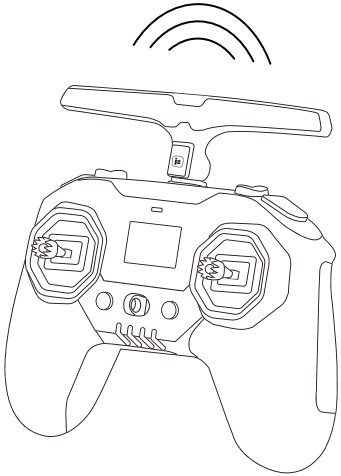
IFLIGHT
Flight Beyond Vision

COMMANDO 8

快速上手基础指南

USER MANUAL



V1.0 250728

目录

免责声明

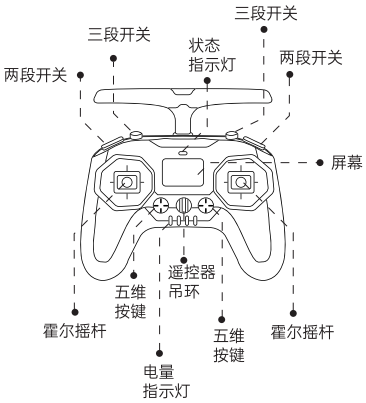
1. 本产品配合多旋翼或者固定翼飞行器等模型使用，许多遥控模型都配备了动力强劲的电机和锋利的螺旋桨，操作时，需要谨慎使用。

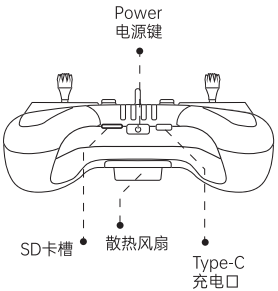
2. 本产品并非玩具，需要有一定的基础知识才能控制，所以要循序渐进，在开始使用前，请特别留意其中的注意与警告，惠州市翼飞智能科技有限公司(iFlight)保留更新本《免责声明与概要》的权利。

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。

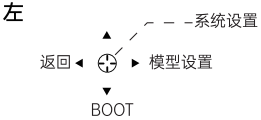
一、简介

iFlight Commando 8 遥控器搭载 Edge TX 固件，开放灵活，支持个性化自定义设置。标配霍尔摇杆，操控顺滑，打杆流畅且精准。内置 ELRS 2.4GHz 和 900MHz(868MHz) 发射模块。支持 ELRS 协议，带来更远的飞行距离，更稳定的信号响应，兼容市面上对应频段的 ELRS 接收机。整体设计小巧轻便，配备可折叠天线与可拆卸摇杆，便于收纳携带。Commando 8 将为穿越机飞行体验树立全新标杆，是你飞行旅途中的理想之选。





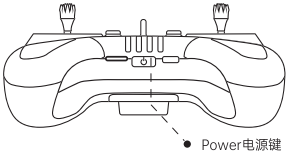
五维按键的定义



二、开关机

1、短按一次可检查电量。

2、短按一次，再长按3秒可开启、关闭遥控器。



三、电量显示

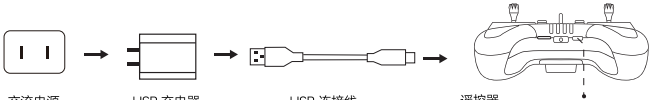
电量显示标识

电量为100%-80%，亮4颗灯。
电量为80%-60%，亮3颗灯。
电量为60%-40%，亮2颗灯。
电量为40%-20%，亮1颗灯。
电量为20%-5%，亮1颗灯，处于快速闪烁状态
电量低于5%，亮1颗灯，处于快速闪烁状态并有持续的蜂鸣器提醒。
欠电状态下，无电源灯亮起，有持续的蜂鸣器提醒，2分钟后或低于2.8V后将强制自动关机。

