



Thank you for purchasing our products. Read the manual carefully to ensure your personal safety as well as the safety of your equipment.

If you encounter any problems during using, please refer to this manual first. If the problem is still not resolved, please contact the local dealer directly or contact the customer service staff via the website below: http://www.flysky-cn.com

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1.1 Safety Symbols

Pay close attention to the following symbols and their meanings. Failure to follow these warnings could cause damage, injury or death.

A Danger	• Not following these instructions may lead to serious injuries or death.
Marning	Not following these instructions may lead to major injuries.
Attention	Not following these instructions may lead to minor injuries.

1.2 Safety Guide



- Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not use the product on rain or snow days. 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 site where other radio control activity may occur
 - Near power lines or communication broadcasting antennas
 - Near people or roads
 - On any body of water when passenger boats are present
- 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 object can block the RF signal and lead to 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.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- 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.
- Ensure that all motors operate in the correct direction. If not, adjust the direction first.

Make sure the model stays within the systems maximum range to prevent loss of control.





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2.Introduction

This product uses the 2.4 GHz ANT(Ant protocol) enhanced automatic frequency hopping digital system, consisting of FS-ST16 transmitter and FS-SR8 receiver. It has an output of 16 channels. And there is a variety of built-in models that you can set as your desired. It adapts fixed-wing aircraft, helicopters, gliders, multicopters, robots, boats or cars.

2.1 Transmitter Overview



Back View





Balanced Charging Port (2.54mm 3-Pin) Note: Only the balanced charging port supports power supply to the external RF module.



Top View



Bottom View





2.1.1 Control(MENU Button/EXIT Button/Scroll Wheel)



The functions of the MENU button, EXIT button, and Scroll Wheel are described below.

MENU Button

- On the Home interface, short press the MENU button to enter the Main Menu interface;
- When not on the Home interface, Short press the MENU button to return to the Home, but it cannot be returned to the Home during a pop-up or firmware update.

EXIT Button

- On the Home interface, short press the EXIT button to enter the Home1 interface.
- On the Home interface, long press the EXIT button for 2s to lock the screen; long press it again to unlock the screen;
- When not on the Home interface, short press the EXIT button to return to the previous interface or exit the editing mode.

Scroll Wheel

- On the Home, Home2, main menu or functional interface, scroll the wheel to select the function item, and short press the scroll wheel to enter the function item;
- In the function item settings state, scroll the wheel to adjust the parameter; quickly scroll the wheel to adjust rapidly. Short press the scroll wheel to save and exit;
- In the function interface, long press the scroll wheel for 2s to reset all the data on the current page to default values;
- In the function settings state, if there are only two parameters, short press the scroll wheel to switch between them.









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2.2 Receiver Overview (FS-SR8)



[1]	CH1	[8]	СН8	[15]	S(Signal Pin)
[2]	CH2	[9]	BIND Connector	[16]	LED
[3]	CH3	[10]	BVD/VCC (Battery Voltage Detection/Power Supply Connector)	[17]	Antenna
[4]	CH4	[11]	SENS	[18]	Bind Button
[5]	CH5	[12]	SERVO/S.BUS		
[6]	CH6	[13]	- (Power Cathode)		
[7]	CH7	[14]	+ (Power Anode)		

2.2.1 Receiver LED

The LED status indicates the power supply state of the receiver and its working state.

Off: The receiver is not powered on.

Solid ON: The receiver works normally.

Fast Flashing: The receiver is in the binding mode.

Slow Flashing: The transmitter bound is powered off, or it has been not bound with a transmitter, or the receiver does not receive any signal.

Three-flash-one-off: The receiver is in the forced update mode.

Flash-once, ON-once, and OFF-once: The receiver has been set to a PWM converter.

2.2.2 Connector

All channel connectors are 2.54mm*3 Pin standard pins, and connectors are used to connect the receiver to the various components of the model.

Note: When using, please pay attention to the indicator marks on the receiver to ensure correct operation. Some marks may be located on the side of the receiver. Please operate according to the direction indicated by the marks to avoid misuse or damage to the equipment.







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FLYSKY-**3.Getting Started**

Before operation, install the battery and connect the system as instructed below.

3.1 Transmitter Battery Installation

A Danger	•	Only use included batteries.
Danger	•	Do not open, disassemble, or attempt to repair the battery.
Danger	•	Do not crush/puncture the battery, or short the external contacts.
Danger	•	Do not expose to excessive heat or liquids.
Danger	•	Do not drop the battery or expose to strong shocks or vibrations.
Danger	•	Always store the battery in a cool, dry place.
Danger	•	Do not use the battery if damaged.

Installing the 18650 battery

Follow the steps below to install the 18650 battery:

- 1. Open the battery compartment cover as shown.
- 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 which are equipped one JST connector or one balanced charging connector of the battery wiring. Follow the steps below to install the LiPo batteries:

- 1. Open the battery compartment cover.
- 2. Use a phillips screwdriver to remove the two screws that secure the 18650 battery holder, and then remove the battery holder.
- 3. Insert 2S LiPo batteries into the compartment.
- Plug the battery wiring of the LiPo battery into the JST port or 4. balanced charging port accordingly.
- Close the battery cover, pay attention to avoid pinching the 5. battery wiring.

Notes:

- 1. Only the balanced charging port can be used for charging.
- 2. Once the transmitter has the battery installed, you can use a USB Type-C cable to connect to the transmitter's USB Type-C port for power supply.

3. Only the balanced charging port supports power supply to the external RF module.









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Adjust the Antenna

Pull out the remote control antenna and rotate it to the appropriate position, as different antenna positions will receive varying signal strengths.

Based on the relative position of the remote control and the model, adjust the direction of the remote control's external antenna and align the antenna indicator towards the model to ensure the best signal quality between the transmitter and the model.

The suggested antenna angles for operating a model with a transmitter are shown in the figure below:

Aircraft models can refer to the following angles:



Car, ship, and robot models can refer to the following angles:





4. Operation Instructions

After setting up, follow the instructions below to operate the system.

4.1 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.
- Long press (), and follow the prompts on the screen to successfully power on.
 - If the built-in RF module is not detected or needs to be updated, the system will prompt a pop-up window. Please follow the instructions in the pop-up window to proceed.
 - Whether the switch is in the safe position (If the control background is highlighted in red, it indicates that the position needs adjustment). Please check the position of the control according to the prompts and follow the prompts to adjust it to the correct position.
 - The system will pop up a window prompting whether the failsafe is set for the current model. To turn off the failsafe prompt, select No or turn off the Failsafe Prompt through System.
 - If the system is powered on using the USB Type-C port without a battery installed, a pop-up window will appear, "Please use after installing the battery!"



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Note Note	Operate with caution in order to avoid damage or injury.
Note	• Make sure that the throttle is at its lowest position and the switches are set to their up position.

4.2 Binding

The transmitter and the receiver have been pre-bound before delivery. If you need to use other receivers, follow the steps below to bind the transmitter and the receiver. The transmitter supports both ANT 2 Way and ANT 1 Way binding, and ANT 2 Way binding is the default setting. The transmitter will display the information returned by the receiver after the ANT 2 Way binding is completed. Before binding, it is necessary to set RF System, RF Standard, Output Mode, and Frequency according to the actual application scenario.

[RF System] Two modes are available: Routine and Fast. In Routine mode, it presents strong anti-interference performance against other devices, while Fast mode provides better coexistence with lower latency and power consumption.

[RF Standard] To select RF protocol, either ANT 2 Way or ANT 1 Way.



[Output Mode] Two combined output options are available, including four output modes, namely PWM/S.BUS, PPM/i-BUS, PWM/i-BUS and PPM/S.BUS. Choose according to your needs. Using the FS-ST16 transmitter and FS-SR8 receiver for binding as an example:

- When the [Output Mode] is set to PWM/S.BUS, connectors such as CH1 output PWM signals, and the SERVO connector outputs S.BUS signals.
- When the [Output Mode] is set to PPM/i-BUS, the CH1 connector outputs PPM signals, other channel connectors have no output, and the SERVO interface outputs i.BUS signals.
- When the [Output Mode] is set to PWM/i-BUS, connectors such as CH1 output PWM signals, and the SERVO connector outputs i.BUS signals.
- When the [Output Mode] is set to PPM/S.BUS, the CH1 connector outputs PPM signals, other channel connectors have no output, and the SERVO interface outputs S.BUS signals.

Note: Regardless of which type the receiver's [Output Mode] is set to, the SENS connector will output the i-BUS-in signal. [Frequency] Set the frequency of channels. Options include Digital Servo, Analog Servo, and Other.

After the above settings, complete ANT 2 Way binding following the steps below:

- 1. Select Start, and short press the scroll wheel, the transmitter will enter binding state.
- 2. Press and hold the BIND button of the receiver while powering on the receiver, the LED of the receiver should be flashing, indicating that the receiver is in bind mode.
 - For other binding ways, please refer to the FS-SR8 receiver manual.
- 3. When the receiver LED is solid on, it indicates successful binding.
- 4. Check whether the transmitter and receiver are operating properly. For re-binding, please repeat the above steps.

Note: If the transmitter that has its RF standard set to ANT 1 Way 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. O1:Model01C1 RX II TX IIBind SetupRF SystemRoutineRF StandardANT 2WayOutput ModePWM/i-BUS>Frequency50Hz >BindStart

- This binding procedure applies to FS-G11P transmitter and FS-R11P receiver, different receivers may enter the forced update in different ways, please go to the FLYSKY website to query the instructions of the relevant receiver for action.
- The products are subject to constant update. Please enter FLYSKY website for the latest transmitter and receiver compatibility form.

4.3 LED

The transmitter LED includes the power indicator (located at the \bigcirc button), the main ambient lights (located around the gimbal assemblies) and the secondary ambient lights (located at the shortcut 1-6 buttons). The transmitter LED can be adjusted for color and brightness according to different scenarios and personal preferences. The specific reference for the transmitter LED is [14.1.9 Main light].







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4.4 Stick Cal

Use this function to correct for the mechanical deviation of the controls (left/right stick, VRA and VRB knob, VRC and VRD self-centering dial). For example, deviation occurred in the self-centering or maximum/minimum travel. By default, the calibration is finished. If you need to calibrate again, follow the steps below:

- Go to Home > Main Menu > RX Menu, and select Stick Cal, then short press the scroll wheel, and select Yes on the pop-up interface, then short press the scroll wheel to enter the function interface.
- 2. Move the controls to its center positions according to the prompt, and short press the scroll wheel.
- 3. Move the controls to their Max/Min travels, and short press the wheel, the calibration interface is exited, indicating the calibration is successful.

If the calibration fails, the system will pop up a prompt interface, scroll the wheel to select No and short press the scroll wheel to recalibration; otherwise to cancel the calibration.



4.5 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.

Danger • Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.









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5.System Interface

This section provides an introduction to the system interface.

Home

In this interface, you can quickly access the Timer1, Timer2, Sensor Set, and Model Function settings interfaces by using the scroll wheel.



Function Status Display Area

The function status bar displays the status of various functions. If the function shows in bright color, then it is active; if it is light gray, then it is inactive.



Home 2

You can customize the quick display function interface. The default display is the sensor settings interface.

Setup:

- 1. Select [System Menu]>[Setup]>[Home 2];
- 2. Short press the scroll wheel to enter the Home 2 settings interface, then scroll the wheel to select the function item, and short press the scroll wheel again to save the settings;
- **3.** Return to the Home page and short press the EXIT button to enter the Home 2.

	01:Model01	C2 RX 💴 T	X 🗔 🖬	Setup
	Idle Alarm	Off	~	
	Auto Shutdown	Off	~	
	Home 2	Sensor	>	
	Power Light	On		
	Main light	White	>	50%
	01:Model01	C2 RX 💴 T	X 🗖	Home 2
•	01:Model01 CH Monitor	C2 RX 💴 T	X 💷 📕	Home 2
	01:Model01 CH Monitor Sensor	C2 RX 💌 T	X 💷 🛛	Home 2
•	01:Model01 CH Monitor Sensor Failsafe	C2 RX 💌 T	X 💷 🛛	Home 2
•	01:Model01 CH Monitor Sensor Failsafe Timer	C2 RX 📧 T	X 💷 🛛	Home 2
•	01:Model01 CH Monitor Sensor Failsafe Timer System Menu	C2 RX 😒 T	X 💷 🕹	Home 2









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6.Basic Menu

This section introduces the Basic Menu and related settings. Press the MENU button to enter the Main Menu, scroll the roller to select [Basic Menu], and then scroll the wheel to enter the Basic Menu.



Two dots indicate that two pages are included in Basic function interface. If the dot is black, indicating that the page is the current page. Swipe the interface left to access the other page.

6.1 CH Monitor

Used to display the real-time status of channels and to test servos.



To show the information of all channels. Channel Test Entry

To show the information of channel 1~8 or channel 9~16. You can view the channel values, names, and control information.

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6.1.1 Display Servos

To display the real-time output value of each individual channel. Setup:

- 1. Select [CH Monitor], then select the channel you need to monitor;
- 2. Toggle the control assigned to the channel;
- 3. Monitor the output value of the channel in Display servos interface;
- 4. Short press the EXIT button to return.



6.1.2 CH Test

The servo can be tested. When it is turned on, the servos of all channels will move slowly and repeatedly. Please be caution when the function is activated.

Setup:

- 1. Scroll the wheel to select [CH Test], the system displays a pop-up window, choose [Yes] to enter the channel test mode. When test mode is active all channels will slowly move through their entire range of motion.
- 2. Short press the EXIT button to to exit the interface and stop the test.











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6.2 Model Set

Used to set up functions related to the model.

6.2.1 Model Select

Switch to the currently used model.

Setup:

- 1. Select [Model Select] to enter the Model Select setting interface;
- 2. Scroll the wheel to select the desired model as needed, and when the system displays a pop-up window, choose [Yes] to confirm the switch successfully.

The green dot indicates that this model is the current model in use.





6.2.2 Model Name

Used to modify the name of the current model. Supports a maximum of 12 characters.

Setup:

- 1. Select [Model Name], enter the soft keyboard interface;
- 2. After setting an appropriate name, scroll the wheel to select , then short press the scroll wheel to return.

