



MYOS Gyroscope Flight Controller Instructions

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MYOS Gyroscope Flight Controller



Product Information

Specification	Value
Working Voltage	4.5-6V
Response Frequency	100Hz
Working Temperature	0-50°C
Size	43*28*15mm
Weight	11g

Product Usage Instructions

Notice for first use:

1. The voltage drop caused by the use of the servo may affect the stability of flight control. Please pay attention to ensure a stable working voltage.
2. For Delta wing/V-tail models, please turn off the internal mixing control of the remote control firstly.
3. If micro adjustments are made during flight, please perform power off and restart or neutral point calibration after landing.

Equipment installation & line connection:

Equipment installation:

1. Install and debug the fixed-wing electronic equipment normally.
2. Place the long side of the flight control device parallel to the fuselage, the label surface upwards, and as close to the center of gravity as possible and glue firmly at the center line.

Line connection (Channel definitions vary for different receivers, please note.):

1. Aileron y-Y-line pattern
2. Left and right aileron are independently controlled (remote control requires to set up double aileron channel, suitable for flap aileron mixing mode)
3. Power test: After about 5 seconds, the three rudder surfaces in the direction of aileron lifting will shake markedly, which means that flight control has been started. The first connection may require a power off restart.

Mode selection/Mode description:

Mode	Description	Signal Light	Roll Speed
Mode-1	Aileron balance mode. This mode keeps the fuselage self-stable and limits the rolling speed of the aircraft. Horizontal and vertical tail assisted stabilization. This mode does not support left and right aileron independent control.	—	Limited
Mode-2	Aileron lock mode. This mode locks the attitude of the aircraft and limits the rolling speed of the aircraft. Horizontal and vertical tail assisted stabilization.	HOLD	Limited
Mode-3	Aileron enhancement mode. This mode locks the attitude of the aircraft and limits the rolling speed of the aircraft slightly. Horizontal and vertical tail assisted stabilization.	HOLD	Fast
Mode-4	Wind Resistant mode. This mode locks the aircraft attitude, horizontal tail, and vertical tail to assist stability.	HOLD	Extremely fast
Mode-5	One-click Rescue Mode. In this mode, the fuselage attitude is adjusted to the level at a faster speed, and then the horizontal tail rudder is raised to pull the body up. This mode needs to keep the switch position, and the switch can be reset after the rescue is completed. This mode still requires throttle control. If the horizontal tail is not raised but lowered, the horizontal tail rudder can be reversed.	CH5 Momentary	—

Product specifications

- Working voltage 4.5-6V
- Response frequency 100Hz
- Working temperature : 0-50°C
- Size : 43*28*15mm
- Weight: 11g



Notice in first use

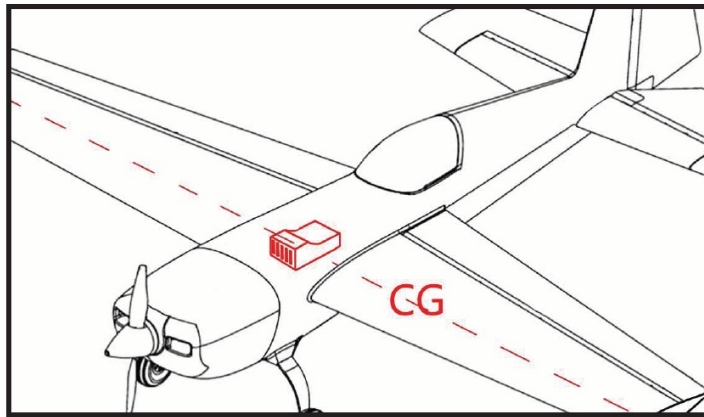
1. The voltage drop caused by the use of the servo may affect the stability of flight control. Please pay attention to ensure a stable working voltage.

2. For Delta wing/V-tail models, please turn off the internal mixing control of the remote control firstly.
3. If micro adjustments are made during flight, please perform power off and restart or neutral point calibration after landing.

