CADDXFPV ALINK

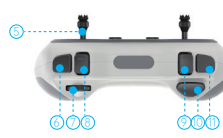
User Guide

V1.4



■ Part Name





1. Linking Button
2. Indicator Light
3. Type-C
4. Power Button
5. Control Joystick
6. SD Momentary Button
7. S1 Limit Roller
8. SC 3-position Switch
9. SB 3-position Switch
10. SE Latching Button
11. SA Momentary Button

■ This product is equipped with a built-in ELRS 2.4GHz RF module and a 10-channel RC model remote controller. It can be used to control any RC model equipped with an ELRS 2.4GHz receiver.

■ CADDXFPV Alink Remote Controller Operating Instructions

① Power Button

The round button on the right side of the front panel of the remote controller is the power button. The operation method is as follows:

1) When the remote controller is off, short press the power button to display the remaining battery level (refer to the indicator lights).
2) When the remote controller is off, long press the power button. When the four lights turn on in sequence and remain solid, and the "do-re-mi, do-mi" sound is heard, the controller is powered on.
3) When the remote controller is on, short press the power button to mute the receiver disconnect alert sound. When the remote controller is on, long press the power button. When the four lights turn off in sequence and the "mi-re-do" sound is heard, the controller is powered off.

② Linking, the operation method is as follows:

1) Press and hold the power button to turn on the remote controller;
2) Press and hold the binding button until the indicator light flashes twice;
3) Center all sticks and trim wheels (the trim wheels have a tactile "click" at the center);
4) Press the binding button once briefly; the indicator light will flash alternately twice;



5) Rotate each joystick to its maximum range in sequence (the two joysticks cannot be operated at the same time). After completion, all indicator lights will turn on.



6) Move the trim wheels through their maximum range from the center to both left and right sides twice.
7) Press and hold the binding button again; the buzzer will play "do re mi," and the indicator lights will return to the battery-level display, indicating that the calibration is complete.



③ Joystick Layout

The product is factory-set to Mode 2 (American style), with the first four channels in the order A, E, T, R, as shown below:



1) [CH1] — AIL: Controls roll, causing the Drone to move left or right during flight.
2) [CH2] — ELE: Controls pitch, causing the Drone to move forward or backward during flight.
3) [CH3] — THR:Controls the throttle, causing the Drone to ascend or descend during flight.
4) [CH4] — RUD: Controls yaw, causing the Drone to turn left or right during flight.

Note: In POSHOLD mode, the throttle is incremental—center for hover, push up to ascend, push down to descend. In Angle mode and Acro mode, the throttle is direct—how much you push determines motor speed. Precise throttle control is required to operate the Drone in these modes.

④ Function Switches

In addition to the four joystick channels, this product provides six extra channels for use: five buttons on the front panel of the remote controller and one rotary knob. The corresponding functions for these switches are pre-configured at the factory, as shown below:



1) SA — Spring-loaded Button (CH6): Used to activate the buzzer function.
2) SB — 3-Position Toggle Switch (CH7): Used to switch flight modes.
3) SC — 3-Position Toggle Switch (CH8): Used to control LED lights to turn on or off.
4) SD — Spring-loaded Button (CH9): Used to toggle the Turtle (FLIP) mode.
5) SE — Latching Switch (CH5): Used to arm/disarm the Drone.
6) S1 — Limited Rotary Wheel (CH10)

Note: Mode switching and Turtle function (see 3. User Guide > 3.1 PROTOS > 3.1.6 Flight / Function Modes ④) should be tested only in a safe flying environment (see 2. Pre-flight Preparation > 2.1 Flight Safety / 2.2 Flight Restrictions). Please take note.

⑤ FPV Flight Simulator

This product can be directly connected to a computer using a Type-C data cable. The Type-C port is located at the center of the back of the remote controller. Once connected, you can use an FPV simulator for practice.

