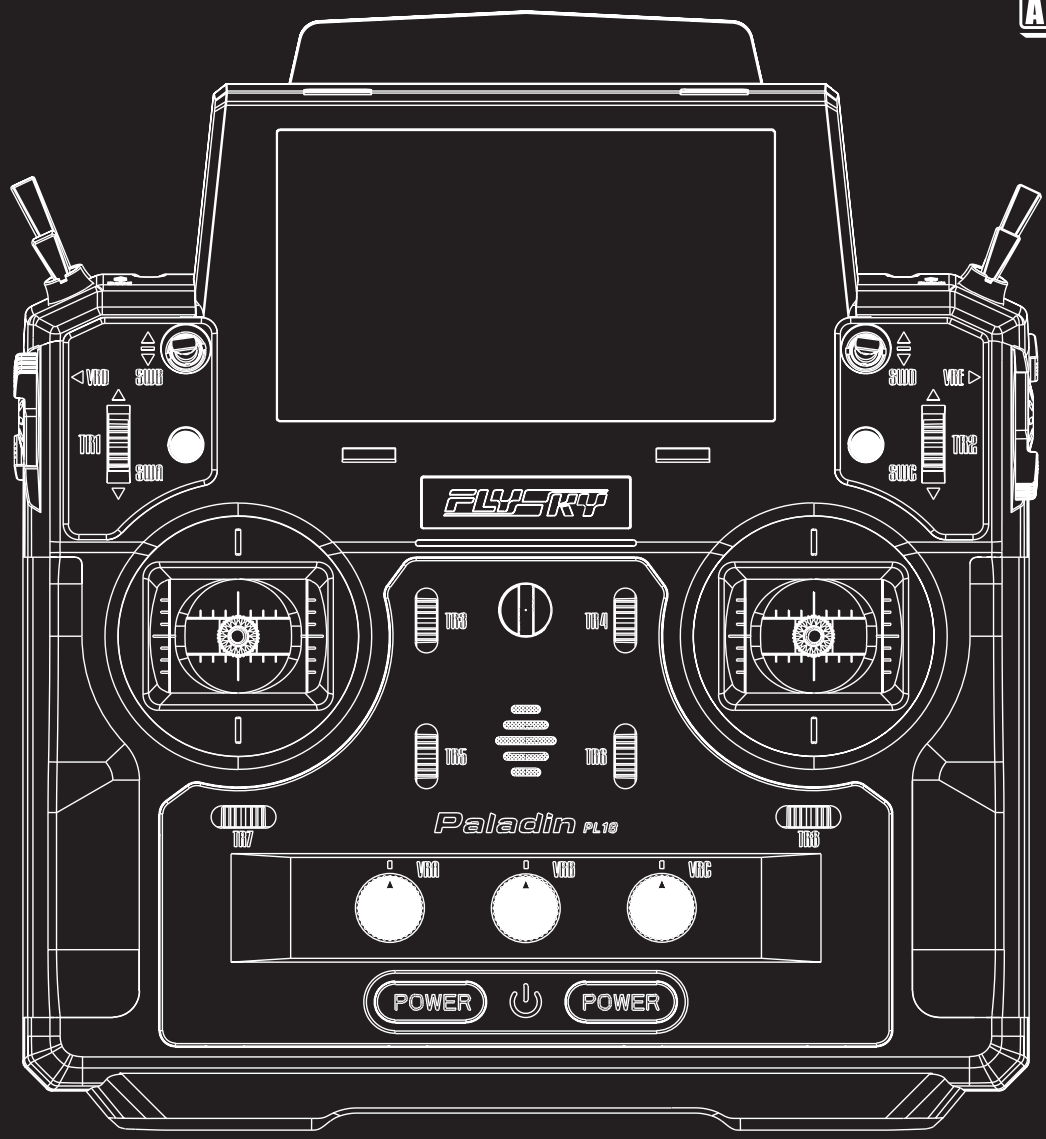
FLYSKY

Paladin PL18

2.4G AFHDS 3



Quick Start Guide

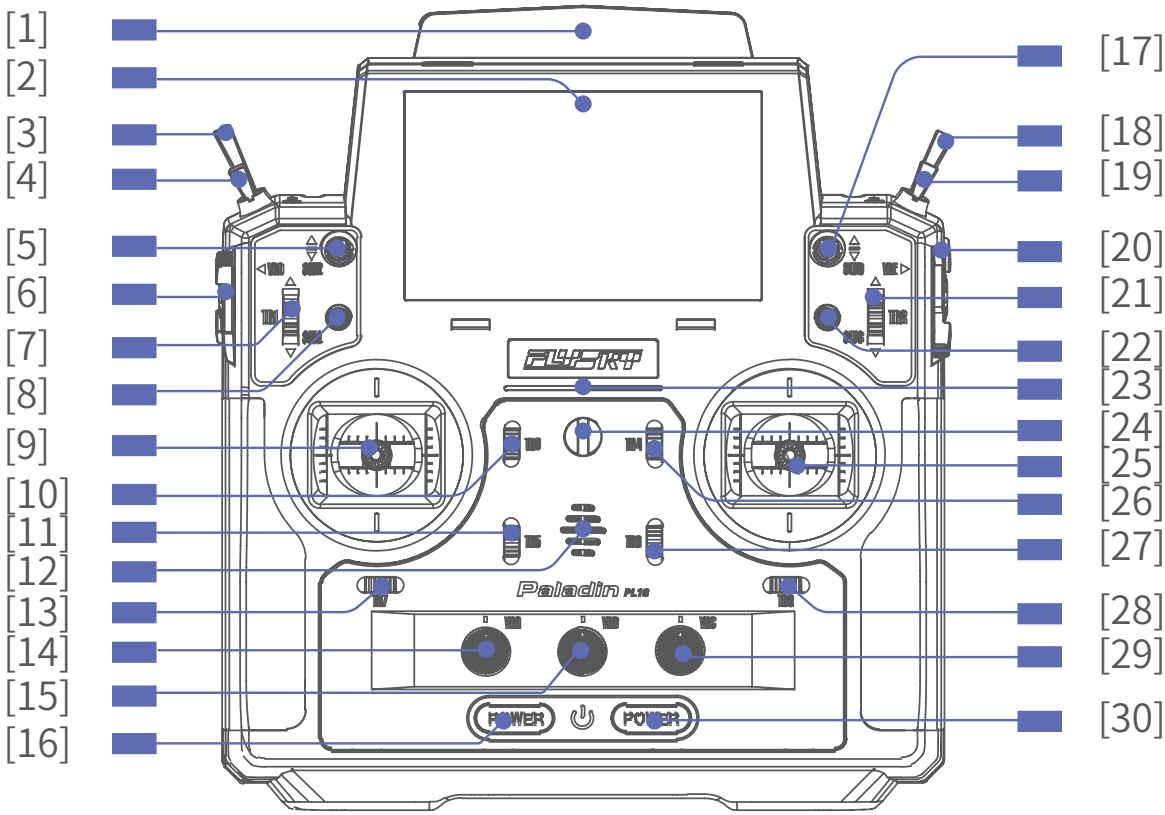
Precautions!

For your own safety: make sure to download and read the Disclaimer & Warning documentation from the Flysky website before using this product.

