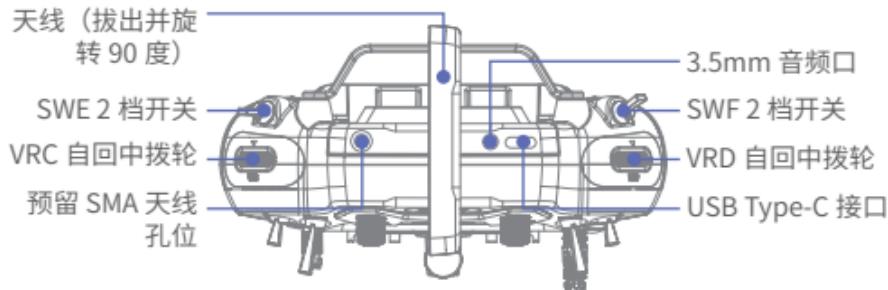


后视图

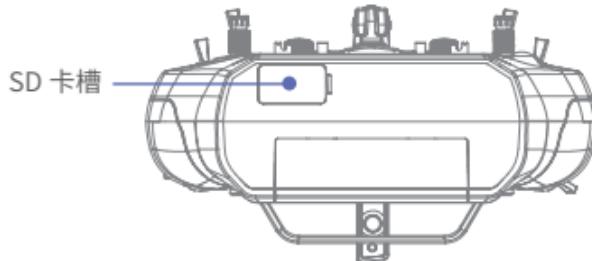




顶视图



底视图



### ► 18650 电池安装

请按照以下步骤安装 18650 电池：

1. 打开电池仓盖；
2. 将 2 颗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

本发射机支持带电池导线为 JST 接口或 2.54mm 3Pin 接口的锂电池，请按照以下步骤安装锂电池：

1. 打开电池仓盖；
2. 将 2S 锂电池放入电池仓内；
3. 将电池导线接入 JST 接口或 2.54mm 3Pin 端子座；
4. 盖好电池仓盖，注意避免夹到电池导线。

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

### ► 充电

本发射机支持通过 USB Type-C 接口为已安装在发射机里的 18650 电池或锂电池充电。注意需用 5V/2A 或 2A 以上 USB 电源适配器充电。

将 USB Type-C 线一端连接电源，另外一端连接发射机 USB Type-C 接口。

**!** 请使用本款发射机标配的充电线对其进行充电，使用不当可能造成电池损坏影响使用寿命。

## ▶ 开机

请按照以下步骤开机：

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

注：开机时，如果 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。

## ▶ 关机

请按照以下步骤开机：

1. 先断开接收机电源；
2. 长按发射机电源键，直至屏幕熄灭，表示关机。

**!** 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。

## ▶ 摆杆校准

当摇杆、VRA 和 VRB 旋钮发生机械性偏离，如回中或最大 / 最小行程出现偏差时，使用此功能修正。出厂默认校准完成，当需要再次校准时，则进入系统设置 >[ 摆杆校准 ] 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、VRA 和 VRB 分别打到最大 / 最小行程，滚动滚轮选 [ 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。

## ► LED

本发射机 LED 有电源指示灯（电源按键处）、主氛围灯（总成座处）及副氛围灯（KEY 类按键处）。

### 电源指示灯

可设置打开或关闭电源指示灯。默认开。

#### 功能设置：

滚动滚轮选择系统 > 设置 > 电源灯后按键滚轮，滚动滚轮选择开或关后按下滚轮即可。

### 主氛围灯

设置主氛围灯颜色类型和亮度等级，是否关闭主氛围灯、或指示电量、或指示油门位置。

- 电量指示：灯为绿色时，代表电池电压  $\geq$  报警值；低于报警值则为红色。
- 油门指示：灯为蓝色时，代表摇杆位于油门中位范围内，其他位置为红色。
- 氛围灯颜色：可设置为红色、绿色、蓝色、黄色、青色、紫色、白色或炫彩。
- 亮度等级：默认 50%，调节范围 0-100%。

