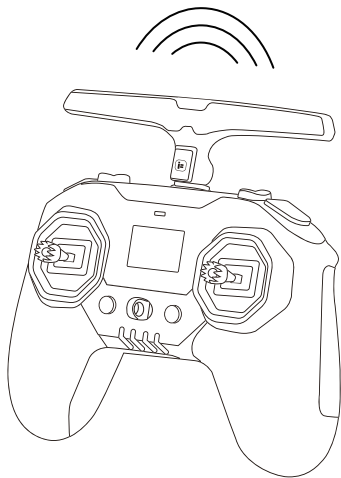




# COMMANDO 8

快速上手基础指南

USER MANUAL



# 目录

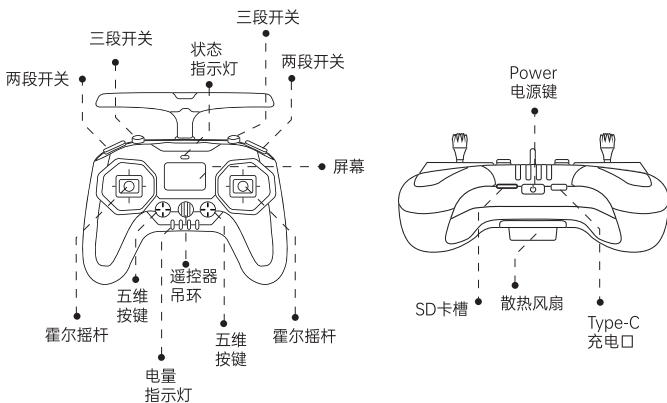
- 一、简介
- 二、开关机
- 三、电量显示
- 四、充电
- 五、调整天线
- 六、对频
- 七、USB功能切换
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- 十、新建模型与选择
- 十一、产品规格

# 免责声明

1. 本产品配合多旋翼或者固定翼飞行器模型使用，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，请特别注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 Commando8 遥控器采用 Edge TX 固件，强大的系统可让玩家随心定义，标配的霍尔摇杆，提高遥控打杆的流畅性与精准性，配合内置的 ELRS 2.4GHz、915MHz(868MHz) 高频头，可大幅度提升飞机距离与对应距离内的稳定性和响应速度，首创使用双高频头，配合双频天线使用，能使其最大化的兼容不同的接收机，D8、D16、S-FHSS 与 ELRS 接收机。整体小巧玲珑的外观，可折叠天线与可拆卸摇杆，充分考虑其携带便捷性，Commando 8 将是穿越机遥控上的又一里程碑，也是飞行道路上的又一选择。



## 五维按键的定义

左

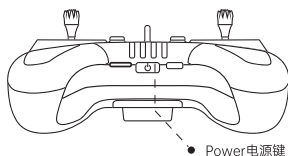


右



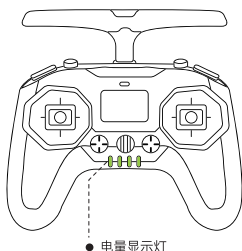
## 二、开关机

- 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

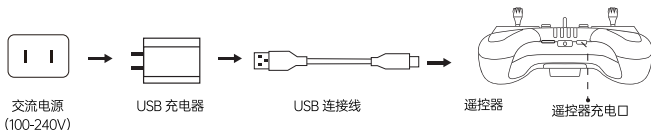


电量为100%-80%，亮4颗灯。  
电量为80%-60%，亮3颗灯。  
电量为60%-40%，亮2颗灯。  
电量为40%-20%，亮1颗灯。  
电量为20%-5%，亮1颗灯，处于快速闪烁状态  
电量低于5%，亮1颗灯，处于快速闪烁状态并有持续的蜂鸣器提醒。  
欠电状态下，无电源灯亮起，有持续的蜂鸣器提醒，2分钟后或低于2.8V后将强制自动关机。

## 四、充电

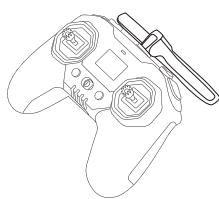
推荐使用 20W 以上的支持 PD、华为 FCP、三星 AFC、MTK PE+1.1/2.0 快充并符合 FCC/CE 标准的 USB 充电器。