Equipment installation & line connection

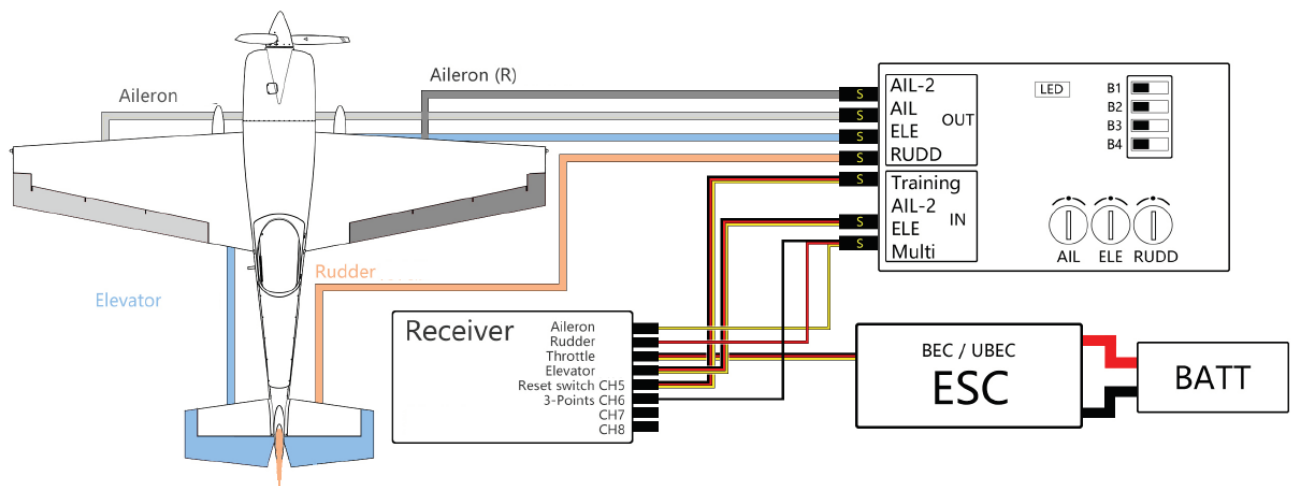
Equipment installation

1. Install and debug the fixed wing electronic equipment's normally.
2. Place the long side of the flight control device parallel to the fuselage, the label surface upwards, and as close to the center of gravity as possible and glue firmly at the center line.