四、充电

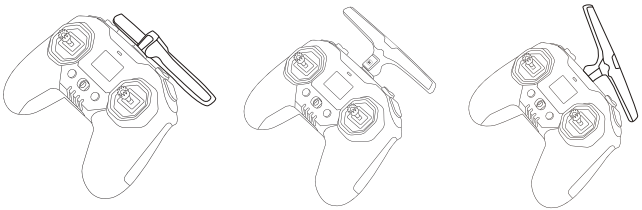
推荐使用 20W 以上的支持 PD、华为 FCP、三星 AFC、MTKPE+1.1/2.0 快充并符合 FCC/CE 标准的 USB 充电器。

Commando 8 内置了 3.6V Li-ion 电池以及 Type-C 快速充电功能，标称电池电压为 3.6v，最大充电电压为 4.2v，请使用者定期检查电池的电压和状况，切勿在无人看守的情况下为其充电，请务必始终在远离可燃材料的安全区域中充电。对于不按照安全规范使用或滥用本产品造成的一切不良后果，均由使用者自行承担责任。



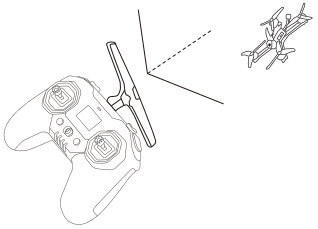
Type-C 接口左侧有一颗红色指示灯，在快充模式时，该指示灯会亮起，代表进入快充模式。

五、调整天线

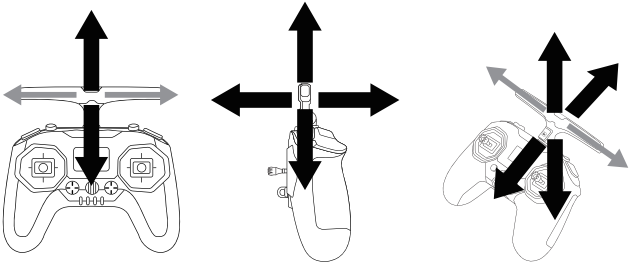


保持最佳通信范围

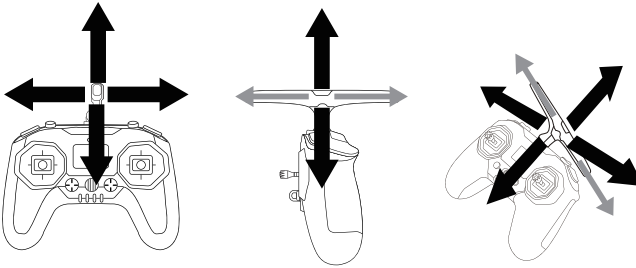
操控飞行器时，务必使飞行器处于最佳通信范围内。及时调整操控者与飞行器之间的方位或距离，以确保飞行器是位于最佳通信范围内。



天线平放信号辐射



天线竖放信号辐射



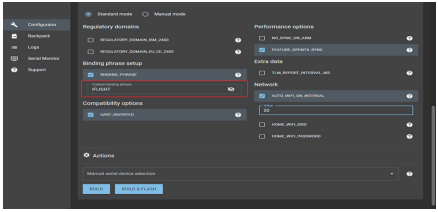
图中的黑色箭头代表天线信号强的方向，灰色箭头代表天线信号弱的方向。当天线水平放置时，天线前、后、上、下信号最强，左、右信号较差，当天线竖起放置时，天线前、后、左、右信号最强，上、下较差，建议飞行时将天线竖起，以获得最大范围

六、对频

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

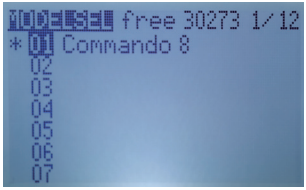
如果你正在刷写接收机与高频头固件，只需要设置好绑定短语即可直接将接收机与高频头绑定，无需使用传统方式对频。在Custom binding phrase中设置你的绑定短语，注意！绑定短语内容必须具有唯一性，不要设置简单的绑定短语，否则在ELRS信号范围内，同样绑定短语的设备将会被绑定。



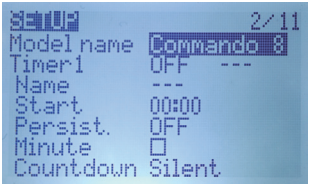
具体操作流程请参考Expresslrs官网中的快速上手教程，或iiFlight官方哔哩哔哩账号视频教程。

