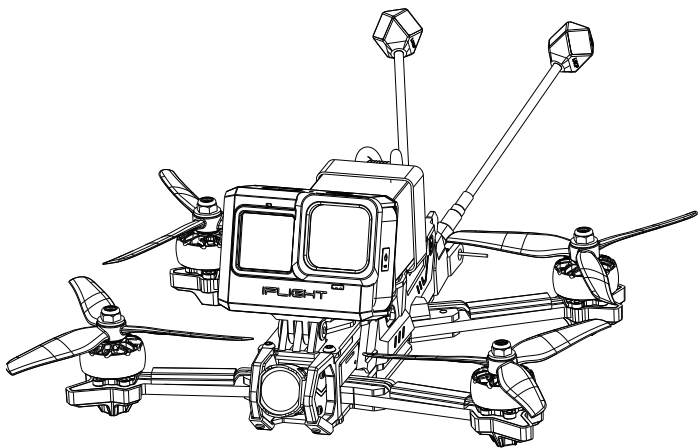


CineFlow 5

Quick Start Guide
快速入门指南



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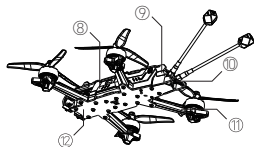
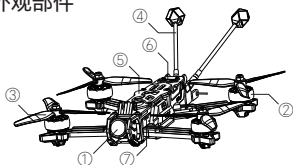
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一、CineFlow 5 概述

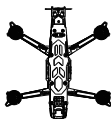
山海·朱雀 SH CineFlow 5 是一款适配 5 英寸桨叶的无人机，全新视野无桨机型设计为您带来沉浸式飞行体验。机身侧板可拆卸，维护更便捷；下沉式运动相机底座尾部固定式电源插孔使整机一体化构造简洁美观。机身配有多个可变多色 LED 灯条，外观更有辨识度；标配防火模块、GPS，以及散热通道设计，保障您的飞行安全；配有高清图传模块，带来更出色的 4K*1 影像能力；竞速级核心电设及动力，满足玩家更高阶的性能要求，尽情发挥更极致的飞行表现。

外观部件



- | | | | | | |
|-------|----------|-------|--------|-------|--------|
| ① 摄像头 | ② 电机 | ③ 螺旋桨 | ④ 天线 | ⑤ 防滑垫 | ⑥ XT60 |
| ⑦ 图传 | ⑧ 侧板+导光件 | ⑨ 尾座 | ⑩ T形天线 | ⑪ 机臂 | ⑫ 底板 |

产品清单



CineFlow 5 HD x1



CW顺时针桨 x2



CCW逆时针桨 x2



图传天线 x2



防滑垫 x1



电池扎带 x2



配件包 x1



贴纸 x1



安全提示卡 x1



免责声明 x1



售后返修卡 x1

二、飞行眼镜对频指南

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. 天空端及飞行眼镜激活：CineFlow 5 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 2*³ 消费机系列) 调参软件进行激活与固件升级详情请参考 DJI-O4- 用户手册。

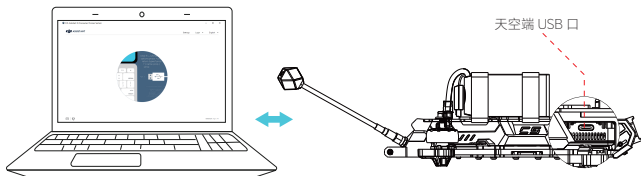


图 1-1

2. 飞行器和飞行眼镜对频 (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, 按下天空端对频按键 [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 [图 1-3], 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 [图 1-4] 绿灯常亮, 飞行眼镜提示音停止并显示图传画面。完成天空端与飞行眼镜的对频。

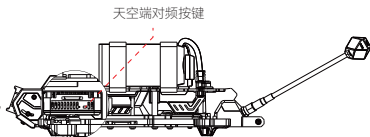


图 1-2



图 1-3

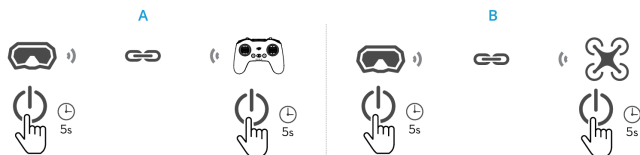


图 1-4

- ◆ 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

对频前,确保所有设备均已通过 DJI Assistant2(消费机系列) 调参软件升级至最新固件。



1.飞行眼镜和遥控器对频 (图A)

