

CADDXFPV ALINK

User Guide

V1.6



■ Part Name



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|--------------------|------------------------|--------------------------|
| 1. Linking Button | 5. Power Button | 9. SC 3-position Switch |
| 2. Indicator Light | 6. Control Joystick | 10. SB 3-position Switch |
| 3. Type-C | 7. SD Momentary Button | 11. SE Latching Button |
| 4. Antenna | 8. S1 Limit Roller | 12. 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:

- 1) Press and hold the power switch to turn on the remote controller;
- 2) Press and hold the bind button until the buzzer emits two "mi-mi" beeps.



③ Calibration:

- 1) With the power off, return all sticks to the center position (limit wheels do not require calibration).
- 2) Briefly press the bind button and the power button at the same time. The buzzer will emit three beeps ("do-mi-do") to enter calibration mode.
- 3) After entering calibration mode, do not operate the sticks. The status LEDs will flash while the center points are being calibrated. Once center-point calibration is complete, the buzzer will emit two beeps ("do-mi-do"), and the status LEDs will turn off.
- 4) Move the sticks through their full travel (this can be done simultaneously). During movement, the status LEDs will light up sequentially according to the stick travel, activating the corresponding channel LEDs (for example, when throttle calibration is completed, the third LED from left to right will light up).
- 5) When all status LEDs are lit, calibration is complete. Press and hold the power button to power off and save the settings.



④ 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.

⑤ 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 (Emits two "mi-mi" beeps when powered on, and a "do" beep when powered off)
- 2) SB — 3-Position Toggle Switch (CH7): Used to switch modes (Three-position mode corresponds to low, mid, and high levels. Upon power-on, the low level is indicated by "do", the mid level by "re-re", and the high level by "mi-mi-mi")
- 3) SC — 3-Position Toggle Switch (CH8): Used to adjust the rate in Acro (ACRO) mode (Three-position mode corresponds to low, mid, and high levels. Upon power-on, the low level is indicated by "do", the mid level by "re-re", and the high level by "mi-mi-mi")
- 4) SD — Spring-loaded Button (CH9): Used to toggle the Turtle (FLIP) mode (Emits two "mi-mi" beeps when powered on, and a "do" beep when powered off)
- 5) SE — Latching Switch (CH5): Used to arm/disarm (Emits two "mi-mi" beeps when powered on, and a "do" beep when powered off)
- 6) S1 — Limited Rotary Wheel (CH10)

Please note the mode switching and turtle mode functions (refer to Protos Manual > 3. Instructions > 3.1 PROTOS > 3.1.6 Function Mode ④). Please test these functions in a safe operating environment (refer to Protos Manual > 2. Pre-Use Preparation > 2.1 Safety instructions / 2.2 Usage Limitations). Thank you for your attention.

⑥ FPV 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, 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	COPJ-YK021
FCC ID	2BHG9-COPJ-YK021
Main Control Chip	AT32 F413RCT7
RF Module	ELRS 2.4GHZ
RF Protocol	CRSF

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	158mmx108mmx68mm
Weight	180g±5g

FC FCC ID 2BHG9-COPJ-YK021

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 harmful 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 equipment.

* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.