#### 功能设置：

1. 滚动滚轮选择系统 > 设置 > 主氛围灯 > 蓝色后按下滚轮；
2. 选择合适的功能项按下滚轮；
3. 选择亮度选项，滚动滚轮设置合适数值后按下滚轮。

### 副氛围灯

副氛围灯除不可指示油门位置，其他功能同主氛围灯的功能。

## ▶ 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. 让接收机进入对码状态；
3. 当接收机 LED 灯变为常亮时，表示对码成功；
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：

1. 当对码的发射机是单向模式进入对码状态时，接收机 LED 灯变为慢闪后将发射机退出对码状态，此时接收机 LED 灯常亮，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。

## ▶ 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，可将失控保护设置为 [ 无输出 ] 或 [ 有输出 ]。

[ 无输出 ] i-BUS/PPM/PWM 通道接口为无输出状态；

[ 有输出 ] i-BUS/PPM/PWM 通道接口输出设置的固定值。

即通道 1~16 分别设置一个失控保护的固定值，默認為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. 因为 S.BUS 信号包含失控标志位，所以接收机可通过失控标志位将“失控状态”信息传递到后续设备，而无需通过 [ 无输出 ] 状态传递（后续设备通过解析失控标志位信息做出相应地应对即可）；
2. 对于无失控标志位的信号 PWM/PPM/i-BUS，支持设置失控时信号 [ 无输

出]，通过[无输出]状态将“失控状态”信息传递给后续设备；

3. 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。

## ▶ 固件更新

让发射机进入固件更新状态。当使用固件更新程序更新时，需要先通过此功能，让发射机进入更新状态后，然后通过固件更新程序执行更新。



- 当固件正在更新时请勿断开 USB Type-C 线。

固件更新可通过如下两个途径完成。

- 可使用“遥控管家”进行更新（富斯遥控管家固件可从官网 [www.flyskytech.com](http://www.flyskytech.com) 获取）；
- 或通过如下步骤更新：
  - 下载并打开最新的官方软件；
  - 将发射机通过 USB Type-C 线与电脑连接；
  - 选择[固件更新]，界面弹出提示更新提示界面，选择[是]即可进入更新状态。
  - 完成以上步骤后，在电脑更新软件窗口点击[Update]后开始更新。



- 系统更新完成后可能会导致接收机无法连接，此时需要更新接收机固件。

## ▶ 更新接收机固件

FS-SR8 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](http://www.flyskytech.com) 获取）。

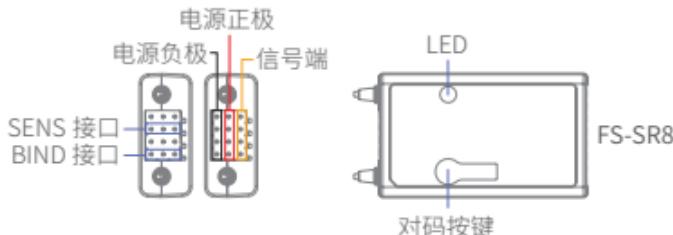
本接收机可以通过以下两种方式进入更新：

方式一：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；

方式二：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，接收机通电，十秒钟后接收机 LED 灯状态三闪一灭，然后松开对码按键。
- 先给接收机通电，长按对码键十秒后接收机 LED 灯状态三闪一灭，然后松开对码按键。
- 先将接收机 BIND 接口信号端和 SENS 接口信号端相连接，然后接通接收机电源。



注：不同接收机进入强制更新状态方式不同，请参考具体接收机的说明书。

- 产品型号：FS-ST16
- 适配接收机：ANT 协议接收机（如 FS-SR8）
- 适配模型：飞机、车模、船模等
- 通道个数：16
- 无线频率：2.4GHz ISM
- 发射功率：小于 20dBm
- 无线协议：ANT
- 通道分辨率：4096 级
- 数据接口：USB Type-C
- 天线类型：双天线（内置单天线 + 外置折叠天线）
- 输入电源：18650\*2PCS/2S Lipo
- 遥控距离：≥ 1500m (空旷无干扰空中距离)
- 显示屏：3.5 寸 320\*480 全点阵彩色非触摸 ips 显示屏
- 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：189.3x180x93.5mm
- 机身重量：665g
- 充电接口：有
- 认证：CE, FCCID: 2A2UNST1600

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。

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

# FLYSKY



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[Http://www.flsky-cn.com](http://www.flsky-cn.com)

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