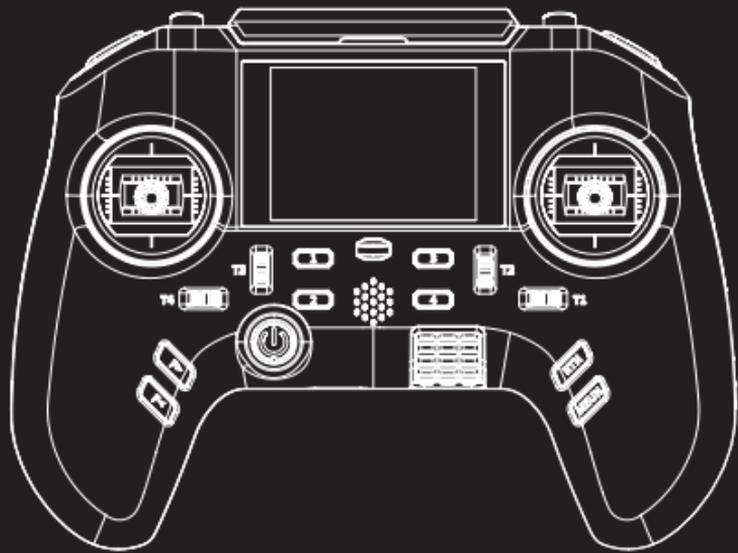


**FLYSKY**

# ProArt PA01

2.4GHz  
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](http://www.flysky-cn.com)

1. The ce warns that the installation of the antenna used in this transmitter must be kept in distance from all the personnel and shall not be used or used with any other transmitter. The end user and the installer must provide antenna installation instructions and transmitter operating conditions to meet the requirements for rf exposure compliance.
2. Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the radio equipment type [PA01] 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.flyskytch.com/info\\_detail/10.htm](http://www.flyskytch.com/info_detail/10.htm)

## **Environmentally friendly disposal**

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

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



## **FCC Compliance Statements**

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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

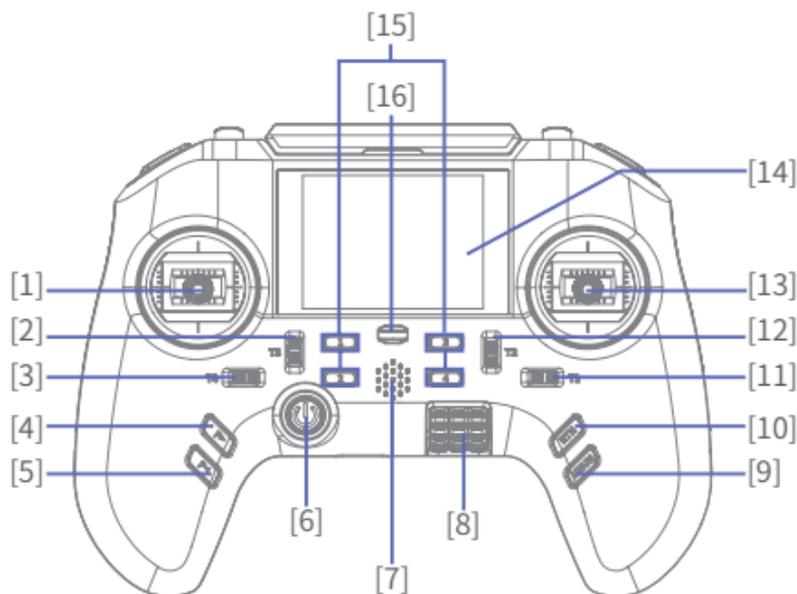
## **RF Exposure Statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

### **CAUTION**

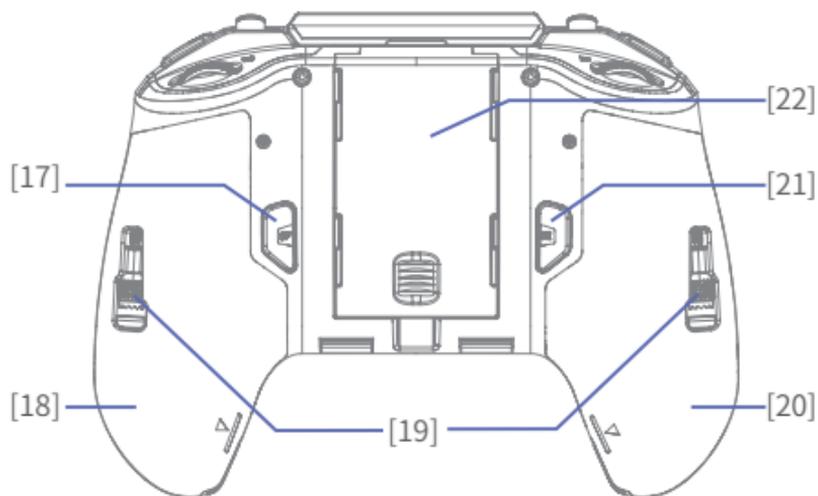
- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely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