Flysky Website：www.flysky-cn.com

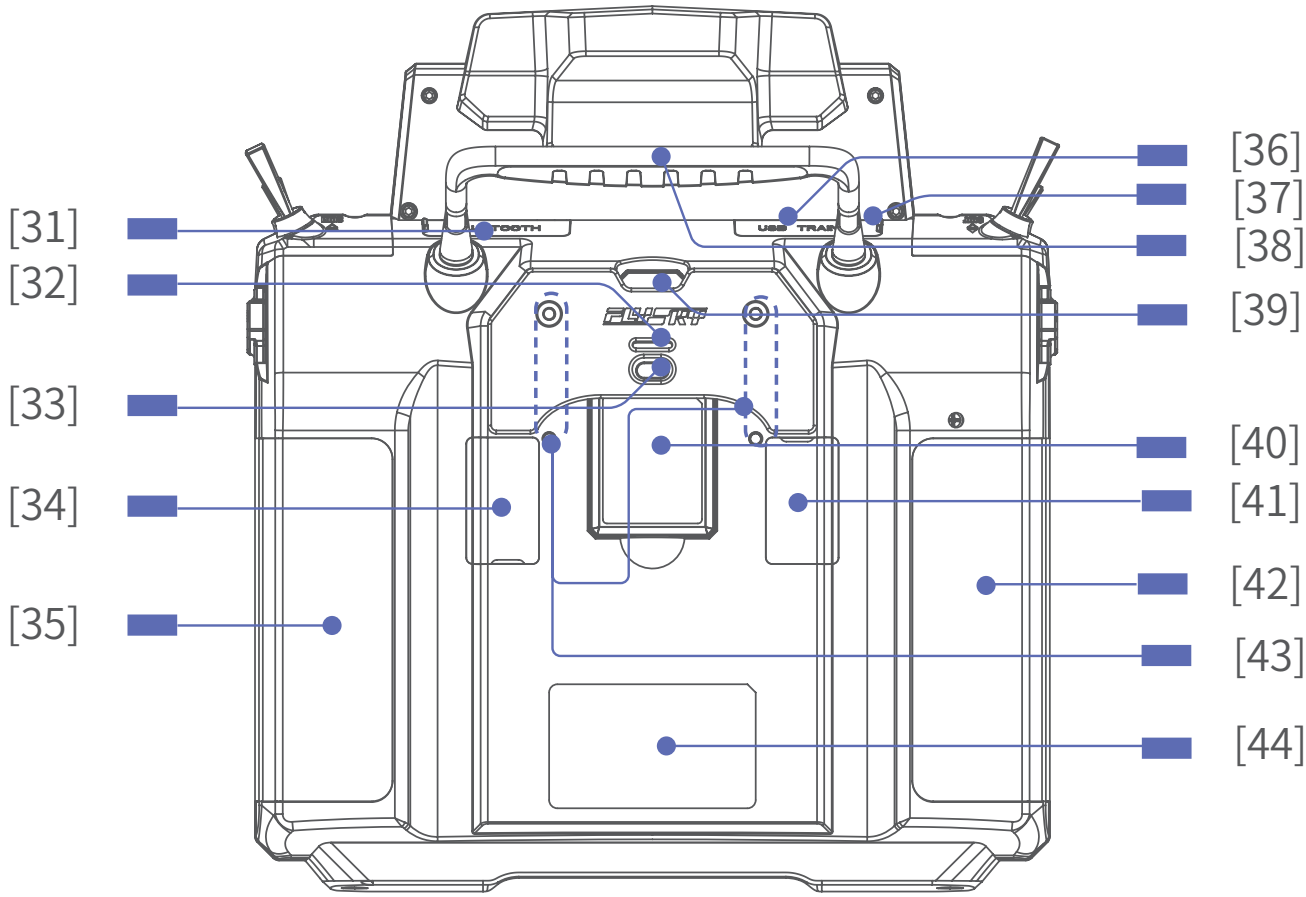
1. For best signal quality the transmitters antenna must be kept at least 20 cm away from all your body and must not be juxtaposed or operated close to other transmitters. Antenna installation instructions and transmitter operating conditions that meet RF signal emissions must be provided to end users and installers.
2. Hereby, [Flysky Technology Co., Ltd.] declares the RF equipment [Paladin PL18] to be in accordance with RED2014/53/EU.
3. The full text of the EU DoC is available at www.flyskytech.com/info_detail/10.html

Front View：



[1] Antenna
[2] TFT LCD
[3] SWF Switch
[4] SWE Switch
[5] SWB Switch
[6] VRD Knob
[7] TR1 Button
[8] SWA Button
[9] Left Stick
[10] TR3 Button
[11] TR5 Trim
[12] Speaker
[13] TR7 Trim
[14] VRA Knob
[15] VRB Knob
[16] Power Switch
[17] SWD Switch
[18] SWH Switch
[19] SWG Switch
[20] VRE Knob
[21] TR2 Button
[22] SWC Button
[23] Transmitter LED
[24] Neck Strap Hook
[25] Right Stick
[26] TR4 Button
[27] TR6 Trim
[28] TR8 Trim
[29] VRC Knob
[30] Power Switch

Back View:



[31] Bluetooth Port

[32] FRM301 Status Indicator

[33] FRM301 Button

[34] Gimbal Tension Adjustment

[35] Grip

[36] Micro USB

[37] Trianer Jack

[38] Carry Handle

[39] Press to Release FRM301 Module

[40] FRM301 RF Module

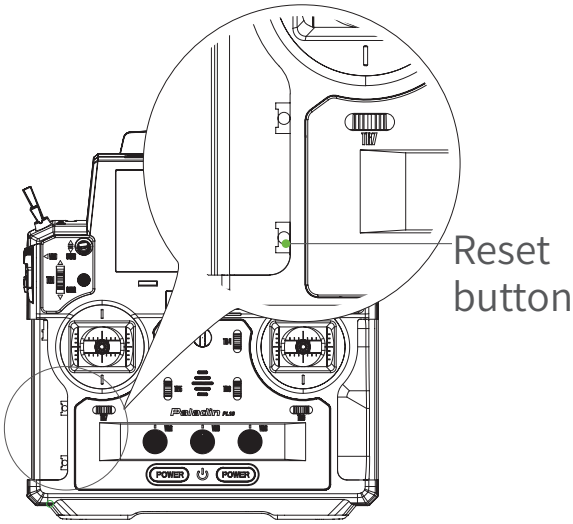
[41] Gimbal Tension Adjustment

[42] Grip

[43] Screw Holes For Fixing RF Module

[44] Wireless Charging Input Area

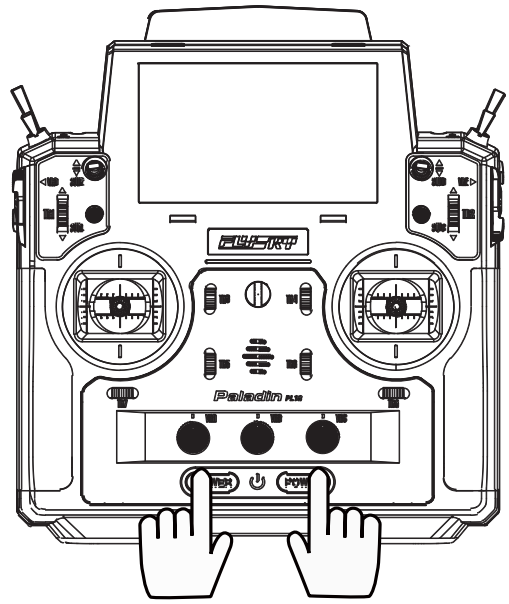
- For more information about the Paladin transmitter please read the user manual.



The **Reset** button is on the lower left part of the transmitter as shown. You need to tear apart the grip to find it. To press it by using a long thin tool, such as a smaller screwdriver.

In case of the transmitter can not be powered off by pressing the two power switches, please reset the transmitter with the reset button.

Powering On



1. Check to make sure that the battery is fully charged;
2. Press and hold both power swithes until the screen turns on.

If any switches named after SW characters are not at their highest positions, or the throttle stick is not at its lowest position, A voice prompt sounds: “Switch is not in the high position, throttle is not at the lowest position”. The transmitter will show which switches are not in the correct position by highlighting them in red on a diagram.

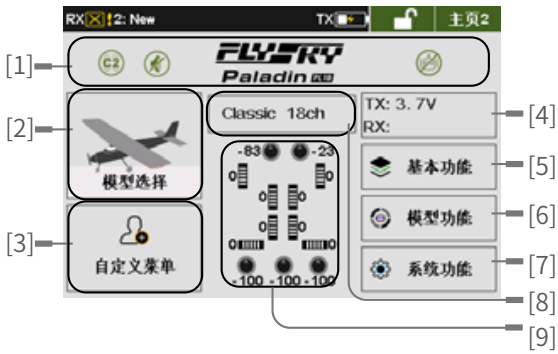
Powering Off

1. Power off the receiver.
2. Press and hold both power switches, the screen dims with the prompt "Shut down...please waiting for!", then it executes the shutdown procedure.

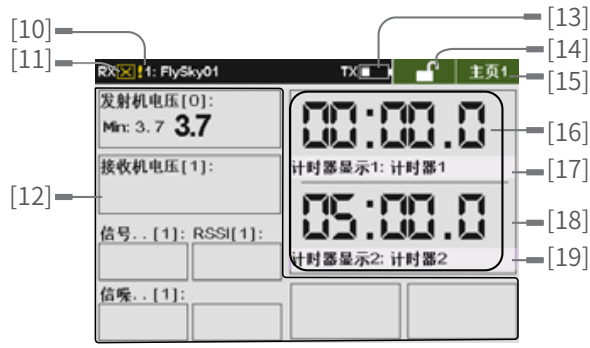
Always power off the receiver before the transmitter. Powering off the transmitter before the receiver may lead to loss of control of the model.

Main Screen Introduction

Home1:



Home2:



[1] Status Bar

[2] Current Model Image, Select Model interface Entry

[3] Custom Menu Icon, and its entry

[4] TX and The RX Voltage, Sensor Entry

[5] Basic Function Icon, and its entry

[6] Model function Icon, and its entry

[7] System Function Icon, and its entry

[8] RF System, Bind Setting Menu Entry

[9] Trim value, to enter Trim interface

[10] Model Name

[11] SIgnal Strength/RF Status

[12] Sensor, and its entry

[13] Transmitter Power Status

[14] Lock Icon, and tap to lock screen

[15] Home Icon, tap to switch between home1 and home2

[16] Timer, tap to start/stop timer

[17] Timer1, Selecting Timer Menu Entry

[18] Timer, tap to start/stop timer

[19] Timer2, Selecting Timer Menu Entry

The quick introduction about the icons of the interface.