- ①分别开启飞行器、飞行眼镜以及遥控器。长按遥控器电源按键直至响起持续的提示音，且电量指示灯循环闪烁。
- ②长按飞行眼镜电源按键直至响起持续的提示音，且电量指示灯循环闪烁。
- ③对频成功后，飞行眼镜和遥控器提示音停止，且电量指示灯均显示电量。

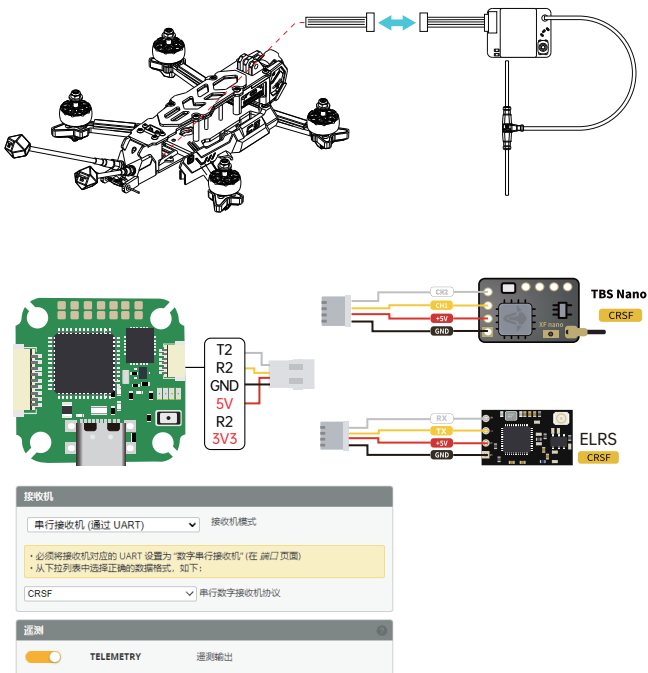
2.飞行眼镜和飞行器对频 (图B)

- ①长按飞行眼镜电源按键直至响起持续的提示音，且电量指示灯循环闪烁。
- ②长按飞行器电源按键直至发出提示音，同时电量指示灯循环闪烁。
- ③对频成功后，飞行器的电量指示灯显示电量，飞行眼镜提示音停止并显示图传画面。

-
- 飞行器飞行时只能用一个遥控设备控制，请将已对频但不使用的遥控设备关闭。
 - 对频时，确保所有设备的距离在0.5米以内。
-

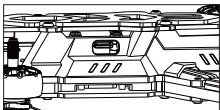
2. PNP 接线示意图

客户可自行接TBS, ELRS等（需拆卸侧板）。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。



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。



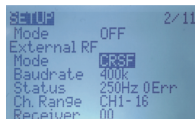
连续插拔USB口三次：连续开机关机三次或者在未开机的状态下，通过USB口给接收机通电，连续插拔USB口三次，接收机蓝灯呈持续双闪，此时接收机进入对频状态，下一步再到遥控器对频。



