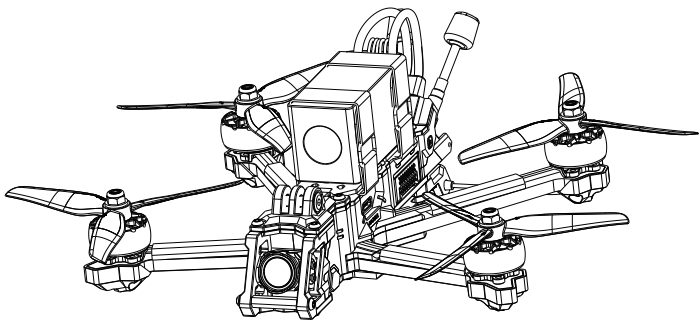


Nazgul Evoque F5

Quick Start Guide
快速入门指南



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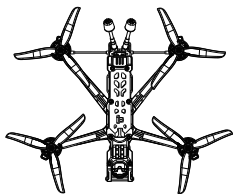
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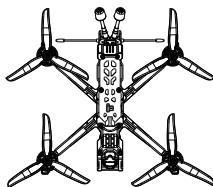
一、Nazgul Evoque F5 概述

Nazgul Evoque F5是一款适配5英寸桨叶的无人机，拥有紧凑的机身设计。采用防打火固定插头设计，提高飞行安全性，减少意外风险。配有可变多色LED灯条，以及LED侧板设计，不仅提升了外观的吸引力，同时在夜间飞行时提供更好的辨识度。以其卓越的性能和设计，将为您带来不同凡响的使用体验。无论是专业飞行爱好者还是初学者，都能轻松上手，享受飞行的乐趣。



DC型

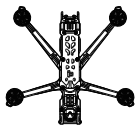
视角无遮挡，可4K"直出视频。



宽X型

适合更加灵活和动态的花式飞行动作。

产品清单



Nazgul Evoque F5 x1



正转螺旋桨 x4



反转螺旋桨 x4



天线 x2



防滑垫x2



电池扎带 x2



配件包 x1



贴纸 x1



安全提示卡 x1



免责声明 x1

二、天空端激活及对频

注意：在进行调试之前，请务必保持无桨 / 卸桨状态。在确保对频以及 BetaflightTM 调试无误之后再安装桨叶。如果操作不当导致人身伤害，责任自负。请务必谨慎操作，确保安全。

1. 天空端及眼镜激活：Nazgul Evoque 飞行器连接电池，通过 USB-C 接口 [图 1-1] 连接对应设备至电脑并运行 DJI Assistant 2³（消费机系列）调参软件进行激活与固件升级详情请参考 DJI-O3-Air-Unit-用户手册。

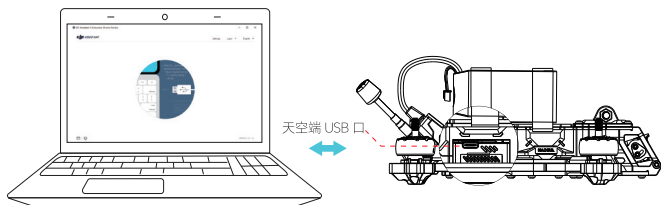


图 1-1

2. 飞行器和眼镜对频对频前，请确保天空端，飞行眼镜固件已激活更新至最新版本。）

- ①分别给飞行器与飞行眼镜通电。
- ②通电后，按下天空端的对频键 [图 1-2]，天空端对频状态指示灯红灯闪烁。
- ③按下飞行眼镜的对频按键，飞行眼镜响起嘀~ 嘀~ 的提示音。
- ④确保天空端与飞行眼镜距离在 0.5 M 以内。对频成功后，天空端对频状态指示灯绿灯常亮，飞行眼镜提示音停止并显示图传。完成天空端与眼镜的对频。

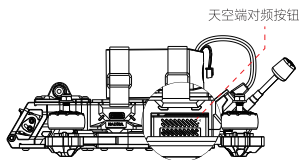


图 1-2

注：此为高清版本专用步骤，若飞行器为模拟版本，请移步第三部分对应接收机对频步骤

- ◆ 请避免在静置或无外部降温设备的环境下长时间使用天空端，否则产品温度过高，将导致图传中断。
- ◆ 为减少发热，天空端开机后默认处于低功耗状态，此时图传性能未达正常规格。飞行器起桨或开始录像后，天空端将自动退出低功耗状态，图传性能恢复正常。请尽快起飞，或确保天空端通风散热。
- ◆ 切勿短接电源及 GND 线，或在天空端模块上电后插拔线材，否则会导致设备损坏。
- ◆ 使用前需充分了解并遵守当地的法律法规，避免违规使用。
- ◆ 本产品不适合儿童使用。