Indicates that the screen/function is locked

Indicates that the screen/function is unlocked

Function Disabled

Function Enabled

For the current condition

For all conditions

To assign controls such as switches

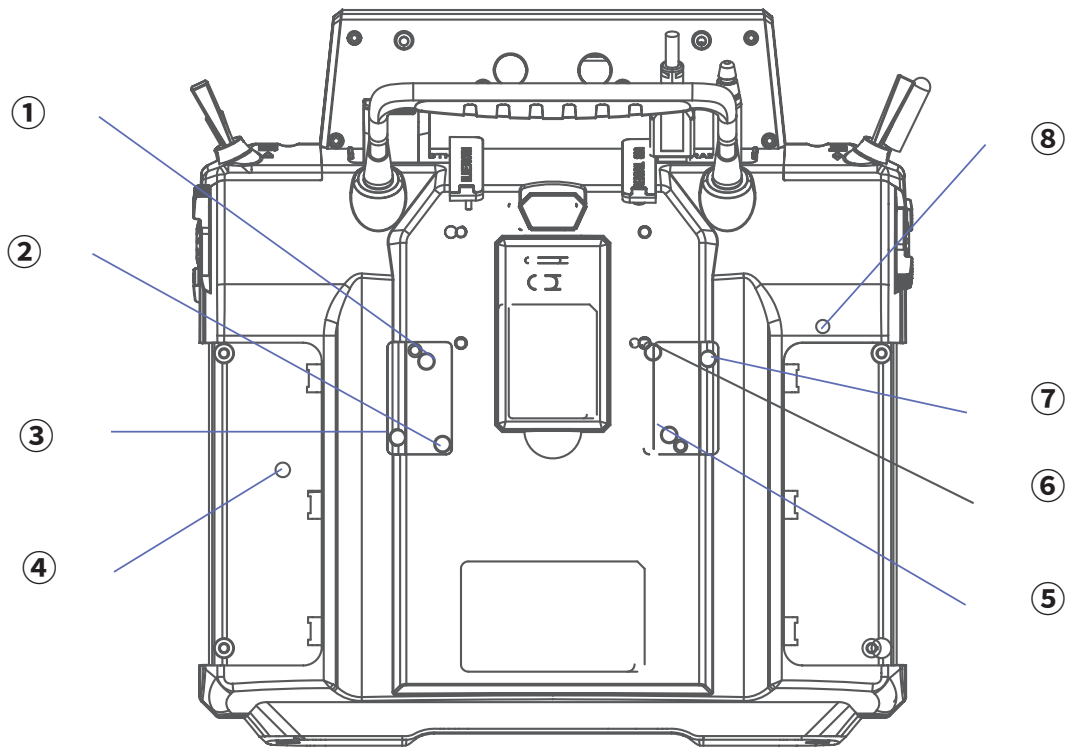
To return to the previous menu

To increase the set value, press and hold to increase rapidly.

To decrease the set value, press and hold to decrease rapidly.

To restore the default settings

Gimbal Adjustment Instructions



Setup:

By adjusting the tension screws on the back of the transmitter, gimbal stick can be either self-centering or non self-centering, as well as changing stick tension/friction.

Screw Description

① . ⑤	To change the gimbal sticks self-centering or non self-centering by adjusting the screws ① and ⑤ .	② . ⑥	To change vertical tension strength of the gimbal sticks by adjusting the screws ② and ⑥ .
③ . ⑦	To change horizental tension strength of the gimbal sticks by adjusting the screws ③ and ⑦ .	④ . ⑧	To change the vertical friction strength of the gimbal sticks by adjusting the screws ④ and ⑧ .

Right gimbal as example:

⚠ **Attention**	**When the counterclockwise adjustment is made, entire range of movement of the screw is about 3mm. Be cautious not to adjust it too far or the screw will fall out.**

Non Self-centering to Self-centering

1. Use a Phillips screwdriver to adjust the screw ① counterclockwise until the gimbal stick changes to self-centering..
2. Adjust screw ④ counterclockwise to adjust the Frictional strength.
3. If you need to adjust the centering force, adjust screw ② , and strengthen force by adjusting in clockwise , and vice versa as needed.

Self-centering to Non Self-centering

1. Use a Phillips screwdriver to adjust the screw ① clockwise so that the gimbal stick changes to non self-centering.
2. Adjust the screw ④ clockwise to strengthen the frictional strength.
3. If you need to adjust the centering force, adjust screw ② , and strengthen force by adjusting in clockwise , and vice versa as needed.

Stick Mode

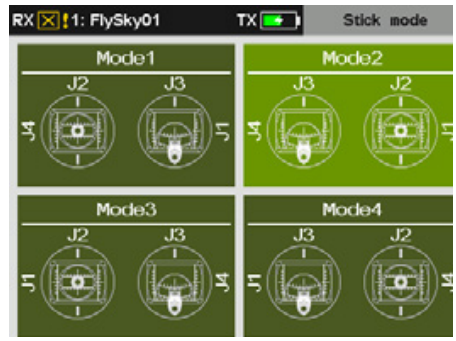
This system supports four stick modes. As for airplane models, from channel 1 to channel 4, by default, these four channels are assigned to aileron, elevator, throttle and rudder. There are four preset modes of the sticks in order to meet the different requirements. You can select suitable mode among Mode1, Mode2, Mode3 and Mode4. The green icon indicates the currently selected

mode, and the default mode is Mode 2. You can select suitable mode as your desired. Then you need to adjust the gimbals as needed to match the mode. Follow the steps as follows.

Setup:

Enter the Model Setup interface via Home1>Basic>Models, then click the box next to Stick to enter the Stick mode interface.

Select the mode as your desired. Then touch ❮ to return to the previous interface.



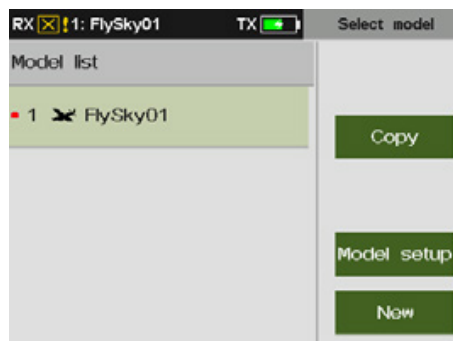
Note: It is also can be set in the updating wizard interface after the transmitter firmware is updated. The factory preset mode for the stick can be set in this interface. Only transmitter firmware version 1.0.55 or above has this function.

Model select

This function is used to create a new model by Copy or New function, delete all models except the current model, or search the receiver corresponding to the model. The settings of the models vary for the different models. This function provides opportunities that one transmitter can adapt varieties of real models. PL18 transmitter can store up to 18 different models. Take creating a new model by Copy as an example.

Setup:

1. Enter Model setup interface.
2. Touch to select the model you want to copy,
3. Touch Copy to create, after that a prompt interface comes along with it. Touch Yes to complete.



PWM Frequency

Used to adjust the PWM frequency. This function can be used for analog servos (50Hz), digital servos (333Hz) and can also be set to custom frequency. Digital servos and custom frequency range between 50-400Hz

The receiver's output frequency of PWM signals can be regulated. Theoretically, the higher the frequency, the faster the signal is refreshed, and the faster the servo responds to the signal change. However, some servos may not support PWM signals with excessively high frequency. You may need to take into account the servo's performance when doing such settings.

The interface of this function may vary with bind modes. For enhanced receivers, the PWM frequency of each channel can be set separately, and the options include analog servo (50 Hz), Digital servo (333 Hz), SR (833 Hz), SFR (1000 Hz) and Custom.

If a classic receiver is bound, all channels are set together, and cannot be set to SR (833 Hz) and SFR (1000 Hz).

PWM Frequency-Enhanced Version Receiver

Sets PWM frequency after the transmitter is bound to enhanced version receivers.

Set All Channels

Sets PWM frequency for all channels.

Setup:

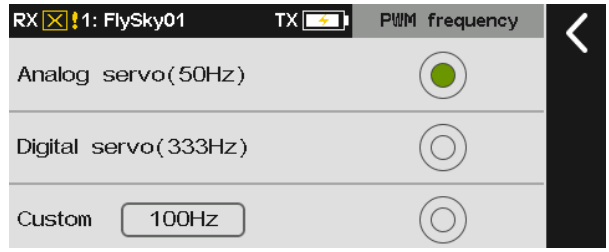
1. Tap Set all channels.
2. Tap the appropriate item according to the actrual servo. Then click ❮ to return.
3. For Custom, click + / - to set an appropriate frequency value.
4. For Synchronized with RF, click the check box at the right. "√"

means the function is activated.

Set A Channel

Sets PWM frequency for a channel.

Refer to the descriptions of Set all channels for function setup.



The conventional PWM frequency is 50-400 Hz. When SR (PWM frequency: 833 Hz) and SFR (PWM frequency: 1000 Hz) are selected, the overall system delay will be decreased, but the pulse range of PWM signals is changed. Please make sure the servo supports the frequency and the setting is correct. Otherwise the servo may not work properly, or even get damaged.

Charging Mode

PL18 can be charged in two ways:

- Plug the Micro USB cable into the charging port for charging.
- Use the wireless charging dock to charge it.