01:Model01 C2 R					(×!	TX		Мос	del N	ame
Model01										
1 2 3 4 5 6 7 8 9 0									0	
q	w	′ e	:	· 1	t []	y	u	i	0	р
i	a	s	d	f	g	h	j	k		
AB	С	z	x	с	V	b	n	n	n	×
		<					>			/





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6.2.3 Model Type

Set the Model Type and model-related parameters and functions. For fixed-wing and glider models, you can set Wing layout, Tail layout, and Optional; for helicopter models, you can set Swash Plate and Optional; for car and robot models, you can set Move setup and Optional; for ship models, you can set Drive Struct and Optional.

Note: When switching model types, the model data will be reset, and the system will display a pop-up window.



Take the airplane for an example, the setting steps are as follows. For the related setting of glider, refer to the steps below.

Setup:

- Short press the scroll wheel to select [Model Type], enter the function interface;
- 2. Select [Wing layout] directly as the airplane is the default model, then select the appropriate wing configuration according to the actual model and short press the scroll wheel to save settings. Afterwards, it goes to the next setting automatically;
- 3. Select [Tail layout], then select the appropriate tail configuration according to the actual model and short press the scroll wheel to save settings. Afterwards, it goes to the next setting automatically;
- 4. Select [Optional], then select the appropriate functionality according to the actual model and to save settings.



Note: For Tail configuration, when you set two ailerons or above for the Wing, then some configuration items related to tailless will display.

01:Model01	C1 RX 💴 🛛 TX 🗔	Model Type
	THRO	1
	Gear	0
Ning layout	SPOI	0
Tail layout	NEEDL	0
Optional	ATTI	0

Short press the scroll wheel to set the quantity. You can set more than one for some functions, for the Throttle, there are up to 4.

Note: The optional function items vary with different model types. For example, for the Airplane, you can set the rudder wheel, Gear and so on, but for the Ship, the Wave and the Grip can be set.











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Digital Proportional Radio Control System **FS-ST16**

The following are the steps for setting up the helicopter's functions:

- Select [Model Type]>[Helicopter];
- 2. Since the helicopter's Swash Plate only includes [H-1], you can directly select [Optional] and set the appropriate functionality according to the actual model by short pressing the scroll wheel to save the settings.



When the model type is a multicopter, there is no need to set up related model parameters and features.



The following are the steps for setting up the ship's functions:

- 1. Select [Model Type]>[Ship];
- 2. Select [Drive Struct], set the Drive Struct according to the actual model and save the settings by short pressing the scroll wheel. Afterwards, it goes to the next setting automatically;
- 3. Select [Optional], set the appropriate functionality according to the actual model by short pressing the scroll wheel to save the settings.

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The following are the steps for setting up the car's functions; please refer to these steps for robot-related settings as well.

- 1. Select [Model Type]>[Car];
- Select [Move setup], select the appropriate car type according to the actual model and short press the scroll wheel to save settings;
- 3. Select [Optional], set the appropriate functionality according to the actual model by short pressing the scroll wheel to save the settings.



6.2.4 Mode Copy

To copy the data of the selected model to another model. When a new model is to set up, you can use this function to copy existing model data and then modify different parts without repeating the settings. It is very convenient.

Setup:

- 1. Select [Mode Copy] to enter the function interface;
- Select the model to be copied;
- 3. Select [Copy], the system displays a pop-up window, and choosing [Yes] means the copy is successful.

Display the Copied Model. Display the current model. 01:Model01 C1 RX EXITY Mode Copy From 1:Model01 Copy to 2:Model02 Copy to Copy the selected mode? YES NO









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6.2.5 Model Reset

Reset all model data for the current model.

Note: Binding information will not be reset.

Setup:

Select [Mode Copy], the system displays a pop-up window, and selecting [Yes] completes the reset.



6.3 Reverse

To reverse the output direction of each channel.

This function can be used to correct the direction of the servo action which is opposite to the intended operation. Due to different servo types or servo installation methods, servo directions can be set for 16 channels.

[NOR]: Indicates that the channel output is the default direction.

[Reverse]: Indicates that the channel's direction has been reversed.

Notes:

- 1. If a new model is connected, make sure the corresponding channel of the servo is correct.
- 2. Move the controls related to channels to make sure that the direction of each channel is correct.

Setup:

- 1. Select [Reverse] to enter the function interface;
- 2. Scroll the wheel to select the channel you want to set, and short press the scroll wheel to switch between [NOR] or [Reverse].

01:Model01	C1 RX 💴	TX 🗾	Reverse
CH1(AILE)			NOR
CH2(ELEV)			NOR
CH3(THRO)			NOR
CH4(RUDD)			NOR
CH5(AUX05)			NOR









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6.4 Servo Rote (include Sub Trim)

Adjust the travel range of the servo output, which is used during the model debugging process. This function allows you to set the high and low endpoints for each channel, as well as the neutral position value.

This function can be used to solve the problem of angle difference between the servo and model structure when the servo is installed, or due to the structural inherent clearance of the servo. When you set the subtrim, toggle the trim to the neutral position first.

Servo Rote adjustment range is 0%~150%, the default is 100%, the step is1%.

Sub Trim adjustment range is -120%~120%, the default is 0%, the step is 1%.

Setup:

- 1. Select [Servo Rote] to enter the function interface;
- 2. Scroll the wheel to select the channel you wish to configure, and then choose the function item you want to set;
- 3. Scroll the wheel to set the appropriate endpoints and neutral position value, then short press the scroll wheel to save the settings.

l 01:Mc	odel01 C1 R	X 💴 🛛 TX 🗾	Servo Rote
СН	High	Low	Sub Trim
CH1	100%	100%	0%
CH2	100%	100%	0%
СНЗ	100%	100%	0%
CH4	100%	100%	0%
CH5	100%	100%	0%

6.5 Delay Set

This feature allows you to set the output speed of the channel. The easing time of start and centering can be set separately, that is, the easing time can be changed by different start and centering speeds.

You can use this function if you want to simulate the movement of a real aircraft or make up the mechanical virtual position of the servo.

After setting the easing time, all the volumes output from this channel execute the easing.

The minimum delay is 0.0s, and maximum delay is 10. 0s. The adjustment step is 0.01s.

Setup:

- 1. Select [Delay Set] to enter the function interface;
- 2. After scrolling the wheel to select the channel you want to set, enter the setup interface;
- 3. Select the appropriate type as needed, then set In time and Out time, short press the scroll wheel to save the settings_











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6.6 Func Assign

Assign functions, controls and trim buttons to all channels. By default, the functions are assigned by model types after a new model is created. You can set the function here if you want to assign according to your habits.

l 01:Mc	odel01 C1 R	X 💴 🛛 TX 🗾	Func Assign				
Mode1:N	Mode1:Normal						
СН	Func	Control	Trim				
1	AILE	J4	TR4				
2	ELEV	J2	TR2				
3	THRO	J1	TR1				
4	RUDD	J3	TR3				

If the small triangle at the bottom right of the function box is blue, the setting is for all conditions. If it is green, the setting is for the current condition.

6.6.1 Assigning Function Items

To set the function controlled by each channel.

Setup:

- 1. Select the channel you want to set;
- 2. Select the function item to enter the settings interface;
- 3. Assign appropriate functions as needed.
 - If you want to create a • auxiliary channel for the the control, select [Custom] to set a appropriate name, then select 🔽 to return.

I 01:Mo	del01	C1 RX 🗵	! TX 🗾	Func Assign										
Mode1:N	lormal													
СН	Fune	с	Control	Trim										
1	AILE		J4	TR4										
2	ELE	V	J2	TR2	01:	:Mode	101	C1	RX 🖸	K! T)	X 🗾	Fu	inc As	ssign
3	THR	0	J1	TR1	AUX	01								
4	RUD	D	J3	TR3	1	2	3	4	5	6	7	8	9	0
					q	w	e	r	t	У	u	i.	0	p
01:Mo	del01	C1 RX 🗵	! TX 🗾	CH1Func Assi	a	Ţ	d	T			h	i	k	î l
AIL	_E	ELE	EV	THRO	ABC	z	x		:	9 V	b	n	m	×
RUI	DD	Cust	om		,	<						>		~









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6.6.2 Control Assign

To set specific controls corresponding to each channel. All controls except for the TR type and the shortcut1~6 can be assigned.

Setup:

- 1. Select the control item to enter the control settings interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- 3. Short press the EXIT button to return.

	01:Mo	odel01 C1 RX		(💌 ! TX 🗾		Func Assign		۱.	
	Mode1:Normal								
	СН	Fund	:	Cor	ntrol		Trim		
	1	AUX0	1		14		TR4		
	2	ELE	/	,	12		TR2		
	3	THRO	C	,	11		TR1		
	4	RUDI	0	J3			TR3		
	l 01:Mo	del01	C1 RX	⊠! T	X 🗾	СН	1Control	ι	
>	RC- SASB	RB SCSD			וכ		J2		
	35 +			J3	J2	ļ.	VRA		
			,	VRB	VR	С	VRD		
			Ş	SWA	sw	ΈB	swc		
			\$	SWD	SW	Έ	SWF		

You can set the related parameters after the control assignment is completed. The parameters are different for different controls.

For J1-J4 or VR controls, you can set [Type], [UP End], [DW End] and [Condition]. The adjustment range of the highend and low-end is 20%~80%, the default is 50%, the step is 1%.

Take VRA as an example:

Setup:

- 1. After selecting [VRA], you will enter the parameter settings interface;
- 2. Choose the appropriate type as needed;
- 3. Set the appropriate high-end or low-end values as needed;
- 4. Short press the scroll wheel to switch [All Cond] or [Current], the system will display a popup window, and selecting [Yes] confirm the setting successfully;
- 5. Short press the EXIT button to return.



You can set four types: [Normal], [Reverse], [UP End], [DW End] [Normal]: Means that the corresponding control ratio changes from "-100% to 100%" when the control is moved from "down" to "up". It is conversely for Reverse. In other words, When the consecutive switches are moved from "down" to "up", the corresponding control ratio changes from "100% to -100%".

For [DW End] and [UP End], the control ratio only switches between -100% and 100%. Selecting [UP End] means the control ratio is 100% in the high position and -100% in the low position. It is conversely for [DW End].









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For SW or K controls, you can set [Normal] and [Condition]. Function settings refer to VRA function settings.



You can set two types: [Normal] and [Reverse] [Normal]: Means the control ratio is -100% when the control position is in the low position and 100% when the control position is in the high position (the neutral position control ratio in the three-level switch is 0%).

[Reverse]: It is conversely for [Normal]. In other words, the control ratio of the control is 100% in the low position and -100% in the high position.



You can set four controls: LSW1, LSW2, LSW3 and LSW4.

For Logic switches, you cannot set the parameters. When the control is ON, it means the control ratio is 100% . OFF means the control ratio is -100%. Function settings refer to VRA function

6.6.3 Function Trim Assignment

To assign trim buttons corresponding to each channel.

Setup:

settings.

- 1. Select [Trim] to enter the trim setting interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- 3. Short press the EXIT button to return.









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You can set the related parameters for the trim button after the trim assignment is completed. [Trim Mode], [Trim Rate] and [Condition] can be set.

[Trim Rate]: A total travel range of the channel that can be controlled by the trim knob. A negative value indicates the reverse.

The adjustment range of the trim rate is -150%~150%, the default is 45%, the step is 1%.

Taking TR1 as an example, the parameter settings are as follows:

Setup:

- 1. Select [TR1] to enter the parameter setting interface;
- 2. Select [Trim Mode], select the appropriate Trim mode from a dropdown menu;
- 3. Set the appropriate rate as needed;
- Short press the scroll wheel to switch [All Cond] or [Current], the system displays a pop-up window, select [Yes] to confirm the setting successfully;
- 5. Short press the EXIT button to return.



You can set four Trim modes: [Normal], [Cen Max], [H-Max] and [L-Max]. [Normal]: Means normal trimming (linear) operation;

[Cen Max]: Means the maximum trim adjustment in the neutral position, and no trim adjustment in the lowest and highest positions;

[L-Max]: The adjustment amount is the greatest when at the lowest position, and it decreases as it gets closer to the highest position, until it reaches 0 when at the highest position;

[H-Max]: The adjustment amount is the greatest when at the highest position, and it decreases as it gets closer to the lowest position, until it reaches 0 when at the lowest position.

6.7 Trim

You can view the trim values of TR1 to TR4 and VRA to VRB in this preview interface. For TR1 to TR4, you can set the appropriate step value and the current condition/all conditions. And for VRA to VRB, you can set the the current condition/all condition.

During use, a model control surfaces may occur a deflexion based on some situations, such as centre-of-gravity shift or anti-torque force produced by aerodynamics. You can use this function to correct it during flight to keep stable state. Please re-adjust the model in case of the overall excessive offset of the model cannot be corrected by trims function.

The adjustment range of the trim value is -100%~100%, the default step is 5%.

Setup:

- 1. Select [Trim] to enter the function setting interface;
- 2. Scroll the wheel to select the corresponding trim control.
 - If you select a TR control, you can adjust the step value as needed.
- **3.** Select [Condition], short press the scroll wheel to switch [Current] or [All]mode;
- 4. Adjust the trim value by operating the corresponding trim control.





III 01:Model01	C1 RX 🔲 TX		Trim
Mode1:Normal		Step	Condition
TR1	0	5	Current
TR2	0	5	Current
TR3	0	5	Current
TR4	0	5	Current
VRA	0		Current

6.8 Timer

You can set up four types of timers, including [Timer1], [Timer2]], [Engine Timer] and [Moder Timer]. Generally used to calculate the total model running time, competition specific time spent or transmitter running time, etc.

6.8.1 Timer1/2

[Timer1] and [Timer2] have the same function. Only one timer setting method is introduced below.

[Mode]: You can choose between [Up] and [Down].

- [Up]: Start timing from zero. •
- [Down]: Start timing down from the set time. After the Down timer, continue to time in a Up timer.

[Alarm]: Set the timer alarm time. Set the timer reminder, you can choose [Sound], [Sou+Vib] and [Vibration].

[Start]: For starting the timer, corresponding controls can be assigned.

[Stop]: For stopping the timer, corresponding controls can be assigned. [Reset]: Reset the timer value to its initial state, corresponding controls can be assigned.

[Home Dis]: Set whether the timer is displayed in the timer area on the Home page, you can select [1], [2] and [None].

- [1]: Display in the first area of the timer on the Home page.
- [2]: Display in the second area of the timer on the Home page.
- [None]: Do not display in the timer area on the Home page.

Note: If multiple timers have the same [Home Dis] setting, the original settings will be overridden. For example, if you first set Timer1's [Home Dis] to [1], and then set Timer2's [Home Dis] to [1], the first area of the home page timer will display Timer2 at that time.