## Front

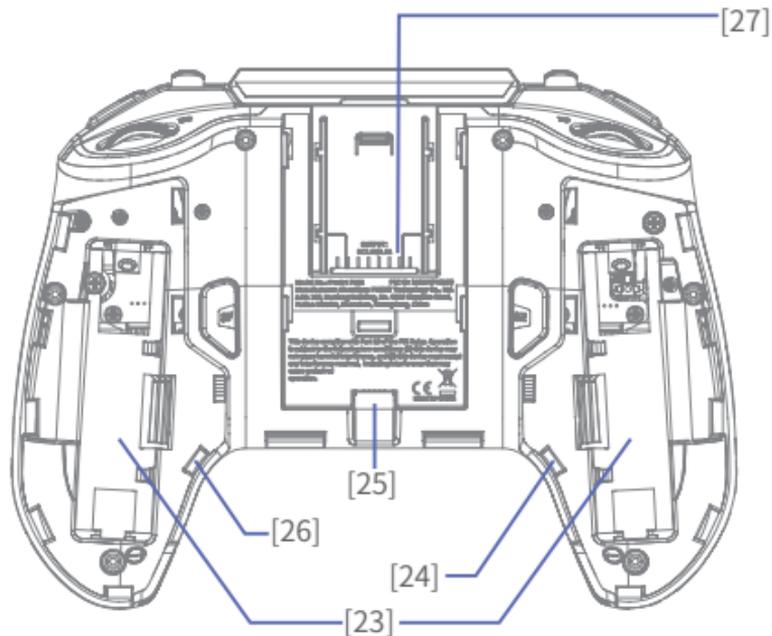


- |                          |                                       |
|--------------------------|---------------------------------------|
| [1] Left Stick           | [9] MEUN Button                       |
| [2] T3                   | [10] RTN Button                       |
| [3] T4                   | [11] T1                               |
| [4] P> (Right Page Turn) | [12] T2                               |
| [5] P< (Left Page Turn)  | [13] Right Stick                      |
| [6] Power Switch         | [14] Screen                           |
| [7] Speaker              | [15] Customizable Illuminated Buttons |
| [8] Scroll Wheel         | [16] Neck Strap Hook                  |

## Back



- |      |                     |      |                              |
|------|---------------------|------|------------------------------|
| [17] | SF                  | [20] | Left Grip                    |
| [18] | Right Grip          | [21] | SE                           |
| [19] | Gimbal Stick Holder | [22] | RF Module Installation Cover |



- [23] Battery Compartment
- [24] Reset Button
- [25] FRM303 Module Connector
- [26] Transmitter MCU-DFU Button
- [27] Nano Module Connector

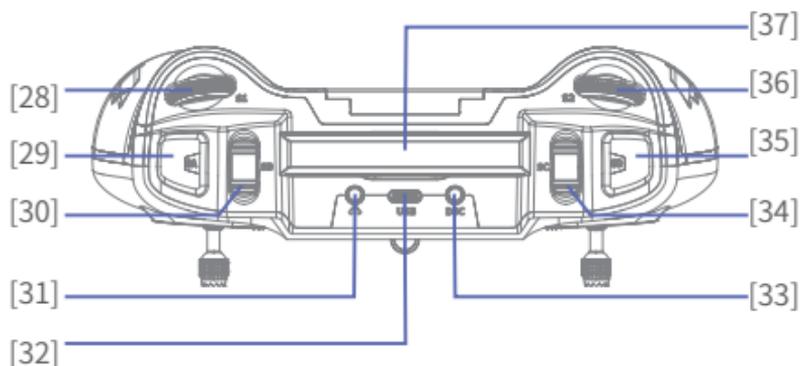
## Reset Button and Transmitter MCU-DFU Button Feature Introduction

Before using these two buttons, you need to first remove the left and right grips. You can use a slender tool to press these two buttons.