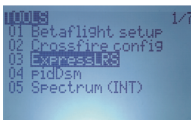
1.上电后，通过长按Model setup 按键来到MODELSEL界面



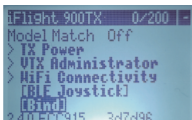
2.短按Next Page来到SETUP界面



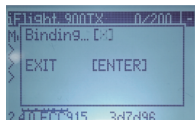
3.选择并打开ExternalRF的CRSF协议



4.长 按 SystemSettings 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。



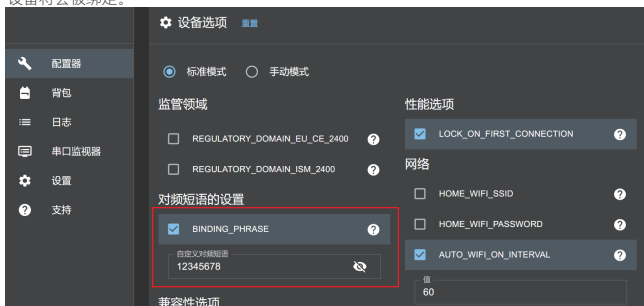
6.对频完成后，接收机的蓝灯双闪会变成蓝灯常亮状态，此时已对频成功

[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

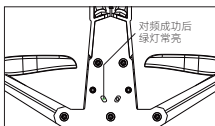
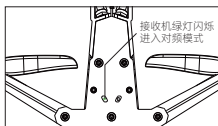
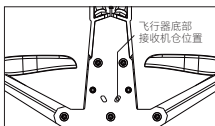
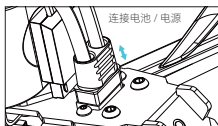
如果你正在刷写接收机与高频头固件，只需要设置好绑定短语即可直接将接收机与高频头绑定，无需使用传统方式对频。在Custom binding phrase中设置你的绑定短语。注意！绑定短语内容必须具有唯一性，不要设置简单的绑定短语，否则在ELRS信号范围内同样绑定短语的设备将会被绑定。



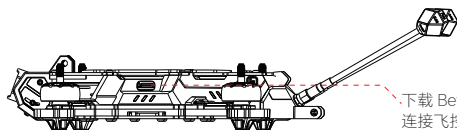
具体操作流程请参考EXPRESSLRS官网中的快速上手教程，或IFLIGHT官方哔哩哔哩账号视频教程。

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	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. 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

TELEMETRY
遥测输出

RSSI (接收机信号强度)

RSSI_ADC
模拟 RSSI 输入

通道映射
RSSI 通道

AETR1234
已禁用

舵机低位 阈值 舵机中点 舵机高位 阈值

1050 1500 1900

RC 列区间 Yaw 列区间 3D 油门列区

0 0 50

RC 平滑

开启 平滑模式

刷新 保存

7

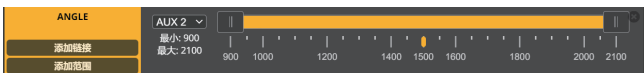
c. 接收机端口/协议

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。

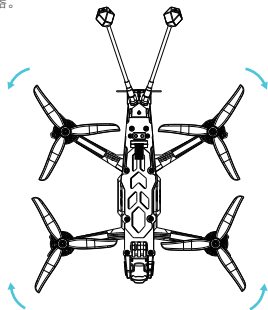


ANGLE:自稳通道开关，用于飞行器开启自稳飞行模式，默认出厂设置为AUX2该模式全程保持开启状态。图标亮起表示开启自稳模式，图标呈现灰色表示非自稳模式。



五、桨叶安装-示意图

CW 顺时针桨&CCW 逆时针桨，用户需根据桨叶表面的方向标识，区分桨叶方向，安装至飞行器。



注意 ⚠

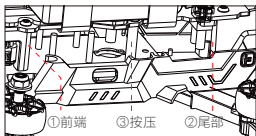
- ◆ 拆装桨叶时，请确保飞行器处于断电状态。
- ◆ 由于桨叶较薄，请小心操作以防意外划伤。
- ◆ 螺旋桨为易损耗品，如有需要，请另行购买。
- ◆ 每次飞行前请检查螺旋桨是否安装正确和紧固。每次飞行前请务必检查各螺旋桨是否完好。如有老化、破损或变形，请更换后再飞行。
- ◆ 请勿贴近旋转的螺旋桨和电机，以免划伤。
- ◆ 本产品不适合儿童使用。

六、快拆侧板+调灯带颜色-示意图

快拆式侧板



①拆侧板，找到尾部扎带位置利用镊子尾部进去轻轻往外翘即可拉出整块侧板完成拆卸，左右操作一致。

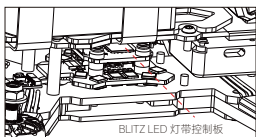


②装侧板，找到侧板区分前后，将侧板前端卡入飞塔前方的支架，再将侧板尾部卡入飞机尾部铝柱，最后按压对于扎带位置的卡扣，听到“咔”的一声即可完成安装，左右操作一致。

LED调节灯带颜色



①参考快拆式侧板，需要将飞机右侧侧板拆卸。



②利用镊子或其他坚硬细长工具 按压飞塔上方的“BLITZ LED 灯带控制板”开关，开关在上方。根据需求调节完重新安装上侧板即可

LED 功能按键

1. 短按切换颜色（红、紫、黄、橙、青、蓝、绿、白）
2. 长按关闭 LED 或开启 LED，重新上电保持上次状态。

注意：调节的时候需要先拆掉螺旋桨，再连接电池调节LED颜色。

七、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，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。