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Setup:

- 1. Select [Timer] to enter the function setting interface;
- 2. Select [Type] > [Timer1];
- 3. Select [Mode], short press the scroll wheel to switch the timer mode;
- 4. Select [Alarm], set the alarm time and the reminder ;
- 5. Select [Start], [Stop], and [Reset] respectively to enter the Switch Allocation interface;
 - Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully.
- 6. Set whether Timer1 is displayed in the timer area on the Home page and its display position.

Note: Please refer to [15. Switch Allocation] for switch setting.

01:Mod	el01	C1 RX	🗙! TX 🛄	Timer	
Туре	Timer	1 ~	Mode	Up	
Alarm	0 M	0 s	Alarm	Sound	~
Start	0	ff	Stop	Off	
Reset	0	ff	HomeDis	1	~



6.8.2 Engine Timer

Turn on the timer by setting the throttle trigger value and calculate the operating time of the throttle after the trigger value. The adjustment range of the trigger value is 0%~100%. Engine Timer is off by default.

Setup:

- 1. Select [Type] > [Engine];
- 2. Select [Status], short press the scroll wheel to switch [On] or [Off];
- 3. Select [Reset] to enter the Switch Allocation interface;
 - Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- 4. Set whether Engine Timer is displayed in the timer area on the Home page and its display position;
- 5. Set the trigger value as needed, short press the scroll wheel to save the settings.

Note: Please refer to [15. Switch Allocation] for switch setting.



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6.8.3 Model Timer

To calculate total working time of the model. Mode Timer is off by default.

Setup:

- 1. Select [Type] > [Model];
- 2. Select [Status], short press the scroll wheel to switch [on] or [off];
- 3. Select [Reset] to enter the Switch Allocation interface;
 - Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- 4. Set whether model timer is displayed in the timer area on the Home page and its display position;

Note: Please refer to [15. Switch Allocation] for switch setting.

 01:Mod	el01 C1 F	RX [🗩 TX 💷	Timer	
Туре	Model	~	Status	Off	
Reset	Off		HomeDis	None	~

6.9 Trainer Mode

FS-ST16 transmitter supports two function modes: Trainer and Student. The transmitter set as trainer mode receives the external signal control model, namely the trainer port has the ability to recognize the external PPM signal input. The transmitter set as student mode only outputs the PPM signal. Two transmitters (one in trainer mode and the other in student mode) can be connected through the trainer cable.

Notes:

- 1. When connecting two transmitters with a trainer cable, please make sure that the trainer cable is connected correctly.
- 2. The transmitter's trainer port can be adaptive to recognize the input PPM signal. Most of the devices supporting PPM output can be used as the external input signal source of trainer mode. However, some devices may not support this function. The PPM output of the trainer port can be set to match external devices with special PPM signal recognition requirements.

When the trainer and student transmitters are properly connected, the relationship between the control switch states for the student and trainer and the actual control source is shown in the table below.

Trainer Control	Student Control	Actual Control
ON	ON	Trainer
ON	OFF	Trainer
OFF	ON	Student
OFF	OFF	Trainer





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6.9.1 Trainer Mode

When the trainer mode is set as trainer, it means that the transmitter only supports the functions of trainer mode. At this time, you can set the matched student mode of transmitter through the trainer feature and controls to realize the application of trainer transmitter function.

[Input1~16]: A control or function -
used to set the input channel.

01.1000			Hamer
Mode	Trainer	Trainer	Off 🖕
Input1	None	Input2	None
Input3	None	Input4	None
Input5	None	Input6	None
Input7	None	Input8	None
Input9	None	Input10	None
Input11	None	Input12	None
Input13	None	Input14	None
Input15	None	Input16	None

01:Model01

01:Model01

[Trainer]: This item must be off before the external signals can be used to control the model. Note: Under normal circumstances, the trainer uses the trainer mode to teach remotely. If you want to use the student mode to teach remotely, the trainer mode control switch must be off.

C1 RX 🗵! TX 🗔

Trainer

Off

Setup:

- Select [Trainer] enter the function setting interface;
- 2. Select [Mode] > [Trainer];
- **3.** Enter the Trainer Control Switch Allocation interface;
 - Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully.
- 4. Select [Input1~16] to enter the assigning interface as needed;
 - Select [Func] to enter the setting interface, then select the appropriate function item;
 - Select [Control] to enter the setting interface, then select the appropriate function item;
- 5. Short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.









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01:Model01

Trainer

Mode

	Func	UII.	Func	CII	Func	None
	AILE	2	ELEV	3	THRO	
1	RUDD	5	AUX05	6	AUX06	л
7	AUX07	8	AUX08	9	AUX09	J2 (Ö
0	AUX10	11	AUX11	12	AUX12	
3	AUX13	14	AUX14	15	AUX15	
6	AUX16					J4 O

6.9.2 Student Mode

When the trainer mode is set as student, the transmitter supports only functions of student mode. At this time, you can assign the control for the control trainer function, set the PPM signal parameters, such as signal polarity, channel number, period, and start identifier settings, to match the trainer mode transmitter and implement the trainer function application.

[Student]: Perform the switching to indicate whether the student accepts the control or not. Normally, this switch state is effective when Trainer control of trainer mode is disabled.

[Signal]: High level is valid by default positive. Some devices may recognize low level as valid signal. At this time, set the signal polarity to negative, that is, low level is valid.

[Num. CH]: Set the number of channels in a PPM signal. By default, a PPM signal contains 8 channels, the number of channels can be set as needed, the setting range is 4~16.

[Cycle]: Refer to the time of transmitting a PPM signal. The standard 8-channel PPM signal period is 20ms.

• When fewer channels are used, a shorter period can be set to shorten the time required to send a signal to reduce latency. However, the setting of the period can only shorten the idle period, instead of effective signal duration. Therefore, the setting of the period will not reduce the number of signal channels. When the number of channels increases and the effective signal sending time is greater than the period, the system will process the signal in the minimum idle mode, and the interface setting value will not be changed accordingly.

[Level]: The start mark time identifies the PPM signal. The default value is 400us. Set the appropriate value as needed, the range is 100 - 700us.

Setup:

- 1. Select [Trainer] to enter the function setting interface;
- Select [Mode] > [Student];

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- 3. Enter the Student Control Switch Allocation interface;
 - Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- 4. Select [Signal], short press the scroll wheel to switch [NOR] or [REV];
- 5. Select [Num. CH], scroll the wheel to set the number of the channel and short press the scroll wheel to save the settings;
- 6. Select [Cycle], scroll the wheel to set the period and short press the scroll wheel to save the settings;
- 7. Select [Level], scroll the wheel to set the starting identifier time and short press the scroll wheel to save the settings.

Note: Please refer to [15. Switch Allocation] for switch setting.

. II 01:Mod	el01 C1	RX 💴	TX 🗾	Trainer			
Mode Studer		nt	Student	Off			
Signal	NOR		Num.CH	8			
Cycle 20.0m		s Level		400us			
01:Model01 C1 RX 💌 TX 🔲 itch Allocation							
$\begin{array}{ccc} RA & RB \\ RC - RB & -RD \\ SA + -SB & SC + -SD \\ J3 & & & & & & & \\ J3 & & & & & & & & \\ J1 & & & & & & & & \\ J1 & & & & & & & & \\ J1 & & & & & & & & \\ J2 & & & & & & & & \\ \end{array}$			•				
			On	J1			
J3+++ Ji	→ 14 J2	J2	J3	J1 J4			
33		J2 VRA	J3 VRI	J1 J4 3 VRC			
J3 J SF+ K2- K4-	-SE -K1 -K3	J2 VRA VRE	J3 VRI O SW/	J1 J4 J4 VRC A SWB			





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6.10 Stick Mode

The system supports four stick functions. For aircraft models, CH1~4 are default mapped to "ailerons, elevator, throttle, and rudder" respectively (J1, J2, J3, J4 represent CH3 throttle, CH2 elevator, CH4 rudder, CH1 ailerons). To accommodate different user preferences, the transmitter's stick presets support 4 different layout settings. You can choose between [Mode 1], [Mode 2], [Mode 3], or [Mode 4] to indicate the current selected mode (the system defaults to [Mode 2]). After selection, return and adjust the gimbal assembly according to the chosen mode and operational requirements. Please select the appropriate mode based on your actual needs and follow the steps below to proceed.

TX 🔲

RUDD

Mode2

Mode4

J4 RUDD

C1 RX

01:Model01

RUDD

Mode1

Mode3

J4 RUDD

Setup:

- 1. Select [Stick Mode] to enter the function setting interface;
- Set the corresponding mode as needed, the system displays a pop-up window, selecting [Yes] means the setting is successful;
- 3. Short press the EXIT button to return.

6.11 SW Setting

This function is used to set up the whether it will be a two-position switch or a three-position switch for SWA, SWB, SWC, SWD, SWE and SWF. If these six switches need to be replaced, you can use this function to set the positions of the new switches.

Setup:

- 1. Select [SW Setting] to enter the function setting interface;
- 2. Select the switch you want to set, and then short press the scroll wheel to toggle between [2 Levels] or [3 Levels].

01:Mode	101 C1 RX		Switches Set
SWA	2 Levels	SWB	3 Levels
c W C	3 Lovols	CWD	2 Lovols
SWC	3 Levels	SWD	2 Levels
SWE	2 Levels	SWF	2 Levels

The function assignment

will return to the default

OK?

NO

6.12 Quick Set

To set the functions for shortcut buttons 1 to 6, so that pressing the corresponding key will quickly access that function. The Serial No. 1 to 6 represent shortcut button1~6.

C1 RX

TX 🔲

Func Assign

Timer

Note: Shortcut buttons 1 to 6 are only effective on the Home page.

01:Model01

Setup:

- 1. Select [Quick Set] to enter the function setting interface;
- Select number to enter the quick function setting interface, scroll the wheel to select the corresponding function item;
- 3. Short press the EXIT button to return.







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	*		
01:Model01	C1 RX 💌	TX 🗔	Quick Set
None			Ø
Failsafe			\odot
Home 1			0
CH Monitor			0
Func Assign			0


7.Fixed-wing/Glider Exclusive Function Setting

This chapter introduces the function settings of Fixed-wing/Gilder mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model Menu to set the related functions of model via [Main Menu]>[Model Menu].

Note: The function interface may different based on different model configurations.



7.1 CH Monitor

Please refer to [6.1 CH Monitor] for this function.

7.2 Condition

You can set different flight modes, with a maximum support of 5 flight mode groups. A control can be set to quickly switch between different transmitter settings to ensure that the model's settings are adapted to the current flight conditions. Flight Mode 1 is the default mode for the transmitter to work. Users can delete, create, or copy flight modes as needed, and except for the default mode, a control element must be assigned to switch modes. You can also set the default flight mode by adjusting the priority order; when a mode is moved to the top of the interface, it becomes the default flight mode. The current flight mode can be determined through the flight mode icon in the system's top status bar and the interface related to flight mode settings.

Notes: Different parameters can be set for multiple functions of this transmitter by switching different conditions, to perform control operations in different conditions according to different setting parameters. The details are as follows:

- 1. For [Func Assign], different assignments of control and trim can be set for different conditions, or the same for all conditions.
- 2. For [DR setup], the effective condition can be selected (multiple choices). The DR effectiveness of switching in different conditions may be different.
- 3. Other items related to the condition can be set separately by switching different conditions, and the channel operation can be executed according to this condition. These setting items are contained in the following function interfaces: [Func. Rate], [CH Offset], [Pro. Mix], [Delay Set], [Thro Curve], [Aileron], [Flap], [NEEDL], [Air Brake], [Spoiler], [Elevator], [Rudder], [Butterfly], [V Tail], [Thro Mix], [Pitch Curve], [Hover Adj], [Gyroscope], [Governor].



7.2.1 Rename

7.2.2 Set Switch

Setup:

To rename the condition selected.

Setup:

Select [Rename] to enter editing interface, set the name accordingly as needed, then select **v** to confirm the setting and return to the previous interface.

Select [Set switch] to enter Switch Allocation interface, scroll the wheel

as needed to select the appropriate control or toggle the corresponding

control, then short press the scroll wheel to confirm the setting

Note: It supports up to twelve characters.

To set a control to switch among the conditions.

successfully, short press the EXIT button to return.



The green dot indicates the model currently in use.



7.2.3 Creating A New Model

To create a new condition.

Setup:

Select [New/Copy], the system displays a pop-up window, select [Yes] to confirm the setting successfully.











7.2.4 Deleting A Model

To delete a condition selected.

Setup:

Select the condition you want to delete, then choose [Delete] to display a pop-up window. Selecting [Yes] will confirm the deletion.

Note: If there is but one group of condition, you cannot delete it, namely there is no Delete function item.



7.2.5 Change Priority

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Changes the order of the conditions so as to change the priority. The condition corresponding to the serial number 5 has the highest priority, and the number 4 is the next highest priority. The system works in this way according to this sequence.

Note: If there is only one condition, it is not possible to set a switch or priority. The default condition is number 1.

01·Model01			Condition
01.Model01			Condition
• 01:Normal			Rename
02:Normal1		Off	Set switch
03:Normal2		Off	New/Copy
			Delect
			Up Down
01:Model01	C1 RX 💴	TX 🗔	Condition
01:Model01 • 01:Normal	C1 RX 💴	TX 💽	Condition Rename
01:Model01 O1:Normal 02:Normal2	C1 RX 💌	TX 📭 Off	Condition Rename Set switch
01:Model01 O1:Normal O2:Normal2 O3:Normal1	C1 RX 🗵	TX Off Off	Condition Rename Set switch New/Copy
 01:Model01 01:Normal 02:Normal2 03:Normal1 	C1 RX 🗵	TX Off Off	Condition Rename Set switch New/Copy Delect







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7.3 Func. Rate

You can set servo volume change curves of all sticks, knobs, and switches assigned to the channel. You can switch to different conditions to set different curves respectively. The servo volume change curve for the conditions controlled by DR is set after enabling the DR. Those not supporting the assignment of the master control, such as Flap 2, cannot be set. The allocation of the same function of different channels from any setting entrance into the settings is the same.



Note: When the curve type is set to [EXP2,Line], Rate A refers to the rate on the left side of the neutral, while Rate B refers to the rate on the right side of the neutral. Curve A is the curve on the left side of the neutral, and Curve B is the curve on the right side. Both sides of A and B can be adjusted independently. When the curve type is set to [EXP2,SYMM] or [EXP1], the rate and curve items are not divided into A and B sides and can be adjusted as a whole.