Note: Charge it within the safe value (6h@5V Micro USB/7h@2A Wireless Charging). Overcharging may lead to battery damage. To prolong the service life of the battery, properly discharge the fully charged battery before long-term storage, and charge it regularly to prevent over-discharging damage during storage.It is recommended that the lithium battery be charged to 40-50% of its capacity for preservation. For example, it is recommended that the storage voltage of lithium battery is 3.85V in case of preservation. You need to check the voltage of the battery every 3~6 months. If it is lower than 3.85V, please recharge it until the battery reaches the said voltage before represervation.

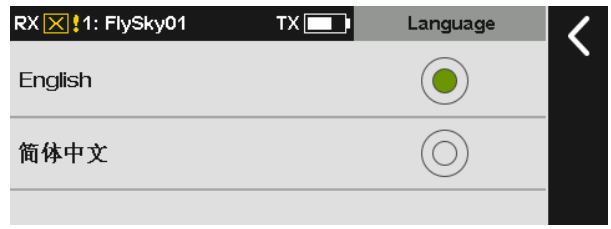
Please use the standard charging cable of this transimmiter to charge it. Improper use may cause damage to the battery and affect its service life.

Language

This transmitter has 2 languages available:

Setup：

1. Enter System interface via Home1.
2. Touch General, then touch Language to enter. Touch your preferred language option and touch ◀ to return to the previous interface.



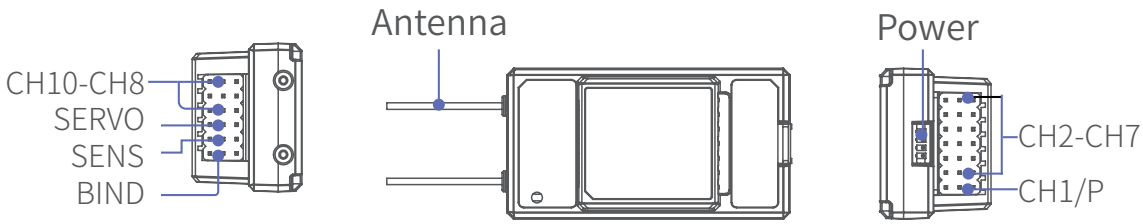
Updating the RF module Firmware

The RF module firmware can be updated by the following two ways.

- If the transmitter poweres on and comes along with a wizard after the transmitter has been updated the firmware. Follow thepromt!to complete the settings of Stick mode, Stick Calibration and RF update.
- Or folllow the setps as below:
  1. Enter Basic interface via Home1.
  2. Touch RF setting to enter the setting interface.
  3. Touch RF firmware update, after that a prompt interface comes along with it. Touch Yes to enter the updating mode. When the update is completed, the updating interface will exit automatically.

Binding

The transmitter and receiver have been pre-bound at the factory,however if you need to bind a new receiver or rebind the original receiver follow the steps below.



1. Power on the transmitter, enter the bind setting interface via Home 1> Basic > RX setting.
2. Tap Bind setting and enter the binding setting interface. Then set some items, such as selecting suitable RF System, choosing two way or not, or setting the starting channel. Afterwards, click Bind to put the transmitter into bind mode.
3. Put the receiver into bind mode (Refer to the manual of the receiver for details.)
4. The LED of the receiver stops flashing and is solid on, indicating that the binding process is finished.
5. Check to make sure the transmitter and receiver are working normally, repeat steps 1 to 3 (binding process) if any problems arise.

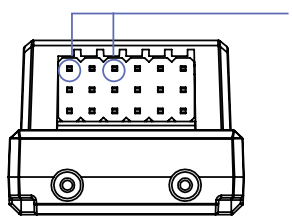
Notes:

1. The transmitter supports Two way and One way connections. When you choose One way, the receiver does not send the data to the transimitter, the LED flashes slowly after the receiver receives the bind information. Manually put the transmitter to exit the bind mode. When the LED of the receiver is on, it indicates that the binding process is completed.
2. Flysky AFHDS 3 classic version receiver models: FTr10/FGr4/FGr4s/ Gr4p/FTr4/FTr16S. Other Flysky AFHDS 3 receivers are enhanced version receivers.
3. RF system options: Routine 18ch, Lora 12ch and Fast 8ch (three RF options) are adaptive for AFHDS 3 enhanced version receivers. Routine

18ch: Provides 18 channels with moderate communication distance; Lora 12ch: Provides 12 channels with super anti-interference and moderate communication distance; Fast 8ch: Provides 8 channels, fast communication within short distance; Classic 18ch: Used to adapt to Flysky AFHDS 3 classic version receivers. C-Fast 10ch: To adapt Flysky AFHDS 3 classic version receivers. It supports 10-channel, the delay effect is better than Class 18ch. After clicking Bind, a prompt of supported receivers will be popped up. Please select the appropriate RF system option according to the actual application scenarios and the actual receiver models.

4. When you select Routine 18ch, and Two way is selected, at the time, the transmitter will spport two receivers mode (by default, it is the single-receiver mode). When choosing the Double RX mode, set the primary and secondary receivers Start channel, and then to bind with the primary and secondary receivers respectively. Click Bind to put the transmitter to enter the binding mode.

If after the transmitter which has updated the firmare can not connect or bind to the receiver, the receiver firmware must be upgraded by forced update mode. After the receiver has enter the forced update status, then go to the RX Setup menu and select RX update as normal.

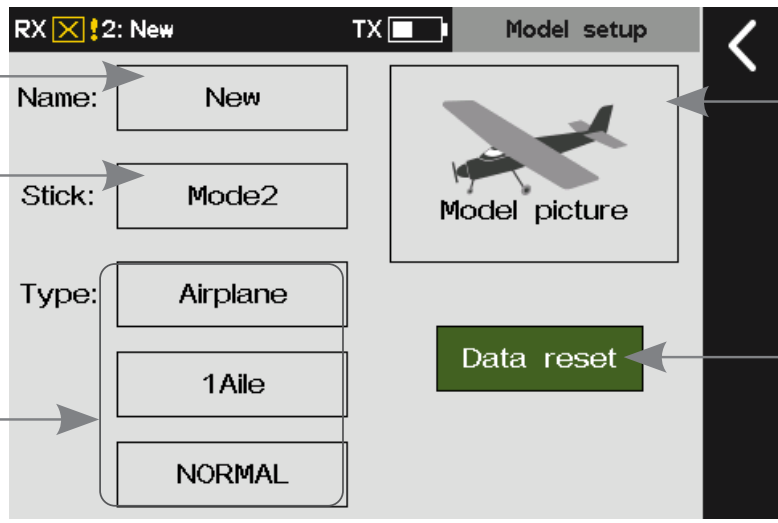


Insert the binding cable as shown to put the receiver into forced update mode.

The above steps are only applicable when pairing the Paladin and FTr10. If you are using other receivers, please referee to the receivers user manual.

Model Type

PL18 transmitter includes a variety of options for modes, including Airplanes, helicopters, gliders, multicopters, cars, boats and robots. You can set the related settings of models, such as configurations and functions. Take airplane as an example, for other model settings, please refer to the function setting section of airplane.



Renaming Model Name Interface Entry

Stick Mode Setting Entry

Entrance to the interface for setting up model types and related structures and functions

Tap to enter the interface of selecting model picture.

Tap to reset all data of the model.

Note that the original data will be deleted after resetting.

Setup

1. Touch Models to enter, then touch Airplane.
2. Select the appropriate wing structure according to the actual model.
3. Select the appropriate tail structure according to the actual model.
4. Select the appropriate option according to the actual model.

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 Boat, the Wave and the Grip can be set.

⚠ Failsafe

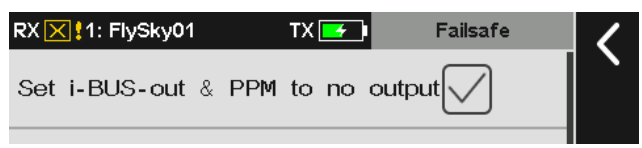
This feature is designed to protect models and their users in the event of a loss of signal.

The Failsafe function can be set in the three ways, you can set to no output status for i-BUS&PPM signals. You can set all channels separately to no output, hold or fixed value. You can set all channels with fixed value to the current output value.

Setting i-BUS-out & PPM to No Output

This function is for i-BUS and PPM signals. After the Set i-BUS-out &PPM to no output is enabled, regardless of the setting of the failsafe, these two types of failsafe signals are always no output. If the function isdisabled, after losing control, you can set by channel: set to fixed value or keep the last output value. By default, this function is enabled.

If the check box next to right of the option is not ticked (√), it indicates that the function is disabled.

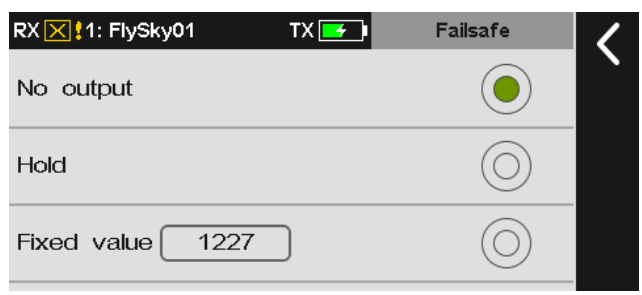


Setting A Channel

Can be used to set the output signal states of channels 1~18 respectively: No output means that there is no output in case of out-of-control; Hold means the last channel value is kept in case of out-of-control; Fixed value means that you can set the failsafe output value by moving the control, then the value set will output in case of out-of-control.