三、遥控器对频指南

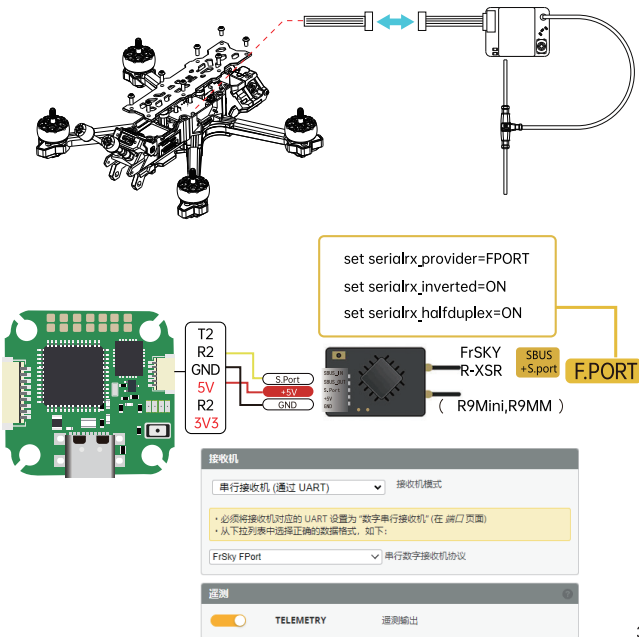
1. DJI遥控器对频步骤

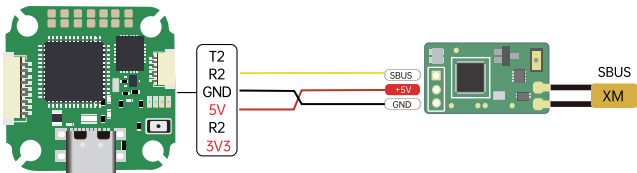
①开启遥控器电源后再次长按遥控器电源按键，遥控器发出滴滴声且状态指示灯快闪，说明遥控器已进入对频状态；

②按下天空端对频键[图1-2]进入对频状态，对频成功后遥控器状态指示灯停止闪烁并变为绿灯长亮。

2. PNP接线示意图

客户可自行接TBS, ELRS等（需拆卸顶板）。将接收机连接好天线&端子线，对插飞行器PNP预留的空机线，把接收机天线放至接收机天线孔位。





接收机

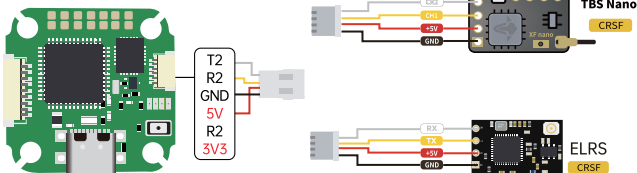
串行接收机 (通过 UART)

接收机模式

- 必须将接收机对应的 UART 设置为“数字串行接收机”(在 端口 页面)
- 从下拉列表中选择正确的数据格式, 如下:

SBUS

串行数字接收机协议



接收机

串行接收机 (通过 UART)

接收机模式

- 必须将接收机对应的 UART 设置为“数字串行接收机”(在 端口 页面)
- 从下拉列表中选择正确的数据格式, 如下:

CRSF

串行数字接收机协议

遥测

TELEMETRY

遥测输出

3. 接收机对频方式+步骤 (ELRS+TBS)

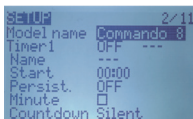
ELRS对频方式一：使用传统方式对频 (以iFLIGHT Commando8 连接 ELRS900为例，其他遥控器的具体操作请参考对应遥控器的说明书)



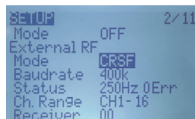
连续插拔USB口三次：连续开机关机三次或者在未开机的状态下，通过USB口给接收机通电，连续插拔USB口三次，接收机蓝灯呈持续双闪，此时接收机进入对频状态，下一步再到遥控器对频。



1. 上电后，通过长按Model setup 按键来到MODELSEL界面



2. 短按Next Page来到SETUP界面



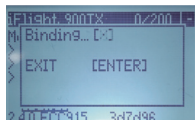
3. 选择并打开ExternalRF的CRSF协议



4. 长按 System Settings 来到 TOOLS 界面 移动光标至 ExpressLRS 选项长按 Enter 进入下一界面\选项



5. 把光标移动至【Bind】选项，按下Enter进入对频模式。



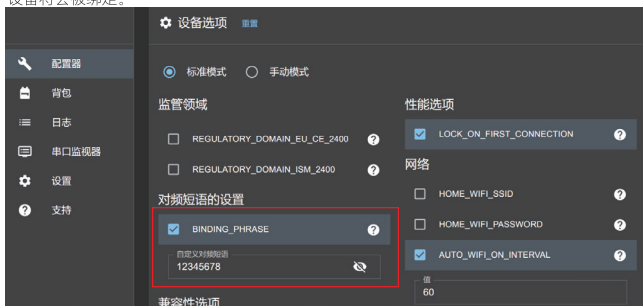
6. 对频完成后，接收机的蓝灯双闪会变成蓝灯常亮状态，此时已对频成功

[注意]