2.使用传统方式对频

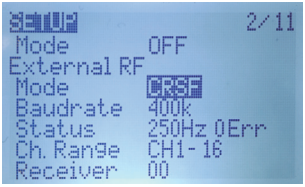
以iFlight ELRS 900为例。



▲开机后，通过长按Model setup按键来到MODELSEL界面

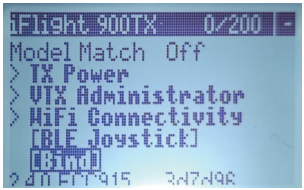


▲短按Next Page来到SETUP界面



▲选择并打开Extermal RF的CRSF协议

▲长按System Setings来到TOOLS界面，移动光标至ExpressLRS选项，长按Enter进入下一界面选项



▲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，给接收机通电，连续插拔三次，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。

▲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，建议给接收机重新开机。

3.对频时，接收机与遥控器距离要在1m以上。

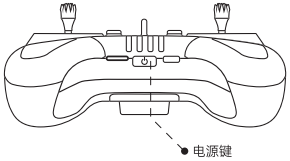
4.接收机固件版本与高频头固件版本需保持一致，如遇到无法对频情况，可尝试把接收机和高频头固件升级到最新固件，再尝试对频。

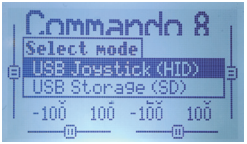
5.如遇到无法对频情况，可尝试重启遥控器与接收机。

七、USB功能

1、有线模拟器模式

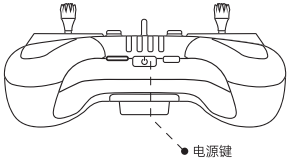
1.开机。
2.用Type-C数据线连接遥控器和电脑。
3.插入Type-C数据线后会弹出选择框，代表已经进入USB模式。
4.选择USB joystick（HID）模式，即可连接上模拟器。
5.直接拔出Type-C数据线即可退出模拟器模式。

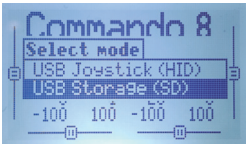




2、SD卡模式

1.开机。
2.用Type-C数据线连接遥控器。
3.插入Type-C 数据线后会弹出选择框，代表已经进入USB模式。
4.选择USB Storage（SD）模式，电脑即可识别到SD卡。
5.直接拔出Type-C数据线即可退出SD卡模式。





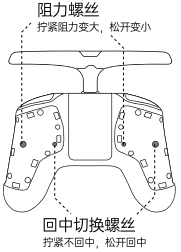
由于快充与USB数据在同一个接口，因此使用模拟器或SD卡等功能需要切换USB功能，默认在快充模式，需要使用模拟器或SD卡模式才需要切换。

3、BOOT菜单和DFU模式

在遥控器关机且未插USB的状态下，长按BOOT按键与Power按键，进入Bootloader模式。
关机状态下，用USB连接电脑与遥控器，长按BOOT按键与Power按键，进入DFU模式。

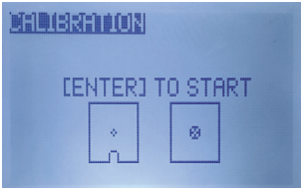
八、摇杆模式切换及校准

1.摇杆左右手切换：
美国手切换日本手：
-拧松左手摇杆的回中切换螺丝，直至左手摇杆回中。
-调节左手摇杆阻力螺丝。
-拧紧右手回中切换螺丝，直至右手不回中，再旋回一圈。
-调节右手摇杆阻力螺丝。
-在RADIO SETUP中的Mode页面切换为Mode1。

