FLYSKY FS-ST8 Transmitter with Receiver User Guide

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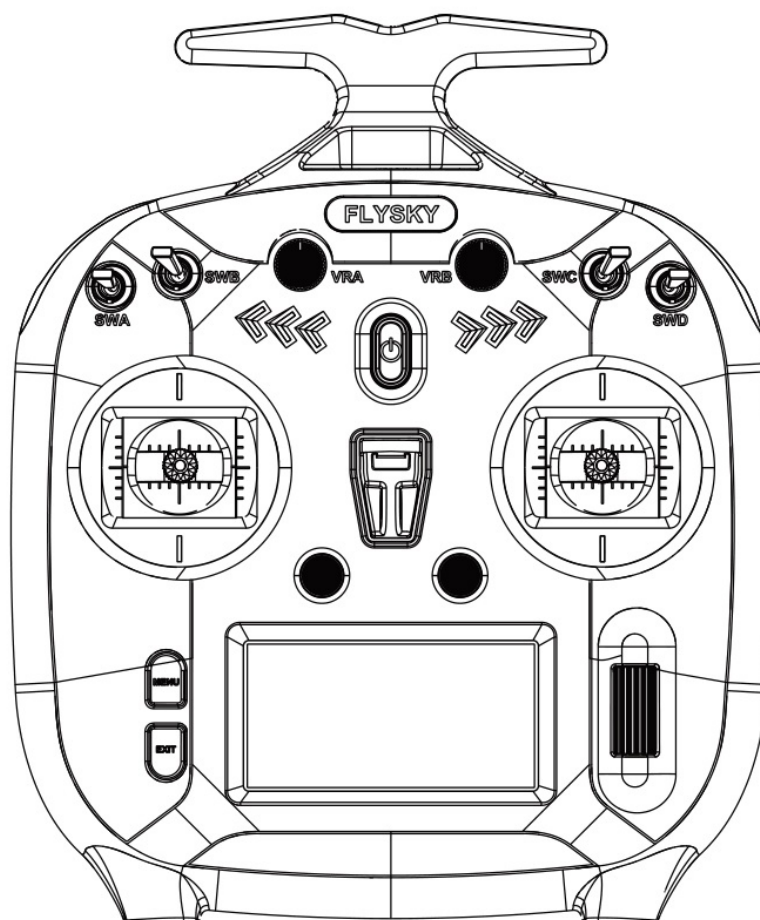
User Guide