1. 由于ELRS对频速度较快，先使接收机进入对频模式，再让遥控器进入对频模式。
2. 对频完成后，建议给接收机重新上电。
3. 对频时，接收机与遥控器距离要在1m以上。
4. 接收机固件版本与高频头固件版本需保持一致，如遇到无法对频的情况可尝试把接收机和高频头固件升级到最新的固件，再尝试对频。
5. 如遇到无法对频情况，可尝试重启遥控器与接收机。

ELRS对频方式二：绑定短语对频与传统方式对频

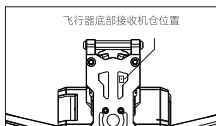
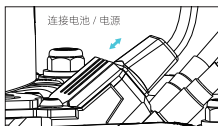
如果你正在刷写接收机与高频头固件，只需要设置好绑定短语即可直接将接收机与高频头绑定，无需使用传统方式对频。在Custom binding phrase中设置你的绑定短语。注意！绑定短语内容必须具有唯一性，不要设置简单的绑定短语，否则在ELRS信号范围内同样绑定短语的设备将会被绑定。



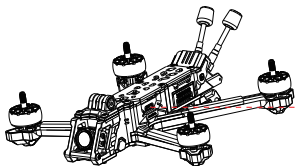
具体操作流程请参考EXPRESSLRS官网中的快速上手教程，或IFLIGHT官方哔哩哔哩账号视频教程。

TBS对频方式：按键对频

将飞行器连接电源 / 电池 飞行器正常自检后，用镊子短按一下 TBS 接收机 BOOT 按键，绿灯闪烁表示进入对频模式，黑羊遥控器或黑羊高频头设置页面进入高频头页面，找到【Bind】选项点击确认进入对频，对频成功后 TBS 接收机指示灯为绿灯常亮。



四、Betaflight设置



下载 Betaflight configuration^{*2} 后
连接飞控 USB

a. 接收机端口/协议

ELRS/TBS接收机: CRSF

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	
USB VCP	☒ 115200	☐	Disabled	AUTO
UART1	☒ 115200	☐	Disabled	AUTO
UART2	☐ 115200	☒	Disabled	AUTO
UART3	☒ 115200	☐	Disabled	AUTO
UART4	☐ 115200	☐	Disabled	AUTO
UART5	☐ 115200	☐	Disabled	AUTO
UART6	☐ 115200	☐	Disabled	AUTO

Receiver

Serial (via UART)

Receiver Mode

The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)

Select the correct data format from the drop-down, below:

CRSF

Serial Receiver Provider

Telemetry

☒ TELEMETRY

Telemetry output

b. 通道映射设置

接收机通道映射: “AETR1234” 美国手-左手油门 “TAER1234” 日本手-右手油门

设置

端口

配置

动力 & 电池

预设

PID 调校

接收机

模式

电机

OSD 屏幕叠加显示

固件(VTX)

黑盒子

CLI(命令行)

预览

横滚 [A] 12:00

俯仰 [E] 12:00

方向 [R] 12:00

油门 [T] 885

AUX 1 12:00

AUX 2 12:00

AUX 3 12:00

AUX 4 12:00

AUX 5 12:00

AUX 6 12:00

AUX 7 12:00

AUX 8 12:00

AUX 9 12:00

AUX 10 12:00

AUX 11 12:00

AUX 12 12:00

接收机

串行接收机 (通过 UART)

接收机模式

必须将接收机对应的 UART 设置为“数字串行接收机”(在 端口 页面)

从下拉列表中选择正确的数据格式, 如下:

CRSF

串行数字接收机协议

通道

TELEMETRY

通道输出

RSSI (接收机信号强度)