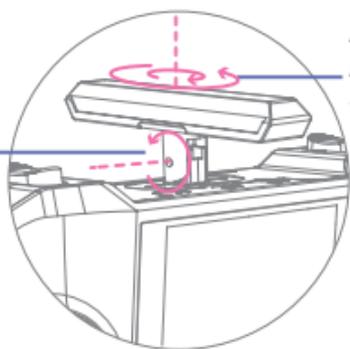
**Reset Button:** When the power button fails to turn off the transmitter, this button is needed to reset the transmitter.

**Transmitter MCU-DFU Button:** Used for updating the transmitter's firmware.

## Top



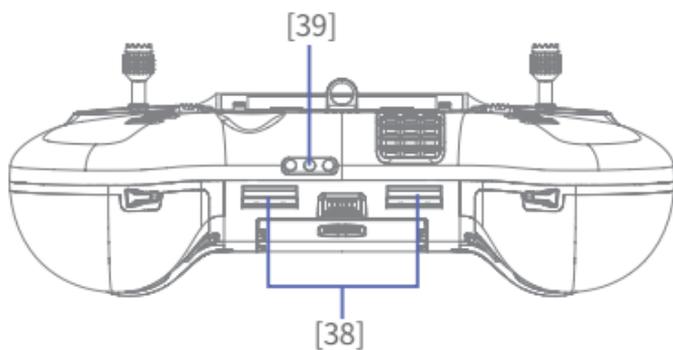
You can adjust the antenna vertically on one side.



Antenna Horizontal Adjustment Range:  $-90^{\circ} \sim 0^{\circ} \sim 90^{\circ}$

[28]	S1	[33]	DSC 3.5mm Trainer Connector
[29]	SA	[34]	SC
[30]	SB	[35]	SD
[31]	3.5mm Audio Jack	[36]	S2
[32]	USB Type-C Port	[37]	Antenna

## Bottom



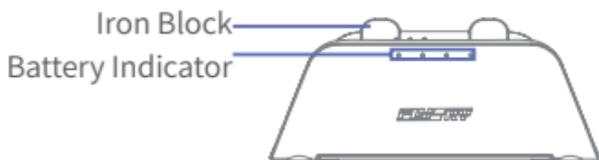
[38] Magnet

[39] Base Contact Points

## FS-DZ02 Base (Optional Accessory)

The FS-DZ02 base can not only charge the transmitter but also directly power it.

### Front

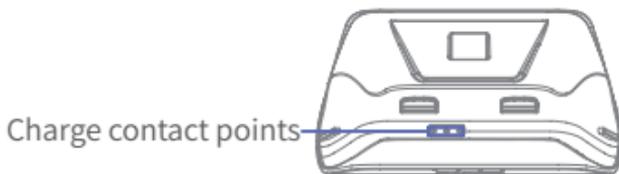


Battery Indicator: This base is equipped with 4 LED indicators to show the battery power status and charging status inside the base, from left to right they represent 25%, 50%, 75%, and 100% battery levels respectively.

### Back

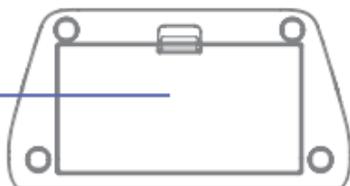


### Top

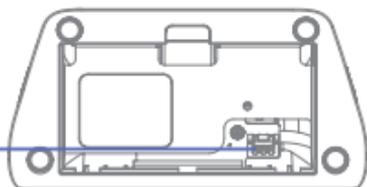


## Bottom

Battery Cover and  
Battery Compartment



Balanced Charging  
Port (2.54mm 3-Pin)



**⚠** Warning: Only recharge 7.4V 2S LiPo batteries.

Type-C Port Input Voltage and Current Support:

- When the input voltage is 5V, the maximum allowed current is 3A.
- When the input voltage is 9V, the maximum allowed current is 2A.
- When the input voltage is 12V, the maximum allowed current is 1.5A.

