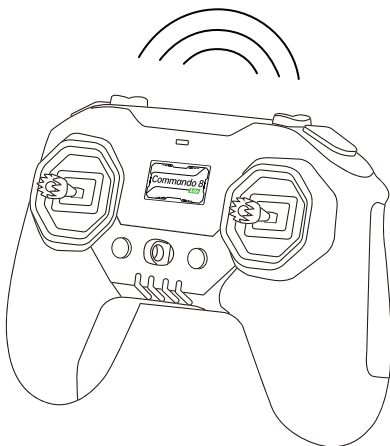




COMMANDO 8 Lite

用户手册

USER MANUAL



目录

- 一、简介
- 二、开关机
- 三、电量显示
- 四、充电
- 五、天线切换
- 六、对频
- 七、固件刷写模式
- 八、有线模拟器
- 九、摇杆模式切换及校准
- 十、产品规格

免责声明

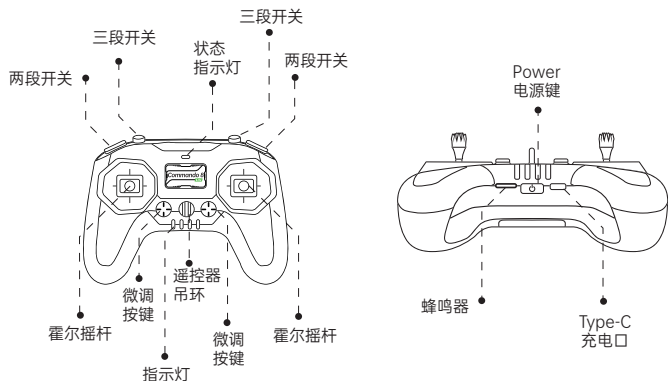
1. 本产品配合多旋翼或者固定翼飞行器模型使用，许多遥控模型都配备了动力强劲的电机和锋利的螺旋桨，操作时，需要谨慎使用。
2. 本产品并非玩具，需要有一定的基础知识才能控制，所以要循序渐进，在开始使用前，请特别留意其中的注意与警告，惠州市翼飞智能科技有限公司(iFlight)保留更新本《免责声明与概要》的权利。
3. 一旦开始使用本产品，即视为您已理解、认可和接受本文档的全部条款和内容，使用者承诺对自己的行为及因此而产生的所有后果负责，使用者承诺仅处于正当目的使用本产品并且同意本文档全部条款和内容及 iFlight 可能制定的任何相关政策或者准则。

一、简介

Commando 8 Lite 遥控器是一款采用自主研发系统的穿越机遥控器。简约便捷的设计，让用户能够快速上手使用。标配的霍尔摇杆，能够提高飞行操作的流畅性和精准性，内置的 ELRS 2.4GHz 100mW 高频头则为其稳定性和响应速度提供了有力支持。

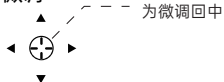
除了标准配置外，该遥控器还拥有一定的拓展性，可通过加装外置天线实现更远的飞行距离，让玩家拥有更高的可玩性。同时，其内置天线和可拆卸摇杆，更加注重携带的便捷性，将成为穿越机入门遥控设备领域的一项里程碑。

Commando 8 Lite 遥控器不仅适合入门玩家，也为轻度飞行用户提供了更加高效便捷的飞行体验。

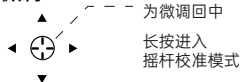


五维按键的定义

左摇杆微调

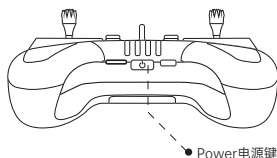


右摇杆微调



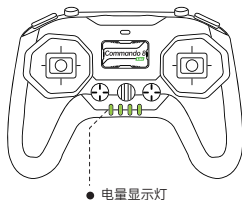
二、开关机

- 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

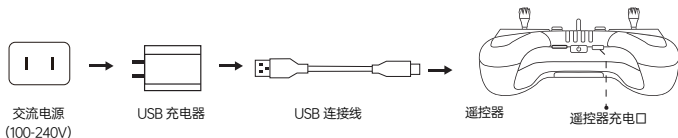
电量低于5%，亮1颗灯，处于快速闪烁状态并有持续的蜂鸣器提醒。

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

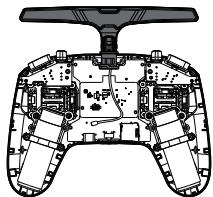
推荐使用 10W 及以上的支持 5V2A 供电，标准的 USB 充电器。

Commando8 Lite 内置了 3.7V Li-ion 电池以及 Type-C 充电功能。标称电池电压为 3.7v，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。