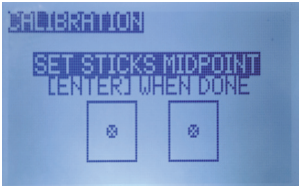


2.Commando 8 默认出厂摇杆模式为Mode2（美国手），用户可根据自己的使用习惯进行模式切换，长按五维按键的系统设置按钮进入系统菜单，通过右边按键翻页（PAGE）至3/7页，来到RADIO SETUP界面，来到底下的 Mode 选项，选择对应的摇杆模式。

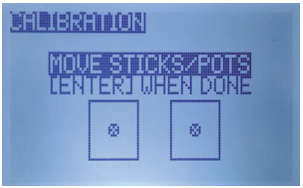
3.摇杆校准：长按五维按键的系统设置按钮进入系统界面，通过右边按键（PAGE）翻页至6/7页，来到HARDWARE界面，选择 Calibration 进行摇杆校准，如下图所示。



▲1.来到此界面，按下右按键（Enter）确定开始进入校准过程。



▲2.把摇杆放至物理中位，按下右按键（Enter）确定进入下一步。



▲ 3.移动摇杆，让两个摇杆都达到最大与最小行程，完成后按键确定，校准完成。

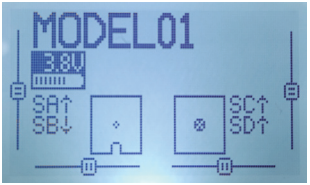
九、首次开机提示

开机后进入主页面之前，系统会进入自检项，包括油门摇杆，开关，SD卡警告以及对应启动条件，如不满足，将会有相对应的错误提示，使用者需要自行清除或按任意键跳过，进入主界面。

▲ 油门警告：开机后油门没有放至最低位，把油门放至最低位即可。

▲ 开关警告：开机后对应开关没放至默认位置上，打到默认位即可。

▲ SD卡警告：使用的SD卡文件版本与固件版本不匹配。



▲ 主界面：默认首次开机画面如下，使用者也可以通过右按键（PAGE）的左右拨动来显示不同界面。

十、新建模型与选择

开机进入主界面后，左五维按键长按模型设置按钮，进入菜单，来到 MODELSEL 界面。

▲ 光标移至空白序号处，长按右五维按键的确认键，出现如图选项后，选择Create model，新建模型。

▲ 移动光标至已设置好的模型，长按右五维按键的确认键，出现如图选项后，选择Select model，对已经设置好的模型进行选择。

Commando 8遥控器出厂均已设置好参数，到手对频即可使用，如需新建模型，需要重新设置通道映射等参数，建议新手使用iFlight出厂默认设置即可。

十一、产品规格

Commando 8 产品规格

重量: 315g ±10
规格尺寸：154*165*72mm
传输频率： 857MHz-928MHz/2.400GHz-2.480GHz
发射功率： ELRS 2.4GHz 500mW (27dBm)
ELRS 900MHz 1W(30dBm)
发射器模块：ELRS 2.4GHz/ ELRS 900MHz
支持的协议：ELRS
开源固件：Edge TX（遥控器）
通道数：8通道(4遥杆+4开关)
摇杆： 高精度霍尔摇杆
工作环境温度：0℃至40℃
充电环境温度：0℃至40℃
电池类型：锂离子电池
电池：内置1S2P 3.6V 2000mAh 7.2Wh*2 18650电池

Commando 8 PRO产品规格

重量: 315g ±10
规格尺寸：154*165*72mm
传输频率： 857MHz-928MHz/2.400GHz-2.480GHz
发射功率： ELRS 2.4GHz 1W (30dBm)
ELRS 900MHz 1W(30dBm)
ELRS GemX 1W（30dBm）
发射器模块：ELRS GemX（Dual Band）
支持的协议：ELRS
开源固件：Edge TX（遥控器）
通道数：8通道(4遥杆+4开关)
摇杆： 高精度霍尔摇杆
工作环境温度：0℃至40℃
充电环境温度：0℃至40℃
电池类型：锂离子电池
电池：内置1S2P 3.7V 3200mAh 11.84Wh*2 18650电池

⚠警告

- Commando8出厂时已预装稳定的固件。 除非您有经验并且有信心更新系统固件，不正确的更新可能会导致遥控器无法操作。
- 主控固件刷写，高频头固件刷写，详情请见使用视频。