八、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飞行眼镜, 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, 才能更好控制距离点位。
- 3.减小油门, 缓慢减少油门输出, 让飞行器缓缓下降。
- 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飞行眼镜或监视器中的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。

九、故障排查指南

问题	可能原因	解决方案
遥控器打杆, 飞行器无反应	接收机协议设置与实际不符	检查接收机协议设置是否和接收机所连接的串口一致
	模式设置有冲突导致解锁失败	检查地面站模式设置是否有重复

遥控器打杆，飞行器无反应	接收机通道预设与遥控器的通道预设不一致	检查并设置使接收机通道映射和遥控器的通道映射一致
	飞行器在倾斜角度下	检查地面站配置页面的最大解锁角度
	油门通道过高	将油门杆拉到最低，或者检查通道序号是否正确
	已配置GPS救援模式但搜星不成功或所需的卫星数量不足	等待GPS定位成功或禁用GPS救援模式
GPS救援模式不触发	飞行距离未超过100m	飞行器飞到100米外后才能达到触发条件
飞行器起飞即翻滚或无法起飞	螺旋桨安装错误	检查螺旋桨的安装是否正确
飞行器起飞后电机存在异响	螺旋桨松动	拧紧螺旋桨的螺母
	螺旋桨轴心损坏	更换螺旋桨

十、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：www.dji.com。

惠州市翼飞智能科技有限公司

电话：+86752-3866-695

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



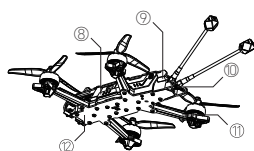
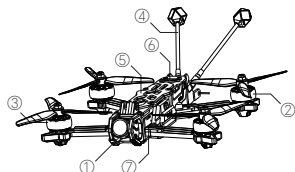
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I. Overview

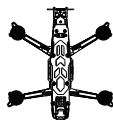
The SH CineFlow 5 is a 5-inch cinematic FPV drone features an innovative frame design with no props in view while maintaining agility for freestyle tricks. Quick-release side panels simplify maintenance, and an integrated action camera mount and forward-mounted power connector ensure a sleek look. Customizable illuminated LED enhance its style. Key features include a standard anti-spark filter, built-in GPS module, and a heat dissipation channel design for flight safety. Equipped with DJI O4 Pro air unit, supports 4K*1 stabilized video. Racing-grade electronics and power modules meet enthusiasts' performance demands, delivering a superior flight experience.

Appearance Components



- ①Camera ②Motor ③Propeller ④Antenna ⑤Anti-slip pad ⑥XT60
⑦Air unit ⑧Side Panel + LED strip ⑨TPU Antenna Mount ⑩T-shaped antenna
⑪Arm ⑫Bottom plate

Packing List



CineFlow 5 HD x1



CW propellers x2



CCW propellers x2



Albatross V2 LHCP
RP-SMA antennas x2



Battery pad x1



Battery straps x2



Accessory pack x1



Sticker x1



Safety warning
card x1



Disclaimer x1



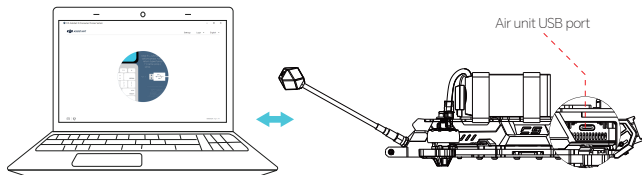
After sales
service card x1

II. FPV Goggles Binding Instruction

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 CineFlow 5 and DJI Goggles separately, connect the corresponding aircraft to the computer using the USB-C port and then run DJI Assistant 2^{*3} (Consumer Drones Series) for activation and firmware upgrade. Please refer to the DJI-O4 Air Unit User Manual for details.