■ Battery Life and Charging Operations

① Battery Level Indicator

Located at the center of the front panel of the remote controller, there are four indicator lights. When powered on, they display the remaining battery level by default. From left to right, the four lights indicate:

(1)10-25% (2) 26-50% (3) 51-75% (4) 76-100%

A solid light indicates the current battery range, while a flashing light indicates the battery is approaching the threshold of that range.

② Battery Life

When fully charged, the remote controller can operate for approximately 3 hours. If left inactive for a long time, it will emit two short "beep-beep" sounds at intervals, and the indicator lights will flash. When the battery is low, it will beep intermittently. At this point, the remote should be charged promptly to avoid automatic shutdown during use, which could cause the Drone to lose control.

③ Charging

When the remote controller is powered off, it can be charged using the included power adapter and Type-C cable. During charging, the power status can be monitored via the battery level indicator lights.

■ Precautions / Important Notes

① Located at the center of the front panel of the remote controller is a small oval hole, which serves as the buzzer sound outlet. Do not insert sharp objects into this hole, as it may damage the buzzer.

② The gray elongated area at the center of the front panel is the cover for the extension antenna. Installing other high-gain antennas requires removing the back cover of the remote controller. If you are a beginner or not an experienced user, we do not recommend installing other antennas yourself. Any consequences resulting from such attempts are not the responsibility of CADDXFPV, please be aware.

■ Declaration for Micro-power Short-range Devices

① Compliance with specific clauses and usage scenarios outlined in the "Catalog and Technical Requirements for Micro-power Short-range Radio Transmission Equipment," including the types and performance of antennas used, as well as methods for control, adjustment, and switching.
② Unauthorized changes to usage scenarios or conditions, expansion of transmission frequency ranges, increase of transmission power (including the addition of external RF power amplifiers), and modification of transmission antennas are prohibited.
③ The device must not cause harmful interference to other lawful wireless stations, nor shall it claim protection against such interference.
④ The device must tolerate interference from industrial, scientific, and medical (ISM) applications emitting radio frequency energy, as well as interference from other lawful wireless stations.
⑤ If harmful interference is caused to other lawful wireless stations, use of the device must cease immediately and may only resume after measures have been taken to eliminate the interference.
⑥ When using micro-power devices within electromagnetic protection areas, such as aircraft, radio astronomy observatories, meteorological radar stations, satellite earth stations (including tracking, telemetry, control, ranging, reception, and navigation stations), and military or civilian wireless stations delineated by laws, regulations, national standards, or related provisions, compliance with electromagnetic protection requirements and regulations of the relevant industry authorities is mandatory.
⑦ The use of all types of model remote controllers is prohibited within a 5,000-meter radius centered on the airport runway.
⑧ Environmental conditions, such as temperature and voltage, during the operation of micro-power devices must be adhered to.

■ Product Specification

Model	C0PJ-YK020
FCC ID	2BHG9-C0PJ-YK020
Main Control Chip	AT32 F413RCT7
RF Module	ELRS 2.4GHZ
RF Protocol	CRSF
Max RF Power	100mW (20dB)
Number of Available Channels	10 Channels (including 4 joystick channels)
Joystick Type	Full-Bearing Hall-Sensor Joystick Assembly
Function Switch	1 x Latching Button / 2 x Momentary Buttons / 2 x 3-Position Toggle Switches / 1 x Scroll Wheel
Status Indicator Module	4 x Status Indicator LEDs / Buzzer
Charging & Communication Interface	USB-Type C
Battery Specification	Lipo 1s 1000mAh
Max Charging Power	5V / 1A / 3.50W
Charging Time	≈90:00 min
Operating Voltage Range	DC 3.50V~4.20V
Dimensions	158mmx108mmx58mm
Weight	180g±5g

FC FCC ID 2BHG9-C0PJ-YK020

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipmen.