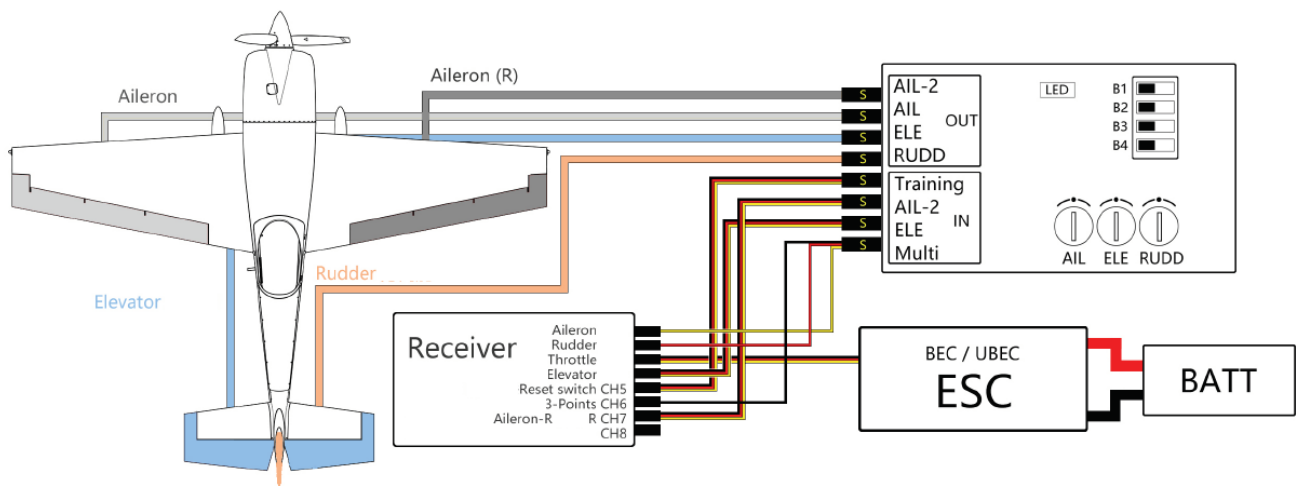


Line connection (Channel definitions vary for different receivers, please note.)

1. Aileron y-Y-line pattern



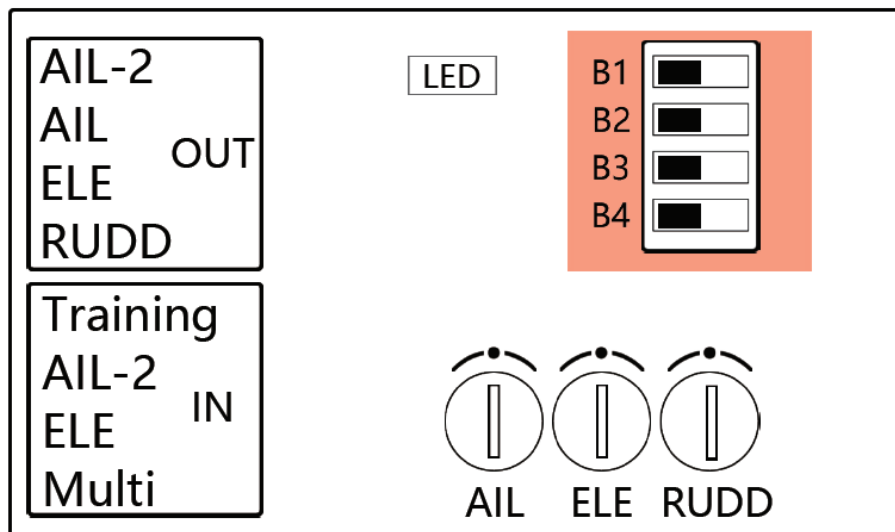
2. Left and right aileron are independently controlled (remote control require to set up double aileron channel, suitable for flap aileron mixing mode)



3. Power test: After about 5 seconds, the three rudder surfaces in the direction of aileron lifting will shake markedly, which means that flight control has been started