2. Aircraft and Goggles Binding

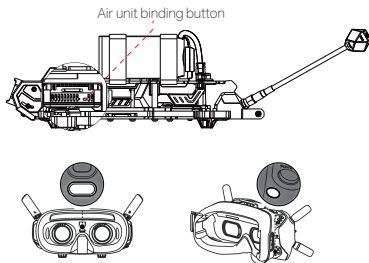
(Make sure that all devices have been updated to the latest firmware versions before binding.)

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 0.5m. Once binding is successful, the binding status indicator of the air unit turns solid green. The goggles stop beeping and display the video feed normally.



◆ DO NOT use the air unit for extended periods in environments without external cooling. Overheating may occur, causing video transmission to be interrupted.

◆ To reduce heat generation, the air unit defaults to low-power mode after powering on, during which video transmission performance is below normal specifications. When the aircraft arms or recording starts, the air unit will automatically exit low-power mode, and video transmission performance will return to normal. Please take off as soon as possible or ensure the air unit is well-ventilated and cooled.

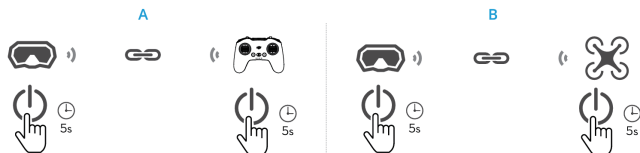
◆ DO NOT short-circuit the power and GND wires, or plug/unplug cables after the air unit is powered on, as this may damage the aircraft.

◆ 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

Make sure that all the DJI devices are updated to the latest firmware using DJI Assistant 2 (Consumer Drones Series) before linking.



1. Linking Goggles and Remote Controller (Figure A)

- ① Power on the aircraft, goggles, and remote controller. Press and hold the power button on the remote controller until it starts to beep continually and the battery level LEDs blink in sequence.
- ② Press and hold the power button on the goggles until it starts to beep continually and the battery level LEDs blink in sequence.
- ③ Once linking is successful, the goggles and the remote controller stop beeping and both the battery level LEDs turn solid and display the battery level.

2. Linking Goggles and Aircraft (Figure B)

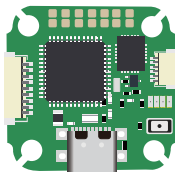
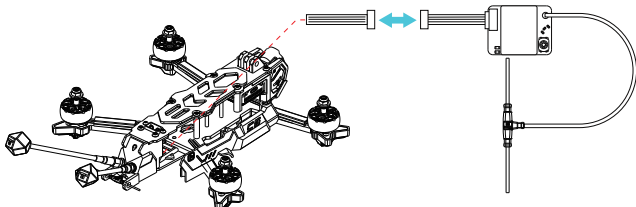
- ① Press and hold the power button on the goggles until it starts to beep continually and the battery level LEDs blink in sequence.
- ② Press and hold the power button on the aircraft until it beeps once and the battery level LEDs blink in sequence.
- ③ Once linking is completed, the battery level LEDs of the aircraft turn solid and display the battery level, the goggles stop beeping, and the image transmission can be displayed normally.

• The aircraft can be controlled with only one remote control device during flight. If the aircraft has been linked with multiple remote control devices, turn off the other remote control devices before linking.

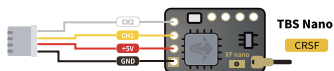
• Make sure the devices are within 0.5 m of each other during linking.

2. PNP Wiring Diagram

Customers can connect TBS, ELRS, etc. by themselves (requires removing the side panels). Connect the receiver to the antenna and wires, plug them into the PNP reserved wires. Place the receiver antenna into the receiver antenna mount.



T2
R2
GND
5V
R2
3V3



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:

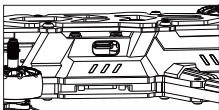
CRSF Serial Receiver Provider

Telemetry

☒ **TELEMETRY** Telemetry output

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

ELRS Binding Method 1: Traditional Binding Procedure (Example: iFlight ExpressLRS 900TX. For specific operations of other remote controllers, please refer to the corresponding remote controller's manual.)