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7.3.1 Curve Type Setup

Set the curve type.

Setup:

- Select the corresponding channel rate to enter the setting interface;
- 2. Switch [Type] as needed, the system displays a pop-up window, and then selecting [Yes] indicates that the switch has been successful.

			·			¥			
01:Model01 C1 RX 💴!	TX 💶	AF	R-AILE	01:1			TX 💽		
Mode1:Normal				Mode1:					
Position:100 Rate:100	Туре	EXP2,S Rate	бүмм 🗸	Pos 100 80	The cu	rrent data	will be	reset!	→ ateB
40	Rate	100%		40	Do	you want t	o switc	h?	
20 0 -20	EXP	Curve 0%		20 0 					
-40 -60	OFF	0%		-40	Y	ES	NC)	
-80 -100	DR	Set		-80 -100					
\								1	
01:Model01 C1 RX 🗵!	TX 💶	AF	R-AILE	01:N	lodel01	C1 RX 💴	TX 💶	AFR	AILE
Mode1:Normal				Mode1:	Normal				
Position:100 Rate:100	Туре	EXP2,I	_ine ∨	Posit	tion:100	Rate:100	Туре	EXP1	~
60 40	Rate	RateA 100%	RateB 100%	60 40			Rate	Rate 100%	
20 0 20	EXP	CurveA 0%	CurveB 0%	20 0	/	/	EXP	Curve 0%	
-40	OFF	0%		-40			OFF	0%	
-80 -100	DR	Set		-80 -100			DR	Set	

7.3.2 Setting Rate/EXP/Offset

Set the related Rate, EXP and Offset after a line type has been set. Take Rate setting as an example.

Setup:

- 1. Select [Type]>[EXP2,Line];
- 2. Select [Rate A], scroll the wheel to adjust the percentage of the Rate A, and then short press the scroll wheel to save the settings.
 - For the setup steps of [Rate B], please refer to the content mentioned above.

Note: For the setting of EXP and Offset, refer to the setting of Rate.











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Set the function, switch of DR and effective condition to enable the DR. The transmitter supports 10 groups of DR. When 2 or more sets of D/R are set to the same function and both are turned on, the one after the other has higher priority.

Steup:

- Select [DR] to enter the function setting interface, then select DR1~10 as needed;
- Select [Func.] to enter the function assigning interface, then select the function item and short press the scroll wheel to save the settings;
- Select [Switch] to enter the Switch Allocation interface, scroll the wheel as needed to select the appropriate control or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully;
- Select [Ena. mode] to enter the mode setting interface, enable or disable the corresponding mode as needed;
- 5. Short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.



I 01:Mo	del01	C1 R)	X 🗵	TX 💶	DR
	Fu	nc		Switch	Ena. mode
DR1	Al	LE		Off	1,2,3
DR2	All	LE		Off	1,2,3
DR3	Al	LE		Off	1,2,3
DR4	All	LE		Off	1,2,3
DR5	Al	LE		Off	1,2,3

	¥		
01:Model01	C1 RX 💴 T)	K 🔲 Swi	tch Alloca
RC- RA RB SA- SB SC- SD		On	J1
J3+	J2	J3	J4
	VRA	VRB	VRC
K2K1 K4K3	VRD	SWA	SWB
	SWC	SWD	SWE

01:Model01	C1 RX 💴	TX 💶	Ena. Mode
1:Normal			Enable
2:Normal2			Enable
3:Normal1			Enable







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7.5 CH Offset

This function allows you to adjust the offset value of each channel, and you can set different offset value in different conditions. The offset value caused by the model can be corrected using this function. Too much offset setting will lead to a reduction in the amount of control at one end of the channel. If the aircraft structure deviates greatly, please try to adjust the aircraft first.

Setup:

- 1. Select a channel you want to adjust to enter;
- 2. Select [Value], scroll the wheel to set the offset value and short press the scroll wheel to save the settings.



7.6 Pro. Mix

A new special control combo can be created to correct the disadvantages of the model. You can select a stick/knob or a function as a Master. When selecting a function, you can set whether other mixes associated with the function affect the Slave of the same group and whether the trim affects the Slave. The function can be used to set the servo change of the Master mapping to the Slave channel through a custom curve. You can set a switch to enable/disable the Mix, and set the delay to enable/disable the Mix function. Please note if the master is set to ease by Set by function in the Servo speed function, the Slave will also follow the Master execution of easing.

It can be used for a variety of applications: link with other mixes, separate link settings for the master and slave with reversal direction of the connection; trim mode enabled or disabled; and curve mixing rate and mixing delay can be set separately for each group of Mix.

01:N	lodel01 🛛 C1 RX 💌 TX ూ	Pro. Mix
	Func	Switch
Mix1	J1CH1(AILE)	Off
Mix2	J1CH1(AILE)	Off
Mix3	J1CH1(AILE)	Off
Mix4	J1CH1(AILE)	Off
Mix5	J1CH1(AILE)	Off

After selection, enter the corresponding switch settings interface of each Mix.

After selection, enter the corresponding Mix function settings interface.







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7.6.1 Pro. Mix- Mixing Settings

Related settings for Mix.

Master Selection

Set related settings of Master. Master can be set to a control or a function.

Setup:

- 1. Select the function box next to Master to enter;
- 2. Select [Stick,knob] to enter if you want to set Master to a control. Select the desired contol you want to set. Then short press the EXIT button to return to the previous interface.
 - Select [Func] to enter if you want to set Master to a function. Select the desired function you want to set. Then short press the EXIT button to return to the previous interface.

For Slave, you can only set it to a function, for the function setting of Slave, please refer to the descriptions of Master above.

Note: When Master is set as a control, the Link and Trim function are disabled, that is, it will not appear Link and Trim items.

01:Model01	C1 RX 💴	TX 🗾	Mix1Master
Stick,knob			>
Func			>
01:Model01	C1 RX 🗵!	TX 🗾	Mix1Master
J1			۲
J2			Ø
J3			Ø
J4			0
VRA			0
01:Model01	C1 RX 🗵!	TX 🗾	Mix1Master

	UTIMODEIUT	CTI			MIXIMASter
СН	Func	СН	Func	СН	Func
1	AILE	2	AILE2	3	THRO
4	RUDD	5	Gear	6	AILE3
7	AILE4	8	Flap	9	Flap2
10	Flap3	11	Flap4	12	RUDD2
13	SPOI	14	NEEDL	15	ATTI
16	WHHEEL				

Master Link/Slave Link

The link can be set for Master and Slave, when Master is set to a specific function. The Link is to set whether the master function will affect the slave function when it is affected by other mixes. Slave Link is to achieve the result of this group of mixers used as a source of link for other mixes to select this group of slave functions as its master.

Setup:

Select the function box below Master Link, short press the scroll wheel to switch [NOR], [Off] or [REV].

Note: NOR(normal) refers to a forward call, and REV(reverse) refers to a reverse call. When Master Link is set to Off, other function mixing volume will not affect Slave.

Take the link setting between Mix1 and Mix2 as an example.

Mix1			Mix2		
Mactor	Func	ELEV	Mastor	Func	AILE
Master	Link	Off	Master	Link	NOR or REV
Slavo	Func	AILE	Slavo	Func	THRO
Slave	Link	NOR or REV	Slave	Link	Off



01:Mod	<u>×</u> ! T≯	(🗾	P	ro. Mix1	
	Opera	Operation			Trim
Master	AILE		Off		Off
Slave	CH1(AILE	CH1(AILE)			
Open DLY	0.0s	0.0s Clo			0.0s
Mix rate	11Pt,/Type				

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Master Trim

Set related trim settings of Master.

Setup:

Select the function box below Master Trim, short press the scroll wheel to switch [Open] or [Off].

Note: When the trim is set to Open, Master trim changes will also affect Slave. When it is set to Off, Master trim changes will not affect Slave.

7.6.2 Pro. Mix- Mixing Delay

Set the delay time for the current condition from triggering to taking effect for Open delay or Close delay of the Mix. If the Mix delay needs to be set for other conditions, switch to other conditions prior to settings. Setup:

- 1. Select [Open DLY] or [Clos DLY];
- 2. Scroll the wheel to set the appropriate value and short press the scroll wheel to save the settings.

01:Mod	el01 C1 RX [<u>×</u> ! T>	(🗾	P	ro. Mix1
	Opera	Operation		ık	Trim
Master	AILE	AILE			Off
Slave	CH1(AILE	CH1(AILE)			
Open DLY	0.0s	0.0s Clo			0.0s
Mix rate	11Pt,/Type				









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7.6.3 Pro. Mix- Mixing Rate

Set the mix rate for the channel for the current condition.

Setup:

- 1. Select [Line] to enter the interface if you want to change the line type and amount of the dots;
- 2. Select the appropriate curve type, the system displays a pop-up window, then select [Yes] means the setting is successful;
- 3. Select [Up] or [Down] to set a dot as need;
- 4. Select [Rate] or [Down], set the appropriate percentage as needed and short press the scroll wheel to save the settings.





7.7 Thro Curve

This function allows the throttle control lever to respond to engine speed changes more as expected to achieve the best results in the control of the engine. Different input and output rate factors (up to 11 points) are set through multi-point curves. The throttle curve will operate on input values of all control levers assigned to the throttle function before the next step (Func. Rate). The multi-engine model throttle curve will operate for all throttle control levers. This setting is for the current condition. For the settings of other conditions, switch to other conditions first and then carry out the settings.

Please refer to [7.6.3 Pro. Mix-Mixing Rate] for this function.



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7.8 Logic SW

A logic switch is a virtual switch consisted of 2 to 4 switches which activates or deactivates according to a mathematical relationship.

If there is any mathematical logic relationship between certain switch controls and the other two switch controls, this function can be used to express this logic and use it as a logic switch in control. The logic switch can be selected in any menu where switches can be assigned.

The system supports to set four groups of logic switches in total. There are three logic difinations between two switches: [AND], [OR], [XOR].

[AND] If switch1 and switch2 are active, then the logic switch will be on. If either switch1 or switch2 is off, or switch1 and switch2 are both off, the logic switch is off.

[OR] If either switch1 or switch2 is active, or switch1 and switch2 are both on, then the logic switch will be on. If switch1 and switch2 are both off, the logic switch will be off.

[XOR] If either switch1 or switch2 is active, then the logic switch will be on, but if switch1 and switch2 are both active or off, the logic switch will be off.

Setup:

- 1. Select a logic switch as you desire to set and enter the setting interface;
- 2. Select [Switch1] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return;
- 3. Select [Switch2] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return;
- 4. Select [logic], select the logical switch from the displayed dropdown box as needed (for a list of the logical switch, please refer to the table below);
- 5. Toggle the switches to make sure everything is working as expected.

Note:

- 1. The setting of a logic switch makes sense only if it is composed of several other different switches.
- 2. Please refer to [15. Switch Allocation] for switch setting.

Swi	tch		Logic swit	ch
Switch1	Switch2	AND	OR	XOR
Off	Off	Off	Off	Off
Off	On	Off	On	On
On	Off	Off	On	On
On	On	On	On	Off

01:Model01	C1 RX 💴 🛛 TX 💽	Logic SW
Logic SW1		AND ゝ
Logic SW2		AND ゝ
Logic SW3		AND ゝ
Logic SW4		AND ゝ
01:Model01	C1 RX 🗵! TX 💽	Logic SW0
Switch1 	logic AND ∽	Switch2
	Switch1: Off Switch2: Off logicSwitch1: Off	
01:Model01	C1 RX 💴 🛛 TX 🗾	Logic SW1
Switch1	logic AND S OR S XOR I Off	Switch2
	01:Model01 Logic SW1 Logic SW2 Logic SW4 	01:Model01 C1 RX II TX II Logic SW2 Logic SW3 Logic SW4 C1 RX II TX II SWitch1 C1 RX II TX II Switch1 logic AND ✓ Switch2 Off logicSwitch1 C1 RX II Switch1 C1 RX II Switch1 C1 RX II Switch2 Off logicSwitch1 C1 RX II Switch1 C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II Switch1 C1 RX II Switch1 C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1 RX II C1 RX II C1 RX II Switch1 C1



the statuses of switch1, switch2 and logic switch1.





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Quickly locking the throttle channel output value at a preset value by one switch can assist in spin landing, or act as a throttle lock switch to lock the throttle position in a safe place during commissioning. This function is not valid when the Thro Cut switch is on. When the throttle hold is on, the mixes of the throttle from other functions is invalid. The throttle function is output after channel operations (Travel, Range, Normal and Reverse and channel delay) with the set hold values. The throttle function's mixes on other functions is also brought into operation using the value.

Setup:

- 1. Select the throttle as needed;
 - The multi-engine model allows for the separate setting of throttle hold functions for Throttle 1, Throttle 2, Throttle 3, and Throttle 4.
- Select [Value], scroll the wheel to set the throttle hold value and short press the scroll wheel to save the settings;
- Select [Start] to enter the Switch Allocation interface, then select the appropriate control and short press the scroll wheel to save the settings.



Indicates that the throttle hold function is turned off.



Note: Please refer to [15. Switch Allocation] for switch setting.

7.10 Idle Up

This function can be used to set the throttle idle position, which can prevent the engine from shutting down when the throttle stick is in a lower position. The minimum throttle position is defined by setting the offset value. Once this function is activated, the minimum throttle setting (idle point) will be determined by the offset value showed as a percentage. For safety reasons, this function will work only when the throttle stick is below the lower position (-20%). The idle speed offset values of -100-0-100 correspond to a ratio factor of 80%-100-120%. The throttle control ratio will be multiplied with the ratio factor corresponding to the offset when the idle speed is enabled for the subsequent operation (throttle curve). When the Thro Cut is enabled, the throttle hold and this function are not valid.

In multi-engine model, the idle switch is recognized only in the "throttle" control position (below -20%), and the throttle, throttle 2, throttle 3 and throttle 4 will be calculated when the idle is enabled.

Setup:

- Select [Switch] to enter the Switch Allocation interface, then select the corresponding control and short press the scroll wheel to save the settings;
- 2. Select [Offset], scroll the wheel to set the appropriate offset value and short press the scroll wheel to save the settings.
 - If the offset value is negative, it means the idle speed is rising. When the offset value is maximum, it indicates that the throttle stick is close to the minimum throttle.

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Note: Please refer to [15. Switch Allocation] for switch setting.