RSSI_ADC

模拟 RSSI 输入

通道映射

AETR1234

RSSI 通道

已禁用

摇杆低位 阈值

摇杆中点

摇杆高位 阈值

1050

1500

1900

RC 死区区间

Yaw 死区区间

3D 油门死区

0

0

50

RC 平滑

开启

平滑模式

刷新

保存

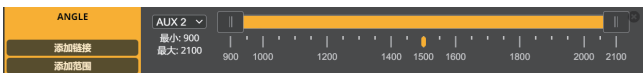
c. 接收机端口/协议

飞行器默认出货为自稳，客户也可自行设置其他模式。

ARM: 解锁/上锁通道开关，用于飞行器的解锁与上锁，默认出厂设置为AUX1,低位为上锁，高位为解锁。图标亮起表示解锁，图标呈现灰色表示上锁。

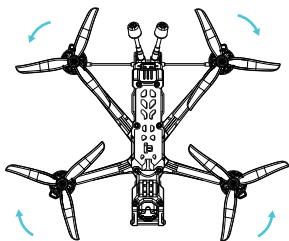


ANGLE: 自稳通道开关，用于飞行器开启自稳飞行模式，默认出厂设置为AUX2该模式全程保持开启状态。图标亮起表示开启自稳模式，图标呈现灰色表示非自稳模式。



五、桨叶安装-示意图

正转CW & 反转CCW，用户需根据桨叶迎风面识别桨叶方向，安装至飞行器。



注意 ⚠

- ◆ 拆装桨叶时，请确保飞行器处于断电状态。
- ◆ 由于桨叶较薄，请小心操作以防意外划伤。
- ◆ 螺旋桨为易损耗品，如有需要，请另行购买。
- ◆ 每次飞行前请检查螺旋桨是否安装正确和紧固。每次飞行前请务必检查各螺旋桨是否完好。如有老化、破损或变形，请更换后再飞行。
- ◆ 请勿贴近旋转的螺旋桨和电机，以免割伤。
- ◆ 本产品不适合儿童使用。

六、上电前检查及注意事项

1. 必须正确安装天线才能上电。
 2. 检查使用的电池电量是否充足且健康，确保电池无明显破损、变形或泄露现象。
 3. 确认电池型号与飞行器兼容，电压规格正确（比如对于6S电池，应为22.2V左右）。
 4. 检查电池插头与飞行器电池插座接触良好，无松动、污物或损坏情况。
 5. 遥控器开启并已与飞行器正确对频，确认接收机指示灯正常闪烁或显示已连接。
 6. 确保电机旋转方向正确，拆卸桨叶后，在地面站的电机页面推动油门确认
 7. 确认螺旋桨安装方向，确定螺丝螺母不会松动。
 8. 确保起飞地点空旷无障碍物，远离人群和贵重物品，以防止意外失控造成的损失。
 9. 如果是首次飞行或重大升级后，建议先进行地面测试，确认所有功能正常后再进行空中飞行。
- 通过以上这些预防性检查，可以有效降低因疏忽导致的飞行事故，保证FPV飞行器的安全运行。

七、起飞/降落步骤及注意事项

起飞步骤：

需要目视飞行器同时将油门(throttle)推至最低位置，然后慢慢提升油门，使飞行器离地约10-20厘米。观察飞行器的姿态稳定后，收油门遥控器上锁。确认飞行器工作正常后再带上FPV眼镜，或者使用专用监视设备进行飞行，解锁缓慢提高油门，使其平稳升空。

降落步骤：

1. 降低高度，在降落前，先将飞行器逐渐降低至合适高度，保持稳定的飞行速度和姿态。
2. 靠近降落点，控制飞行器慢慢接近预先选好的降落区域，尽量采用滑翔方式接近，才能更好地控制距离点位。
3. 减小油门，缓慢减少油门输出，让飞行器缓慢下降。
4. 接触地面或距离地面5-10cm即可上锁，小心周围环境避免硬着陆损坏。
5. 降落地面后请立即对无人飞行器进行断电操作。

注意事项：

- 电池电量过低，飞行中可通过查看FPV眼镜或监视器中的OSD信息判断电池剩余电量，飞行过程中需自行判断剩余飞行时间并留足冗余作为安全降落电量，当电池单片电芯电压接近3.7时需要注意返航降落，过度放电会对电池造成不可逆的损坏。
- 观察四周，在降落前再次确认周围环境安全，没有人员或动物进入降落区。
- 降落地面后优先将电池插头拔掉使设备断电，避免再次误触遥控器开关 再次解锁极其危险。降落地面后优先将无人飞行器设备断电，避免误触遥控器开关使其再次解锁从而避免发生事故和人身伤害。

八、对频成功无法解锁的可能原因

1. 检查实际接线的串口和接收机协议设置是否和接收机所连接的串口一致；
2. 模式设置有冲突导致解锁失败，检查地面站模式设置；
3. 检查地面站电机选项是否开了双向dshot，电调是否支持双向dshot；
4. 检查接收机通道预设是否和遥控器的通道预设一致；
5. 飞行器在倾斜角度下无法解锁，检查地面站配置页面的最大解锁角度；
6. 带GPS的飞行器无法解锁，检查失控保护设置是否开启了GPS救援，搜星不成功导致无法解锁；
7. 具体无法解锁的原因可在betaflight²的设置页面查看禁止解锁标识确认。