Commando8 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。

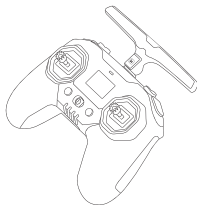


Type-C 接口左侧有一颗红色指示灯,在快充模式时,该指示灯会亮起,代表进入快充模式。

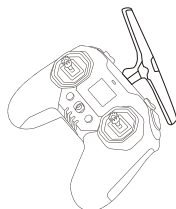
## 五、调整天线



折叠状态



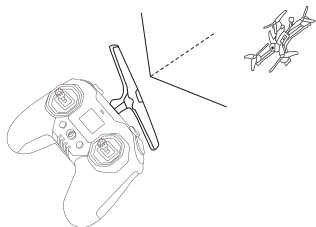
水平放置



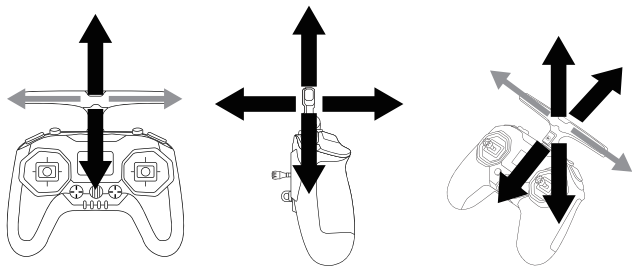
竖直放置

### 保持最佳通信范围

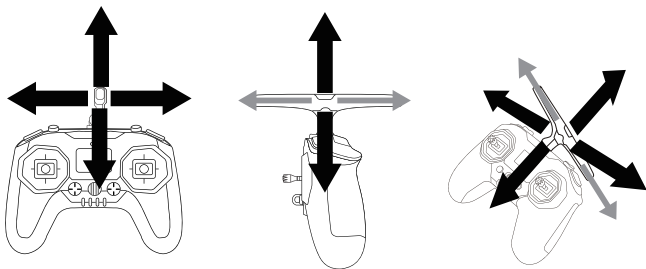
操控飞行器时，务必使飞行器处于最佳通信范围内。及时调整操控者与飞行器之间的方位或距离，以确保飞行器是位于最佳通信范围内。



## 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 (CC2500/ELRS)

## 一、CC2500高频头

以iFlight R81接收机为例，此接收机为D8模式。

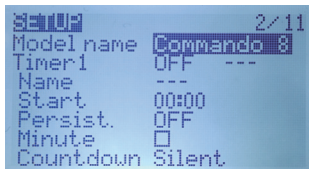
1.给R81接收机通电，此时接收机处于未对频状态，此时接收机LED为熄灭状态，按住对频键1秒，红灯亮起，此时接收机进入对频状态，下一步到遥控器操作。



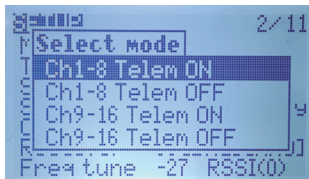
▲ 2.开机进入主界面后，长按左五维按键的模型设置按钮，进入菜单，来到MODELSEL界面。



▲ 4. 往下翻来到 Internal RF 选项，打开 MULTI 模式，选择 Frsky D8 模式，把光标移动至 BND 以进入下一步。  
6.完成对频后退出，来到主界面即为完成。



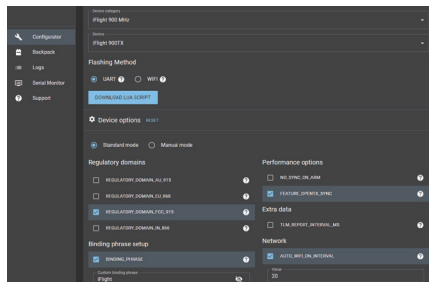
▲ 3.翻页来到2/12页，SETUP 界面。



▲ 5.选择对应模式，按下右按键 (Enter) 确定开始进入对频。

## 二、ELRS对频与固件更新：

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。



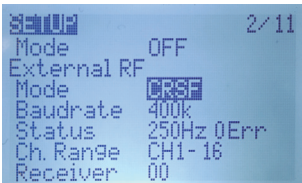
具体操作流程请参考ExpressLRS官网中的快速上手教程，或iFlight官方哔哩哔哩账号视频教程。