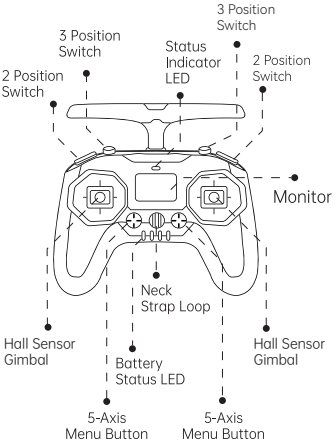
CONTENT

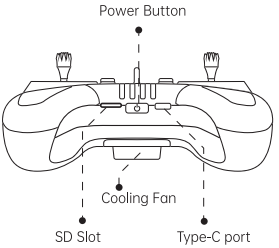
Disclaimer

1. This product is used with models such as multi-rotors or fixed-wing aircrafts.
Many remote controlled crafts are equipped with powerful motors and sharp propellers.Please use with caution!
2. This product is not a toy, it needs a certain basic knowledge to control. Please read the Manual before use!
HuiZhou iFlight Intelligent Technology Ltd. reserves the right to update this Manual.
3. Once you start using this product you agree to have understood, recognized and accepted all the terms and contents of this document. The user agrees to be responsible for his own actions all consequences arising therefrom.

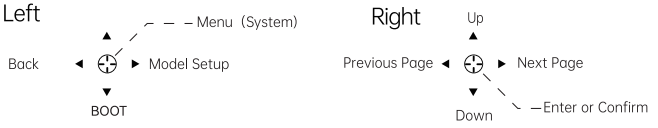
I. Introduction

iFlight Commando 8 is powered by EdgeTX firmware, open and flexible to support personalized customization. Equipped with hall sensor gimbals by default, it ensures smooth and precise control. The built-in 2.4GHz and 900MHz (868MHz) ELRS transmitter modules support the ELRS protocol, providing longer flight distances and more stable signal response, compatible with ELRS receivers of the same frequency bands on the market.
Its overall design is compact and lightweight, featuring foldable antennas and detachable gimbals for easy storage and transport. The Commando 8 sets a new standard for FPV flying and is your ideal companion on every flight.



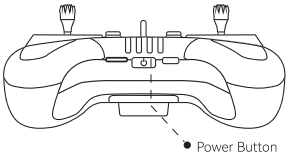


5-Axis Menu Button Definition



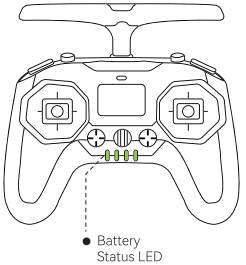
II. Power On/Off

1. Short Press for the LED battery status indicator.
2. Short Press, then press and hold 3 seconds to power ON or OFF.



III. Battery Level Indicator

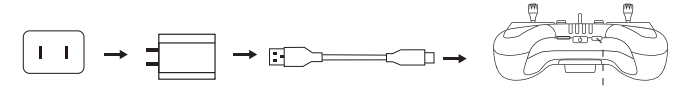
Battery Status LED



Indicator Light
100% - 80% power, 4 LEDs
80%-60% power, 3 LEDs
60%-40% power, 2 LEDs
40%-20% power, 1 LED
20%-5%, 1 LED and flashing
Below 5%, 1 LED and flashing with continuous beeping
No light and continuous haptic feedback will force automatic shutdown after 2 minutes or lower than 2.8V battery.

