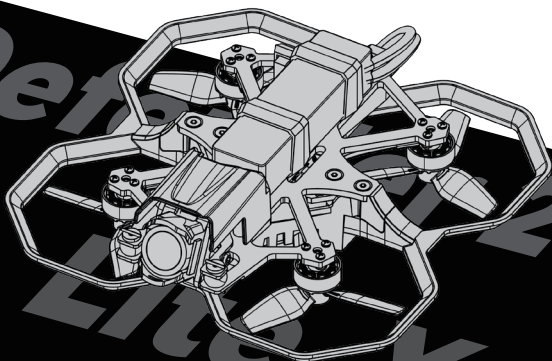


Defender 20 Lite X

快速入门指南

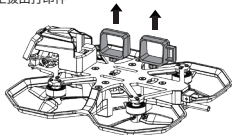
Quick Start Guide

- | | | |
|---|--|--|
| 1. 更换电池扎带
Replace the Battery Strap | 5. 天空端激活
Activating the Air Unit | 9. 基础飞行操作说明
Basic Flight Instructions |
| 2. 电池充电
Charging the Battery | 6. 飞机和眼镜对频
Binding the Aircraft and Goggles | 10. 售后服务 / 联系方式
After-Sales Service |
| 3. 安装飞机电池
Installing the Battery | 7. 起飞前检查
Pre-Flight Check | |
| 4. 飞机和遥控器对频
Binding the Aircraft and Remote Controller | 8. 模式开关
Mode Switch | |

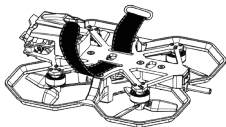


一、更换电池扎带

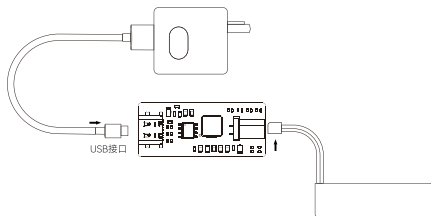
1. 将电池固定打印件旋转 90°后, 可向上拔出打印件



2. 更换电池扎带

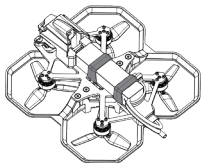


二、电池充电

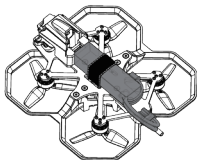


三、安装飞机电池

·使用电池固定打印件固定 IFLIGHT 原厂电池



·使用电池扎带固定其他尺寸电池



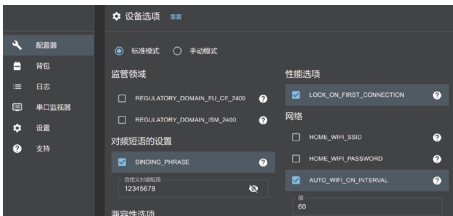
免责声明

1. 本产品为多旋翼飞行器, 配备了动力强劲的电机和锋利的螺旋桨, 具有极快的飞行速度, 同时具有一定的危险性, 操作时需要谨慎使用。
2. 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。在开始使用前, 请特别留意其中的注意与警告, 惠州市翼飞智能科技有限公司 (iFlight) 保留更新本《免责声明与概要》的权利。
3. 一旦开始使用本产品, 即视为您已理解、认可和接受本文档的全部条款和内容, 使用者承诺对自己的行为及因此而产生的所有后果负责, 使用者承诺仅处于正当目的使用本产品并且同意本文档全部条款和内容及iFlight可能制定的任何相关政策或者准则。

四、飞机和遥控器对频 以 IFLIGHT ELRS 900TX 为例

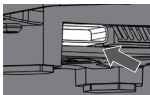
ELRS 存在两种对频方式：绑定短语对频与传统方式对频

1. 使用绑定短语对频



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。

2. 使用传统方式对频

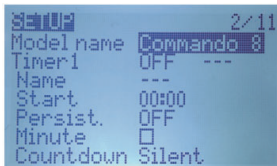


连续插拔 USB 口三次

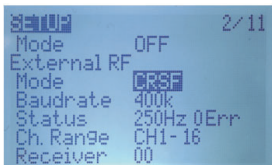
连续开机关机三次或者在未开机的状态下，通过 USB 口给接收机通电，连续插拔 USB 口三次，接收机蓝灯呈持续双闪，此时接收机进入对频状态，下一步再到遥控器对频。