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7.11 Thro Cut

This function is a special setting for oil-operated engine. The Cut switch, Cut position and Cut Threshold can be set. When the throttle control stick is within the Thro Cut threshold, toggle the Thro Cut switch to turn off the engine. The output value of the throttle function when the Thro Cut is in effect is the Thro Cut position value. It will be limited by the channel reverse function and the channel range function, and all other volumes operated to the channel corresponding to this throttle are invalid. However, the other functions of throttle mixing are still worked. Multi-engine model can be set with the Thro Cut separately for throttle, throttle 2, throttle 3 and throttle 4.

Setup:

- 1. Select the throttle as needed;
- 2. Select [Cut SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return;
- 3. Select [Cut pos], scroll the wheel to set the appropriate cut position and short press the scroll wheel to save the settings;
- 4. Select [Cut ThrE], scroll the wheel to set the appropriate cut threshold and short press the scroll wheel to save the settings;
- 5. Toggle the switch to confirm whether it works properly.

Note: Please refer to [15. Switch Allocation] for switch setting.

The orange bar presents the cut position.



7.12 Aileron

This section introduces the settings of the aileron and its mixes function. The parameter settings of this function are for the current condition. To set in another condition, you need to switch the condition first.

Note: Due to the different model structures (for example, different number of ailerons and flaps), the corresponding function interface may be different. Usually, up to four ailerons are described as an example.



7.12.1 Aileron Differential

The left and right ailerons of the aircraft or glider can be adjusted independently. The differential aileron adjustment can be achieved by setting different high and low rate values for each aileron.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

High indicates the input high end, that is, the high end of control.

01:Model01	C1 RX 💴	TX 🗾	Aileron differ
Mode1:Normal			
Func		Low	High •
AILE1		100%	100%
AILE2		100%	100%
AILE3		100%	100%
AILE4		100%	100%

Low indicates the input low end, that is, the low end of control.

7.12.2 Aileron Elevator

Sets the elevator with the aileron function to improve the model's roll performance. Only the aircraft with the two elevator tails supports this function. You can set the high and low rate values of the two elevators to move with the aileron function.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

7.12.3 Aileron Camber Flap

This mix function is used to set the linkage between the camber flap and the aileron so that the flap can work together with the aileron, thus improving the maneuvering characteristics around the longitudinal axis.

Note: This function is available for the model with one flap or more.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.















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7.12.4 Aileron Back Flap

This mix function is used to set the linkage between the brake flap and the aileron so that the flap can work together with the aileron, thus improving the maneuvering characteristics around the longitudinal axis.

Note: This function is only available with 4 flaps.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

7.12.5 Aileron To Elevator

Usually more lift is needed on ailerons when turning/rolling. This function allows you to set the compensation rate of the elevator during aileron movement, so that the elevator will be subject to a compensatory trim according to the set rate during aileron movement, thus preventing the nose-down of the aircraft.

Note: If the model structure is a tailless (flying wing) aircraft, the aileron can be used as an elevator. This setting will affect all elevator surfaces, and even the aileron surfaces in case of a tailless aircraft.

Take the setting of DW Rate as an example:

- 1. Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of Up Rate, please refer to the above setting steps.

7.12.6 Aileron To Rudder

This mix function is used to set the linkage between the rudder servo and the aileron. This function can be set to achieve the more coordinated and flexible steering and roll through the compensatory trim of the steering servo during the aileron movement.

Note: When there are two rudders, rudder 1 and 2 will both be affected. Take the setting of DW Rate as an example:

- Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of Up Rate, please refer to the above setting steps.





01:Mod	el01	C1 RX	×!	TX 🗾	Ailero	n to	Rud	
Mode1:Normal								
Aileron								
			1					
100	100 0 100							
		Rι	ıdde	r				
100			0			100		
Start SW	C	off	l	OW Rate	e 1	.0%		
UP Rate	10	0%						









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7.13 Rudder

This section introduces the settings of the rudder and its mixes function. The parameter settings of this function are for the current condition. To set in another condition, you need to switch the condition first.

Note: Due to the different model structures (for example, different number of ailerons and flaps), the corresponding function menu may be different.

7.13.1 Rudder LINK

This function is applicable to the model with winglets, and is used to adjust the winglet rudder angle. The winglets are used to solve the wingtip vortex problem, thus reducing the induced drag and improve efficiency. The winglets are usually symmetrically erected vertically at both wingtips or extended outward at a certain angle.

Winglets increase the effective aspect ratio without significantly increasing the wing load and weight. Although the induced drag can be effectively reduced by extending the wing, this will also increase the parasitic drag and wing load strength at the same time, resulting in an insignificant gain. The winglets can effectively increase the aspect ratio without increasing the wingspan.

Note: This function is available for the model with tailless-2RUD.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

7.13.2 Rudder To Aileron

This mixes function is used to set the linkage between the rudder and the aileron. It is used to adjust the rate that all control surfaces affecting the airfoil changes according to the airfoil. You can adjust with the two sides(Up/Down), and meanwhile you can correct the effect of these control surfaces on the direction of flight.

Take the setting of DW Rate as an example:

- 1. Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of Up Rate, please refer to the above setting steps.

01:Model01	C1 RX 🖸	K! TX 🗾	Rudder LINK
Mode1:Normal			
Func		Low	High
RUDD1		100%	100%
RUDD2		100%	100%

01:Mod	el01	C1 RX	×!	TX 🗾 🤉	n R	udder to		
Mode1:No	ormal							
	Rodder							
100	100 0 100							
		Ail	ero	n				
100			0			100		
Start SW	0	Off		DW Rate		10%		
UP Rate	10	0%						







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7.13.3 Rudder To Elevator

This mixes function is used to set the linkage between the rudder to elevator. This function is used when it is necessary to realize the linkage between the elevator and rudder, to correct the offset in the pitching direction when the aerobatic model aircraft is turning and flying laterally. For tailless aircraft, aileron 2 is used to replace the elevator to achieve the elevation function.

Take the setting of DW Rate as an example:

- 1. Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of Up Rate, please refer to the above setting steps.

01:Mod	el01	C1 RX	×!	TX 🗾	Rudo	der to	Elev	
Mode1:Normal								
Rodder								
100	100 0 100							
		A	ILE2	2		,		
100			0			100		
Start SW	C	off		DW Rat	e	10%		
UP Rate	10	0%						

7.14 Flap

This section introduces the settings of the flap and its mixes function. The parameter settings of this function are for the current condition. To set in another condition, you need to switch the condition first.

Note: Due to the different model structures (for example, different number of ailerons and flaps), the corresponding function interface may be different. Usually, up to four ailerons are described as an example.



7.14.1 Flap Setting

This function is used to set the high and low end rates and offset of flaps separately, that is, for a model with multiple flaps, the flap upward and downward movement travel and neutral point position on each flap can be adjusted independently.

Note: The number of interface flap function items is related to the Wing through Models.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

7.14.2 Brake To Airfoil

This mix function is used to set the high to low rate of brake flaps to airfoil flaps. It is used to adjust the up/down movement travel range of multiple flaps independently.

Note: This function is only available with 4 flaps.

Take the setting of DW Rate as an example:

Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

7.14.3 Airfoil To Elevator

This mix function is used to set the linkage between the airfoil flap and elevator. You can set a compensatory trim for the elevator to prevent the aircraft from diving when the airfoil flap is operated to slow down.

For model with normal tail/V tail/Ailvator (double elevator) tails, the function item is only Elevator/Elevator 2. For those having aileron but without tail (There is no elevator function item, the number of aileron function items are subject to the actual number of ailerons), set the aileron as the elevator, so as to use the Airfoil to Elevator function.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

I 01:Mod	lel01 C1 RX	🗵! TX 🗾	Flap setting						
Mode1:Normal									
Func	Low	Airfoil High	Offset						
Flap	100%	100%	0%						
Flap2	100%	100%	0%						
		Back							
Flap3	100%	100%	0%						
Flap4	100%	100%	0%						

Offset indicates the input which centers on the neutral position will move lower or higher according to the offset value.

01:Mode	el01	C1 RX	×!	TX 🗾	Back	to Airfoi		
Mode1:No	rmal							
		Fl	арЗ	;		_		
(100			Ļ			100		
100	100 0 100							
		F	lap					
100			0			100		
Start SW	C	off		DW Rate		L0%		
UP Rate	10)%						

	🗵! IX 💶 V	ator Airtoi to							
Mode1:Normal									
Low	High	Offset							
0%	0%	0%							
0%	0%	0%							
0%	0%	0%							
0%	0%	0%							
	nal Low 0% 0% 0%	nal Low High 0% 0% 0% 0% 0% 0%							









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7.14.4 Brake Flap To Elevator

This mix function is used to set the linkage between the brake flap and elevator. You can set a compensatory trim for the elevator to prevent the aircraft from diving when the brake flap is operated to slow down.

Note: This function is only available with 4 flaps.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

01:Mode	el01 C1 RX	💴 🛛 TX 🗾 🚺	o Elevator Ba					
Mode1:Normal								
F	1	11:	offt					
Func	LOW	High	Offset					
AILE	0%	0%	0%					
AILE2	0%	0%	0%					
AILE3	0%	0%	0%					
AILE4	0%	0%	0%					

7.15 Elevator

This section introduces the settings of the elevator and its mixes function. The parameter settings of this function are for the current condition. To set in another condition, you need to switch the condition first.

Notes:

- 1. Due to the different model structures (for example, different number of ailerons and flaps), the corresponding function menu may be different.
- 2. The aileron movement mode is not restricted in the mixing linkage of the elevator and aileron.

7.15.1 Elevator Linkage

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This mix function is used to adjust the rise and fall rates of left and right elevators separately.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

01:Model01	C1 RX	💴 TX 🗾	Elevator lini
Mode1:Normal			
Func		Low	High
ELEV		100%	100%
ELEV2		100%	100%





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7.15.2 Elevator Aileron

This mix function is used to set the linkage between the elevator and aileron. For the models with elevator, the elevator can link the aileron to move homodromously to increase the lift. For the models without tail, the aileron 2 master control can be used to link the aileron to move homodromously to achieve the rise and fall function.

Note: This function item is not available for single aileron models. For multi-aileron models, the number of aileron function items depends on the actual number of ailerons.

Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.

01:Model01 C1 RX 💌 TX 🗾 Mode1:Normal Func Low High AILE 0% 0% AILE2 0% 0% AILE3 0% 0% AILE4 0% 0%

7.15.3 Elevator To Airfoil

This mix function is used to set the linkage between the elevator and airfoil flap. When this function is enabled, the elevator/aileron 2 master control of the model will affect the airfoil flap proportionally, thus increasing the lift of the model.

Note: For tail-less aircraft, aileron 2 is used instead of elevator.

Take the setting of DW Rate as an example:

- 1. Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of High, please refer to the above setting steps.

01:Mod	el01	C1 RX	×!	TX 🗾	eron	Elevator		
Mode1:Normal								
	ELEV							
			Ĺ.					
100	100 0 100							
			iap					
100			Ó			100		
Start SW	C	Off		DW Rat	e	10%		
UP Rate	10	0%						









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7.15.4 Elevator To Brake

This mix function is used to set the linkage between the elevator and brake flap. When this function is enabled, the elevator/aileron 2 master control of the aircraft model affects the brake flaps in set rate, thus increasing the lift of the aircraft model.

Note: This function is only available for model with 4 flaps. For tail-less aircraft, aileron 2 is used instead of elevator.

Take the setting of DW Rate as an example:

- 1. Select [DW Rate], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings;
- 2. Select [Start SW] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of High, please refer to the above setting steps.

01:Mode	el01 C1 R>	X 💴 TX 🖪	🗩 🖊	eron to	Back	
Mode1:No	rmal					
		ELEV				
100		0		100		
	Flap3					
100		0		100		
Start SW	Off	DW	Rate	10%)	
UP Rate	10%					

7.16 Spoiler

Spoiler, also called deceleration flap, can achieve fast braking by increasing the aircraft pressure on the ground when the aircraft is descending. Meanwhile, the use of spoiler in flight can also achieve the effect of aircraft deceleration. This function can be used to set the upward and downward movements of each spoiler and the linkage between spoiler and elevator. If the spoiler is used during deceleration, the aircraft will tend to dive. If the elevator linkage is set, the flight attitude can be controlled through the compensatory trim of the elevator. The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Notes:

- 1. Due to the different model structures (for example, different number of ailerons), the corresponding function menu may be different. Usually, up to four ailerons are described as an example.
- 2. If it is a flying wing type aircraft, the elevation setting item is aileron; or, use the flap function to add setting interfaces for the aircraft.



Take the setting of Low as an example:

Select [Low], set the corresponding rate items for the low end as needed, short press the scroll wheel to save the settings.

For the setting of High, please refer to the above setting steps.









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This function realizes deceleration by adjusting the rates of ailerons, flaps, spoilers and elevator, i.e., ailerons are raised and flaps are lowered at the same time. This function is very effective when the model is landing, i.e., reducing the speed of the model, more stall margin is provided at the wingtip, thus less risk of wingtip stall. And more lift is generated at the root of the wing, allowing less gliding speed. The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Note: This function is available for multi-flap airplane.

Take the setting of Low as an example:

- 1. Set the corresponding rate items as needed, short press the scroll wheel to save the settings;
- 2. Select [Control] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

For the setting of other function, please refer to the above setting steps.

01:Mod	el01 C1 RX	💴 TX 🗾	Butterfly		
Mode1:Normal					
Func	Rate	Func	Rate		
AILE	30%	AILE2	30%		
AILE3	30%	AILE4	30%		
Flap	30%	Flap2	30%		
Flap3	30%	Flap4	30%		
ELEV	30%	ELEV2	30%		

7.18 Air Brake

When the control model is ready to descend or land, the air brake function can be used to help decelerate. This function is achieved by setting the offset values of ilerons, spoilers and elevators.

The offset values of ailerons, flaps, spoilers and elevators can be set in two sets. Enable/disable the Airbrake and switch between different offsets by assigning controls.

The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Notes:

- 1. Due to the different model structures (for example, different number of ailerons), the corresponding function menu may be different. Usually, up to four ailerons are described as an example.
- 2. Two brake rates can be realized by setting a three-position switch with two positions corresponding to offset 1/ offset 2 respectively.

01:Model01 C1 RX 🗵 TX 📝	Air Brake	
Mode1:Normal		
Start SW	Off>	———Tap to enter switch assignment interface enabling/disabling the Airbrake.
Switch to Offset 2	Off>	Tap to enter switch assignment interface
Air Speed	>	Tap to enter the interface of setting Brake
Air rate	>	Tap to enter the interface of setting Brake



7.18.1 Air Speed

Sets the parameters related to the brake speed function. You can set the time to complete the action when the brake is enabled and disabled. The longer the time, the slower the speed.