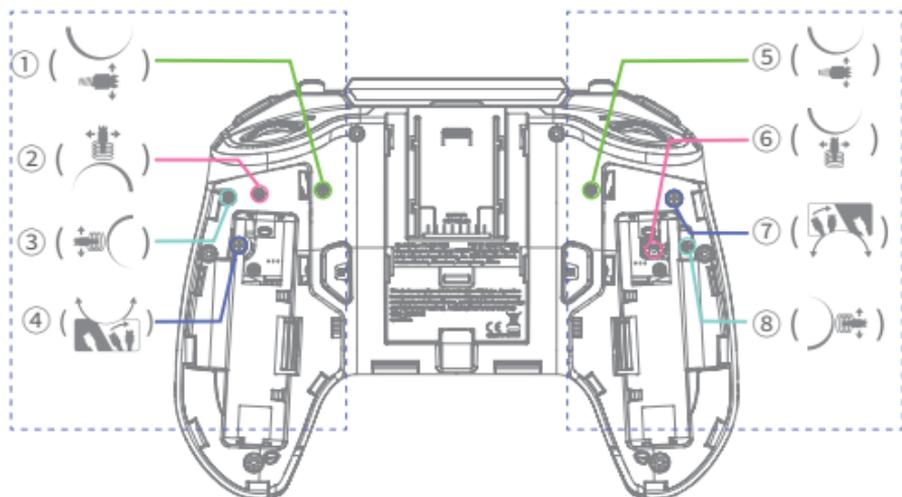
Type-C Port Output Voltage and Current Support:

- When the output voltage is 5V, the maximum allowed current is 3A.
- When the output voltage is 9V, the maximum allowed current is 2A.
- When the output voltage is 12V, the maximum allowed current is 1.5A.

# Gimbal Assembly Adjustment Instructions

For Right Gimbal Stick Adjustment:

For Left Gimbal Stick Adjustment:



As shown above, by adjusting the screws which are located in the screw holes in the back of the transmitter, the gimbal stick can be set to either self-centering or non-self-centering and the friction in case of non-self-centering, as well as changing stick tension in case of self-centering (Remove the grips to find the relevant screw holes and screws). Screw description is as following:

① . ⑤	Gimbal stick vertical friction adjustment	② . ⑥	Gimbal stick horizontal tension adjustment
③ . ⑧	Gimbal stick vertical tension adjustment	④ . ⑦	Gimbal stick self-centering/non-self-centering adjustment

## Notes:

1. During the adjustment process, please be careful of the amount of force you apply. If you loosen the screws too much, they may fall out. If you tighten them too much, you may damage the spring.
2. When performing the following steps, you can adjust the screws while simultaneously moving the stick to achieve the desired adjustment.

Take right gimbal stick as example.

### Non-Self-Centering to Self-Centering

1. Use the screwdriver to adjust the screw ④ (shown on previous diagram) counterclockwise until the gimbal stick changes to self-centering.
2. Adjust the screw ① counterclockwise to adjust the frictional force.
3. If you need to adjust the vertical centering force or horizontal centering force, adjust the corresponding screw ③ or ② accordingly. The force increases clockwise, and decreases counterclockwise.

### Self-Centering to Non-Self-Centering

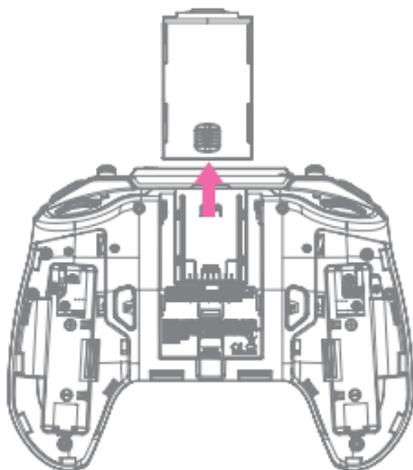
1. Use the screwdriver to adjust the screw ④ clockwise until it is tightened so that the gimbal stick changes to non-self-centering.
2. Adjust the screw ① clockwise to strengthen the frictional force.
3. If you need to adjust the horizontal centering force, adjust the screw ② accordingly. The force increases clockwise, and decreases counterclockwise.

## RF Module Installation

This transmitter comes with an FS-XC506 RF cable for use with the FRM303 RF module. Please select the appropriate RF connector for installation based on the actual RF module.

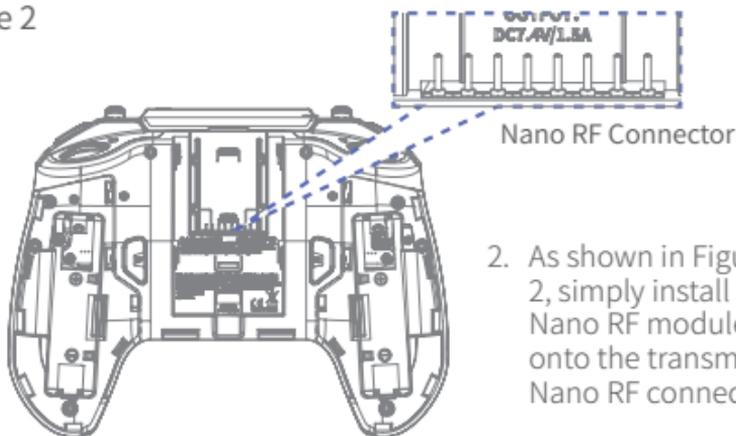
Here are the steps for installing the Nano RF module:

Figure 1



1. As shown in Figure 1, remove the RF module installation cover.

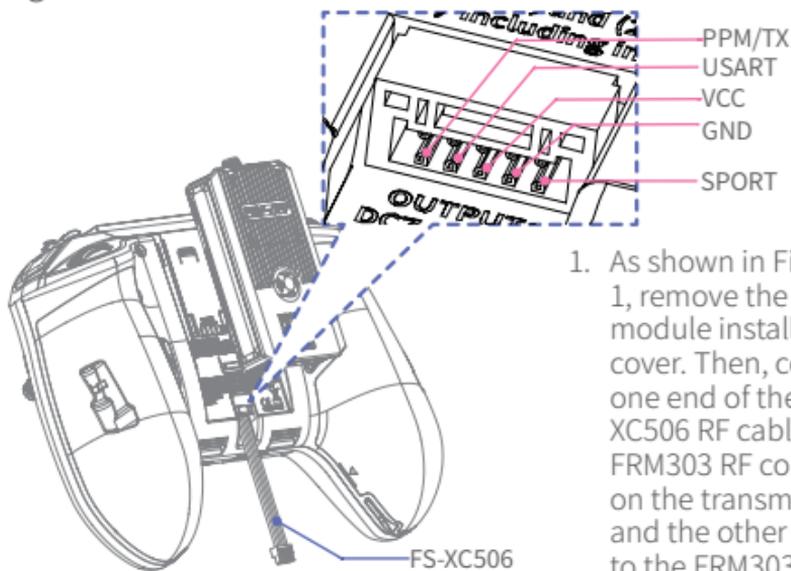
Figure 2



2. As shown in Figure 2, simply install the Nano RF module onto the transmitter's Nano RF connector.

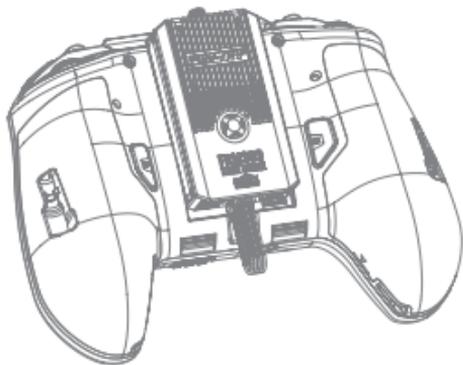
Here are the steps for installing the FRM303 RF module:

Figure 1



1. As shown in Figure 1, remove the RF module installation cover. Then, connect one end of the FS-XC506 RF cable to the FRM303 RF connector on the transmitter, and the other end to the FRM303 RF module itself.

Figure 2



2. As shown in Figure 2, mount the RF module securely onto the transmitter.

Note: For detailed information on the FRM303 RF module and the Nano RF module, please refer to the respective user manuals.

# Battery Installation

Figure 1

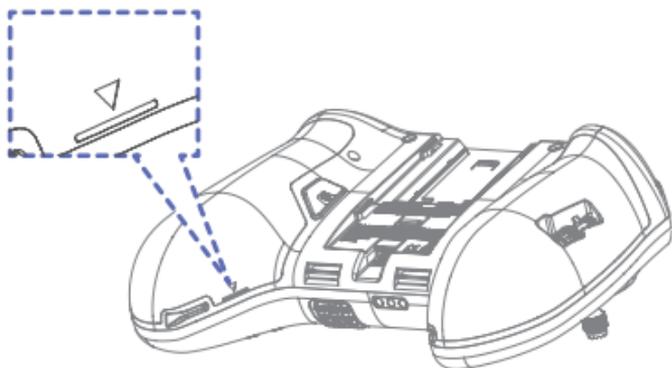
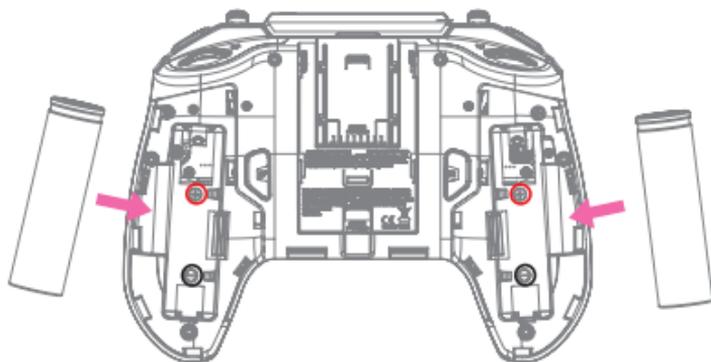