The first connection may require a power off restart

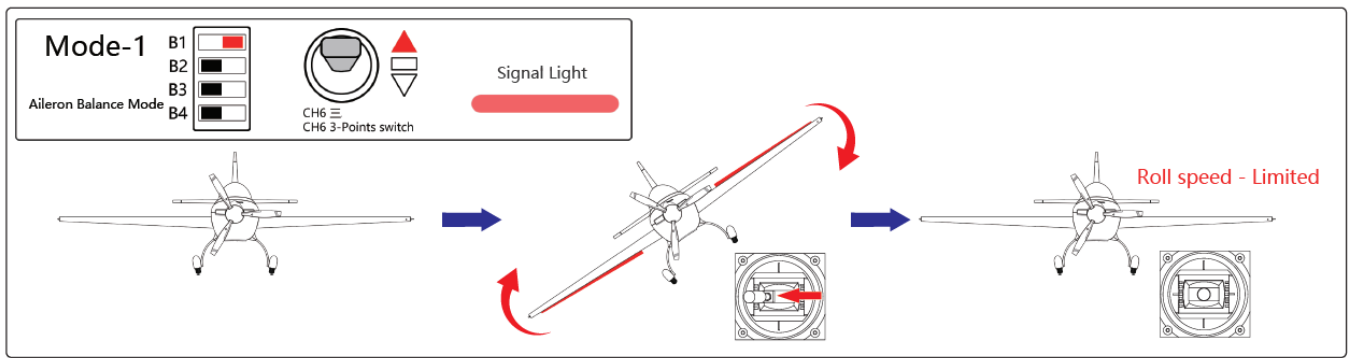
Mode selection/Mode description



Flight mode setting

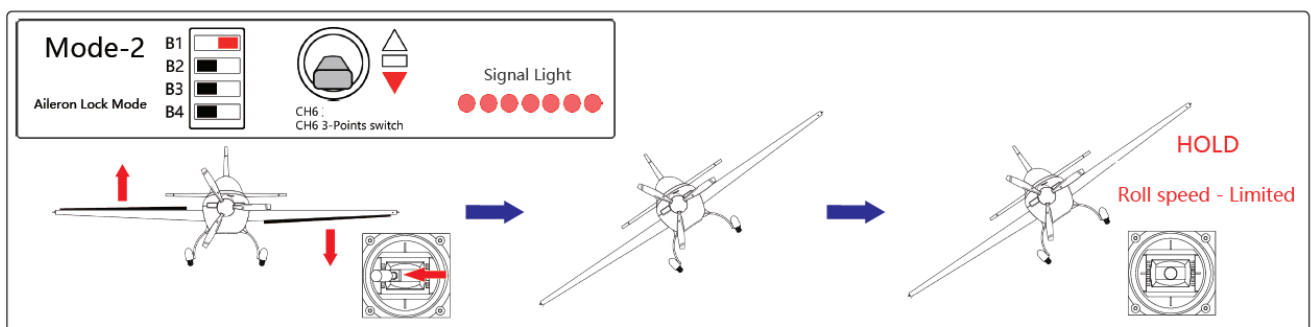
Mode -1 Aileron balance mode

1. This mode will keep the fuselage self-stable and limit the rolling speed of the aircraft; horizontal and vertical tail assisted stabilization.
2. This mode does not support the left and right aileron independent control.
3. The maximum Angle of the aileron in this mode is limited to $\pm 75^\circ$



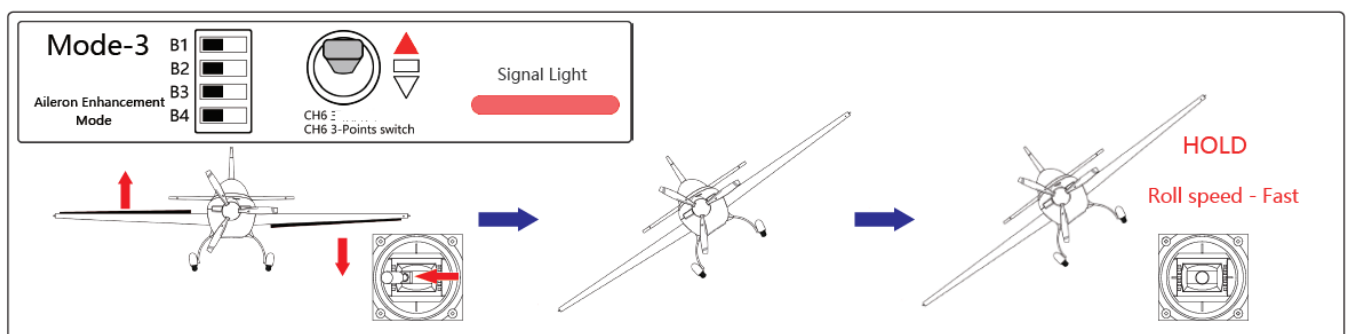
Mode 2 – Aileron lock mode

This mode will lock the attitude of the aircraft and limit the rolling speed of the aircraft. Horizontal and vertical tail assisted stabilization.