## 2.使用传统方式对频

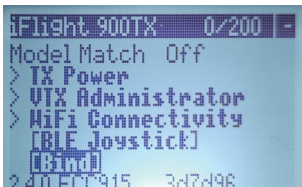
以iFlight ELRS 900为例。



▲上电后，通过长按Model setup按键来到MODELSEL界面



▲选择并打开External RF的CRSF协议



▲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。

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。



▲短按Next Page来到SETUP界面



▲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



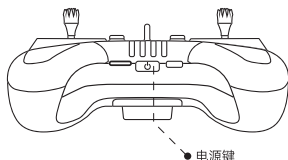
▲对频完成后，接收机的蓝灯双闪会变成蓝灯常亮状态，此时已对频成功。



# 七、USB功能

## 1、有线模拟器模式

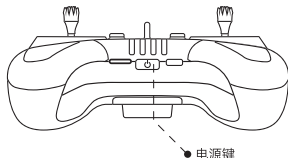
- 1.开机。
- 2.用Type-C数据线连接遥控器和电脑。
- 3.插入Type-C数据线后会弹出选择框，代表已经进入USB模式。
- 4.选择USB joystick（HID）模式，即可连接上模拟器。
- 5.直接拔出Type-C数据线即可退出模拟器模式。



---

## 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 Storage（SD）模式，电脑即可识别到SD卡。
- 5.直接拔出Type-C数据线即可退出模拟器模式。



## 3、BOOT菜单和DFU模式

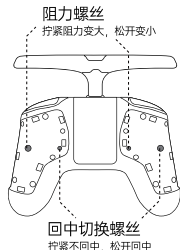
在遥控器关机且未插USB的状态下，长按BOOT按键与Power按键，进入Bootloader模式。  
关机状态下，用USB连接电脑与遥控器，长按BOOT按键与Power按键，进入DFU模式。

## 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.Commando8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。

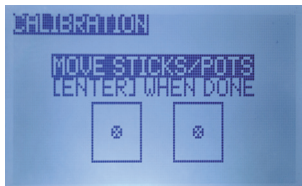
3.摇杆校准：长按五维按键的系统设置按钮进入系统界面，通过右边按键（PAGE）翻页至6/7页，来到 HARDWARE界面，选择 Calibration 进行摇杆校准，如下图所示。



- ▲ 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

重量: 315g  $\pm$ 10

规格尺寸: 154\*165\*72mm

传输频率: 857-928MHz/2.400GHz-2.480GHz

发射功率: CC2500: 100mW

ELRS 2.4GHz: 10-500mW

ELRS 915MHz: 100-1000mW

发射器模块: CC2500/ELRS 2.4GHz /ELRS 915MHz

支持的协议: D8、D16、S-FHSS、ELRS

开源固件: Edge TX (遥控器)

通道数: 8通道(4摇杆+4开关)

摇杆: 高精度数字霍尔摇杆

工作环境温度: 0°C至40°C

充电环境温度: 5°C至40°C

电池类型: 锂离子电池

容量: 1S2P 4000mAh

额定电压: 3.6V

能量: 14.4Wh



**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

- I. Introduction
- II. Power On/Off
- III. Battery Level Indicator
- IV. Charging Instructions
- V. Antenna Adjustment
- VI. Binding Instructions
- VII. USB Functionality
- VIII. Gimbal Mode and Calibration
- IX. First Boot Prompt
- X. Model Setup and Selection
- XI. Product Specifications

# 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.

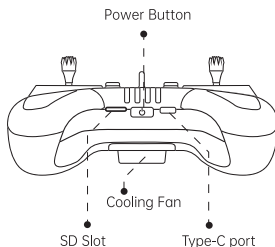
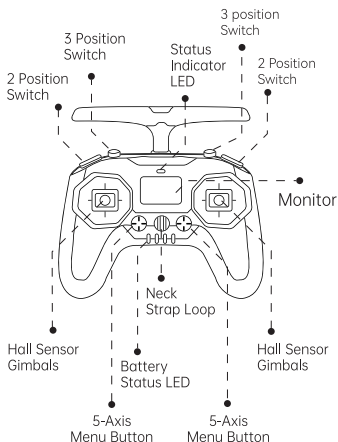
## I. Introduction

The iFlight Commando8 remote control supports EdgeTX firmware.