Figure 2

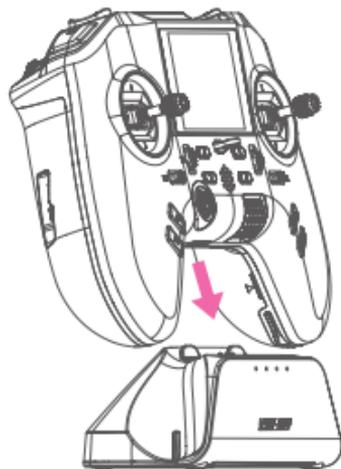


1. As shown in Figure 1, locate the icon  , and then carefully remove the left and right hand grips of the transmitter starting from that position.
2. As shown in Figure 2, install two 18650 batteries in the battery compartment according to the polarity indicated inside.
  - To ensure the normal use of the transmitter, please use dual-battery power supply.
3. Reinstall the left and right grips.

## Charging Method

The PAO1 can be charged in two ways:

1. By inserting a USB Type-C cable into the USB Type-C port for charging.
2. Using the FS-DZ02 base for charging. As shown in the diagram on the right, ensure that the transmitter's magnetic attraction aligns with the iron block on the base, and accurately connect the transmitter base contact points with the charge contact points on the base to proceed with charging.

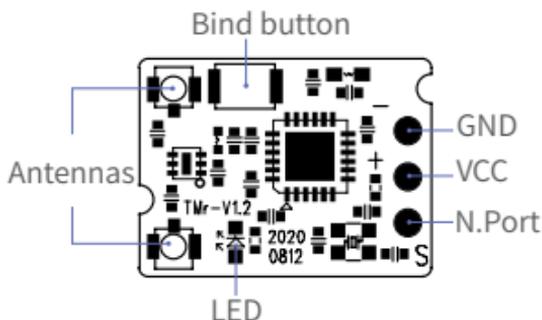


## Power On

Press and hold the power button until the screen lights up, indicating that the device has been successfully turned on.

## Binding

Here is an overview of the TMr receiver:



The TMr receiver supports binding in two-way or one-way mode, follow the steps below to finish the binding in two-way mode.

1. Enter the Model Settings menu, then select suitable RF to enter the submenu. After setting the corresponding mode, ie FLYSKY AFHDS 3, and suitable type(Routine 18ch, Fast 8ch or Lora 12ch), tap the Bind to put the transmitter into bind 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 TMr 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.

## Notes:

1. If the transmitter that has its RF standard set to ANT 1Way enters bind mode, put the transmitter to exit binding state when the status of the receiver LED changes to slow flash, and at the same time, the receiver LED is solid on, indicating that the binding is completed.
  2. The binding mode may vary according to the receiver model. Visit the Flysky official website to check the receiver manual or other relevant information.
- Regarding the binding method of the ELRS receiver, please refer to the ELRS receiver user manual.

## **Power Off**

1. Power off the receiver.
  - To ensure safety, be sure to turn off the receiver before turning off the transmitter.
2. Press the power button until the transmitter screen turns off.

- For more information, please refer to the PAO1 user manual.

## Specifications

- Product Model: PAO1
- Compatible Receiver: TMR and other AFHDS 3 protocol receivers or ELRS receivers
- Compatible RC Model: Racing drones and Airplanes
- Number of Channels: 18-channel is for Internal RF, and 32-channel is for External RF
- RF: 2.4GHz ISM
- Maximum Power: < 20dBm (e.i.r.p.) (EU)
- RF Protocol: AFHDS 3/ELRS
- Resolution: 4096
- Data Connector: USB Type-C, 3.5mm Audio Jack, 3.5mm Trainer Connector(DSC)
- Antenna: Single antenna (external folding antenna)
- Input Power: 7.4V 2\*18650 LiPo
- Distance: 3500m (Air distance without interference)
- Display: 2.4 inch 240\*320 full dot color non-touch IPS screen
- Online Update: Yes
- Temperature Range: -10°C ~ +60°C
- Humidity Range: 20% ~ 95%
- Color: Black Translucent
- Dimensions: 174.9\*131.4\*67.5mm
- Weight: Transmitter weight: 343g (without battery);  
Charging base weight: 67g (without battery)
- Charging Jack: Yes (Type-C Port)
- Certifications: CE, SRRC, FCC ID: 2A2UNPAO100