Take the setting of Offset 1 brake as an example:

Select [Offset 1 brake], set the appropriate time as needed and then short press the scroll wheel to save the settings.

For the setting of Offset 2 and Off brake, please refer to the above setting steps.

01:Model01	C1 RX 💴	TX 🗾	Air Speed
Offset 1 brake			0.0s
Offset 2 brake			0.0s
Off brake			0.0s

7.18.2 Air Rate

Sets the offsets of AILE, Flap, Spoiler and Elevator for the current condition. To set in another mode, you need to switch the condition first.

Take the setting of Offset 1 brake of AILE as an example:

Select the appropriate rate item as needed and then short press the scroll wheel to save the settings.

For the setting of other function, please refer to the above setting steps.

01:Mod	lel01 C1 RX	🛛 💌 🛛 TX 🗾	Air rate
Func	Offset1	Func	Offset1
AILE	0%	AILE2	0%
AILE3	0%	AILE4	0%
Flap	0%	Flap2	0%
Flap3	0%	Flap4	0%
ELEV	0%	ELEV2	0%
SPOI	0%		

7.19 V Tail

This function is used to adjust the rate of the V-shaped tail's 2 tail fins in steering and pitching manes. The V-shaped tail aircraft performs the rudder and elevator movements via 2 servos. In this system, one of the tail implements the rudder function and the other performs the elevator function, corresponding to two channels respectively. When the rudder function is implemented, the two control surfaces move in opposite directions. When the elevator function is implemented, the two control surfaces move in the same direction. This interface allows you to set the elevator rate and rudder rate, i.e., the rate of the elevator is for realizing the elevator function and the rate of the rudder is for realizing the rudder function.

The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Note: This function is available for models with V Tail.

Setup:

- 1. Select [ELEV rate], then set an appropriate value as needed and short press the scroll wheel to save the settings;
- 2. Select [Rudd rate], then set an appropriate value as needed and short press the scroll wheel to save the settings.









7.20 NEEDL

The throttle needle function is set for some models with a throttle needle. This function is used to set the output rate of the throttle needle master control in a multi-point curve method.

For example, if you need to link a throttle to a needle, you can assign the throttle needle controlled by the throttle stick, and realize the control of the throttle stick to the needle by setting the curve.

The setting steps of throttle needle are similar to the setting steps of throttle curve. Refer to the related setings of [7.7 Thro Curve].

Note: To access this feature, you need to go to [Basic Menu] > [Model Set] > [Model Type] > [Optional], and select [NEEDL].

7.21 Attitude

This function allows the setting up to 9 output values for channels assigned with attitude functions. The output value of the channel can be switched via the set combo switch.

Setup:

- 1. Select [Attitude] to enter the setting interface;
- Select the function box with "--" to enter the switch assignment interface. Select a switch you want to set or toggle the corresponding control, then short press the scroll wheel to confirm the setting successfully, then short press the EXIT button to return to the previous interface. After these two switches are assigned, the function and its output value are contolled by the combo switch;
- 3. Select [Status] > [On] to enabled the function;
- Scroll the wheel to select the function item that needs to be renamed. The system will display a rename interface, you can set the appropriate name and then select to return the previous interface;
- If you need to change the rate value, scroll the wheel to select the rate item you want to change and set the appropriate value. After the settings are completed, short press the EXIT button to return.



Notes:

1. The rate value indicates the output in percentage of a channel.

- 2. Only toggle switch can be assigned.
- 3. This function is not avilable for glider model.

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8.Helicopter Exclusive Function Setting

This chapter introduces the function settings of Helicopter mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model to set the related functions of model via [Main Menu]>[Model Menu].

Note: The function interface may different based on different model configurations.

8.1 CH Monitor

Please refer to [7.1 CH Monitor] for this function.

8.2 Condition

Please refer to [7.2 Condition] for this function.

8.3 Func. Rate

Please refer to [7.3 Func. Rate] for this function.

8.4 DR

Please refer to [7.4 DR] for this function.

8.5 CH Offset

Please refer to [7.5 CH Offset] for this function.

8.6 Pro. Mix

Please refer to [7.6 Pro. Mix] for this function.

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8.7 Thro Curve

Please refer to [7.7 Thro Curve] for this function.

8.8 Logic SW

Please refer to [7.8 Logic SW] for this function.

8.9 Idle Up

Please refer to [7.10 Idle Up] for this function.

8.10 Thro Cut

Please refer to [7.11 Thro Cut] for this function.

8.11 NEEDL

Please refer to [7.20 NEEDL] for this function.

8.12 Thro Hold

Please refer to [7.9 Thro Hold] for this function.

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8.13 Thro Mix

In the current condition, set the helicopter's ailerons, elevation and rudder to the throttle's mixes rate. It is used to coordinate the flight movements of the helicopter in all directions (forward, backward, left and right) to compensate for the effect of swashplate manipulation on the engine when operating ailerons, elevation and rudder.

Setup:

- 1. Set the rate item as needed, short press the scroll wheel to save the settings;
- 2. Select [Start] to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: Please refer to [15. Switch Allocation] for switch setting.

01:Model01	C1 RX	💴! TX 🗾	Thro Mix
Mode1:Normal			
Func		Down	Up
AILE		-10%	10%
ELEV		-10%	10%
RUDD		0%	0%
Start			Off

8.14 Pitch Curve

In the current condition, adjust the motion curve of the helicopter's pitch to match the throttle output to achieve the best flight status. To set in another condition, you need to switch the condition first. Different output rate can be obtained through multi-point linear settings (up to 11 points).

Please refer to [7.6.3 Pro. Mix-Mixing Rate] for this function.

8.15 Hover Adj

In the current condition, in order to allow the helicopter to hove easily by adjusting the rate of Throttle and Pitch. To set in another condition, you need to switch the condition first.

Setup:

- 1. Set the Throttle or Pitch of the rate item as needed, short press the scroll wheel to save the settings;
- 2. Select the Throttle Control to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return;
- 3. Select the Pitch Control to enter the Switch Allocation interface, then select the appropriate switch and short press the EXIT button to return.

Note: For the control of the function, you can only set a knob.

8.16 Gyroscope

Set the output value of gyroscope channel.

The system is preset with two gyroscope modes (You can set the number of gyroscopes by [Basic Menu]>[Model Set]>[Model Type]>[Optional]). You can adjust the gyroscope channel output sensitivity.

The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Setup:

- 1. Select the gyroscope you want to set, and set an appropriate sensitivity value as needed;
- 2. Select [USE], short press the scroll wheel to switch [Off] or [On];
- 3. Short press the EXIT button to return.

Display the sensitivity value of the gyroscope.

8.17 Governor

Set the output value of Governor channel to adjust the RPM of the helicopter propeller to make the helicopter fly more stable. The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Setup:

- 1. Select [Rate], set the propeller speed value as needed;
- 2. Short press the EXIT button to return.

01:Mode	101 C1 RX 💴 🕺	TX 🗾 GOVER	
Mode1:Nor	mal		
	GOVE	R	
100	Ó	100	
Rate	0%		

9. Multicopter Exclusive Function Setting

This chapter introduces the function settings of Multicopter mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model to set the related functions of model via [Main Menu]>[Model Menu].

9.1 CH Monitor

Please refer to [7.1 CH Monitor] for this function.

9.2 Condition

Please refer to [7.2 Condition] for this function.

9.3 Func. Rate

Please refer to [7.3 Func. Rate] for this function.

9.4 DR

Please refer to [7.4 DR] for this function.

9.5 CH Offset

Please refer to [7.5 CH Offset] for this function.

9.6 Pro. Mix

Please refer to [7.6 Pro. Mix] for this function.

9.7 Thro Curve

Please refer to [7.7 Thro Curve] for this function.

9.8 Logic SW

Please refer to [7.8 Logic SW] for this function.

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9.9 Attitude

Please refer to [7.21 Attitude] for this function.

9.10 Thro Hold

Please refer to [7.9 Thro Hold] for this function.

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10.Car Exclusive Function Setting

This chapter introduces the function settings of Car mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model to set the related functions of model via [Main Menu]>[Model Menu].

The interface of car model with humvees:

10.1 CH Monitor

Please refer to [7.1 CH Monitor] for this function.

10.2 Condition

Please refer to [7.2 Condition] for this function.

10.3 Func. Rate

Please refer to [7.3 Func. Rate] for this function.

10.4 DR

Please refer to [7.4 DR] for this function.

10.5 CH Offset

Please refer to [7.5 CH Offset] for this function.

10.6 Pro. Mix

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Please refer to [7.6 Pro. Mix] for this function.

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10.7 Thro Curve

Please refer to [7.7 Thro Curve] for this function.

10.8 Logic SW

Please refer to [7.8 Logic SW] for this function.

10.9 ABS

This function can be used to set pulse braking, namely the brakes are released periodically when braking is triggered, to prevent skid, drift or under-turning due to locked wheels.

Note: This function is available for humvees model.

[Status]: To activate or deactivate the ABS feature, short press the scroll wheel to switch between [On] and [Off].

[Recovery]: To set the reduction of braking pressure at each pulse between 0% and 100%. The default value is 50%. When the value is set to 60%, the system will reduce the braking pressure by 60% from each pulse in real-time when braking is triggered.

[Delay]: To set the time from trigger the pulse brake to actually pulse brake between 0% to 100%. The default value is 0%. The higher the value, the slower the pluse brake function will take effect. When the value is set to 0%, there is no delay, i.e. the pulse brake function takes effect immediately when the brake is triggered. When the value is set to 100%, the delay is 2S.

[Cycle]: It is used to set the interval between pulses. The setting range is 20% to 100%. The default value is 50%. The larger the value, the longer the interval time between pulses. The value 100% indicates the interval is 0.5S.

[Point]: It is used to set the start position of pulse brake function. The setting range is 20% to 100%. The default value is 30%. The higher the value, the closer the stick position that triggers the pulse brake function is to the full brake position. 0%-100% is the entire travel movement amount of the throttle control.

[Duty]: To set the braking - release cycle length in pulse braking between -4 and +4. Default: 0. When the value is changed, the peak and trough lengths of the brake pulse's square wave change accordingly. You can adjust the ratio between braking and release. The rate is 1:1 when the cycle length is set to "0". The rate is 1:2 when the cycle length is set to "1". And the rate is 2:1 when the cycle length is set to "-1".

Taking the [Recovery] setting as an example:

Select [Recovery], Set the appropriate value as needed, and short press the scroll wheel to save the settings.

For the setting of other function, please refer to the above setting steps.

01:Model01	C1 RX 💴	TX 🗾	ABS
Status			Off
Recovery			50
Delay			0
Cycle			50
Point			30

10.10 Track Mix

When this function is enabled, the control corresponding to the left track can control the changes of the left and right tracks in same rate to move forward and backward, and the control corresponding to the right track can control the changes of the left and right tracks in reverse-rate to turn left and right. The forward, backward, left and right rates can be set in the function menu.

Note: This function is available for track model.

Setup:

- 1. Select [Status], short press the scroll wheel to switch [On] or [Off];
- 2. Adjust the percentage values for forward, backward, left turn, and right turn as needed, then briefly press the scroll wheel to save the settings.

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FLYSKY 11.Ship Exclusive Function Setting

This chapter introduces the function settings of Ship mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model to set the related functions of model via [Main Menu]>[Model Menu].

11.1 CH Monitor

Please refer to [7.1 CH Monitor] for this function.

11.2 Condition

Please refer to [7.2 Condition] for this function.

11.3 Func. Rate

Please refer to [7.3 Func. Rate] for this function.

11.4 DR

Please refer to [7.4 DR] for this function.

11.5 CH Offset

Please refer to [7.5 CH Offset] for this function.

11.6 Pro. Mix

Please refer to [7.6 Pro. Mix] for this function.

11.7 Thro Curve

Please refer to [7.7 Thro Curve] for this function.

11.8 Logic SW

Please refer to [7.8 Logic SW] for this function.

11.9 Double Engine Mix

This function enables when the ship model has dual engines without rudders. By dual engine mix function to control the forward/backward or left/right of the ship.

Setup:

- 1. Select [Status], short press the scroll wheel to switch [On] or [Off];
- 2. Adjust the percentage values for forward, backward, left turn, and right turn as needed, then briefly press the scroll wheel to save the settings.

01:Model01	C1 RX 💴	TX 🗾	: Eng	ine Mix	[
Throttle(Thrott	:le St	atus	Off	
Front/Ba 🥙	2(Left	/R F	ront	100%	
ТН	RO	B	lack	100%	
100 0		100 L	.eft	100%	
	RO2	R	ight	100%	
100 0		100			

11.10 Rudd Linkage

This function enables when the ship model has dual engines with two rudders to realize the rudder linkage output. The function parameter setting is for the current condition. To set in another condition, you need to switch the condition first.

Setup:

- 1. Select the corresponding rate item;
- 2. Set the high and low rate as needed, and then short press the scroll wheel to save the settings.

01:Model01	C1 RX 🗵]! TX 🗾	Rudd Linkage
Mode1:Normal			
Func		Low	High
RUDD1		100%	100%
RUDD2		100%	100%

11.11 NEEDL

Please refer to [7.20 NEEDL] for this function.

FLYSKY 12.Robot Exclusive Function Setting

This chapter introduces the function settings of Robot mainly in default condition. After you can set the related model parameters via [Basic Menu]>[Model Set], then you can access Model to set the related functions of model via [Main Menu]>[Model Menu].

The interface of robot model with humvees

12.1 CH Monitor

Please refer to [7.1 CH Monitor] for this function.

12.2 Condition

Please refer to [7.2 Condition] for this function.

12.3 Func. Rate

Please refer to [7.3 Func. Rate] for this function.

12.4 DR

Please refer to [7.4 DR] for this function.

12.5 CH Offset

Please refer to [7.5 CH Offset] for this function.

12.6 Pro. Mix

Please refer to [7.6 Pro. Mix] for this function.

The interface of robot model with track

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12.7 Thro Curve

Please refer to [7.7 Thro Curve] for this function.

12.8 Logic SW

Please refer to [7.8 Logic SW] for this function.

12.9 Track Mixing

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Please refer to [10.10 Track Mixing] for this function.









