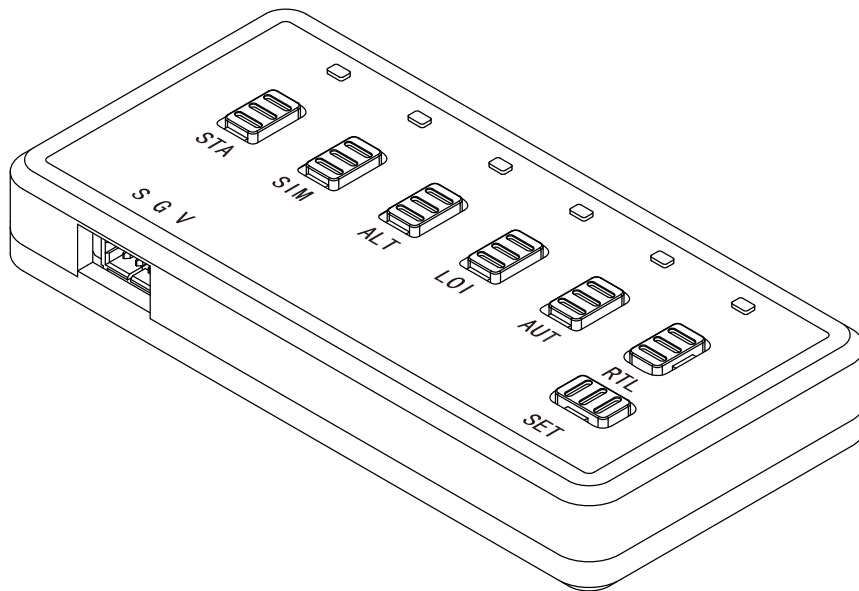


Flight Mode Switcher

User Manual

V1.0

2015.7



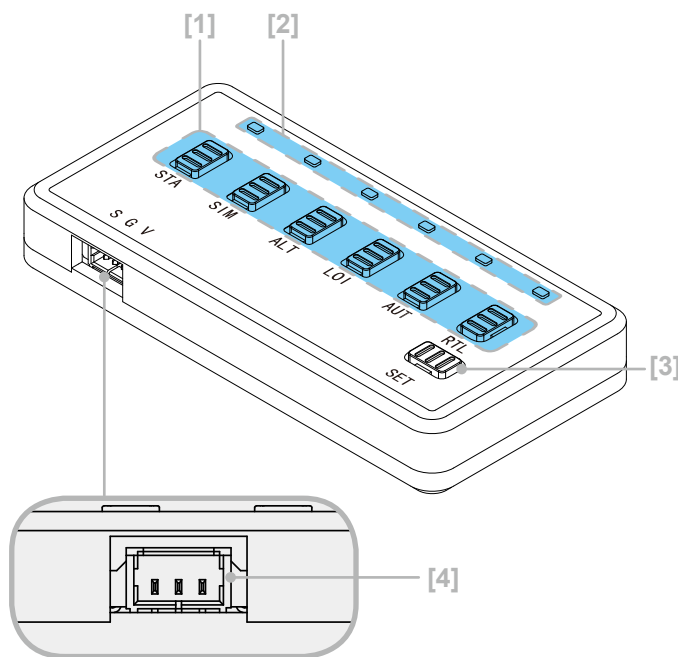
Content

Profile	3
In the Box	3
Installation	4
Install Flight Mode Switcher	4
Settings	5
Specifications	7

Profile

Flight Mode Switcher is designed for open source autopilots such as APM, PX4 and PIX, etc. It can switch the flight mode accurately and quickly, replaces the troublesome two-stage or three-stage switchers. Users can set parameters for the flight mode switcher on the actual situation and choose the most suitable operational plan.

Flight Mode Switcher has the features of small size, low-power, stable performance and easiness to handle. It is appropriate for every RC System of each brand and type. It can also bring users better flight experience.



[1] Flight Mode Switch Button

Switch the six flight modes.

[2] Mode Indicator

Show the state of mode switching and parameter setting.

[3] Mode Set Button

Set the parameter of flight mode.

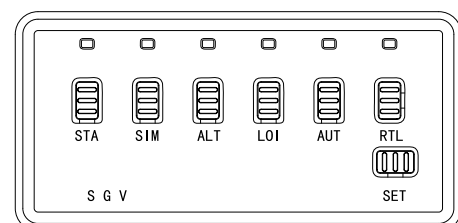
[4] Signal Port

Connect to the RC System.

In the Box

Flight Mode Switcher ×1

Connect to your RC System by connector. After preinstalling six flight modes, you can switch the mode by the six buttons when flying.



Connector Cable ×1

Connect the flight mode switcher and RC System.