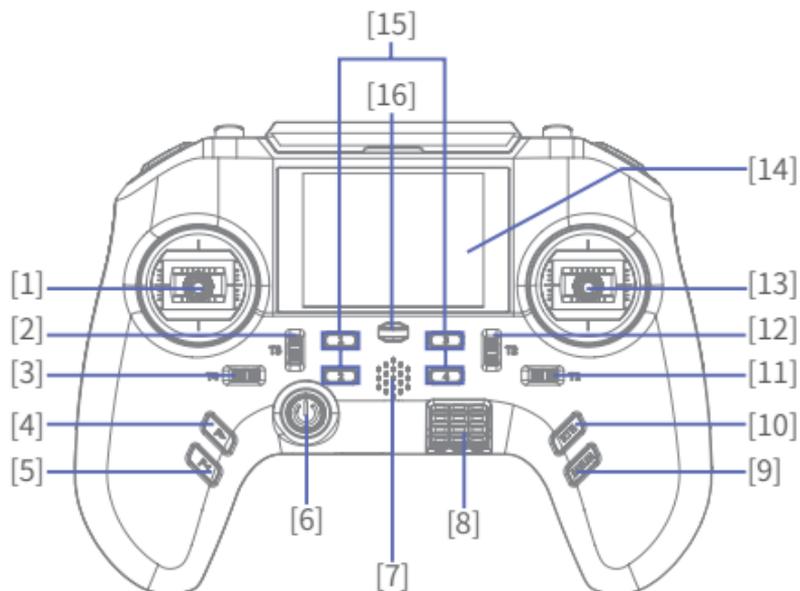
## 注意事项！

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](http://www.flyskytech.com)

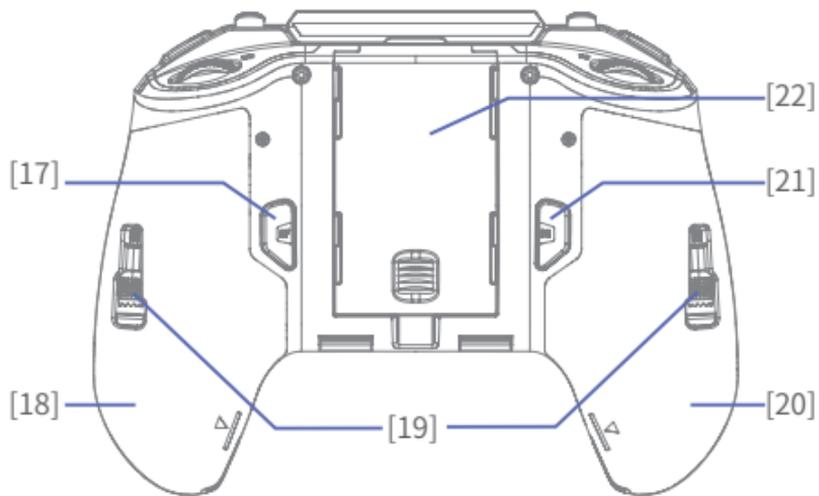
1. 此发射机所用天线的安装必须与所有人员保持距离，不得与任何其他发射机共用或一起使用。必须向最终用户和安装人员提供天线安装说明和发射机操作条件，以满足射频暴露合规要求。
2. 特此，【Flysky Technology Co., Ltd.】声明无线电设备【PA01】符合 RED2014/53/EU
3. 欧盟 DoC 声明全文可在以下互联网地址：[www.flyskytech.com/info\\_detail/10.html](http://www.flyskytech.com/info_detail/10.html) 获取。