九、免责声明

本产品并非玩具，需要有一定的基础知识才能控制，所以要循序渐进。在开始使用飞行器之前，请熟读本入门指南及《免责声明和安全操作引导》中的注意与警告。

注：

*1：仅高清版本支持 4K 实时录制，模拟版本不支持 4K。4K/120fps 视频不支持 4:3 画幅，仅支持 16:9 画幅。

*2：Betaflight configuration 是 飞 行 器 飞 控 调 参 软 件，请 通 过 以 下 地 址 下 载。
<https://betaflight.com/download>

*3：DJI Assistant2（消费机系列）软件支持 DJI 消费无人机系列产品激活与调参，请通过以下地址下载：<https://www.dji.com/cn/downloads>。

惠州市翼飞智能科技有限公司

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邮箱：support@iflight.com

网址：www.iflight.com

地址：惠州仲恺高新区陈江街道仲恺六路333号

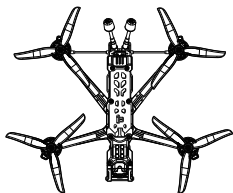
星河仲恺人工智能产业园B 2栋厂房第5-6层



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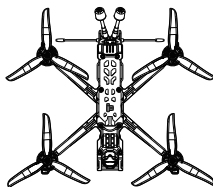
I. Overview

The Nazgul Evoque F5 is a 5-inch FPV drone with a compact design. It features a secured battery plug with anti-spark filter to enhance flight safety and reduce the risk of accidents. The lightweight side panels will not only protect from wetness but also protect the internals from any strikes hitting off little components from your flight controller. With its outstanding performance and design, it will bring you a remarkable flying experience. Whether you're a professional drone enthusiast or a beginner, you can easily get started and enjoy the fun of flying.



DC(DeadCat)

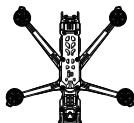
No prop in view, 4K⁺ Stabilized Video.



Squashed-X

Suitable for more agile and dynamic freestyle.

Packing List



Nazgul Evoque F5 x1



CW propeller x4



CCW propeller x4



Antenna x2



Battery pad x2



Battery strap x2



Accessory pack x1



Sticker x1



Safety warning card x1



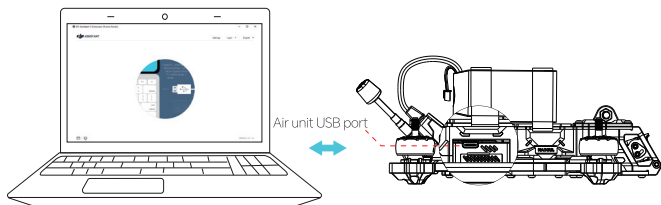
Disclaimer x1

II. Air Unit Activation and Binding

Note: Before activation, please make sure the propellers are removed. The propellers can only be installed after the aircraft binding and Betaflight[®] settings are completed.

If improper operation results in personal injury, you will be solely responsible for it. Please operate with caution to ensure safety.

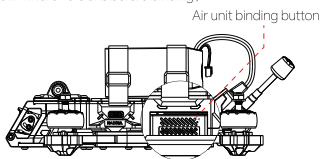
1. Air Unit Activation: Power on the Nazgul Evoque and DJI Goggles separately, connect the corresponding device to the computer using the USB-C port and then run DJI Assistant 2[®] (Consumer Drones Series) for activation and firmware upgrade. Please refer to the DJI-O3 Air Unit User Manual for details.



2. Aircraft and Goggles Binding

(Make sure that all devices have been updated to the latest firmware versions before binding.)

- ① Power on the aircraft and the goggles separately.
- ② Press the bind button of the air unit, the binding status indicator of the air unit blinks red.
- ③ Press the bind button of the goggles and the goggles start to beep continually.
- ④ Make sure the distance between the air unit and the goggles is within 0.5 m. Once linking is successful, the binding status indicator of the air unit turns solid green. The goggles stop beeping and the image transmission can be displayed normally.



Note: This is the procedure for HD version, if the aircraft is analog version, please refer to Part III for the corresponding receiver binding procedure.

- ◆ DO NOT use the air unit for an extended period in high-temperature environments with poor ventilation. This may lead to overheating and loss of image transmission.
- ◆ When the air unit is powered on, it automatically enters the low-power state to avoid overheating, which negatively affects image transmission performance. Once the aircraft takes off or the recording starts, the air unit automatically exits the low-power state and resumes normal image transmission performance. Make sure to take off as soon as possible or the air unit is well ventilated.
- ◆ DO NOT connect the power cable with the power GND cable directly or plug or unplug the cables after the air unit is powered on. Otherwise, the equipment may be damaged.
- ◆ Make sure you fully understand and abide by local laws and regulations before using this product.
- ◆ This product is not intended for children.