Installation

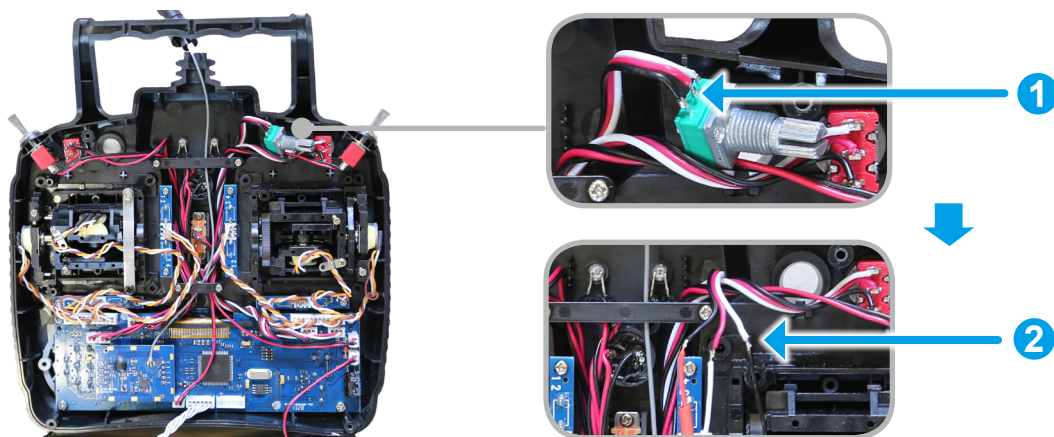
Install Flight Mode Switcher

- Flight Mode Switcher should be connected to the RC System before using. And improper connection can result in abnormal work even causing damage to the switcher.
- The RC System should have spare channel ratio (usually connected with potentiometer), and provided with power of 5V/3.3V.
- Users can refer to this instruction of cable connection to install the Flight Mode Switcher, exemplified by the V1 knob channel in WFLY7 RC System.

1. Plug the top left knob out on the RC System; Unpack the back cap of RC System.



2. Pull the potentiometer down, and use the electric iron to solder down the potentiometer connection cable. Solder switcher connection cable to corresponding potentiometer cable. Do the insulate protection by heat shrink tube or insulating tape.



- ⚠ · Please don't judge the definition of proportional channel by color. Use multimeter to confirm the power, signal and ground electrode on connection cables.
- The definition of switcher: White is the signal cable, red is the power line, and black is the ground electrode.
- You should pull a 5V power cable from RC System when some channels haven't power lines.

3. Use double-sided tapes or screws to fix the flight mode switcher to the proper position on RC System.



Settings

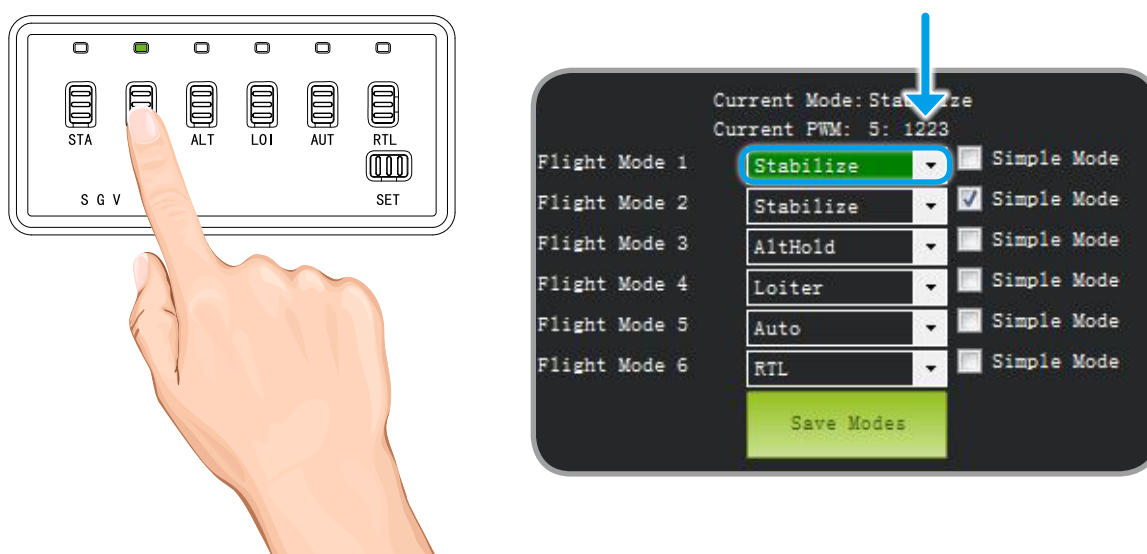
1. After finishing the switcher cable connection, turn on RC System; connect autopilot by Radio or USB cable to the Mission Planner. Choose **Flight Mode** in the **CONFIG/TUNING**. Set flight modes according to the figure.