## 前视图:



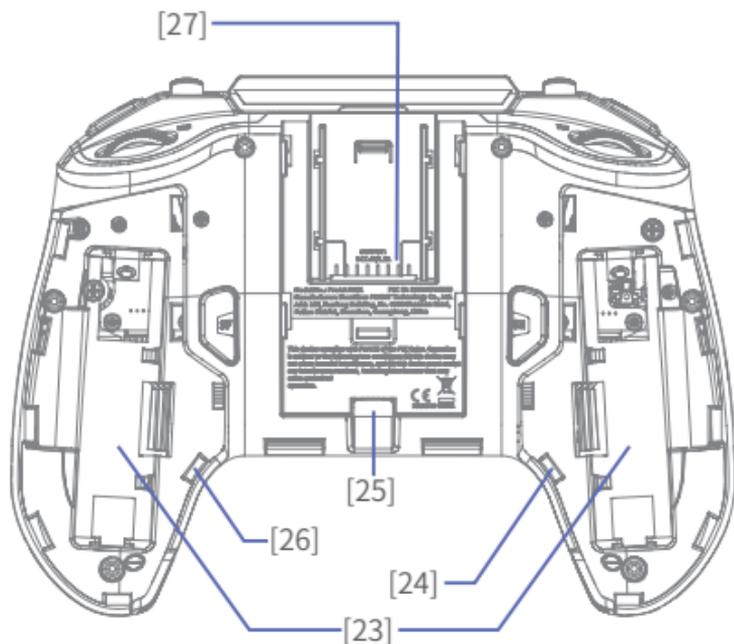
- |     |          |      |             |
|-----|----------|------|-------------|
| [1] | 左摇杆      | [9]  | MEUN (菜单按键) |
| [2] | T3       | [10] | RTN (返回按键)  |
| [3] | T4       | [11] | T1          |
| [4] | P> (右翻页) | [12] | T2          |
| [5] | P< (左翻页) | [13] | 右摇杆         |
| [6] | 电源键      | [14] | 屏幕          |
| [7] | 喇叭       | [15] | 自定义带灯按键     |
| [8] | 滚轮按键     | [16] | 挂绳扣         |

## 后视图:



- [17] SF
- [18] 右手胶
- [19] 摇杆柄放置位

- [20] 左手胶
- [21] SE
- [22] 高频头安装盖板



- [23] 电池仓
- [24] 复位按键
- [25] FRM303 高频头接口
- [26] 遥控 MCU-DFU 按键
- [27] Nano 高频头接口

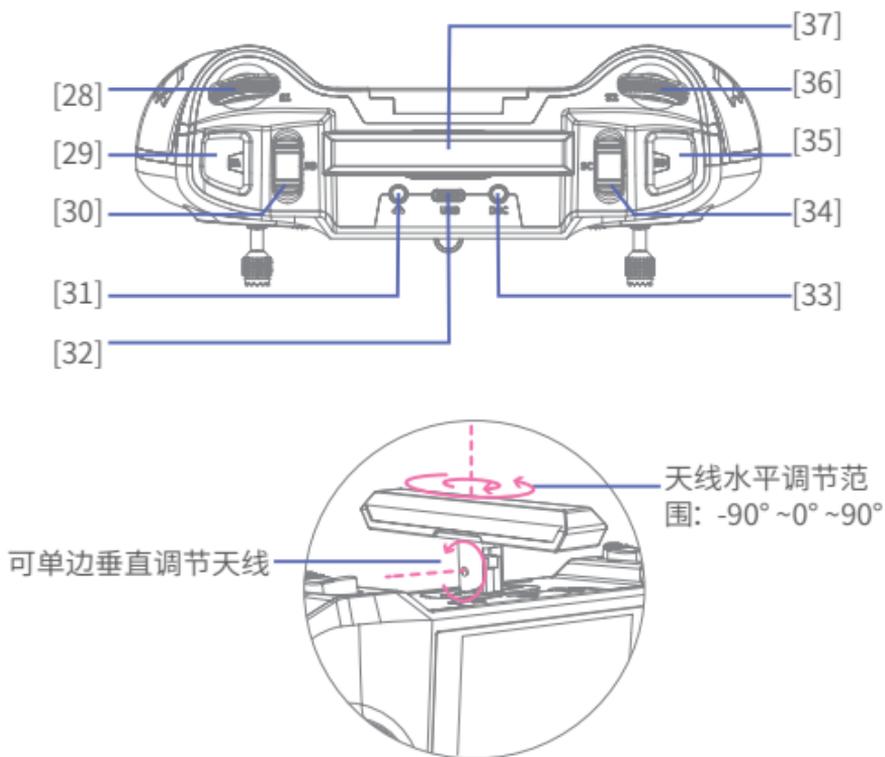
### 复位按键和遥控 MCU-DFU 按键功能介绍

在使用这两个按键之前，需要先拆下左右手胶。可以借助细长工具来按压这两个按键。

复位按键：当按电源键无法关闭发射机时，需要用此按键复位发射机。

遥控 MCU-DFU 按键：用于更新发射机固件。

## 顶视图：



- [28] S1
- [29] SA
- [30] SB
- [31] 3.5mm 音频口
- [32] USB Type-C 接口

- [33] DSC 3.5mm 教练口
- [34] SC
- [35] SD
- [36] S2
- [37] 天线