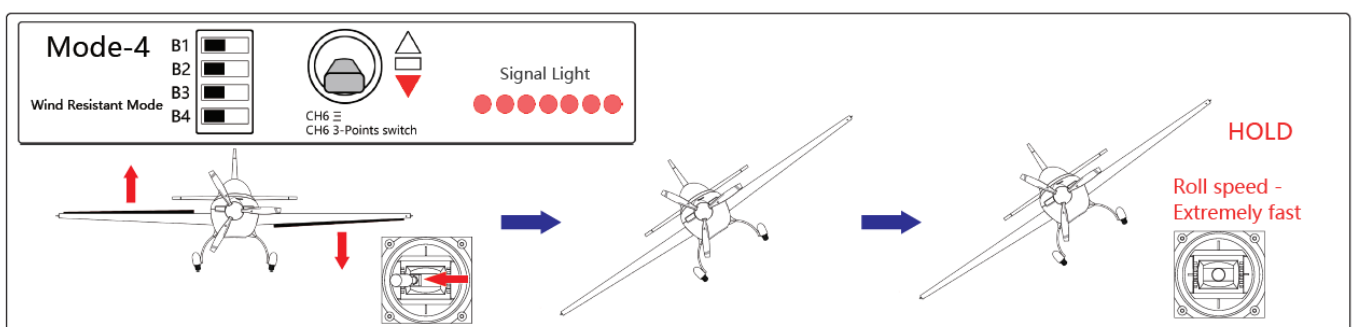
Mode 3 – Aileron enhancement mode

This mode will lock the attitude of the aircraft and limit the rolling speed of the aircraft slightly. Horizontal and vertical tail assisted stabilization



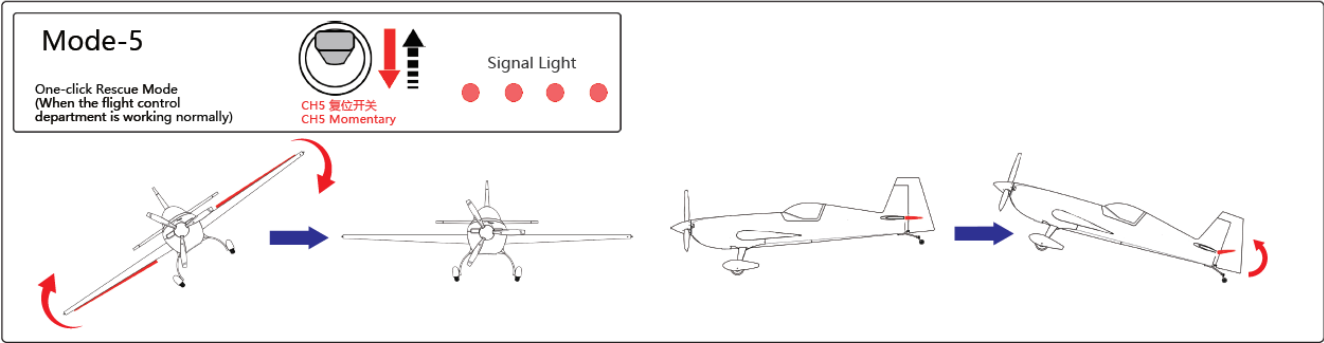
Mode 4 – Wind Resistant mode

This mode will lock the aircraft attitude, horizontal tail and vertical tail to assist stability.