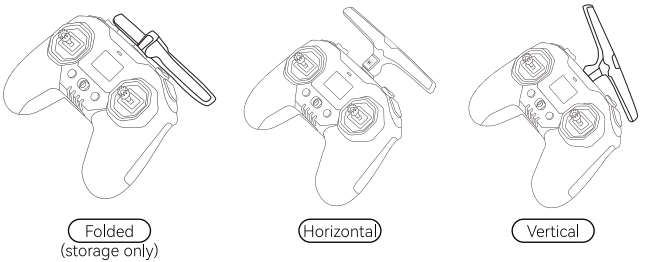
IV. Charging Instructions

It is recommended to use a 20W or higher USB charger that supports PD, Huawei FCP, Samsung AFC, or MTK PE+ 1.1/2.0 fast charging, and complies with FCC/CE standards.
The Commando 8 is equipped with a 3.6V Li-ion battery and Type-C fast charging. The nominal battery voltage is 3.6V, and the maximum charging voltage is 4.2V. Users should regularly check the battery voltage and condition. Never charge the device unattended, and always charge in a safe area away from flammable materials. The user assumes full responsibility for any consequences resulting from improper use or failure to follow safety guidelines.



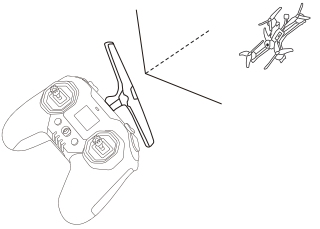
There is a red indicator light on the left side of the charging port, the light will be on under fast charging mode. Fast charging mode active.

V. Antenna Adjustment

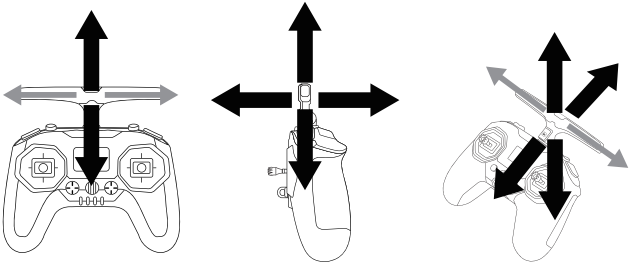


Maintaining Optimal Positioning

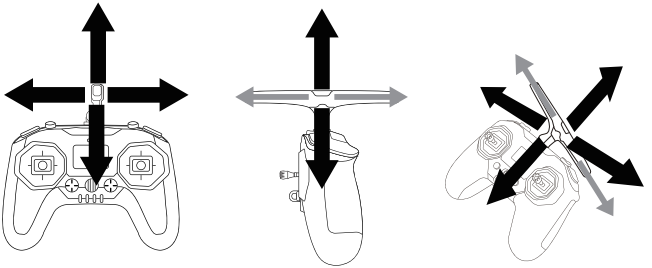
When operating aircraft, make sure to always be in LOS (line of sight) with the antenna facing towards your model.



Horizontal antenna signal radiation



Vertical antenna signal radiation



The black arrows in the diagram indicate strong signal directions, while the gray arrows indicate weak signal directions. When the antenna is placed horizontally, the signal is strongest in the front, back, top, and bottom, and weaker on the left and right sides. When the antenna is placed vertically, the signal is strongest in the front, back, left, and right, and weaker on the top and bottom.

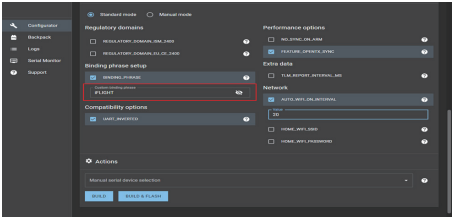
For optimal signal range during flight, it is recommended to keep the antenna vertically positioned.

VI. Binding Instructions

There're two ELRS binding methods: Custom Binding Phrase and Traditional Binding.

1. Binding with Custom Binding Phrase

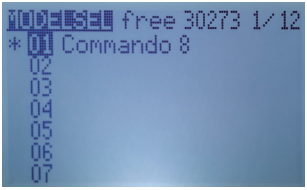
If you're flashing firmware to both the receiver and TX module, you can bind them directly by setting the same Binding Phrase, without using the traditional binding process. Set your unique phrase under Custom Binding Phrase. Note that your binding phrase must be unique. Avoid using simple or common phrases, otherwise, any device within ELRS signal range using the same phrase may also bind automatically.



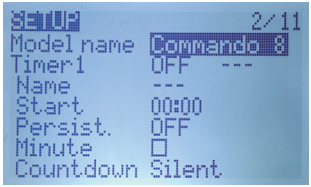
For more specific information please refer to the ELRS quick start tutorial on the official website.