Setup:

1. Tap to select the channel to be set and enter the next level interface.



2. Tap to select the desired function options. If the fixed value is selected, turn the Stick(Switch, Knob or LSW) to the desired position and hold it, then click to return to finish the settings.

Setting All Fixed Value Channels

Used to set the output value of all channels that have been set to a fixed value after out-of-control.

Setup:

Tap this function while holding the control, after that a prompt interface comes along with it. Click Yes to complete.

Specifications

Paladin (PL18)	
Product Model	PL18
Number of Channels	18
Adaptive Models	Airplane, helicopter, glider, multicopter, car, boat and robot
RF	2.4GHz ISM
Transmission Power	< 20 dBm (e.i.r.p.) （EU）
2.4GHz Protocol	AFHDS 3
Low Voltage Alarm	＜ 3.65 V
Data Interface	Micro USB, BLUETOOTH, PHJACK(PPM)
Charging Jack	Micro USB/Wireless Charging
Antenna Type	Built-in Antenna
Input Power	1S （3.7V）*4300mAh
Online Update	Yes
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Color	Black
Dimensions	214*86.5*192 mm
Weight	946g
Certifications	CE，FCC ID: N4ZFT1800，RCM

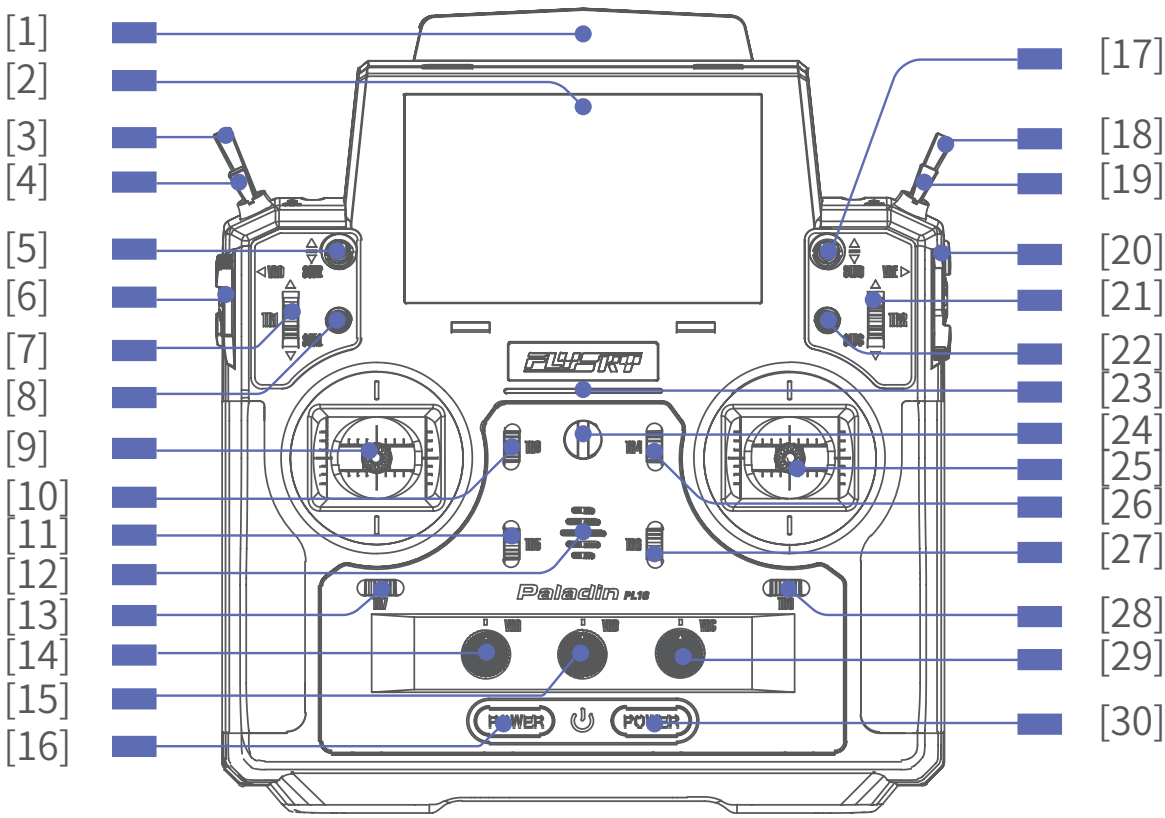
注意事项！

开始操作前请务必在 Flysky 官网下载并阅读《免责声明 & 警告》了解安全注意事项，并在 Flysky 官网下载阅读使用说明书。

Flysky 官网地址：www.flyskytech.com

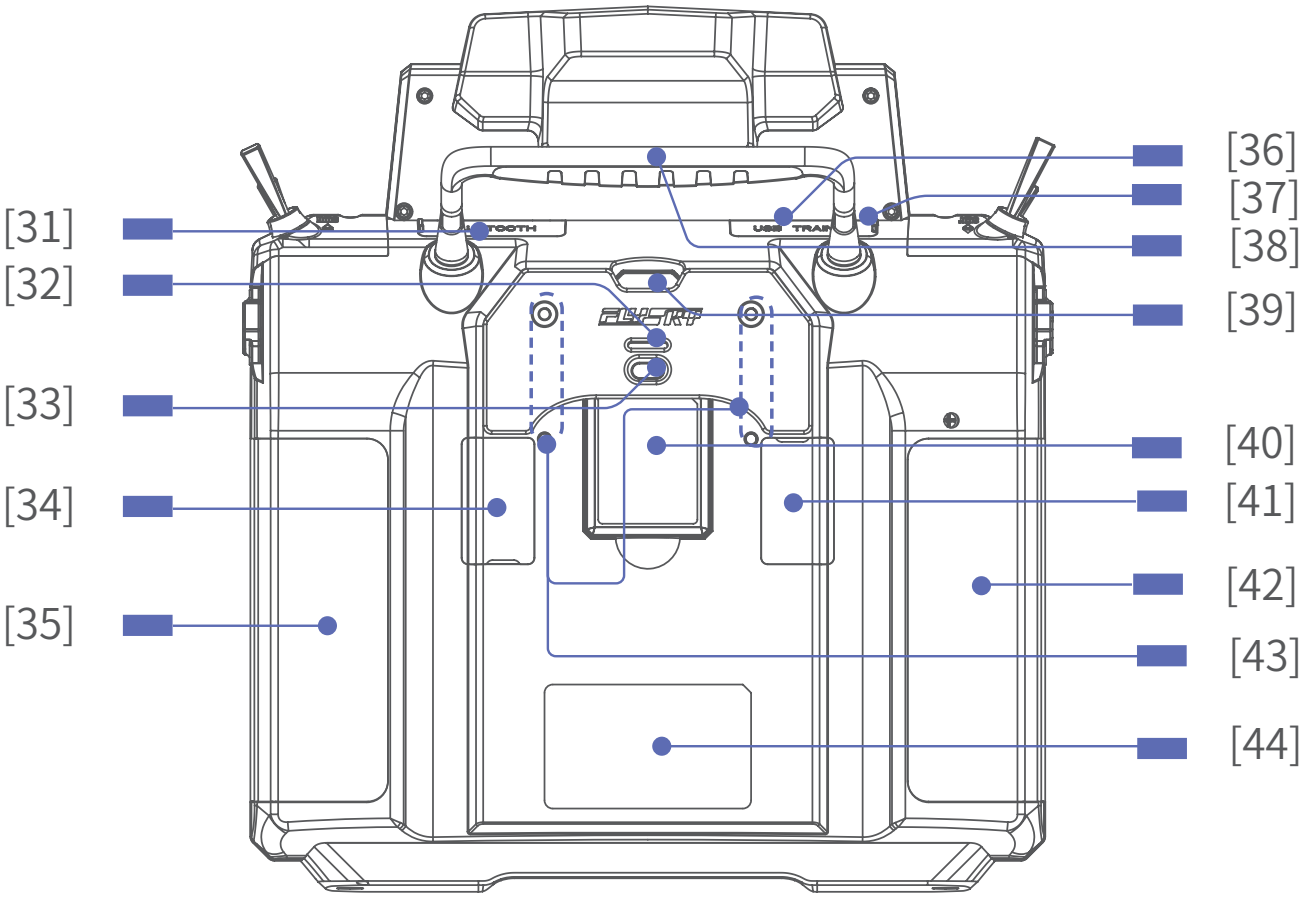
1. 发射机的天线必须距离所有人员或其他发射机至少 20 厘米的间隔距离。必须将天线安装说明和满足射频讯号辐射的发射机操作条件提供给终端用户和安装人员。
2. 特此，【Flysky Technology co., Ltd】声明无线电设备【Paladin(PL18),FT18】符合 RED2014/53/EU.
3. 欧盟 DoC 声明全文可在以下互联网地址：www.flyskytech.com/info_detail/10.html 获取。