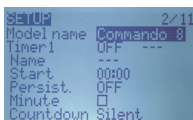


Plug and unplug the USB port for three times:

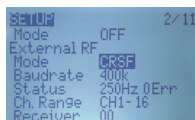
Power on and off the aircraft for three times, or plug and unplug the USB port for 3 times to supply power to the receiver when the aircraft is power off, the blue LED will start to double flash continuously. BIND mode active.



1. Once you power on, long press the the Model setup to enter the MODELSEL page.



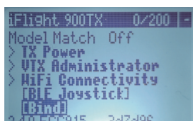
2. Press Next Page to enter the SETUP page



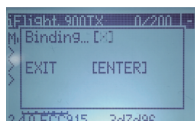
3. Scroll down to ExternalRF and select CRSF.



4. Long press System Settings to enter the TOOLS interface, move the cursor to ExpressLRS, and long press Enter to enter the next interface/option.



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



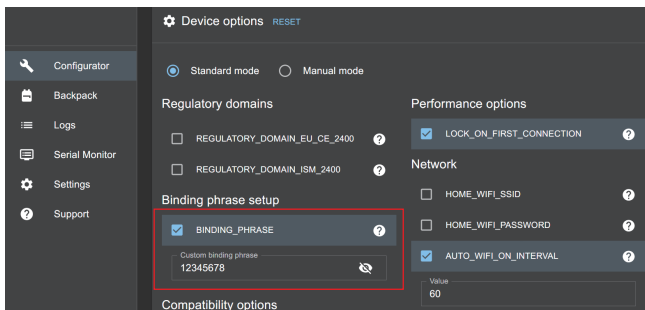
6. After binding, the blue LED on the receiver will turn to solid blue. Bind was successful.

[Note]

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.
3. The distance of receiver and remote controller should be more than 1m during the process.
4. The receiver firmware version should be consistent with the RF module firmware version. If you can't bind your hardware, please try to update to the latest firmware.
5. If you can't bind your aircraft, please try to reboot and several times if necessary.

ELRS Binding Method 2: Using Custom Binding Phrase

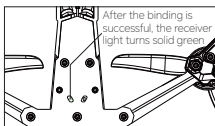
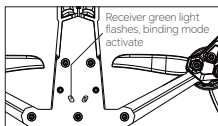
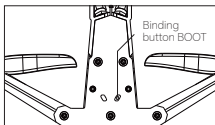
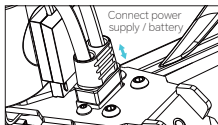
When flashing the latest ELRS firmware for Receiver and RF module, just set a unique custom binding phrase to automatically bind all your hardware. Do not set a too simple binding phrase, otherwise other pilot's aircrafts with the same binding phrase might be bound as well.



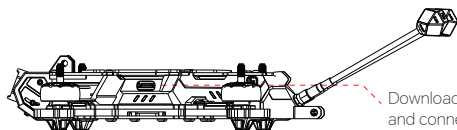
For more specific information please refer to the ELRS quick start tutorial on the official website.

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 radio controller 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 Configurator²
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] 1500
Pitch [E] 1500
Yaw [R] 1500
Throttle [T] 885
AUX 1 1500
AUX 2 1500
AUX 3 1500
AUX 4 1500
AUX 5 1500
AUX 6 1500
AUX 7 1500
AUX 8 1500
AUX 9 1500
AUX 10 1500
AUX 11 1500
AUX 12 1500

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

Sick Low Threshold **Sick Center** **Sick High Threshold**

1050 1500 1900

RC Deadband **Yaw Deadband** **3D Throttle Deadband**

0 0 50

RC Smoothing

☒ Smoothing Mode

Refresh **Save**

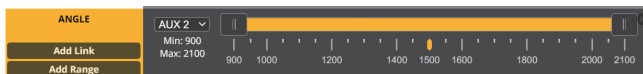
c. Mode Switch (Default Angle)

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.