2. Traditional Binding Method

Example: iFlight ELRS 900



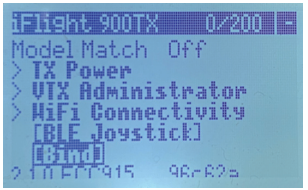
▲ 1. After power on, press and hold the Model setup button to enter the MODELSEL interface.



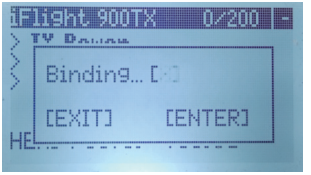
▲ 2. Short press next page to SETUP interface.

▲3. Scroll down to External RF and select CRSF protocol.

▲4. Long press the left 5-Axis button to enter the System Settings menu, then go to the TOOLS page. Move the cursor to ExpressLRS, long press Enter to next page.



▲5. Scroll down to the BIND option and press the Enter, the transmitter will enter binding mode. Power on the receiver, then plug and unplug the power three times in a row. The receiver will enter bind mode, indicated by continuous double blue flashes. Proceed to the transmitter binding.



▲6. Once binding is successful, the receiver's blue light will turn solid. Turn off and then back on the receiver to complete the process.

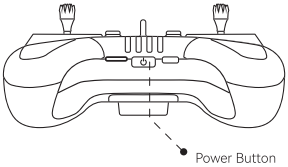
Caution:

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.

VII. USB Functionality

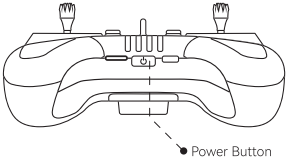
1. Wired Simulator Mode

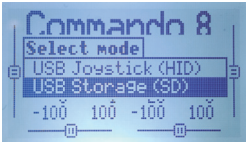
1. Power on the radio transmitter.
2. Connect the device to the computer using a Type-C data cable.
3. After plugging in the cable, a selection window will pop up, indicating that USB mode has been activated.
4. Select USB Joystick (HID) mode to connect simulator.
5. Unplug the Type-C cable to exit simulator mode.



2. SD-Card mode

1. Power on the radio transmitter.
2. Connect the device to the computer using a Type-C data cable.
3. After plugging in the cable, a selection window will pop up, indicating that USB mode has been activated.
4. Select USB Storage (SD) mode, the computer will then recognize the SD card.
5. Unplug the Type-C cable to exit simulator mode.





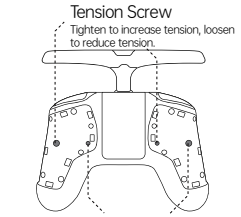
Since fast charging and USB data share the same port, switching USB modes is required when using functions like simulators or SD cards. By default, the port is in fast charging mode, switch only when using simulator or SD card features.

3. BOOT Menu and DFU Mode

When the device is powered off and not connected via USB, press and hold the BOOT button and the Power button to enter Bootloader Mode.
To enter DFU Mode, while the device is powered off, connect it to the computer via USB, then press and hold both the BOOT and Power buttons.

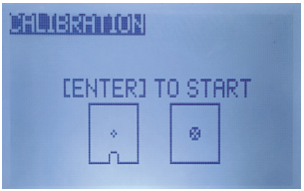
Ⅷ. Gimbal Mode and Calibration

1. Switching from Mode 2 to Mode 1:
– Loosen the centering screw on the left gimbal until it auto-centers.
– Adjust the tension screw on the left gimbal as needed.
– Tighten the centering screw on the right gimbal until it no longer auto-centers, then turn it back one full turn.
– Adjust the tension screw on the right gimbal.
– In the RADIO SETUP menu, go to the Mode page and switch to Mode 1

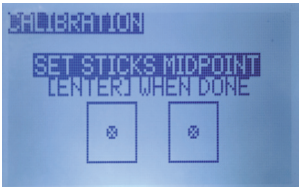


2. The Commando 8 is set to Mode 2 by default. Users can switch modes according to their preferences. Long press the 5-Axis button to enter the System Menu, then use the right button (PAGE) to scroll to page 3/7 and enter the RADIO SETUP menu. Scroll down to the Mode option and select your preferred stick mode.