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This section mainly introduces functions related to the receiver, which can be used to set up various functions before the receiver is prepared for use.

13.1 Bind Setup

Refer to [4.2 对码] for detailed bind operations.

13.2 Failsafe

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

For i-BUS/PPM/PWM signal. It can be set to No Set, No Output or With Output.

[Not Set]: The failsafe has not been set, and there is no output in case of out-of-control.

[No Output]: It is no output for i-BUS/PPM/PWM channel.

[Have Output]: i-BUS/PPM/PWM channel output respectively the set value. Namely, you can set a value respectively for each channel from 1 to 16. By default, this value is the reading of current channel output.

Setup:

- Go to Home > Main Menu > RX Menu, and select Failsafe, then short press the scroll wheel to enter.
- 2. Set all channels.
 - Select Have output, short press the scroll wheel, and the system will pop up a prompt interface;
 - Adjust the corresponding controls to the desired positions and hold them if needed.
 - Select Yes on the pop-up prompt interface, and short press the scroll wheel again, failsafe setting for all channels is completed.
- 3. Continue to set an individual channel if needed.
 - Select the channel to be set, short press the scroll wheel.
 - Select the appropriate value or adjust the corresponding control to the desired position and hold it. Short press the scroll wheel to save the settings.

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 ruther than by No Output 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 No Output state.
- 3. It is Not Set by default, then the receiver will not output when RC signal is lost.











13.3 Sensor

This function can display the sensor information received by the receiver on the transmitter. The transmitter and receiver communicate via a ANT-2-Way binding, and all sensors connected to the receiver can find corresponding information under this function menu.

13.3.1 Display Sensors

This list displays all sensor data connected to this transmitter device, including sensor ID, type and real-time value.

[Type]: To show the sensor type.

[ID]: To display the sensor's number.

By default, the number zero in the list includes the TX Voltage, RX Voltage, Signal strength, RSSI, Noise and SNR.

No. 1 is the first external sensor connected to the receiver, and so on, and up to 15 sensors in total.

This list data is displayed in real time. When the receiver is connected to a sensor, this list will be refreshed to display the new sensor's data. When the sensor is disconnected, the sensor data will not be displayed.

[Value]: To display the data returned by a sensor.

Supports i-BUS series sensors: FS-CAT01 (altitude), FS-CPD01 (speed / magnetic), FS-CPD02 (speed / light), FS-CVT01 (voltage), FS-CTM01 (Temperature) and FS-CGPS01 (GPS).

! 01:M	odel01 🛛 C1 RX 💷	TX 🗾	Senso	r
ID	Туре	Va	lue	
0	TX voltage	8.	.1V	~
0	RX voltage	5.	5∨	~
0	BVD Vol	0.0	vוכ	~
0	Signal	10	00	
0	NOISE	-960	dBm	
0	SNR	71	dB	
0	RSSI	-260	dBm	~

✓ indicates that this sensor is displayed on the Home page, and can be set through the following steps: [RX Menu] > [Sensor Set] > [Home display] > [Yes].

i-BUS series sensor connection diagram:

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Taking the FS-SR8 receiver binding with the FS-ST16 transmitter as an example, the sensor is connected to the SENS connector of the FS-SR8. If multiple sensors are connected simultaneously, the next sensor can be connected to the IN connector of the previous sensor.





Speed sensor (FS-CPD01, FS-CPD02)

The speed sensor is applied to test the speed of the motor.

"Motor speed" indicates that the sensor is testing the motor speed; "0rpm" is the speed measurement value.

Magnetic induction speed sensor (FS-CPD01)

- 1. Connect the FS-CPD01 sensor to the receiver or other sensors connected to the receiver using the same method as shown above;
- 2. Place the sensor next to the magnet, which is fixed at the position of the axial rotation to be tested (e.g. inside the wheel hub of the model car);
- 3. Place the sensor within 2 mm of the magnet, with the south or north pole of the magnet parallel to the sensor;
- Turn on the transmitter, and select [Sensor] > [Display Sensor]. Turn the 4. gear. When the [Type] column shows "RPM" and the RPM value (0rpm) in the [Value] column changes. It indicates that installation is successful. Otherwise, repeat the above steps.

Light induction speed sensor (FS-CPD02)

- 1. Connect the FS-CPD02 to the relevant device, with the same connection method as above;
- 2. Fix the sensor and the reflective sticker at the position of the axial rotation to be tested. Keep the sticker flat and perpendicular to the sensor probe. Keep a moderate distance between the sensor probe and the sticker;
- Turn on the transmitter, and select [Sensor] > [Display Sensor]. Turn the 3. gear. When the [Type]column shows "RPM" and the RPM value (0rpm) in the [Value] column changes. It indicates that installation is successful. Otherwise, repeat the above steps.

Temperature Sensor (FS-CTM01)

Used to monitor the temperature of various components. The temperature of the component can be monitored via the transmitter. Alarms can be set.

- 1. Connect the FS-CTM01 to the receiver or other sensors using the same method as used with other sensors;
- 2. Use a spongy double-sided tape to stick the temperature probe to the part you wish to monitor (such as: motor, battery);
- 3. Turn on the transmitter, enter [Sensor]> [Display Sensors] and rotate the wheel. If the [Type] column displays "Temperature" and the [Value] column displays a temperature then the installation was successful, otherwise repeat the above steps.

Voltage Sensor (FS-CVT01)

It is used to monitor the model's battery voltage. The battery voltage can be monitored through the transmitter. Alarms can be set.

- 1. Connect FS-CPD02 following the same steps as above;
- 2. Insert the red and black wire pins into the plug of the battery used for testing. The red wire is the power anode and the black wire is the power cathode. Make sure to connect correctly;

Turn on the transmitter, enter [Sensor] > [Display Sensors] menu and rotate the wheel. If the [Type] column 3. displays "External Voltage" and the [Value] column displays a voltage then the installation was successful, otherwise repeat the above steps.







Website



Sensor Wheel magnet







13.3.2 Sensors Set

This section describes how to configure the sensors displayed on the Home 2 page, including whether the sensors should alarm and the high and low alarm values.

[Select sensor]: Used to select the sensor that needs to be set and displayed on the Home 2 page.

[Home display]: Set whether the current sensor is displayed on the main page. A maximum of 4 sensors can be displayed on the Home page; if more than 4 are selected, a pop-up message will appear saying "No more than four sensors can be displayed! "

[Alarm]: Used to set whether to enable sensor alarms. Once enabled, you can set the low alarm value or the high alarm value.

Introduce the setting of related parameters using the transmitter voltage as an example.

Setup:

- 1. Select [TX voltage] to enter the setting interface;
- 2. To change the sensor displayed here, select [Select sensor] to enter the settings interface, choose the sensor you want to display, and then short press the EXIT button to return to the previous interface;
- Select [Home display], short press the scroll wheel to switch [Yes] or [No];
- 4. Select [Alarm], short press the scroll wheel to switch [Yes] or [No];
- 5. Select [Low alarm], set the low alarm values as needed;
- 6. Select [High alarm], set the high alarm values as needed.

Notes:

- 1. The setting only takes effect for the current sensor. When you select a different sensor, the set parameters will be cleared.
- If the system sound and alarm sound are turned off ([Setup]>[Sound]>[Sys/Alarm]/[Alarm]), the alarm will not on even if the alarm is enabled here.

For other sensor setting, refer to the ralated setting of TX voltage.

III 01:Model0	1 C1 RX 🔳	🗈 TX 🗾	Sensor Set
8.	I∨	RX vo	5.5V
TX volt	:age[0]		oltage[0]
0.03V		100	
BVD Vol[0]		Signal[0]	
-27dBm	-96dBm		None
RSSI[0]	NOISE[0]	None	
None	None	None	None

111 01:Model01	C1 RX 💷 TX 🗾	Sensor1Set
Select sensor		TX voltage[0] >
Home display		YES
Alarm		NO
Low alarm		7.2V
High alarm		8.0V

III 01:Model01	C1 RX 💷	TX 🗾	Sensor1Select
1.None			0
2.TX voltage[0]			0
3.RX voltage[0]			0
4.BVD Vol[0]			0
5.Signal[0]			Ø









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13.3.3 Speed And Distance

This function is used to detect monitor wheel revolutions and distance traveled.

[Select Sensors]: Selects the target sensor. If the sensor and receiver are connected, then it will appear in this menu automatically. If multiple speed sensors are connected, the default display is set to the speed sensor with the smallest ID number.

[Set Rotation Length]: If a speed sensor is installed on the wheel, you need to define the Rotation Length. This length will be used to calculate the distance traveled. Short press the Up button or Down button to adjust the radius.

[Odometer1]: Odometer1 is used to record the distance traveled.

[Odometer2]: Odometer2 is used to record the total driving distance, and as such is the cumulative distance from each session.

Select the reset option to the right of [Odometer1] or [Odometer2], and a system pop-up window will appear. Choose [Yes] to reset Odometer 1 or Odometer2.









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13.3.4 BVD Voltage Calibration

There may be a voltage difference between the voltage detected by the receiver and the actual voltage of the battery. Use this function to set a calibration coefficient for the receiver to make the voltage displayed on the interface is equal to the battery voltage, namely, the sum of the detection voltage and the calibration coefficient is equal to the voltage displayed on the interface.

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

Battery Voltage Displays the battery voltage detection value returned by the receiver in real time.

Note:

- 1. This function is available for ANT receivers with BVD function, must be in two-way communication with the transmitter.
- 2. Pay attention to correctly connecting the BVD cable and the anode and cathode of the battery as shown in the diagram below.

Setup:

Connect the BVD detection line correctly before setting, and then perform calibration.

Note: please refer to the voltage value of multimeter for calibration.

- 1. Select [BVD Voltage Calibration] to enter the function setting interface.
- 2. Then change the battery voltage value as needed.
 - Select [Calibration]. After successful calibration, click "YES" in the pop-up window reminder.

II 01:Model01	C1 RX 🔲 TX 🗾	BVD Voltage
Battery Voltage	5.51V	Calibration





13.3.5 Height Zero

Reset the altitude sensor data.

[Select sensor]: Select the altitude sensor that needs to be zeroed.If multiple altitude sensors are connected, the default display is set to the altitude sensor with the smallest ID number.

[Zero Set]: Used to adjust the current height to 0 meters. Setup:

- 1. Select [Select sensor], and then choose the altitude sensor as needed;
- 2. Select [Zero Set], and then select "Yes" in the pop-up window that appears.



13.3.6 GPS Set

This function is applicable to FS-CGPS01 module. You can view the GPS-related information received on the transmitter side, such as speed, distance, relative altitude, elevation, latitude and longitude. You can also calibrate the GPS, select the time zone, and reset the starting point. [UTC Select]: Display the set time zone. Enter the time zone selection interface, then press the POWER button to return to the previous interface.

[Starting Point]: Selecting [Reset] will reset the starting point position.











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GPS Display

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To display the number of satellites returned by GPS. When the number of displayed satellites is more than 10, the GPS positioning accuracy is high, otherwise there is positioning error.		C1 RX TX GPS settings 2000/0/0 08:00:00 UTC+8:00 Beijing > Reset	—To display the date and time in 24-hour clock.
To display the real-time latitude and longitude of the model.	Speed:0km/h Altitude:0m N:0.000000 E:0.000000	Distance:0m Relative Altitude:0m N:0.000000 E:0.000000	Model data displaying area To display the real-time latitude and longitude of the starting point.

To show whether the positioning is – successful or not. If the icon is green indicating the positioning is successful, the icon is gray, then the positioning is failure.









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This function is used to set up the i-BUS expansion module.

The i-BUS function is mainly used for servo expansion. If a cable is too short or the number of servos exceeds the outputs for the receiver, the i-BUS serial bus receiver provides a convenient option for expansion. When using the i-BUS serial bus receiver, make sure that it is powered separately to ensure that servos have sufficient power. Note that the transmitter and receiver must be paired bidirectionally.

Setup:

- 1. Transmitter is in two-way communication with the receiver;
- 2. Connect the FS-CEV04 to the SERVO connector of the receiver;
- 3. Select [i-BUS Set] to enter the setting interfaces;
- 4. Select the channel to be assigned, and a prompt window will appear;
- 5. Use the appropriate tool to press the K1, K2, K3 or K4 button on the FS-CEV04 to assign the selected channel to C1, C2, C3 or C4;
- 6. After successful assignment, the prompt window will be displayed on the interface; then short press the Middle button to exit;
- 7. Repeat the above steps as needed.

	C1 RX 🔲 TX 🛄	i-BUS Set
CH1(RUDD)		>
CH2(THRO)		>
CH3(AUX03)		>
CH4(AUX04)		>
CH5(AUX05)		>











14.System Menu

The system menu content is mainly used to set various system functions of the transmitter, such as screen settings, sound settings, and so on.



14.1 Setup

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This section introduces the settings for some system functions. Access System functions via [Main Menu]>[System Menu]>[Setup].

III 01:Model01 C	1 RX 🔲 TX 🛙		Setup
Language	English		
Battery Type	18650	~	
B/L Brightness	50%		
B/L Delay time	30s	>	
Idle Alarm	Off	\sim	
Sound	Off	\checkmark	50%
Vibration	Off	~	50%
Units	Length:Met	ric	Temp:°F

III 01:Model01 C	1 RX 💷 🗛		Setup
Auto Shutdown	Off	\sim	
Home 2	Sensor	>	
Power Light	On		
Main light	White	>	50%
Auxiliary light	Blue	>	50%









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14.1.1 Language

Used to set the system language of the transmitter, with two options: [English] and [简体中文].

Setup:

Select [Language], short press the scroll wheel to switch the language item.

14.1.2 Battery Type

You can set the battery type for the transmitter's power supply, there are [18650]、[2S LiPo] and [Other].

When the system is in a low voltage state, it will give an alarm. Avoid accidents caused by long-term operation under low voltage.

If the battery type is selected as 18650 or 2S LiPo, the system will enter a low voltage state when the battery voltage lower than 7.2V, the interface will display relevant prompts.

Setup:

Select [Battery Type], Select the battery type in the dropdown box according to the actual situation, and then short press the scroll wheel to successfully set it.

• If you select [Other], the default alarm value is 7V, you can set the alarm value according to the user manual of the battery you are using.

14.1.3 B/L Brightness

Used to set the backlight of the transmitter. The adjustment range is 10%~100%. Setup:

Select [B/L Brightness], change the percentage as needed, then short press the scroll wheel to save the settings.