Digital Hall Sensor Gimbals for maximum accuracy and minimum jitter. Built-in ELRS (ExpressLRS) 2400MHz or 916/868MHz RF module with OpenSource software development and a great community, better signal reception and range without to worry about failsafes. Extreme signal penetration in difficult terrain and highly noise resistant, LongRange capable with 2400MHz and more range you'll probably need on the 900MHz band. Up to 500hz packet rate for the lowest delay ever.

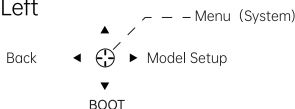
This remote control is compatible with different receivers when bought with the Multi-protocol and ELRS RF module. D8, D16, S-FHSS and ELRS protocols supported.

Small size, long battery life, foldable Single- or Dual-Band antenna and removeable (upgradeable) stick ends.

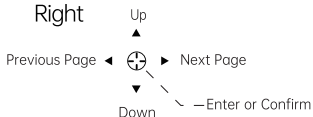


## 5-Axis Menu Button Definition

Left

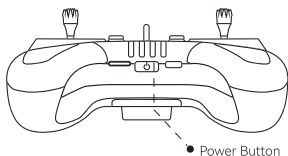


Right



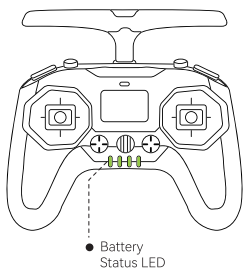
## II. Power On/Off

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

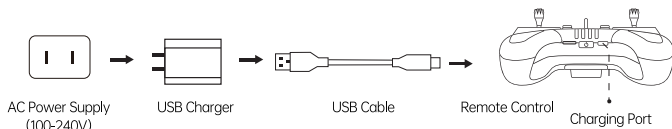
No light and continuous haptic feedback

will force automatic shutdown after 2 minutes or lower than 2.8V battery.

## IV. Charging Instructions

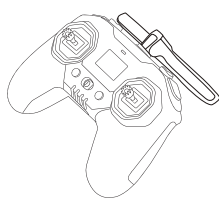
It is recommended to use a USB charger of 20W or above that supports PD, Huawei FCP, Samsung AFC, MTK PE+1.1/2.0 fast charge and complies with FCC/CE standards. The Commando8 has a built-in Li-ion battery and Type-C fast charging. The nominal battery Voltage is 3.6V, the maximum Voltage is 4.2V. Don't charge damaged or faulty cells and do not charge it unattended. Charge in a safe area away from flammable materials.

The user is responsible for all consequences caused by wrong use or abuse of this product.

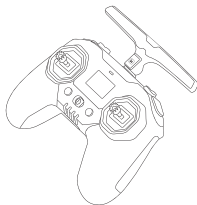


There is a red indicator light on the left side of the charging port, the light will be on under fast charging mode. Fast charging mode active.

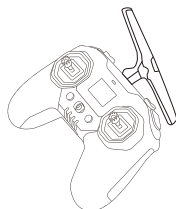
## V. Antenna Adjustment



Folded  
(storage only)