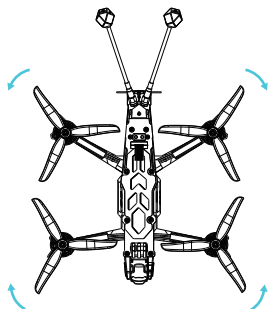


ANGLE: Angle channel switch, used to turn on the Angle flight mode, the default factory setting is AUX 2, this mode remains on throughout the flight. The icon is illuminated to indicate Angle mode is on, the icon is grey to indicate Angle mode.



V. Propellers Installation Diagram

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

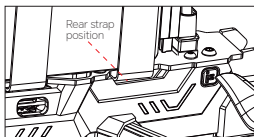


Note ⚠

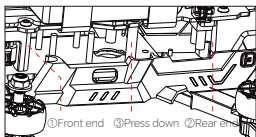
- ◆ Before removing or installing the propellers, please make sure the aircraft is powered off.
- ◆ Handle propellers carefully to avoid accidental cuts.
- ◆ Propellers are consumables; inspect and replace them if worn, damaged, or deformed.
- ◆ Ensure propellers are installed correctly and securely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

VI. Quick-release Side Panel LED Adjustment - Diagram

Quick-release Side Panel

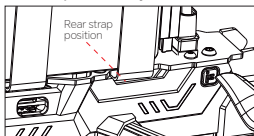


① Removing the side panel. Locate the strap at the tail. Use the back of tweezers to gently pry outward to remove the entire side panel. This process is the same for both sides.

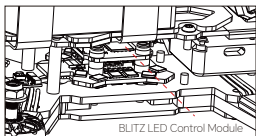


② Installing the side panel. Identify the front and back of the side panel. Clip the front end of the side panel into the front bracket of the stack, then push the rear end of the panel forward to snap it onto the aluminum column at the aircraft's rear. Press the area in front of the strap at the rear until you hear a "click," indicating the installation is complete. This process is the same for both sides.

LED Strip Color Adjustment



① Refer to the instructions for removing the side panel, the right side panel of the aircraft needs to be removed.



② Use tweezers to press the switch on the "BLITZ LED Control Module" located above the stack. Adjust as needed and reinstall the side panel.

LED Function Buttons

1. Short Press to switch LED colors (Red, Purple, Yellow, Orange, Cyan, Blue, Green, White)
2. Long Press to turn the LED off or on. The LED retains its last state after reboot.

Note: When adjusting, remove the screw first, then connect the power supply to adjust the LED color.

VII. 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 remote controller is powered on and bind to the aircraft, and verify the receiver indicator light flashes normally or indicates a connection.

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 floors 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.

VIII. Takeoff/Landing Procedure

Takeoff Procedure:

Start by pushing the throttle to the lowest position, then gradually increase it to lift the aircraft approximately 10-20cm 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 controller switch to arm it again, preventing potential accidents and injury.

IX. Troubleshooting Guide

Issue	Possible Reason	Solution
The aircraft does not respond to the remote control stick input.	Receiver protocol settings do not match the actual configuration.	Check if the receiver protocol settings are consistent with the serial port to which the receiver is connected.

The aircraft does not respond to the remote control stick input.	Mode settings conflict causing failure to arm.	Check if there are any conflicts or duplicates in the Betaflight Configurator mode settings.
	Receiver channel presets do not match the transmitter channel presets.	Verify and configure receiver channel map setting to match the transmitter channel map setting.
	Aircraft is at a tilted angle.	Check the maximum arming angle setting on the Betaflight Configurator page.
	Throttle channel is too high.	Move the throttle stick to the lowest position or verify if the channel number is correct.
	GPS rescue mode configured but GPS acquisition unsuccessful or insufficient satellites.	Wait for GPS fix or disable the GPS rescue mode.
GPS Rescue Mode not Triggering	Flight distance has not exceeded 100 meters.	Fly in a straight line for at least 100 meters past your descent distance, make sure the home arrow is pointing at your direction to confirm GPS functionality.
Aircraft Rolls Over Immediately on Takeoff or Cannot Take Off	Propellers installed incorrectly.	Ensure that the propeller direction matches the motor direction.
Unusual Noise from Motors After Takeoff	Propellers are loose.	Tighten the propellers.
	Propeller shaft is damaged.	Replace the propeller.

X. 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: www.dji.com.

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