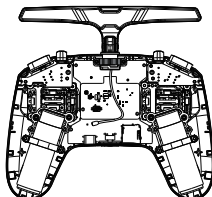


五、天线切换 (外置天线需自行加装)

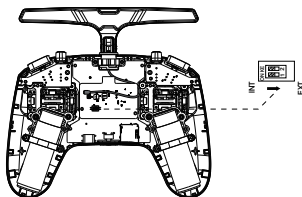
安装外置天线 (自选)



1. 拆开遥控器后壳，将天线置于展开状态，logo朝下安装到天线座。

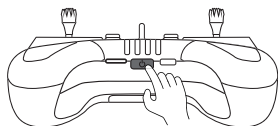


2. 安装弹片，拧好两颗螺丝



3. 将天线的ipex接口接到高频头上，将高频头上的拨码开关拨至EXT，安装遥控器后盖完成外置天线安装。

六、对频 (ELRS)



长按电源按键2秒

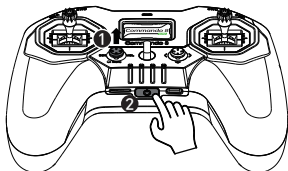
遥控器对频操作流程：

1. 接收机反复通电三次，蓝灯闪烁两次代表进入对频模式。
2. 遥控器在开机状态下，长按电源按键2秒，此时遥控器蜂鸣器发出“滴滴滴”连续三声，代表进入对频模式。
3. 对频成功后，接收机和遥控器状态灯均为蓝灯常亮。

七、固件刷写模式

一、进入高频头固件刷写模式

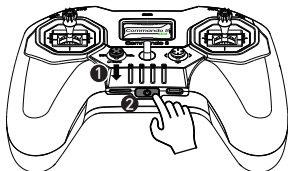
1. 按住左五维按键的↑键，再长按电源键，直至电量显示灯两两左右闪烁，即可进入线刷高频头模式，长按电源键可退出刷写模式



- ① 按住五维按键↑键
- ② 长按开机键

二、进入遥控器主板固件刷写模式

1. 按住左五维按键的↓键，再长按电源键，直至电量显示灯滚动闪烁即可进入线刷遥控器主板模式，长按电源键可退出刷写模式



- ① 按住五维按键↓键
- ② 长按开机键

*详细刷写过程见iFlight官方视频教程

八、有线模拟器

开机后使用数据线连接电脑自动进入模拟器模式



九、摇杆模式切换及校准

1、摇杆左右手切换：

左手油门切换右手油门：

-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。

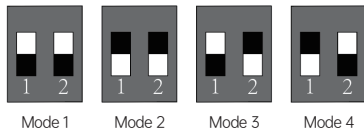
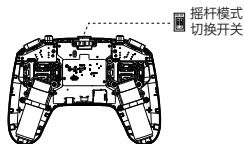
-拧紧右手回中切换螺丝，直至右手不回中，再旋回一圈。