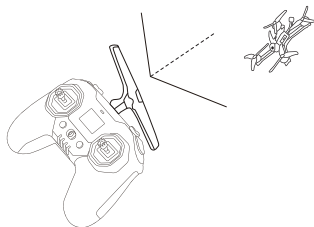
Horizontal



Vertical

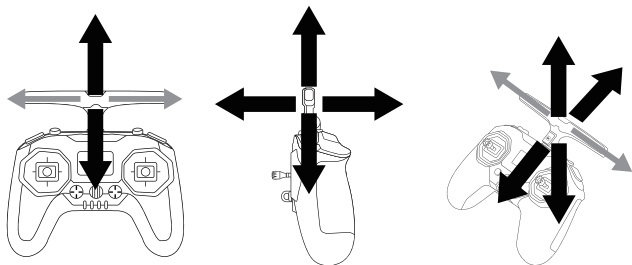
### Maintaining Optimal Positioning

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

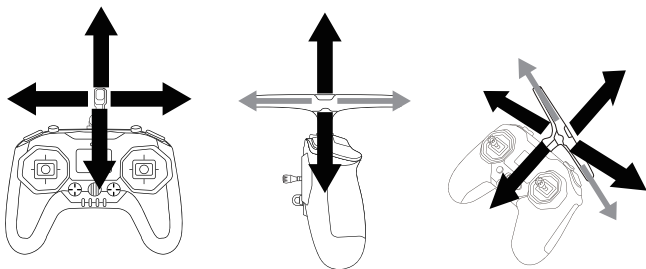




## Horizontal antenna signal radiation



## Vertical antenna signal radiation



The black arrow in the graphic represents the direction of a strong antenna reception, the gray arrow represents the direction of weak antenna reception.

When the antenna is placed horizontally, the front and upwards/downwards facing directions are the safest to move your craft in. Flying your model to the left, right or behind yourself would cause a weaker signal reception. If you plan to move your aircraft from the left to the right, make sure to use a vertical antenna position.

# VI. Binding Instructions

## C2500 Multi-Protocol Module

Example: Using the iFlight R81 receiver, Frsky ACCST D8 protocol.

1. Power on the R81 receiver, the receiver LED is off. Press the Bind button for 1 second, the LED turns red. The receiver is now in Bind mode.

```
MODELSel free 30273 1/12
* 01 Commando 8
02
03
04
05
06
07
```

▲ 2. Once you power on the radio, hold the left menu button to the right to enter the MODELSel page.

```
SETUP 2/11
Model name Commando 8
Timer1 OFF ---
Name ---
Start 00:00
Persist. OFF
Minute 
Countdown Silent
```

▲ 3. Push the right menu button to the right to go to the next page SETUP (2/12)

```
SETUP 2/11
Mode MULTI
Type FrSky
Subtype D8
Status No telemetry
Ch. Range Ch1-16
Receiver 00 [Bind] [Rng]
Frequency -27 RSSI(0)
```

▲ 4. Scroll down to the Internal RF and turn on MULTI mode, select Frsky D8 mode and move to BND for the next step.

```
SETUP 2/11
Select mode
Ch1-8 Telem ON
Ch1-8 Telem OFF
Ch9-16 Telem ON
Ch9-16 Telem OFF
Frequency -27 RSSI(0)
```

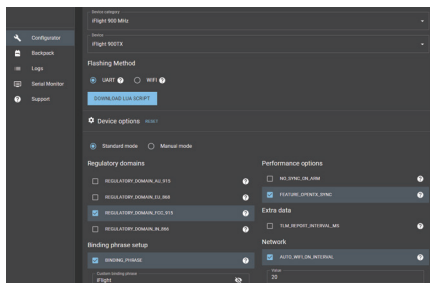
▲ 5. Select Ch1-8 Telem ON (default) or your own preference. Short press the right menu button to confirm Bind mode.

6. Receiver and Remote Control should be both in Bind mode and automatically discover each other. If not successful, please try again.

## ELRS binding and firmware update

There's two methods to bind:

Custom Binding Phrase and Traditional.



### 1. Binding with 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.



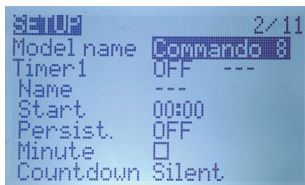
For more specific information please refer to the ELRS quick start tutorial on the official website.

## 2.Traditional Binding Procedure

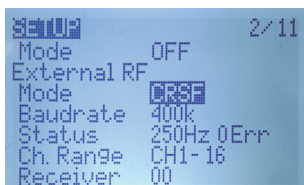
Example: iFlight ELRS 900MHz receiver



- ▲ 1. Once you power on the radio, hold the left menu button to the right to enter the MODELSEL page.



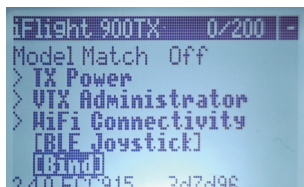
- ▲ 2. Push the right menu button to the right to go to the next page SETUP (2/12)



- ▲ 3. Scroll down to External RF and select CRSF/ELRS.



- ▲ 4. Select the ExpressLRS LUA script (latest version installed). Press the right 5-Axis Button to enter.



