ZOHD





FULL SCALE PROTECTION FOR THE RC PILOT:

Warbirds, EDF's, Twins, Gliders, you name it; KOPILOT Lite will be there when things get ugly, bringing your plane HOME!

The ZOHD Kopilot Lite is a miniaturized, lightweight flight controller designed to give peace of mind to any RC pilot. Supports the following features:

- One-click Return to Home (RTH), Fence Mode (RAD) and Stabilization Mode.
- Can be implemented on any type of fixed-wing RC plane, from conventional T-tail planes and Flying Wings / Delta layouts to V-tail.
- Extremely light weight (main unit weights 12 grams and the GPS module weights 8 grams), can be installed without affecting the flying characteristics of your plane in a non-intrusive way.

Package Contents

Kopilot main board	1 pc
Mounting support	1 pc
GPS	1 pc
Adjustment board	1 pc
Double side tape	1 pc
Screw driver	1pc

NOTE: Don't forget to check our NEW All-In-One camera, the VC400 (400mW in 5.8G). Matched with KOPILOT Lite, will give you a full FPV experience!



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LED Configuration Reference

LED2

Constant off

Constant on

Constant on

LED1

Constant on

Constant off

Constant on

Setup





User Manual: V1.0



GPS LED Status Table

Selected type of plane	GPS	GPS Status
V-Tail	Constant off	GPS not connected
T-Tail	Blink	GPS not fixed
Flying Wing / Delta Wing	Constant on	GPS fixed



Connecting the radio receiver to Kopilot US and PWM can be used but not both at the same tin SBUS connection PWM connection 1)—AIL 2-ELE XM+ 3—THR (4)-RUD SBUS/PPM input G-MODE (1) (2) (3) (4) (5)

SET O

ELE RAD

Adjustment Board

AIL

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Flight Mode Settings

The ZOHD Kopilot Lite supports 5 different flight modes. The flight mode is determined by the mode switch, GPS status, RTH / RAD knob together, regarding knob status, please check the "Fence mode (RAD) setting and return to home (RTH) setting" on the right side. After configure the radio mode switch, you can configure the preferred flight mode according to the table below.

LED	GPS status	RTH/RAD Knob position	mode	Mode description
Constant on			Balance mode	Radio will control the plane roll and pitch, also throttle, when the joystick go back to neutral, plane will keep level flying
Constant off			Manual mode	In this mode the Kopilot is just a mixer, it doesn't take part in the control, just like normal manual flying
Blink	Not positioned or not connected		Keep altitude	Self maintains altitude, throttle controlled by manual, plane will automatically climb if it is lower than 35m, when joystick go back to neutral, plane will keep balance flying and keep the current height
Blink	already positioned	RTH position	Return to home	One click return home, the plane will return home automatically when it was out of RTH range, this mode can be used for assist hand-launch, you can switch to this mode on ground, pull the throttle to 80%-100%, in this moment the throttle is not activated, when the plane flying speed is >4m/s, the throttle will be activated, you can hand-launch the plane and it will automatically climb to 35m height and auto-hovering in a circle
Blink	already positioned	RAD position	Fence mode	This E-Fence mode is suitable for beginners, the plane will return home automatically when it reach the E-fence, plane will climb automatically when it's lower than the E-fence height

Kopilot Neutral Calibration

In order to maintain a leveled attitude during flight, a stabilized calibration is required, the calibration steps are as follows:

1) Put your plane level, power the plane ;

2) Wait for Kopilot to complete the start-up, set flight mode to the stabilized mode ;

3) Move the sticks of the radio to match the right figure state, waiting for 5s, until the mode indicators 1

and 2 and GPS indicators flash at the same time;

4) Wait until the flashing stops, re-power the plane, calibration completed ;

Radio Calibration

Please switch the flight mode to balance mode, throttle at the lowest position, the other joystick on neutral position, then long press the SET button on the tuning board for more than 3 seconds, do not move the radio and wait for few seconds, the aileron will move for two times, then the calibration finished.

 Δ During the manual flight mode, the plane may need trim from the radio, this may cause the plane fly to one side during balance mode, so you need to re-do the Radio Calibration.

MODE

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FAQ

- Q: I connected the GPS, but the throttle only work on manual mode, it doesn't work on other flight mode.
- A: GPS not fixed, please keep checking the GPS LED status, when it constant on, the throttle will be working. PS: during RTH/RAD mode the throttle will be controlled by the Kopilot.
- Q: I powered on the plane, after the Kopilot working, shortly the motor is working by itself (or the motor keep beeping), what is the reason?
- A: The throttle range is not calibrated, please switch to manual mode, process the throttle range calibration according to the ESC manual.



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