*RF warning for Mobile device:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

CADDXFPV ALINK

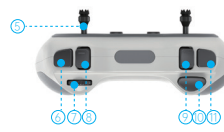
用户手册

V1.4



■ **部位名称**





1. 对频按键
2. 状态指示灯
3. Type-C 接口
4. 电源键
5. 飞行摇杆
6. SD 回弹按钮
7. S1 限位滚轮
8. SC 三段开关
9. SB 三段开关
10. SE 自锁按钮
11. SA 回弹按钮

■ **该产品为内置ELRS 2.4GHz射频模块，10通道RC模型遥控器，可对频控制任何搭载了ELRS 2.4GHz 接收机的RC模型进行遥控操作。**

■ **CADDXFPV Alink遥控器操作说明**

① 电源按钮

遥控器正面板上右侧圆形按钮为电源按钮，操作方式如下—

1) 关机状态下，短按电源按钮，显示遥控器当前剩余可用电量（参考灯显提示）。
2) 关机状态下，长按电源按钮，待四灯依次亮起并常亮，发出"do-re-mi，do-mi"时为开机。
3) 开机状态下，短按电源按钮，关闭接收机断连提示音。

开机状态下，长按电源按钮，待四灯依次熄灭并发出"mi-re-do"时为关机。

② 对频/校准按钮

1) 长按开关按钮，开启遥控器；
2) 长按对频按钮直至指示灯闪烁两次；
3) 将所有摇杆和限位滚轮居中位 (限位滚轮归中位有顿感)；
4) 短按对频按钮一次，指示灯交替闪烁两次；



5) 依次最大活动旋转摇杆 (两个摇杆不可时进行)，完成后指示灯全部亮起；



6) 限位滚轮最大范围从中位往左右两侧旋钮活动两次；
7) 再次长按对频按钮，蜂鸣器发出"do re mi"，指示灯恢复电量显示状态，即校准完成。



③ 摇杆组

产品出厂状态为美国手，即前四通道顺序为"A、E、T、R"，如下图所示—



1) [CH1] — AIL: 对应姿态动作横滚（Roll），体现为飞行中左/右横移。
2) [CH2] — ELE: 对应姿态动作俯仰（Pitch），体现为飞行中前进/后退。
3) [CH3] — THR: 对应油门值，体现为飞行过程中上升/下降。
4) [CH4] — RUD: 对应姿态动作偏航（Yaw），体现为飞行中左/右转向。

需注意，定点模式(POSHOLD)的油门为渐进式油门，即居中悬停、抬高上升、压低下降；运动模式(ANGLE)与特技模式(ACRO)则为直接式油门，即油门推多少，电机转多快，需要精确控制油门量操作飞行器，请悉知。

④ 功能开关

除摇杆组的四通道外，该产品还有额外六个通道可供使用，即遥控器前面板的五个按钮与一个旋钮。且在产品出厂时，默认已经设置了对应功能的开关，如下图所示—



1) SA — 回弹按钮，对应[CH6]，用于启动蜂鸣器功能
2) SB — 三段式船型开关，对应[CH7]，用于切换飞行模式
3) SC — 三段式船型开关，对应[CH8]，用于控制 LED灯亮起或熄灭
4) SD — 回弹按钮，对应[CH9]，用于切换反马龟(FLIP)模式
5) SE — 自锁开关，对应[CH5]，用于解锁/上锁
6) S1 — 限位滚轮，对应[CH10]

请注意，模式切换与反马龟功能（参考3.使用说明> 3.1PROTOS飞行器>3.1.6飞行 / 功能模式④说明），并在安全的飞行环境下进行尝试（参考2.飞行前准备>2.1飞行安全 / 2.2飞行限制说明），请您悉知。