- ▲ 5. Scroll down to Bind, press the right 5-Axis button to enter. BIND mode active.



- ▲ 6. Binding screen appears. The blue LED on the receiver will turn to solid blue. Bind was successful.

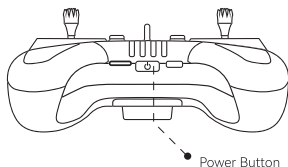
### Caution:

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.

# VII. USB Functionality

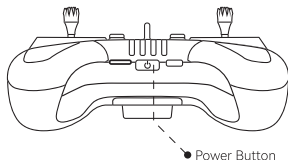
## 1. Wired Simulator Mode

1. Power on the radio.
2. Connect the Type-C cable to the remote control and your computer.
3. Plug in the Type-C cable, selection screen appears, USB mode active.
4. Select the USB Joystick (HID) for Simulator mode.
5. Unplug the Type-C cable to exit Simulator mode.



## 2. SD-Card mode

1. Power on the radio.
2. Connect the Type-C cable to the remote control and your computer.
3. Plug in the Type-C cable, selection screen appears, USB mode active.
4. Select the USB Storage (SD) for Storage mode.
5. Unplug the Type-C cable to exit Simulator mode.



## 3. BOOT Menu and DFU Mode

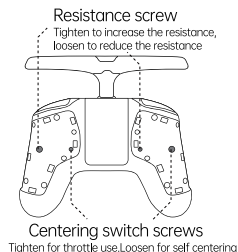
Boot menu: First disconnect the USB cable. Hold down the Boot button then push and hold the Power button. Firmware can be flashed through the menu from the SD card.

DFU mode: First connect the USB cable to your computer and radio. Hold down the Boot button then push and hold the Power button. Screen stays dark, LEDs run from left to right. Firmware can be flashed through your computer.

# VIII. Gimbal Mode and Calibration

## 1. Example: Mode1 to Mode2 Throttle

- Loosen the centering screw on your left hand gimbal until the stick centers itself.
- Adjust the left hand gimbal resistance screw to your preference.
- Tighten the right hand centering screw to lock self centering.
- Adjust the right hand gimbal resistance screw to your preference.
- Press and hold the left 5-Axis button (SYS) to enter the menu. Use the right 5-Axis button and push to the right (next Page) to Page3/7 RADIO SETUP and switch to MODE1.



## 2. The default MODE for the Commando8 is MODE2 (Left Stick Throttle)

3. Press and hold the left 5-Axis button (SYS) to enter the menu. Use the right 5-Axis button and push to the right (next Page) to Page6/7 CALIBRATION. Start to calibrate your sticks.



- ▲ 1. Calibration.



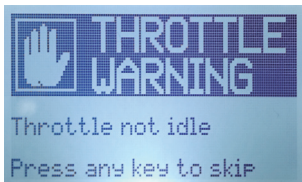
- ▲ 2. Set the gimbal sticks to the midpoint and press the right button (Enter) for the next step.



- ▲ 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, 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

Weight	315g±10
Size	154*765*72mm
Frequency	857-928MHz / 2.400GHz-2.480GHz
Output Power	CC2500: 100mW ELRS 2.4GHz: 10-500mW ELRS 915MHz: 100-1000mW
Transmit Module	CC2500 / ELRS 2.4GHz / ELRS 915MHz
Supported Protocols	S-FHSS / D16 / D8 / ELRS
Firmware	Edge TX
Channels	Up to 8 channels (4 gimbals+4 switches)
Gimbal	High precision digital hall sensor gimbals
Operation Temperature	0° to 40°C (32° to 104°F)
Charging Temperature	5° to 40°C (41° to 104°F)
Battery Type	Lithium-ion battery
Batteries	2x 18650 2000mAh
Voltage	3.6V
Capacity	14.4 Wh



## Warning

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



[www.iflight-rc.com](http://www.iflight-rc.com)



Follow iFlight on social media to get updates

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0752-3866695



此张内容不做印刷

尺寸:175\* 124.2mm

材质: 128g双铜/ 80g书纸

数量:两种材质的各打10份

页数:1-24页

注意:要彩色双面印刷,中间要订书钉