III. Remote Controller Binding Instruction

1. DJI Remote Controller Binding

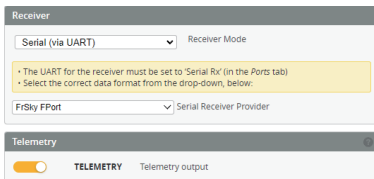
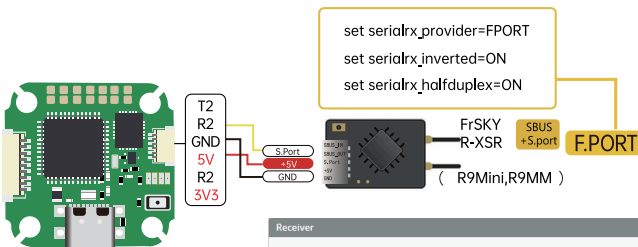
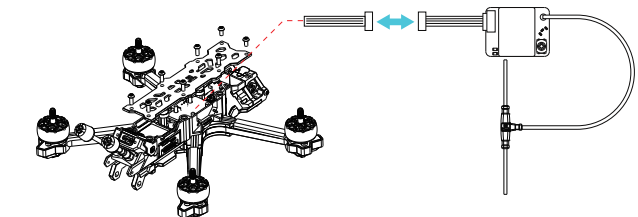
①Power on the remote controller and long-press the power button until the indicator flashes rapidly, indicating the binding mode is activated.

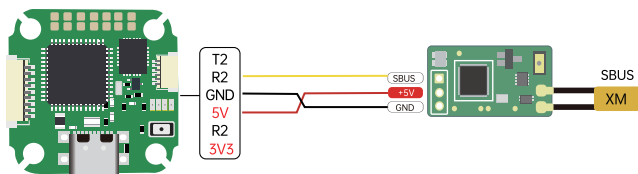
②Press the bind button on the air unit to enter the binding mode, the indicator light on the remote control stops flashing and turns solid green after the binding is successful.

2. PNP Wiring Diagram

Customers can connect TBS, ELRS, etc. by themselves (requires removing the top plate).

Connect the receiver to the antenna and wires, plug them into the PNP reserved wires. Place the receiver antenna into the receiver antenna mount.



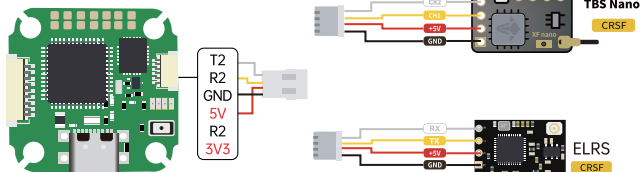


Receiver

Serial (via UART) Receiver Mode

- The UART for the receiver must be set to "Serial Rx" (in the Ports tab)
- Select the correct data format from the drop-down, below:

SBUS Serial Receiver Provider



Receiver

Serial (via UART) Receiver Mode

- The UART for the receiver must be set to "Serial Rx" (in the Ports tab)
- Select the correct data format from the drop-down, below:

CRSF Serial Receiver Provider

Telemetry

☒ **TELEMETRY** Telemetry output

3. Receiver Binding Methods + Steps (ELRS+TBS)

1. Traditional Binding Procedure (Example: iFlight ExpressLRS 900TX)

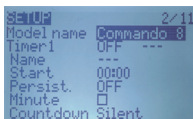


Plug and unplug the USB port for three times

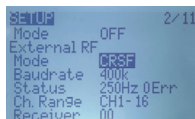
Power on and off the aircraft for three times, or plug and unplug the USB port for 3 times to supply power to the receiver when the aircraft is power off, the blue LED will start to double flash continuously. BIND mode active.



1. Once you power on the radio, press and hold the the Model setup to enter the MODELSEL page.



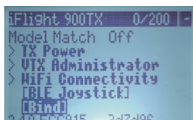
2. Press Next Page to enter the SETUP page.



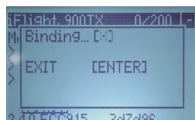
3. Scroll down to External RF and select CRSF.



4. Select the ExpressLRS LUA scrip (latest version installed). Press to enter.



5. Scroll down to Bind, press Enter to enter the binding mode. Bind mode active.



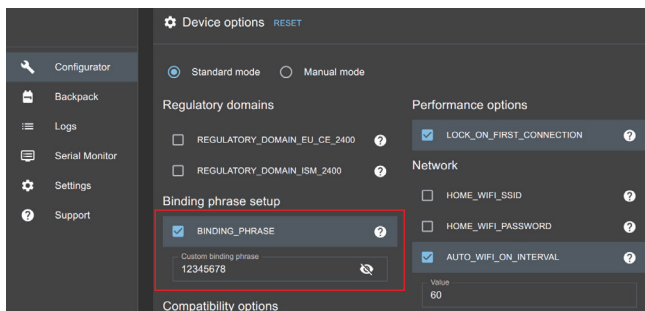
6. After binding, the blue LED on the receiver will turn to solid blue. Bind was successful.