前视图：



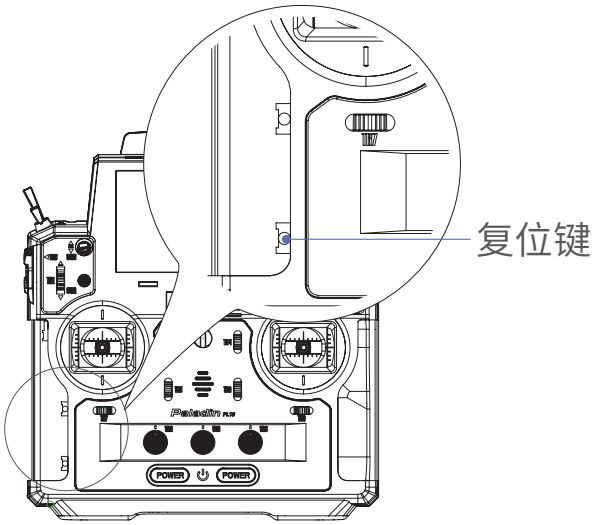
[1] 天线
[2] 显示屏
[3] SWF 拨档开关
[4] SWE 拨档开关
[5] SWB 拨档开关
[6] VRD 旋钮
[7] TR1 按键
[8] SWA 按键
[9] 左摇杆
[10] TR3 按键
[11] TR5 微调按键
[12] 喇叭
[13] TR7 微调按键
[14] VRA 旋钮
[15] VRB 旋钮
[16] 电源键
[17] SWD 拨档开关
[18] SWH 拨档开关
[19] SWG 拨档开关
[20] VRE 旋钮
[21] TR2 按键
[22] SWC 按键
[23] 发射机状态指示灯
[24] 吊环
[25] 右摇杆
[26] TR4 按键
[27] TR6 微调按键
[28] TR8 微调按键
[29] VRC 旋钮
[30] 电源键

后视图：



[31] 蓝牙模块接口
[32] FRM301 指示灯
[33] FRM301 按键
[34] 总成座松紧度调节
[35] 小手胶
[36] Micro USB 接口
[37] 教练接口
[38] 提手
[39] 按压弹出 FRM301
[40] 高频模块 FRM301
[41] 总成座松紧度调节
[42] 小手胶
[43] 高频头转接件固定孔
[44] 无线充电感应区

- 关于 Paladin 发射机的更多操作请阅读使用说明书。



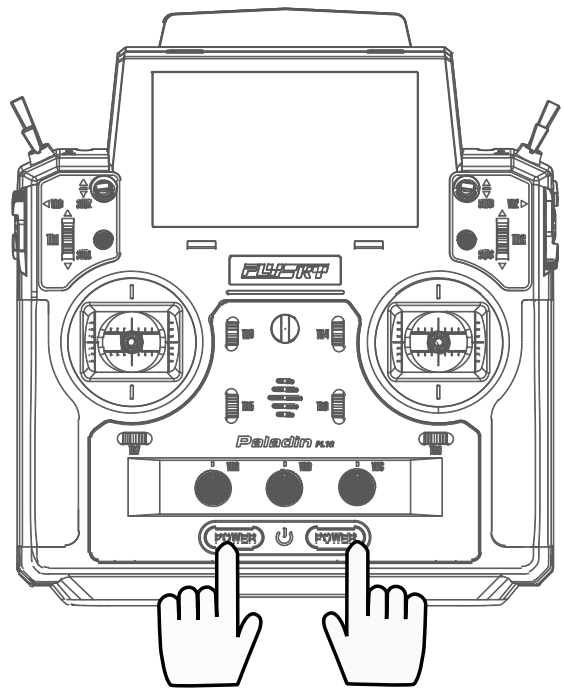
复位键位置：位于发射机正面左下部，需拨开手胶才能看到。按压复位键需借助较为细长的工具。

复位键功能：当按电源键无法关闭发射机时，需要用复位键复位发射机。

⚠ 小心	• 复位发射机后，本次开机时的设置可能失效。

开机

1. 检查系统状态，确保电池电量充足；
2. 同时按住发射机电源键，直至屏幕亮起，表示开机。



开机警告！

当开机语音提示“开关不在最高位，油门不在最低位”或“Switch is not in the high position，throttle is not at the lowest position”，同时发射机弹出提示界面时（红色表示对应控件位置需调整），请根据提示检查按键，开关，摇杆，并按照发射机提示将其放在正确位置。