-调节右手摇杆阻力螺丝。



2、Commando8 Lite默认出厂摇杆模式为Mode2，用户可根据自己的使用习惯进行模式切换，摇杆模式切换方法如下：

-拆卸高频头盖板，可以看到一个2位拨码开关，按照下图将开关拨至指定位置，即可切换摇杆模式。



3、摇杆校准



开机状态长按右侧的五维按键两秒，第一颗LED灯将开始闪烁这表明已经进入了摇杆校准过程。



校准摇杆时请勿打圈

短按右侧的五维按键，第二颗LED灯将开始闪烁同时将摇杆放至物理中位

再次短按右侧的五维按键，第三颗LED灯将开始闪烁此时开始移动摇杆，并确保两个摇杆都达到最大与最小行程。

再次短按右侧的五维按键，第四颗LED灯将开始闪烁遥控器已记录摇杆行程大小，长按两秒退出摇杆校准。

十、产品规格

重量: 275g±10

规格尺寸: 118*165*72mm

传输频率: 2.400GHz-2.480GHz

发射功率: 100mW

发射器模块: ELRS 2.4GHz

支持的协议: ELRS

通道数: 8通道 (4摇杆+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: 5℃至40℃

电池类型: 锂离子电池

容量: 3.7V 2000mAh 7.4Wh*2

能量: 14.8Wh

CONTENT

- I. Introduction
- II. Power On/Off
- III. Battery Level Indicator
- IV. Charging Instructions
- V. Antenna Switching
- VI. Binding Instructions
- VII. Firmware Flashing Mode
- VIII. Wired Simulator
- IX. Gimbal Mode and Calibration
- X. Product Specifications

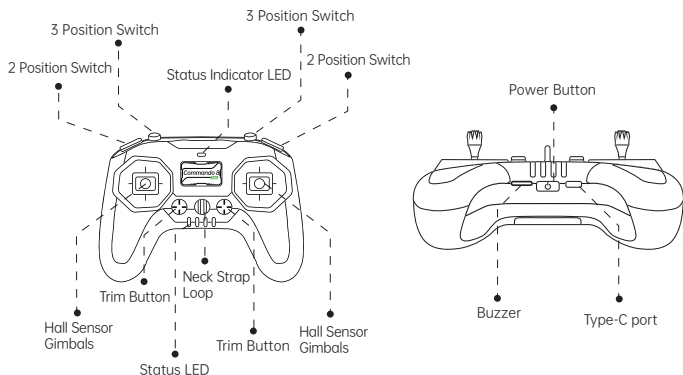
Disclaimer

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

Commando 8 Lite is an FPV remote control with a self-developed system. The simple and convenient design allows users to get started quickly. Standard Hall Sensor Gimbal improves the smoothness and accuracy of flight operations. Built-in ELRS (ExpressLRS) 2.4GHz 100mW RF module provides strong support for stability and response speed. In addition to the standard configuration, this remote control also has certain extensibility and can achieve longer flight distances by adding an external antenna. Built-in antenna and removable stick ends make it easier to carry.

The Commando 8 Lite remote control is not only suitable for beginners but also provides a more efficient and convenient flying experience for senior FPV users.



5-Axis Menu Button Definition

Left Trim



Press twice the button to trim back to the center

Right Trim

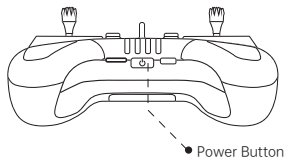


Press twice the button to trim back to the center

Press and hold to enter gimbal calibration mode

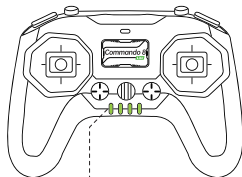
II. Power On/Off

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.

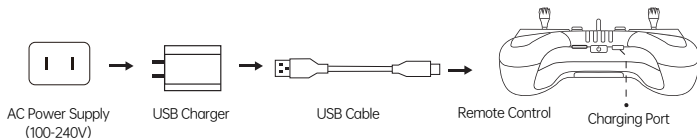
IV. Charging Instructions

It is recommended to use a standard USB charger of 10W or above that supports a 5V 2A power supply.

Commando 8 Lite has a built-in 3.7V Li-ion battery and supports Type-C charging. The nominal battery voltage is 3.7V and the maximum voltage is 4.2V.

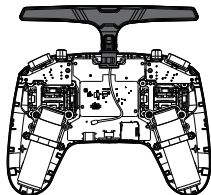
Don't charge damaged or faulty cells and do not charge it unattended. Charge in a safe area away from flammable materials.

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

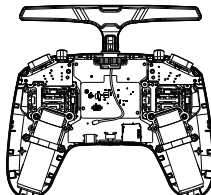


V. Antenna Switching (Additional Installation Required)

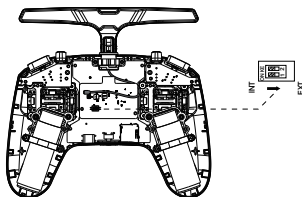
External antenna installation (optional):



1. Remove the back cover of the remote control and unfold the antenna. Install the antenna into the bracket with the logo facing downwards.