1. 上电后，通过长按 Model setup 按键来到 MODELSSEL 界面



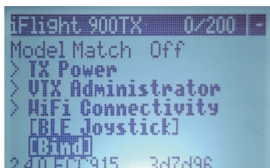
2. 短按 Next Page 来到 SETUP 界面



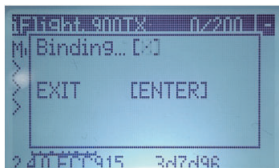
3. 选择并打开 External RF 的 CRSF 协议



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



5. 把光标移动至【Bind】选项，按下Enter进入对频模式。对频前需要先让接收机进入对频模式



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，如遇到无法对频情况可尝试把接收机和高频头固件升级到最新固件，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。
6. 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。

五、天空端激活

分别开启 Defender 20 Lite X 飞行器、DJI Goggles3 眼镜的电源，通过 USB-C 接口连接对应设备至电脑并运行 DJI Assistant 2（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-Air-Unit- 用户手册。

六、飞机和眼镜对频

Defender 20 Lite X 飞行器、DJI Goggles3 眼镜；对频前，请确保天空端、飞行眼镜固件已更新至最新版本。

1. 分别给飞行器与飞行眼镜通电。
2. 通电后，按下天空端的对频按键，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 0.5M 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。

对频
按键

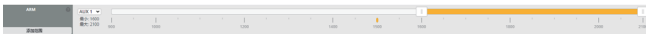


七、起飞前检查

1. 飞行眼镜电池、遥控设备、智能飞行电池以及移动设备是否电量充足。
2. 螺旋桨是否正确、稳固安装。
3. 电池是否安装并连接稳固，飞行眼镜电池是否正确连接。
4. 开机后电机是否能正常启动。
5. 飞行眼镜是否正常运行并显示相机图传画面。
6. 确保飞行眼镜天线安装稳固，遥控器天线已展开。

八、模式开关

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。



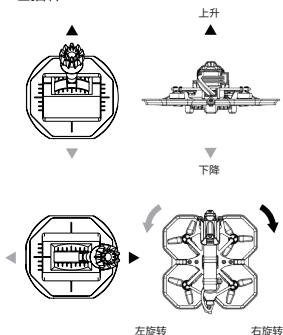
ANGLE：自稳通道开关，用于飞行器开启自稳飞行模式，默认出厂设置为 AUX2，该模式全程保持开启状态。图标亮起表示开启自稳模式，图标呈现灰色表示非自稳模式。



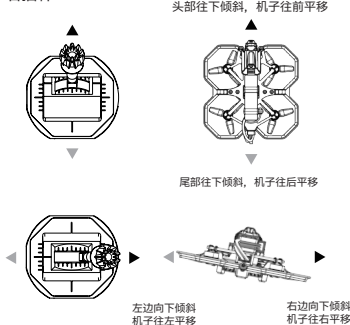
九、基础飞行操作说明

基础飞行操作说明 遥控器摇杆操控方式以 Mode 2 为例，如下图所示

左摇杆



右摇杆



⚠ 打杆图示仅做示意，打杆操作时勿将摇杆迅速地打满，应缓慢有效地进行打杆。

十、售后服务 / 联系方式

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

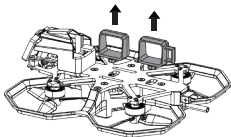
星河仲恺人工智能产业园 B2 栋厂房第 5-6 层



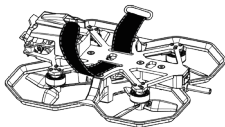
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I. Replace the Battery Strap

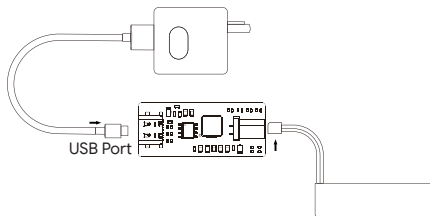
1. Rotate the battery mount 90° clockwise, then pull it upward to remove it.



2. Replace the battery strap.

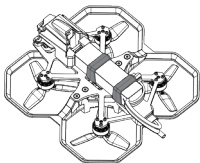


II. Charging the Battery

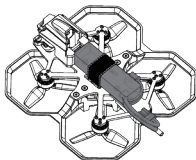


III. Installing the Battery

· Use the battery mount to secure iFlight batteries.



· Use the battery strap to secure batteries of other sizes.