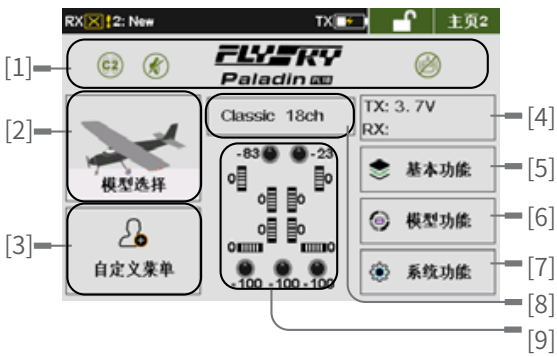
关机

1. 断开接收机电源；
2. 同时按住发射机两个电源键，当屏幕变暗并显示“正在关机 ... 请稍候！”后执行关机程序。

关闭前，请务必先断开接收机电源，然后关闭发射机。如果强行关闭发射机，将有可能导致遥控设备失控或者引擎继续工作而引发事故。

主界面介绍

主页 1：



[1] 状态栏

[2] 当前模型图片 , 模型选择入口

[3] 自定义菜单图标，自定义菜单入口

[4] 发射机和接收机电压，传感器入口

[5] 基本功能图标，基本功能入口

[6] 模型功能图标，模型功能入口

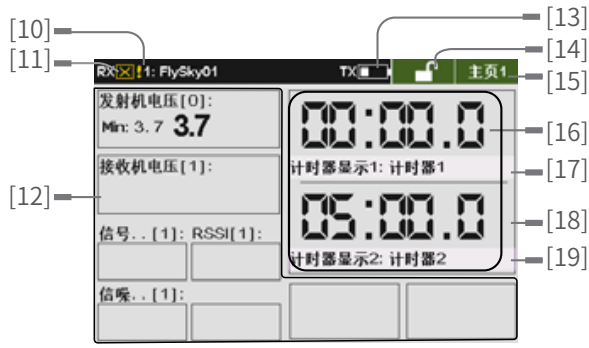
[7] 系统功能图标，系统功能入口

[8] RF 系统，对码设置入口

[9] 微调控件值预览，点击进入微调设置界面

[10] 模型名称

主页 2：



[11] 接收机 / 高频状态

[12] 传感器 , 传感器设置入口

[13] 发射机电量

[14] 锁屏图标，点击锁定屏幕

[15] 主页图标，点击切换主页 1/2

[16] 显示计时器 ，点击可启动 / 停止计时器

[17] 计时器 1 ，点击可选择显示的计时器

[18] 显示计时器 ，点击可启动 / 停止计时器

[19] 计时器 2 ，点击可选择显示的计时器

功能界面图标介绍

表示功能或此界面被锁定不可操作

表示此功能或此界面可操作

表示此功能在禁用状态

表示此功能在开启状态

表示当前模式

表示所有模式

点击可进行开关等控件分配

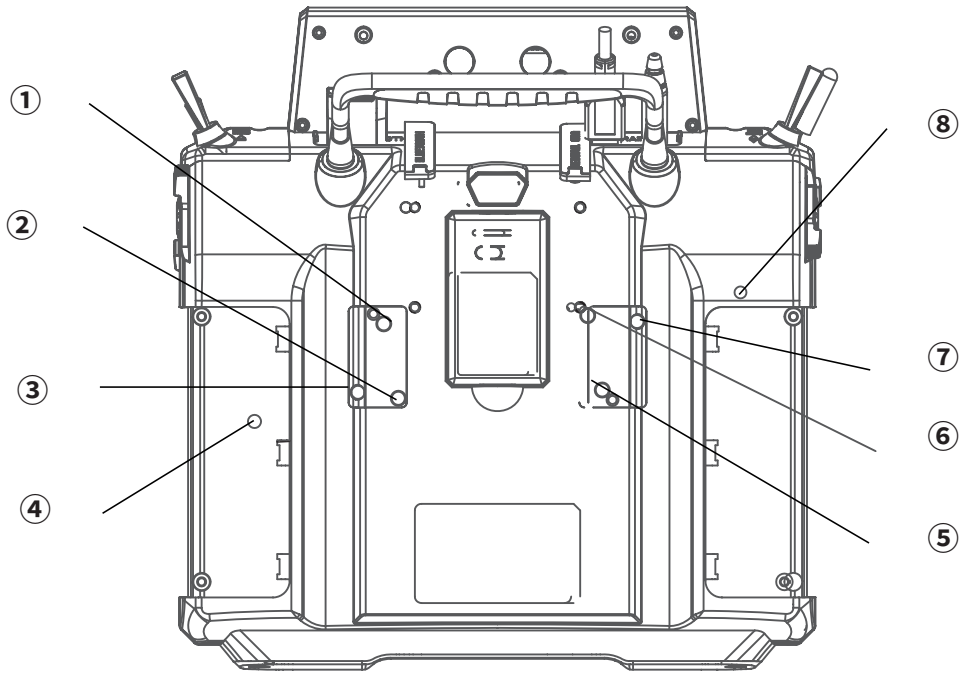
点击返回上一级界面

点击用于增加数值，长按可迅速增加数值。

点击用于减少数值，长按可迅速减少数值。

点击可使功能恢复初始值

总成座调节说明



功能设置：

用户可调节螺丝孔螺丝实现总成座纵向回中与不回中切换、不回中时拨动摩擦力、调节摇杆自回中时回中弹力，请参照以下步骤：

螺丝说明：

①.⑤	调节总成座摇杆是否回中	②.⑥	调节总成座纵向摇杆弹力
③.⑦	调节总成座横向摇杆弹力	④.⑧	调节总成座纵向摇杆摩擦力

以右边摇杆为例：

⚠注意	**螺丝总行程约为 6 圈（最紧到最松），逆时针调节时请不要过调，否则可能导致螺丝脱落。**

不回中 - 回中：

1. 请用十字螺丝刀逆时针调节①号螺丝使摇杆变为回中状态；
2. 逆时针调节④号螺丝调整摩擦力度；
3. 如还需调整回中力度，请操作②号螺丝调节回中力度，顺时针力度加强，反之减弱。

回中 - 不回中：

1. 请用十字螺丝刀顺时针调节①号螺丝使摇杆为不回中状态；
2. 顺时针调节④号螺丝加强摩擦力度；
3. 如还需调整回中力度，请操作②号螺丝调节回中力度，顺时针力度加强，反之减弱。

摇杆模式

此机型此支持四种摇杆功能，对于飞机类模型 1~4 通道默认对应 “副翼、升降、油门、方向”。为适配不同的使用习惯，发射机的摇杆预设支持 4 种布局设置，根据需求点击 [模式 1]、[模式 2]、[模式 3] 或 [模式 4]，绿色图标表示当前选定模式（系统默认 [模式 2]），选定后返回，再根据选定模式及操作需求进行总成座调节，请根据实际需求选择相应模式并按照以下步骤进行操作。

功能设置：

选择 [主页 1]>[基本功能]>[模型设置]，点击 [摇杆] 右侧功能框进入设置界面，点选所需模式。完成后点击返回 即可。

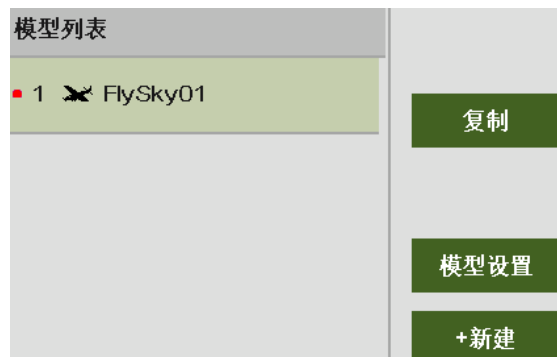
注：也可在升级固件后，在升级向导页进行摇杆模式设置。此设置可以设置出厂预设的摇杆模式（1.0.55 版本以后的固件支持此功能）。

模型选择

在模型选择功能下可通过复制或新建功能创建一组新模型，可删除所建的模型，可搜索模型所对应的接收机。对于不同的模型，相应的模型设置也不同，此功能提供了同一台发射机可以对应不同模型使用的便利。以 [复制] 功能建立模式为例说明，新建 / 删除模型功能设置请参考复制部分。

功能设置：

1. 进入 [模型选择] 界面；
2. 点选要复制的模型；
3. 点击 [复制]，弹出界面上点击 [是] 即完成复制。



注：可通过富斯遥控管家（FlyskyAssistant）实现模型数据继承（富斯遥控管家固件版本仅 3.0 及以上版本支持）。

PWM 频率

调节通道输出控制舵机频率，根据使用的舵机设置正确的输出频率值。默认舵机频率为 50Hz，调节范围在 50-400Hz 之间。

有些舵机的操控频率可能与默认频率不同，为了使舵机正常运行，可以通过此功能更改舵机 PWM 频率。发射机对码增强版与经典版的接收机后，对应的舵机响应速度界面不同可调节接收机输出 PWM 信号的频率。理论上频率越高信号刷新速度越快，舵机响应信号变化就越快。但是部分舵机不支持识别频率过快的 PWM 信号，故此项设置应考虑舵机性能设置。

此功能根据对码模式设置不同而界面有所不同，对于增强版接收机，支持每个通道单独设置 PWM 频率 , 可选项包括模拟舵机（50HZ/ 数字舵机（333Hz）/SR（833Hz）/SFR(1000Hz)/ 自定义。

对于经典版接收机，则仅支持对所有通道一起设置，且不支持设置为 SR（833Hz）和 SFR(1000Hz)。

PWM 频率 - 增强版接收机

设置所有通道

设置所有通道的 PWM 频率。

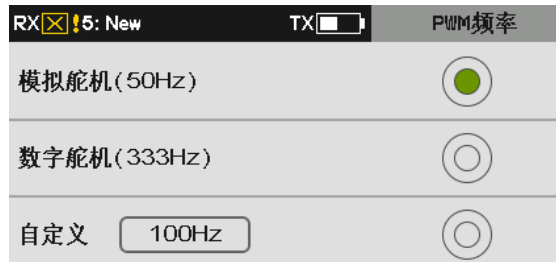
功能设置：

1. 点击要设置的功能项进入下一级设置界面；
2. 根据实际使用的舵机选择正确的频率项，点返回键返回。
3. 若选择 [自定义]，点 [+]/[-] 设置合适的频率值；
4. 若选择“与高频同步”，则点击右侧功能框，出现 " √ ” 即与高频同步，勾选后 PWM 频率将同步至高频。

设置单独通道

设置各通道的 PWM 频率。

若连接经典版接收机，功能设置参见增强版功能设置描述。



常规的 PWM 的频率是 50-400Hz，当选用 SR（PWM 频率 833Hz)、SFR(PWM 频率 1000Hz）时整个系统的延时会减小，但此时 PWM 信号脉冲区间已经发生了变化。请确保适配的舵机支持对应的频率并且设置匹配，否则可能导致舵机无法正常工作，甚至损坏舵机。

充电方式

可将 Micro USB 线插入充电口充电或通过无线充电底座对其充电。

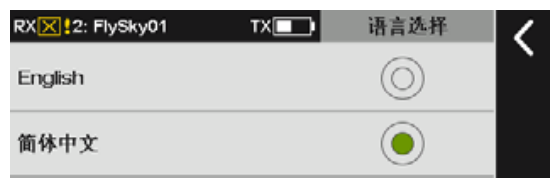
注：请在安全值内（4h@5V*2A/7h@2A 无线充）对其进行充电，过充可能会导致电池损坏；为延长电池使用寿命，长时间放置请注意不要满电，应适当放电后再进行放置，并且应定期充电防止电池过放损坏。建议将锂电池充到 40-50% 的容量保存。例如建议锂电的保存电压为 3.85V，且间隔 3~6 个月需检查电池的电压值，若低于 3.85V，请重新充电至此电压值后再继续保存；若电压低至 3.4V 发射机自动关机，同时语音提示“遥控器电压低，自动关机”；如当前的电池过放后充电和电流过小充电时，关机充电时会提示“缓充模式，请耐心等待！”，若是开机时充电，电量符号显示黄色闪电图标。

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

语言

PL18 支持两种语言：

功能设置：



1. 从 [主页 1] 进入 [系统功能] 界面；
2. 点击 [通用设置] 进入设置界面，点击 [语言选择] 进入语言设置界面；
3. 根据需要选择语言，设置完成后，点击 返回。

高频模块固件升级

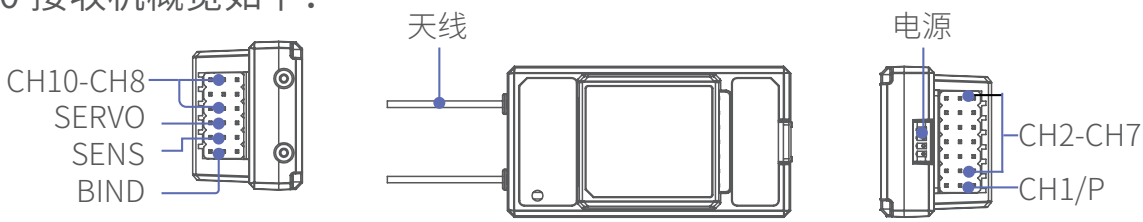
高频模块固件升级可通过如下两个途径完成。

- 若发射机更新固件后第一次开机时出现开机向导，则依据提示依次完成摇杆模式、摇杆校准及 RF 更新；
- 或通过如下步骤更新：
  1. 从 [主页 1] 进入 [基本功能] 界面；
  2. 点击 [高频设置] 进入设置界面；
  3. 点击 [高频固件更新], 在弹出提示后，点击 [是] 即进入更新状态，更新完成后，自动退出更新界面。