14.1.4 B/L Delay time

Used to set the duration of the display screen's brightness status. When there is no operation on the EXIT button, MENU button, scroll wheel, and power button, the display screen will enter the off-screen state after exceeding the set time. At this point, re-operating the EXIT button, MENU button, scroll wheel, or power button will turn the screen back on.

You can select [5s], [10s], [30s], [1m], [2m], [5m], [10m], [5m], and [ON]. The default setting is [30s].

Setup:

Select [B/L Delay time], select the appropriate backlight delay item as needed, then short press the scroll wheel to save the settings.











14.1.5 Idle Alarm

Set whether to enable idle alarm reminders and the alarm time. You can select [3m], [5m], [10m], [20m], and [Off]. The default setting is [3m].

Setup:

Select [Idle Alarm], select the appropriate Idle alarm time, then short press the scroll wheel to save the settings.

14.1.6 Auto Shutdown

Set whether to enable Auto Off function and the Auto Off time.

Once this function is activated, if there is no operation on the transmitter and no two-way communication with the receiver within the set time, the transmitter will automatically shut down.

You can select [5m], [10m], [30m], and [Close]. The default setting is [5m].

Setup:

Select [Auto Shutdown], select the appropriate auto off time, then short press the scroll wheel to save the settings.

14.1.7 Home 2

Please refer to [5. System Interface] for this function.

14.1.8 Power Light

Set to turn on or off the LED light at the power button. The power light is turned on by default when the device is powered on.

Setup:

Select [Power Light], short press the scroll wheel to switch [On] or [Off].





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14.1.9 Main light

Set the colors and brightness levels of the main ambient lights. You can set whether to turn off the upper ambient lights, be as battery indicator or throttle indicator, and adjust the color types and brightness levels of the ambient lights.

- Battery Indicator: When the light is in green, it indicates that the battery voltage is greater than or equal to the alarm value; otherwise, it will be in red.
- Throttle Indicator: When the light is in blue, it indicates that the throttle stick is moved into the neutral range, others, the light will be fading from blue and red.
- Ambient Light Color: Red, Green, Blue, Yellow, Cyan, Purple, White or Dazzle optional.
- Brightness level: default to be 50%, and can be adjusted within the range of 10%~100%. Setup:
- 1. Go to Home > Main Menu > System Menu, and select Main Ambient Light, and press the scroll wheel to enter.
- 2. Select the appropriate function item and press the scroll wheel to confirm, then short press the EXIT button to return to the previous interface.
- 3. Select the Brightness and short press the scroll wheel. Then scroll the wheel to set to a desired value, then press the scroll wheel.

14.1.10 Auxiliary light

The functions and settings are the same as the main ambient lights, refer to the description of [14.1.9 Main light].









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14.1.11 Sound

Set the volume level and type of the speaker sound.

Volume level setting range: 10~100%, the default value is 50%.

You can set [Sys/ALM], [System], [Alarm] and [Off]. The default setting is [Sys/ALM].

Setup:

- 1. Select [Sound], select the desired sound type in the drop-down menu as needed, and then short press the scroll wheel to successfully set it;
- 2. Select the percentage and set an appropriate value as needed, then short press the scroll wheel to save the settings.

14.1.12 Vibration

Set the intensity level and type of the vibration motor. Intensity level setting range: 10~100%, the default value is 50%. You can set [Sys/ALM], [System], [Alarm] and [Off]. The default setting is [Sys/ALM]. Please refer to [14.1.11 Sound] for this function.

14.1.13 Units

Choose what units to use for length and temperature.

Unit of length: Select between metric and imperial system. The default is Metric.

Unit of temperature: It can be selected in Celsius and Fahrenheit. The default is Celsius.

Setup:

Select [Units], select the unit of length or unit of temperature, short press the scroll wheel to switch the unit.

14.2 Stick Cal

Please refer to [4.4 Stick Cal] for this function.









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14.3 POST

Used to set whether to enable the self-check prompt function for control components at startup and the failsafe prompt function at startup. Both are enabled by default.

Setup:

- 1. Select [Control self check prompt], short press the scroll wheel to switch [On] or [Off];
- 2. Select [FailsafePrompt], short press the scroll wheel to switch [On] or [Off].

📶 01:Model01 C1 RX 🗩 TX 🗩	POST
Control self check prompt	On
Failsafe Prompt	On

14.4 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.

• 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 transmitter can be updated through the Flysky Assistant (The firmware of Flysky Assistant is available on the Flysky official website www.flysky-cn.com).
- Or update it by following the steps below:
 - 1. Download and open the latest official firmware.
 - 2. Connect the transmitter to the computer via the USB Type-C cable.
 - 3. Go to Home > Main Menu > System Menu, and select Firmware Update, then short press the scroll wheel, a prompt screen will pop up, then select Yes, and short press the scroll wheel to enter updating state.
 - 4. After completing the above steps, click Update in firmware window on the computer to start the update.
 - 5. The transmitter will power on again when the updating process is finished. Then remove the USB Type-C cable and close the firmware.

O1:Model01 C1 RX EX TX System Menu Updating firmware may cause model data to be restored to factory defaults Are you sure? YES NO

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Attention

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









14.5 Factory Reset

Used to restore all settings and parameters of the transimitter, that is, all model data and settings are restored to their default state.

Setup:

Select [Reset], the system displays a pop-up window, select [Yes] to complete the settings.



14.6 Help Center

Under this function interface, it provides the product's manual, as well as the official website, facebook, YouTube and X(Twitter). Users can choose the corresponding QR code as needed and scan it to view the information.

01:Model01	C1 RX 🗵!	TX 🔲	Help Center
Manual			>
Official Website	2		>
FaceBook			>
YouTube			>
X(Twitter)			>

Facebook

14.7 About

This function contains basic information such as product name, firmware version, version date, hardware and RF library version.



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15. Switch Allocation

How to set a switch which is for certain functions.

15.1 Normal ON/OFF Switch Setting

If the function does not require switch control, it can be set to "--", at which point the function will always be disabled. Alternatively, it can be set to an active state, in which case the function will always be enabled. In the execution of the trainer function, the switching state of the student remote control can be set through this function. Setup:

- 1. Enter the Switch Allocation interface;
- 2. Select [ON] or [--];
- 3. Select "--" to cancel the switch if a physical control on the transmitter is assigned.

Note: Action switch does not support the setting of Normal ON or Normal OFF.

15.2 Position-switch Setting

For two-position and three-position switches, you can set any position to On or Off.

Setup:

- 1. Enter the Switch Allocation interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, such as SWC, then short press the scroll wheel;
- 3. Scroll the wheel to select any position of [ON] or [OFF], set the ON/ OFF state of this position.

Notes:

- 1. All switches starting with "SW" are for position switches.
- 2. This switch function is "Action Switch". That is, the action switching from "OFF" position to "ON" position is a valid action, and this function is a one-time switch.

01:Model01 C1	RX 💴 T	X 🔲 tion	Switch A
RC- SASB_SCSD		On	J1
J3+ → J4 J1 - J2	J2	J3	J4
	VRA	VRB	VRC
-3E K2K1 K4K3	VRD	SWA	SWB
	SWC	SWD	SWE

Scroll the wheel to select the switch state, [--] indicates always off, and [ON] indicates always on.

Switch preview image: the currently selected switch is displayed in orange, while the unselected ones are displayed in a lighter color.





To display the present position of the control.









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15.3 Continuous Switch Setting

For continuous controls such as stick or knob, the ON or OFF position can be set more flexibly according to different setting types.



Linear/Symmetric Mode

[Line]: Means the setting of ON or OFF position separately for the whole control travel.

[Sym.]: Means the setting of ON or OFF position symmetrically for the upper part or the lower part with the neutral point as the reference.You can switch the ON or OFF position by Posit. (Positive) or Reve.(Reverse). Taking the Post. switch state as an example, the method for setting the reverse switch state can refer to the following steps:

Setup:

- 1. Enter the Switch Allocation interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, such as VRD, then short press the scroll wheel;
- 3. Select [Line] to switch type;
- 4. Set the switch status to [Post.];
- 5. Turn the VRD to a suitable position,
- 6. Turn the VRD to a suitable position, select the first function box to the right of the "Control Status Display Area," and short press the scroll wheel to set this position to "On".
- 7. Turn the VRD to a suitable position, select the second function box to the right of the "Control Status Display Area," and short press the scroll wheel to set this position to "Off".





Hysteresis/Box Mode

[Hys.]: Means the setting of border for ON or OFF only. You can set the hysteresis interval yellow for the border. When the control position is in the hysteresis interval, the previous state is kept.

[Box]: Box has no hysteresis interval. You can set 2 border values for on/off area. When the switch is outside this area, the switch state is opposite to the state inside this area.

You can switch the ON or OFF position by Posit. or Reve.

Taking the Post. switch state as an example, the method for setting the reverse switch state can refer to the following steps:

Setup:

- 1. Enter the Switch Allocation interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, such as VRD, then short press the scroll wheel;
- 3. Select [Hys.] to switch type;
- 4. Set the switch status to [Post.];
- 5. Turn the VRD to a suitable position,
- 6. Turn the VRD to a suitable position, select the first function box to the right of the "Control Status Display Area," and short press the scroll wheel to set this position to "On".
- 7. Turn the VRD to a suitable position, select the second function box to the right of the "Control Status Display Area," and short press the scroll wheel to set this position to "Off".

15.4 Self-resetting button switch

For this type of button, you can set two states: On and Off. The state is opposite when the button is pressed and when the button springs back. Setup:

- 1. Enter the Switch Allocation interface;
- 2. Scroll the wheel as needed to select the appropriate control or toggle the corresponding control, such as K2, then short press the scroll wheel;
- Scroll the wheel to select any position of [ON] or [OFF], set the ON/ OFF state of this position.



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15.5 Logic Switch Setting

Provide the interface for selecting logic switches. Users can preview the corresponding component switches and logical relations of logic switches, and can click the preview box to enter the logical switch setting interface to reset the logical switches. Setup:

- 1. Enter the Switch Allocation interface;
- 2. Scroll the wheel to select [LSW] and a pop-up screen appears, choose the logic switch you want to set, then short press the scroll wheel to save the settings.

01:Model01	C1 RX 🗵	TX 🗔	witch Allocati
RC- SA			RC
J3↔ J	LS1	LS2	WB
SF+ -K K	LS3	LS4	WE
	LS1:A	ND	< 2
			sw









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16. User Customization

The system supports user replacement of the setback sense throttle plate, assembly and disassembly of the mobile bracket, replacement of the gimbal assembly, and installation of the SMA antenna as needed.

16.1 Replace the Throttle Plate

The FS-ST16 transmitter comes with a non setback sense throttle plate out of the factory. If you want to use a setback sense throttle plate, please follow the steps below to replace it.



Digital Proportional Radio Control System **FS-ST16**



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16.2 Throttle Stick (non-centering and centering)

Follow these steps to replace a non-centering stick with a centering stick.











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16.3 Mobile Bracket Installation Instructions

You can use the mobile bracket to mount devices such as smartphones onto the transmitter.



Steps for Securing a Smartphone with a Mobile Bracket:



1. Turn the knob that secures the slider counterclockwise until it loosens, then slide the slider of the mobile bracket to the desired position.



2. Place the smartphone or other devices in the center of the bracket, ensuring balance on both sides to prevent the device from falling off due to the display being skewed to the left or right.

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3
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3. Adjust the slider distance and tighten the knob to secure the mobile device in place.

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Mobile Bracket Installation Steps:



1.

16.4 Gimbal Assembly Replacement Instructions

This transmitter comes with a hall gimbal assembly by default. If you want to replace it with a potentiometer version gimbal assembly, follow these steps to secure it onto the transmitter.





- As shown in the diagram, first place the potentiometer gimbal assembly on the transmitter and tighten the 8 screws with a phillips screwdriver. Then connect the gimbal assembly to the transmitter's mainboard, and finally, install the VRC and VRD knobs.
 - C: Connection between the gimbal assembly and the transmitter's mainboard.
 - Reattach the transmitter's back cover, tighten the screws, and reinstall the left and right grip soft rubber.









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16.5 Antenna Assembly Installation Instructions

If you have purchased 2.4G antenna assembly inner-screw-inner-hole, the installation procedure is described below.





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6. After completion, close the back cover. Please ensure that the terminal contacts of the wires are good. Be careful to adjust the position of the wires when closing the cover to avoid them being pinched.









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17. Specifications

This chapter includes specifications for FS-ST16 transmitter and FS-SR8 receiver.

17.1 Transmitter Specifications

Product Model	FS-ST16
Compatible Receiver	FS-SR8 and other receivers with ANT protocol
Compatible RC Model	Airplanes, cars or boats
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, 3.5mm Audio Jack(DSC), SD card slot
Input Power	6-9V/DC; 18650*2PCS/2S LiPo
Distance	No less than 1500m (Air distance without interference)
Antenna	Two antennas(One bulit-in antenna and one external folding antenna)
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
Language	Chinese or English
Weight	665g
Dimensions	224.1*180*101.3mm
Charging Jack	Yes (Type-C Port)
Certifications	CE, FCC ID: 2A2UNST1600









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17.2 Receiver Specifications

Product Model	FS-SR8
Compatible Transmitter	FS-ST16 and other transmitters with ANT protocol
Compatible RC Model	Fixed-wing aircraft, helicopters, gliders, delta-wing airplanes,multicopters, racing drones, engineering vehicles, bait boats, robots or cars
Number of Channels	8
RF	2.4GHz ISM
Maximum Power	< 20dBm (e.i.r.p.) (EU)
RF Protocol	ANT
Resolution	4096
Data Output	PWM/PPM/i-BUS/S.BUS
Operating Voltage	3.5~9V/DC
Distance	No less than 1000m (Air distance without interference)
Antenna	Two antennas
Display	LED
Online Update	Yes
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Color	Black
Weight	10g
Dimensions	44.8*26.6*11.3mm
Certification	CE, FCC ID:2A2UNSR800









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18. Package Contents

This section contains the packaging list information for the FS-ST16 transmitter. Since different versions may have different configurations, please consult your dealer for specific details.

Number	Name	Quantity
1	FS-ST16 transmitter	1
2	FS-SR8 receivers	1
3	Quick Start Guide	1
4	USB Type-C Cable	1
5	Setback Sense Throttle Plate	1









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FLYSKY 19. Certification

19.1 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.

19.2 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

19.3 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 THEINSTRUCTIONS



19.4 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.









19.5 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 colocated 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.

19.6 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

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- 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.

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.





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