Disclaimer

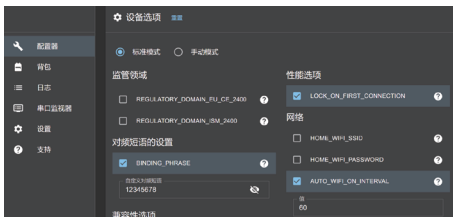
1. This product is a multi-rotor aircraft, equipped with powerful motors and sharp propellers, has fast flight speed, but also has a certain hazard when operating, need to be used with caution.
2. This product is not a toy and requires some basic knowledge to control, so please pay special attention to the warnings and cautions before you start using it. iFlight reserves the right to update this Disclaimer.
3. By using this product, you are deemed to have understood, acknowledged and accepted all of the terms and conditions of this document and you undertake to be responsible for your own actions and all consequences arising therefrom. You undertake to use this product only for legitimate purposes and agree to all of the terms and conditions of this document and any related policies or guidelines that iFlight may establish.

IV. Binding the Aircraft and Remote Controller

Example: iFlight ExpressLRS 900TX

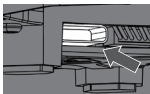
There are Two Binding Procedures for ExpressLRS: Custom Binding Phrase and Traditional Binding.

1. 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 aircraft with the same binding phrase might be bound as well.

2. Traditional Binding Procedure

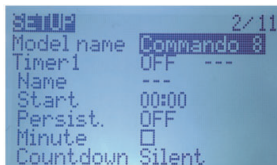


Plug and unplug the USB port for three times

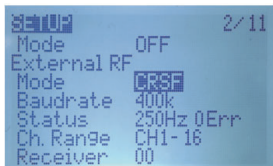
Power on and off the aircraft for three times, or plug and unplug the USB port for 3 times to supply power to the receiver when the aircraft is power off, the blue LED will start to double flash continuously. BIND mode active.



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



2. Press Next Page to enter the SETUP page.



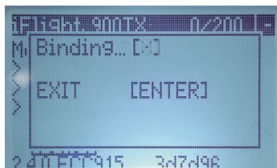
3. Scroll down to External RF and select CRSF.



4. 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 and transmitter.
- 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 equipment, please try to reboot and several times if necessary.
- 6.Please note that the Binding Phrase content must be unique. Do not set a simple Binding Phrase, otherwise devices with the same Binding Phrase will be bound within the ELRS signal range.

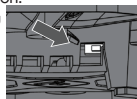
V. Activating the Air Unit

Power on the Defender 20 Lite X and DJI Goggles 3 separately, connect the corresponding aircraft 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-O4 Air Unit User Manual for details.

VI. Binding the Aircraft and Goggles

Before binding the Defender 20 Lite X and DJI Goggles 3 please make sure that the firmware of the air unit and the goggles are updated to the latest version.

Binding button



- 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 binding button of the goggles and the goggles will 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 image transmission can be displayed normally

VII. Pre-Flight Check

- 1.Make sure the goggles battery, remote controller devices, aircraft battery are fully charged.
- 2.Make sure the propellers are mounted correctly and securely.
- 3.Make sure the aircraft battery and goggles battery are properly connected and secure.
- 4.Make sure that there is nothing obstructing the motors and that they are functioning normally.
- 5.Make sure that the goggles are functioning normally and display the image from the camera.
- 6.Make sure that the goggles antennas are installed securely and the remote controller antenna is unfolded.

VIII. Mode Switch

ARM: The ARM/DISARM channel switch for arming and disarming the aircraft. Default factory setting is AUX1, low position for disarm, high position for arm. The icon is lit to indicate arm, the icon is gray to indicate disarm.



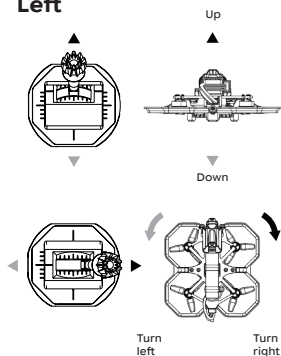
ANGLE: The Angle channel switch is used to enable the aircraft's Angle flight mode, the default factory setting is AUX 2, this mode remains on throughout the flight. The icon is illuminated to indicate Angle mode is on, the icon is gray to indicate Angle mode is off.



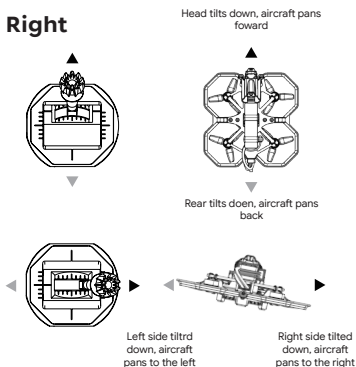
IX. Basic Flight Instruction

The remote controller stick controls are based on Mode 2, as shown in below.

Left



Right



⚠ The diagrams are for illustration purposes only. When control the throttle, do not pull it quickly, but slowly and efficiently.

X. After-Sales Service

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Website: www.iflight.com

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