对码

本发射机和接收机在出厂前已对码成功。如果您需要重新对码时，请按照如下步骤进行对码，以与 FTr10 接收机对码为例。

Ftr10 接收机概览如下：



功能设置：

1. 打开发射机，进入 [主页 1]>[基本功能]>[接收机设置] 进入对码设置界面;
2. 点击 [对码设置] 进入对码界面。根据接收机与通信要求选择合适的 RF 系统项，是否双向通信、双接收及起始通道后，点击 [对码]，发射机进入对码状态；
3. 接收机进入对码状态；
4. 当接收机指示灯变为常亮时，表示对码成功；
5. 检查发射机、接收机是否连接正常。如有异常，重复以上步骤重新对码。

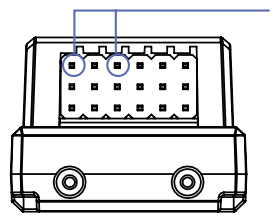
注：

1. 默认为双向通信，当选择单向通信时，接收机不回传数据信息给发射机。接收机收到对码信息后指示灯慢闪；需手动将发射机退出对码状态，若接收机指示灯变为常亮，则表示对码成功；
2. 富斯 AFHDS 3 经典版接收机型号：FTr10/FGr4/FGr4s/FGr4p/FTr4/FTr16S; 其他富斯 AFHDS 3 接收机均为增强版接收机；
3. RF 系统项：Routine 18ch、Lora 12ch 和 Fast 8ch 三个 RF 系统选项用于适配富斯 AFHDS 3 增强版接收机。Routine 18ch：提供 18 通道，通信距

离适中；Lora 12ch： 提供 12 通道，超强抗干扰，通信距离适中； Fast 8ch: 提供 8 通道，通信速度快，但通信距离较近； Classic 18ch：用于适配富斯 AFHDS 3 经典版接收机 ;C-Fast 10ch：对码经典版接收机，提供 10 通道通信。延迟效果优于 Class 18ch。点击 [对码] 后，会弹出支持的接收机列表提示菜单。请根据实际应用场景及实际接收机型号选择合适的 RF 系统项 ;

4. 当选择 Routine 18ch，且选择选择 [双向通信]，此时发射机支持双接收机模式，默认单接收机模式。当选择双接收机模式后，要先设置主副接收机 [起始通道]，然后分别对主、副接收机对码，点击 [对码] 发射机即进入对码状态。

发射机在更新完后，如无法与接收机对码，需强制更新接收机。在接收机进入强制更新模式后，在 [接收机设置] 功能中选择 [接收机固件更新]，选择对应的接收机后点击 [升级]，即可完成更新。

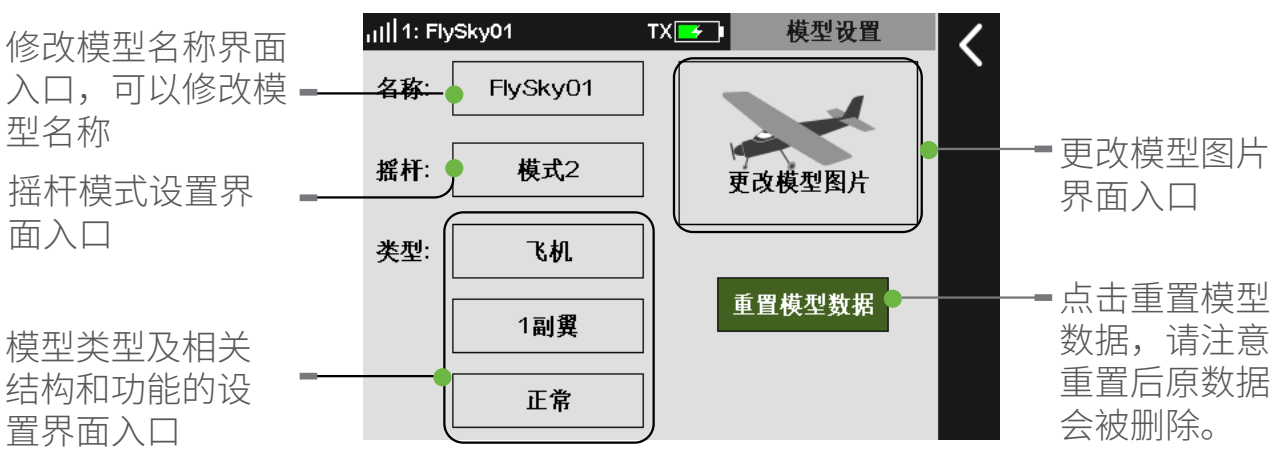


插入对码线短接，Ftr10 进入强制更新模式。

以上步骤适用于 Paladin 与 FTr10 的接收机对码。不同的接收机对码方式不同，具体对码方式请访问 FLYSKY 官网查询接收机说明书或其他相关资料。

模型设置

PL18 支持飞机、滑翔机、直升机、多轴（穿越机）、车、船和机器人七种模型类型。通过此功能可设置各个模型参数及功能。以飞机为例，其他模型设置请参考飞机的功能设置部分。



功能设置：

1. 进入 [模型设置] 界面，点击 [飞机]；
2. 根据实际模型点选合适机翼结构；

3. 根据实际模型点选合适尾翼结构；
4. 根据实际模型点选功能。

注：模型类型不同，可选功能项不同。例如飞机模型可选起落架、方向轮等，而船模型可选压浪板或夹具等。

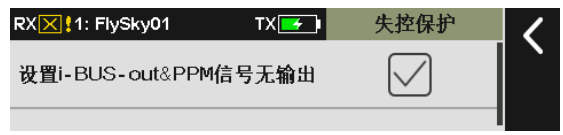
⚠ 失控保护

失控保护功能用于在接收机失去信号不受控制后，接收机按预设方式进行输出，保护模型及人员安全。

在失控保护菜单下可设置针对 i-BUS&PPM 信号无输出状态；可对所有通道单独设置：无输出、保持或固定值；可将所有已设固定值的通道设为当前输出值。

i-BUS &PPM 信号无输出

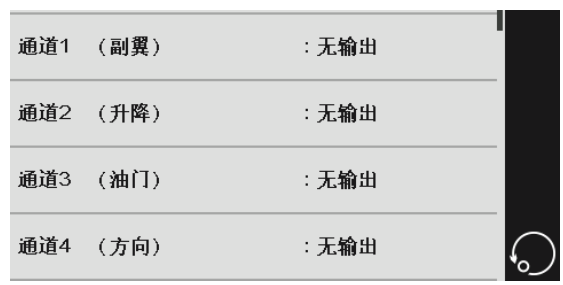
此失控保护设置是针对 i-BUS 和 PPM 信号。此功能开启后，不管各通道失控保护如何设置，这两类信号失控保护始终为无输出；未开启时，失控后按各通道设置：固定值或者保持最后输出值。系统默认开启状态。



点击 [i-BUS/PPM 无输出] 右侧的图标 ☑ ，取消后，当模型丢失信号后对应的 i-BUS/PPM 信号无输出。

设置单独通道

分别设置通道 1~18 输出信号状态：[无输出] 表示表示无信号输出；[保持] 表示失控时保持输出最后通道值；[固定值] 可以通过移动控件来设置失控保护输出值。



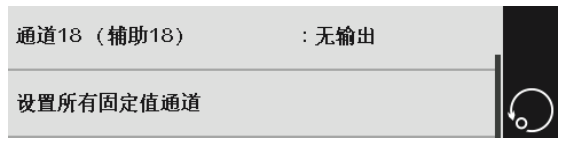
功能设置：

1. 选择需要设置的通道，进入子菜单；
2. 选择合适功能项；若选择固定值，则将

手轮（扳机或旋钮）拨到需要的位置并保持，同时点击返回图标即完成设置。

设置所有固定值通道

用于设置所有已经设置为固定值的通道失控后的输出值。



点击此功能项后，同时将控件拨到需要的位置并保持，在弹出的提示菜单“设置所有失控保护为固定值的通道失控保护值为当前输出值，确定？”，点击 [**是**] 即完成。

规格参数

Paladin (PL18)

产品型号	PL18
通道个数	18
适配模型	固定翼、直升机、滑翔机、多轴、车、船、机器人
无线频率	2.4 GHz ISM
发射功率	＜ 20dBm (EU)
无线协议	AFHDS 3
通道分别率	4096
低电压报警	＜ 3.65 V
数据接口	Micro USB、BLUETOOTH、PHJACK（PPM）
充电接口	Micro USB/ 无线充
天线类型	内置天线
输入电源	1S （3.7V）*4300mAh
在线更新	支持
温度范围	-10°C ~ +60°C
湿度范围	20% ~ 95%
外观颜色	黑色
外形尺寸	214*86.5*192 mm
机身重量	946g
认证	CE，FCC ID：N4ZFT1800、RCM

微信公众号

Bilibili

Website

Facebook

FCC ID: N4ZFT1800、RCM

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