[Caution]

1. Be quick with this process and set the receiver in binding mode first
2. After the binding process is completed, it's recommended to re-power receiver and transmitter.
3. The distance of receiver and transmitter should be more than 1m during the process.
4. The receiver firmware version should be consistent with the transmitter firmware version. If you can't bind your hardware, please try to update to the latest firmware.
5. If you can't bind your equipment, please try to reboot and several times if necessary.

2. Using Custom Binding Phrase

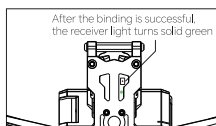
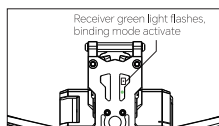
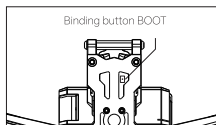
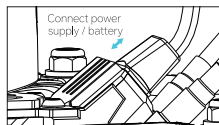
When flashing the latest ELRS firmware for Receiver and Transmitter, just set a unique custom binding phrase to automatically bind all your hardware. Do not set a too simple binding phrase, otherwise other pilot's devices with the same binding phrase might link up as well.



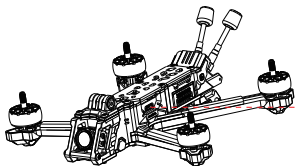
For more specific information please refer to the ELRS quick start tutorial on the official website.

TBS Crossfire Binding Method: Using Button Binding

Power on the aircraft and after the aircraft completes self-check, use tweezers to short press the TBS Crossfire receiver BOOT button. If the green light flashes, it means binding mode activate. Enter the TBS Crossfire transmitter or TX module settings page, scroll down to [BIND], press the button to enter. After successful binding, the TBS Crossfire receiver indicator light will turn to solid green.



IV. Betaflight Setup



Download Betaflight Configurator^{*2}
and connect to Flight Controller

a. Receiver Port/Protocol

ELRS/TBS Receiver: CRSF

Identifier	Configurator/MSP	Serial Rx	Telemetry Output	
USB VCP	☒ 115200	☐	Disabled	AUTO
UART1	☒ 115200	☐	Disabled	AUTO
UART2	☐ 115200	☒	Disabled	AUTO
UART3	☒ 115200	☐	Disabled	AUTO
UART4	☐ 115200	☐	Disabled	AUTO
UART5	☐ 115200	☐	Disabled	AUTO
UART6	☐ 115200	☐	Disabled	AUTO

Receiver

Serial (via UART) Receiver Mode

• The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
• Select the correct data format from the drop-down, below:

CRSF Serial Receiver Provider

Telemetry

☒ **TELEMETRY** Telemetry output

b. Channel Map Setting

Receiver Channel Map: "AETR1234" Mode 1 Throttle, "TAER1234" Mode 2 Throttle

Setup

Ports

Configuration

Power & Battery

Presets

PID Tuning

Receiver

Modes

Motors

OSD

Video Transmitter

Blackbox

CLI

Preview

Roll [A] 1100

Pitch [E] 1100

Yaw [R] 1100

Throttle [T] 885

AUX 1 1100

AUX 2 1100

AUX 3 1100

AUX 4 1100

AUX 5 1100

AUX 6 1100

AUX 7 1100

AUX 8 1100

AUX 9 1100

AUX 10 1100

AUX 11 1100

AUX 12 1100

Receiver

Serial (via UART) Receiver Mode

• The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
• Select the correct data format from the drop-down, below:

CRSF Serial Receiver Provider

Telemetry

☒ **TELEMETRY** Telemetry output

RSSI (Signal Strength)

☐ **RSSI_ADC** Analog RSSI input

Channel Map

RSSI Channel

AETR1234 Disabled

Stick Low Threshold

Stick Center

Stick High Threshold

1050 1500 1900

RC Deadband

Yaw Deadband

3D Throttle Deadband

0 0 50

RC Smoothing

On Smoothing Mode

Refresh Save

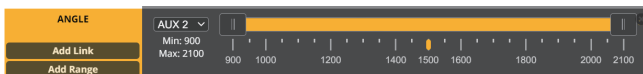
c. Mode Switch (Default Angle)

The default mode is Angle, and customers can also switch to other modes.

ARM: ARM/DISARM channel switch for arm and disarm the aircraft, default factory setting is AUX1, low range for disarm, high range for arm, The icon is lit to indicate arm, the icon is grey to indicate disarm.

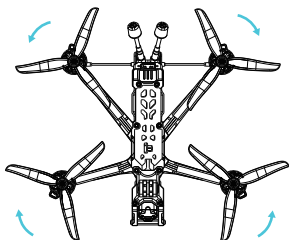


ANGLE: Angle channel switch, used to turn on the Angle flight mode, the default factory setting is AUX 2, this mode remains on throughout the flight. The icon is illuminated to indicate Angle mode is on, the icon is grey to indicate Angle mode.