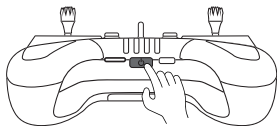


2. Install the metal dome and tighten two screws.



3. Connect the ipex port of the antenna to the RF module, and set all DIP switches on the RF module to the EXT position. Install the back cover of the remote control to complete the installation of the external antenna.

VI. Binding (ELRS)



Press and hold the power button for 2 seconds

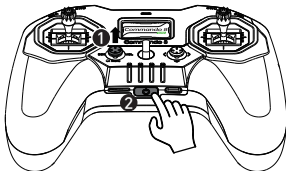
Remote Control Binding Process:

1. Power up the receiver three times, the blue light blinks twice indicating the binding mode.
2. When the remote control is powered on, press and hold the power button for 2 seconds, then the remote control buzzer will start to beep three times, indicating it enters the binding mode.
3. After binding successfully, both the receiver and the remote control status LED will turn solid blue.

VII. Firmware Flashing Mode

Entering RF module firmware flashing mode

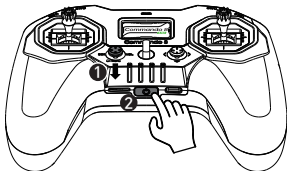
1. Press the ↑ key of the left 5-Axis menu button, and press and hold the power button until the battery status LED flashes twice, then enter the wired flashing RF module mode. Press and hold the power button to exit the flashing mode.



- ① Press the ↑ key of the 5-Axis menu button
- ② Press and hold the power button

Enter the remote control mainboard firmware flashing mode

1. Press the ↓ key of the left 5-Axis menu button, and press and hold the power button until the battery status LED scrolling flash, then enter the wired flashing remote control mainboard mode, press and hold the power button to exit the flashing mode.

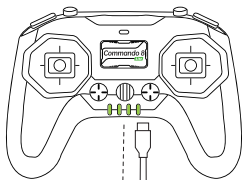


- ① Press the ↓ key of the 5-Axis menu button
- ② Press and hold the power button

*For more specific flashing process please refer to iFlight tutorial on the official website.

VIII. Wired Simulator

Power on the remote control, then connect the computer with a USB-C cable and automatically enter simulator mode.



① Power on

② Connect with a USB-C cable

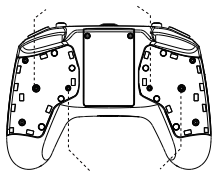
IX. Gimbal Mode and Calibration

1. Example: Mode1 to Mode2

- 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.

Resistance screw

Tighten to increase the resistance,
loosen to reduce the resistance

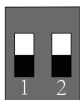
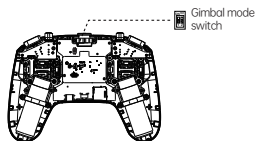


Centering switch screws

Tighten for throttle use, Loosen for self centering

2. The default MODE for the Commando 8 Lite is Mode2, users can switch the mode according to their own habits, the throttle stick mode switching method is as follows

-Disassemble the RF module cover, you can see a 2-digit DIP switch, set the switch to the specified position according to the diagram below to switch the stick mode.



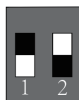
Mode 1



Mode 2



Mode 3



Mode 4

3. Gimbal Calibration



Press and hold the right 5-Axis menu button for two seconds when the remote is powered on, the first LED will start flashing, this indicates entering the gimbal stick calibration process.

Press the right 5-Axis menu button and the second LED will start flashing while placing the stick in the physical center position.



Do not circle when calibrating the sticks

Press the right 5-Axis menu button again, and the third LED will start flashing, then move the stick at this point and make sure that both sticks reach the maximum and minimum strokes.

Press the right 5-Axis menu button again, and the fourth LED will start flashing, the remote control has recorded the size of the stickstrokes, press and hold for two seconds to exit the calibration.

X. Product Specifications

Weight: 275g±10

Size: 118*165*72mm

Frequency: 2.400GHz-2.480GHz

Output Power: 100mW

Transmit Module: ELRS 2.4GHz

Supported Protocol: ELRS

Channels: Up to 8 channels(4 gimbals+4 switches)

Gimbal: High precision hall sensor gimbals

Operation Temperature: 0° to 40°C

Charging Temperature: 5° to 40°C

Battery Type: Lithium-ion battery

Batteries: 3.7V 2000mAh 7.4Wh*2

Capacity: 14.8 Wh



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