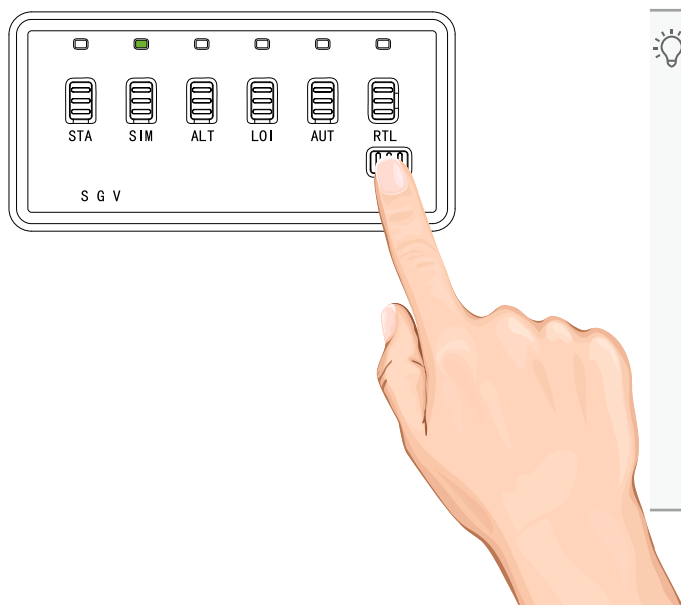
2. Press the Mode Switch Button on the switcher, and check if every mode is corresponded to six flight modes on the Mission Planner by **Current mode** and **Current PWM** in the top of the GUI. And PWN value should be near the middle value of every mode.

Number	PWM Range	PWM Median
Flight Mode 1	0~1230	<1130
Flight Mode 2	1230~1360	1295
Flight Mode 3	1361~1490	1425
Flight Mode 4	1491~1620	1555
Flight Mode 5	1621~1749	1685
Flight Mode 6	1750+	>1850

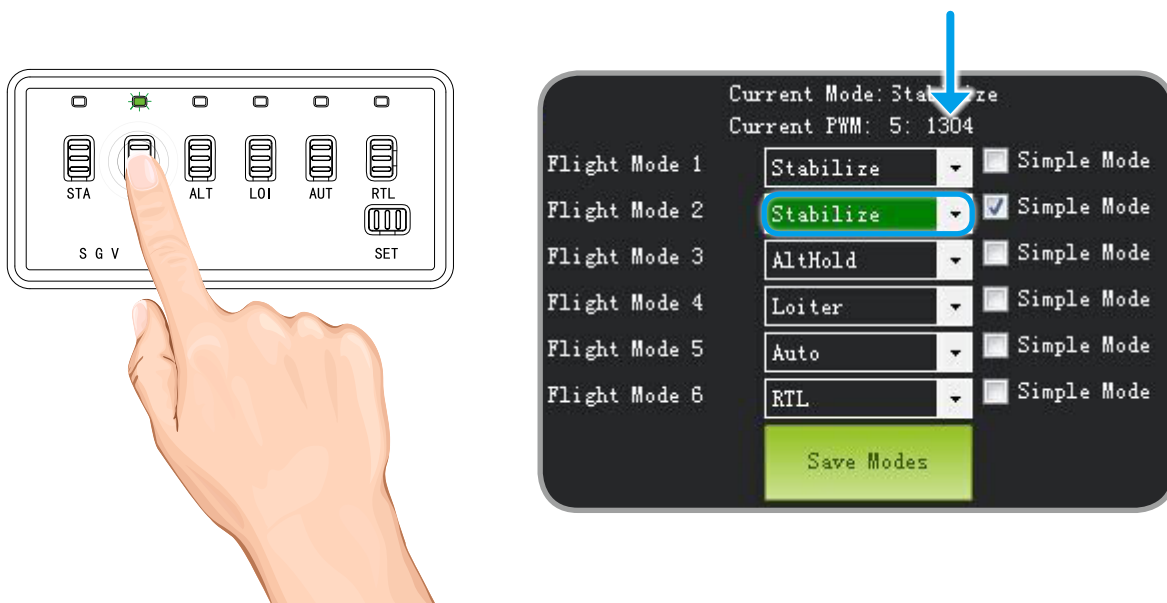
Exampled by Flight Mode 2 settings, introduce PWM value setting method of flight mode switch.



Press **SIM** button, and if the green indication line still stays at Flight Mode 1, you should set the parameters. Specific operations are following.



- Press **SET** button more than 3 seconds, and the green indicator blinks slowly. At present, press **SIM** button can turn down PWM value.
- Press **SET** button again, and the green indicator will blink quickly. At present, press **SIM** button can turn up PWN value.
- Long press **SET** button till the green indicator solid when PWM value is near the middle value of its mode and settings can be saved.



- Long press **SET** button more than 3 seconds and press it again after seeing the green indicator blink slowly.
- At present, current PWN value can be turned up to near "1295" value by pressing **SIM** button and green indication line will automatically switch to Flight Mode 2.
- Long press **SET** button can save current settings.

Specifications

Type	Flight Mode Switcher
Supported Devices	Futaba 6EX AP, WFLY6A/6C/7, Saitek X52 Pro, Frsky T6 etc.
Non-supported Devices	WFLY6B
Working Voltage	3V~5V
Operating Temperature	-10°C ~60°C
Operating Humidity	10% RH ~ 90% RH (non-condensing)
Dimension	59mm(L)×29mm(W)×9.3mm(H)
Weight	12.6g

The content is subject to change.

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