V. Propellers Installation – Diagram

Identify CW & CCW propellers and install them correctly on the aircraft.



Caution

- ◆ Before removing or installing the propellers, please make sure the aircraft is powered off.
- ◆ Handle propellers carefully to avoid accidental cuts.
- ◆ Propellers are consumables; inspect and replace them if worn, damaged, or deformed.
- ◆ Ensure propellers are installed correctly and securely before each flight.
- ◆ Avoid close contact with rotating propellers and motors.
- ◆ This product is not intended for children.

VI. Pre-Flight Check

1. Make sure the antenna is installed correctly before powering on the aircraft.
2. Make sure the aircraft batteries are fully charged and there is no obvious damage, deformation or leakage in the battery.
3. Make sure the battery model is compatible with the aircraft and the voltage specification is correct (e.g. for 6S battery, it should be about 22.2V).
4. Make sure the aircraft battery is properly connected and secure, there is no looseness, dirt or damage.
5. Make sure the transmitter is powered on and linked to the aircraft, and make sure the receiver indicator light flashes normally or shows connected.
6. Make sure the motor rotates in the right direction, take off the propellers and connect the aircraft to Betaflight Configurator, then push the throttle to confirm the rotation on the motor page.
7. Make sure propellers are in good condition and mounted onto the motors correctly and securely
8. Only fly in open areas without tall buildings and large metal structures around. Buildings with a large number of concrete irons will affect the signal and interfere with the flight. It is recommended to fly at least 10m away from buildings, poles, obstacles, etc.
9. If it is the first flight or after a major upgrade, it is recommended to conduct a ground test first to make sure all functions are normal before flying in the air. These preventive inspections can effectively reduce flight accidents caused by negligence and ensure the safe operation of FPV drones.

VII. Takeoff/Landing

Takeoff Procedure:

Start by pushing the throttle to the lowest position, then gradually increase it to lift the aircraft approximately 10-20 centimeters off the ground. Once the aircraft's attitude is stable, throttle down and disarm the remote controller. Put on FPV goggles or face the monitor (such as a handheld monitor), arm the remote controller and slowly increase the throttle to smoothly ascend.

Landing Procedure:

1. Decrease altitude, before landing, gradually lower the aircraft to an appropriate altitude, maintaining a stable flight speed and attitude.
2. Approach landing spot, control the aircraft to slowly approach the pre-selected landing area, preferably using a gliding approach to better control the distance.
3. Reduce throttle, slowly decrease throttle output to allow the aircraft to land slowly.
4. Disarm the aircraft when it touches the ground or is 5-10cm away from the ground, be careful to avoid hard landings that could cause damage.
5. After landing, immediately unplug the battery to power off the device to avoid injury.

Precautions:

- Monitor battery level: You can check the remaining battery power by checking the OSD information in the FPV goggles or the monitor during flight. You need to judge the remaining flight time and leave enough redundancy for safe landing. When the voltage of a single battery cell approaches 3.7, you need to pay attention to return and land. Over-discharge will cause irreversible damage to the battery.
- Observe surroundings: Before landing, double-check the surrounding environment for safety, ensuring no people or animals are in the landing area.
- Disconnect battery: After landing, it is important to first power off the aircraft to avoid accidentally triggering the remote control switch to arm it again, thereby avoiding accidents and personal injury.

VIII. Possible Reasons for Successful Binding but Failure to Disarm

1. Check if the actual wiring of the serial port and receiver protocol settings match the serial port connected to the receiver.
2. Conflicting mode settings leading to arm failure, verify the mode settings on Betaflight Configurator.
3. Verify if the motor options are set to bidirectional DShot and if the ESC supports bidirectional DShot on Betaflight Configurator.
4. Make sure the receiver channel presets match those of the transmitter.
5. Aircraft may be unable to arm at tilted angles, check the maximum arm angle setting on the Betaflight configuration page.
6. Aircraft with GPS pre-installed may fail to arm due to unsuccessful satellite acquisition, check if GPS rescue in the fail-safe settings is enabled.
7. The specific reasons can be checked in the Arming Disable Flags on the setup page in betaflight²

IX. Disclaimer

This product is not a toy and requires basic knowledge for control. Progress gradually. Before using the aircraft, thoroughly read this manual and the Disclaimer and Safety Guidelines for important notes and warnings.

Caution:

*1: Only the HD version supports 4K video recording, the analog version does not support 4K. 4K/120fps video only supports in 16:9 aspect ratio, not in 4:3.

*2: Betaflight is the flight controller software (firmware) used to configure your aircraft. Please download at this link: <https://betaflight.com/download>

*3: DJI Assistant 2 (Consumer Drones Series) supports the consumer drones series products activation and firmware upgrade. Please download at this link: <https://www-dji.com/avata/downloads>

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