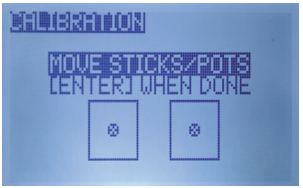
3. Long press the 5-Axis button to enter the System Menu, then use the right button (PAGE) to scroll to page 6/7 and go to the HARDWARE menu. Select Calibration to perform gimbal calibration, as shown below.



▲ 1. Come to this interfacen and press the right button (Enter) to start the calibration process.



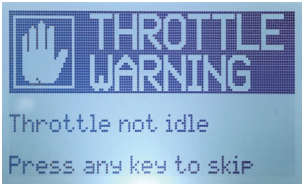
▲ 2. Set the gimbal sticks to the midpoint and press the right button (Enter) for the next step.



▲ 3. Gently move the sticks to their furthest positions several times and press the right button (Enter) when finished.

IX. First Boot Prompt

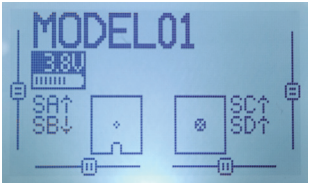
Before entering the main interface after powering on the radio transmitter, the system will do a self check.
If there is an error, please follow the on-screen message or press any button to skip.



▲ Throttle is not at it's lowest position.
Please move the throttle stick all the way down.

▲ One or several switches are not at the default position.

▲ The Version of your SD-card files do not match the version of your firmware.



▲ Main Interface. Use the right 5-Axis button (PAGE) left or right to switch between different screen contents.

X. Model Setup and Selection

After booting into the main interface, push the right 5-Axis button to the right (MENU) to enter the system menu. First page MODELSEL.

▲ Move to a free entry then press and hold the right 5-Axis button (Enter).
To create a model press enter again.

▲ Move to a model you have set up then press and hold the right 5-Axis button (Enter).
To use this model press Enter again at Select model.

The iFlight Commando8 Radio Transmitter has a pre-installed factory setup and is ready to use after successfully binding a model. Creating a new model will require to setup the correct parameters for it. We suggest using the iFlight factory setup.

XI. Product Specifications

Commando 8

Weight	315g±10
Dimensions	154*165*72mm
Frequency	875MHz-928MHz / 2.400GHz-2.480GHz
Telemetry Power	ELRS 2.4GHz 500mW (27dBm) ELRS 900MHz 1W (30dBm)
Module	ELRS 2.4GHz/ ELRS 900MHz
Protocols	ELRS
Firmware	EdgeTX (controller)
Channels	8 (4 gimbals+4switches)
Gimbal	Hall sensor gimbals
Operation	0°C - 40°C
Charging	0°C -40°C
Battery Type	Lithium battery
Battery	Built-in 1S2P 3.6V 2000mAh 7.2Wh*2 18650 batteries

Commando 8 Pro

Weight	315g±10
Dimensions	154*165*72mm
Frequency	875MHz-928MHz / 2.400GHz-2.480GHz
Telemetry Power	ELRS 2.4GHz 1W (30dBm) ELRS 900MHz 1W (30dBm) ELRS Gemx 1W (30dBm)
Module	ELRS GemX (Dual Band)
Protocols	ELRS
Firmware	EdgeTX (controller)
Channels	8 (4 gimbals+4switches)
Gimbal	Hall sensor gimbals
Operation	0°C - 40°C
Charging	0°C -40°C
Battery Type	Lithium battery
Battery	Built-in 1S2P 3.7V 3200mAh 11.84Wh*2 18650 batteries

Warning

The Commando8 is pre-installed with stable firmware. Unless you are experienced and confident in updating the system firmware, incorrect updates may led to radio inoperable. For main control firmware and ELRS transmitter firmware update, please refer to the usage video.

www.iflight.com

Follow iFlight on social media to get updates

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