FLYSKY

FCC ID: N4ZST800

FLYSKY

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

- 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, motor or speed control, 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
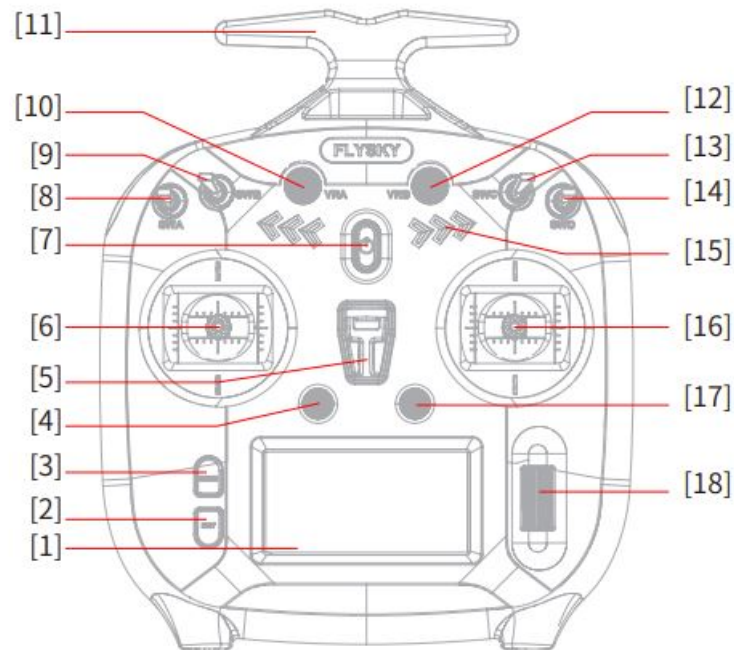
[1] Display
[2] EXIT Button
[3] MENU Button
[4] T1/T2 Trim Button
[5] Neck Strap Hook
[6] Left Stick
[7] Power Switch
[8] SWA Two-position Switch
[9] SWB Two-position Switch
[10] VRA Knob
[11] Carrying Handle
[12] VRB Knob
[13] SWC Three-position Switch
[14] SWD Two-position Switch
[15] LED Indicator
[16] Right Stick
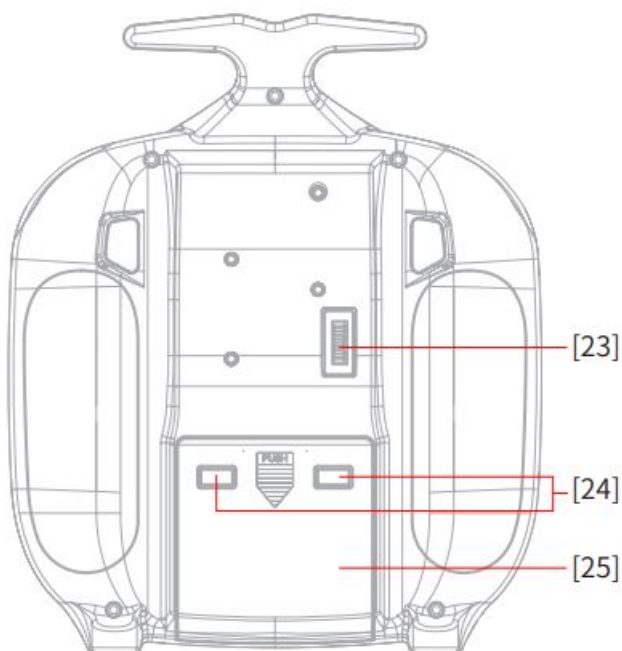[17] T3/T4 Trim Button
[18] Scroll Wheel
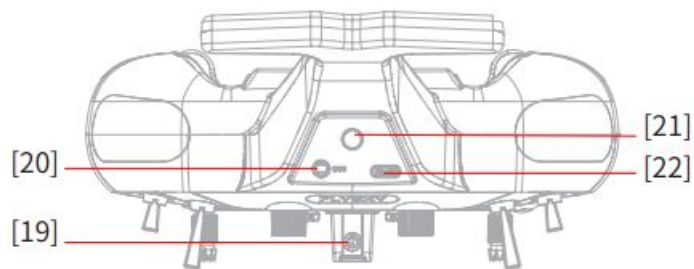
[19] A Hole for Fixing the Cell Phone Holder
[20] Trainer Jack
[21] A Preserved Hole for Fixing Antenna
[22] Type-C Port

[23] RF interface
[24] A Preserved Hole for XT30 Cable
[25] Battery Compartment

Basic Operations

♦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.

Note:

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 recommened to use AA 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 accordding 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/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] mode.
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.

Specifications

Product Name	FS-ST8
Adaptive Receiver	Receivers with ANT protocol,such as FS-SR8
Adaptive Model	Fixed-wing aircraft, Helicopters, Cars or engineering vehicles, etc.
Channels	8
RF	2.4GHz ISM
Maximum Power	<20dBm (e.i.r.p.) (EU)
2.4GHz system	ANT
Resolution	1024
Low Voltage Alarm	AA battery: <4.2V
Data Output	PWM/PPM/i-BUS/S.BUS
Antenna	Built-in two antennas
Battery	1.5AA*4
Distance	>450m (Ground distance without interfence)
Display	128*64 LCD (Black and white dot matrix screen)
Online Update	Yes
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Color	Black
Dimension	176*210.9*82.5mm
Weight	420g
Charging Jack	NO
Certifications	CE, FCC ID: N4ZST800
Langages	Chinese, English

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-ST8] 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**.

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 2.534W/kg when the equipment used 0mm close to user.

FCC ID: N4ZST800

Manufacturer ShenZhen FLYSKY Technology Co.,Ltd
Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

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.

Documents / Resources

	FLYSKY FS-ST8 Transmitter with Receiver [pdf] User Guide ST800, N4ZST800, FS-ST8, Transmitter with Receiver

References

- **FlyskyRC**