⑤ FPV飞行模拟器

该产品可用Type-C数据线与电脑直连，Type-C接口位于遥控器后侧中央，连接后可直接使用FPV模拟器进行练习。

■ **续航及充电操作**

① 电量指示

位于遥控器正面板中央，有四颗指示灯，开机时默认为可用剩余电量显示，四灯从左至右依次指示电量为：

(1)10-25% (2) 26-50% (3) 51-75% (4) 76-100%

常亮为当前指示灯范围值，闪烁时代表接近该指示灯的临界电量。

② 续航时间

遥控器处于满电状态下，续航时间约为3小时。当遥控器长时间无操作时，会间隔发出两声"滴滴"短响进行提示，且指示灯闪烁；当遥控器电量不足时，会间隔短响，此时应及时进行充电，避免电量不足，在使用中自动关机，导致飞行器失控。

③ 充电

遥控器关机状态下，可使用套装内的电源适配器与Type-C电源线进行充电，充电时的电源指示可参考电量指示灯说明。

■ **注意事项**

① 位于遥控器正面板中央，有一椭圆形小孔，此孔为蜂鸣器出声孔。请勿使用尖锐物品戳入该孔！这可能导致蜂鸣器损坏。

② 位于遥控器前面板中央的灰色长条区域，为扩展天线盖板。安装其他增益天线需拆卸遥控器后盖，若您是初学者而非熟练使用者，我们不推荐自行安装其他增益天线。若您执意进行尝试，由此造成的一切后果，CADDXFPV官方对此不承担任何相关法律责任，请您悉知。

■ **微功率短距离设备声明**

① 符合"微功率短距离无线电发射设备目录和技术要求"的具体条款和使用场景，采用的天线类型和性能，控制、调整及开关等使用方法；
② 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；
③ 不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；
④ 应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；
⑤ 如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；
⑥ 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；
⑦ 禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器；
⑧ 微功率设备使用时温度和电压的环境条件。

■ **参数规格**

型号	C0PJ-YK020
FCC ID	2BHG9-C0PJ-YK020
主控芯片	AT32 F413RCT7
射频模块	ELRS 2.4GHZ
射频协议	CRSF
最大射频功率	100mW (20dB)
可用通道数量	10CH (包括摇杆组4CH)
摇杆类型	全轴承霍尔感应式摇杆总成
功能开关	自锁按钮x1/回弹按钮x2/三段式船型按钮x2/滚轮x1
状态提示模组	状态指示灯x4/蜂鸣器
充电及通信接口	USB-Type C
电池规格	Lipo 1s 1000mAh
最大充电功率	5V / 1A / 3.50W
充电时长	大约 90:00 min
工作电压范围	DC 3.50V~4.20V
尺寸	158mmx108mmx58mm (手工测量存在误差)
重量	180g±5g

FC FCC ID 2BHG9-C0PJ-YK020

本设备经过测试，符合 FCC 规则第 15 部分中针对 B 类数字设备的限制要求。这些限制旨在为住宅安装环境提供对有害干扰的合理防护。本设备会产生、使用并可能发射射频能量，如果未按照说明书安装和使用，可能会对无线电通信造成有害干扰。然而，无法保证在特定安装情况下不会发生干扰。如果本设备确实对无线电或电视接收造成有害干扰（可通过开关设备来判断），建议用户尝试通过以下一种或多种方法消除干扰：

-- 重新调整或移动接收天线的位置；
-- 增加设备与接收器之间的距离；
-- 将设备连接到与接收器不同回路的电源插座；
-- 向经销商或有经验的无线电/电视技术人员咨询帮助。

本设备符合 FCC 规则第 15 部分的要求。设备的操作需满足以下两个条件：
(1) 本设备不得产生有害干扰；
(2) 本设备必须接受所接收到的任何干扰，包括可能导致设备异常操作的干扰。

未经负责合规方明确批准的更改或修改，可能导致用户操作本设备的授权失效。

射频（RF）警告 — 移动设备：
本设备符合 FCC 针对非受控环境设定的辐射暴露限制要求。本设备的安装与操作应保证辐射体与人体之间的最小距离为 20 厘米。