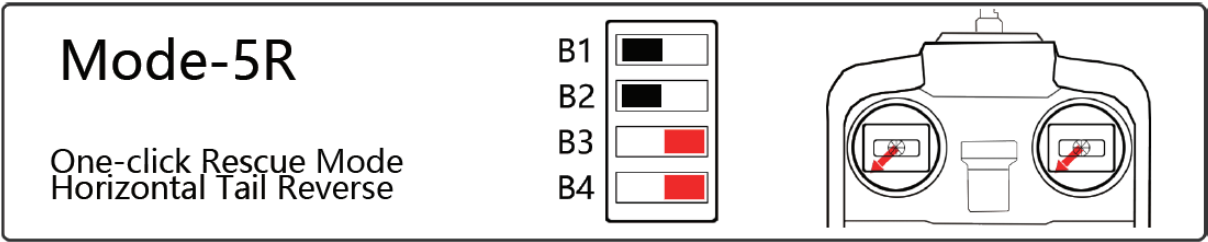


Mode 5 – One-click Rescue Mode

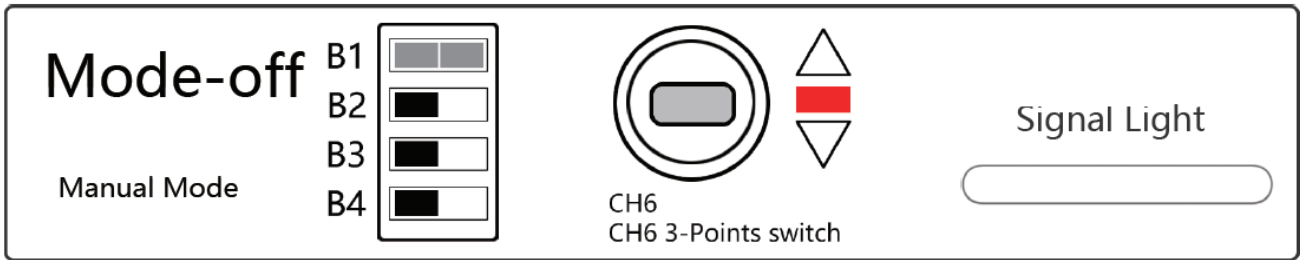
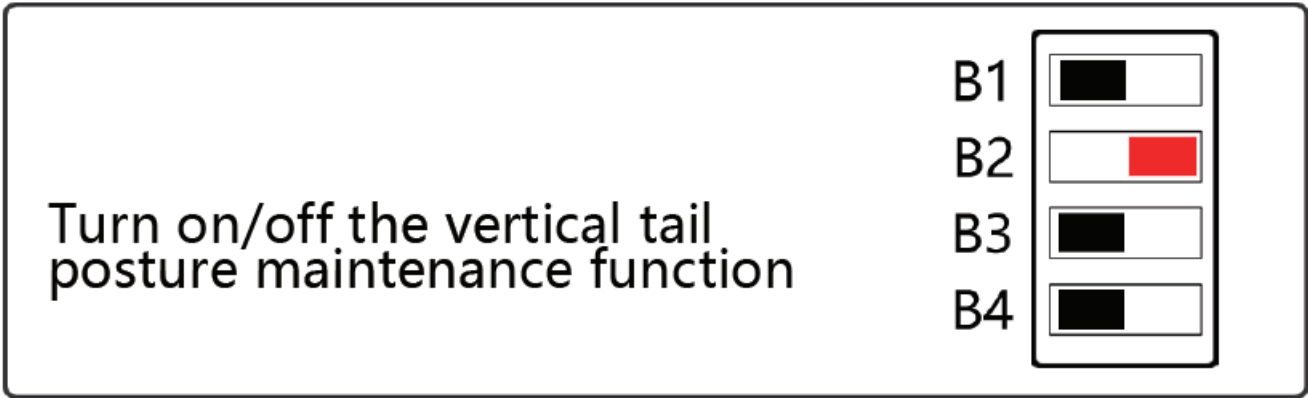
In this mode, the fuselage attitude is adjusted to the level at a faster speed(quickly), and then the horizontal tail rudder is raised to pull the body up.



This mode needs to keep the switch position, and the switch can be reset after the rescue is completed.
This mode still requires throttle control.
If the horizontal tail is not raised but lowered, the horizontal tail rudder can be reversed according to the following method.



Mode-6 The vertical tail attitude lock function is on/off





CH6
CH6 3-Points switch

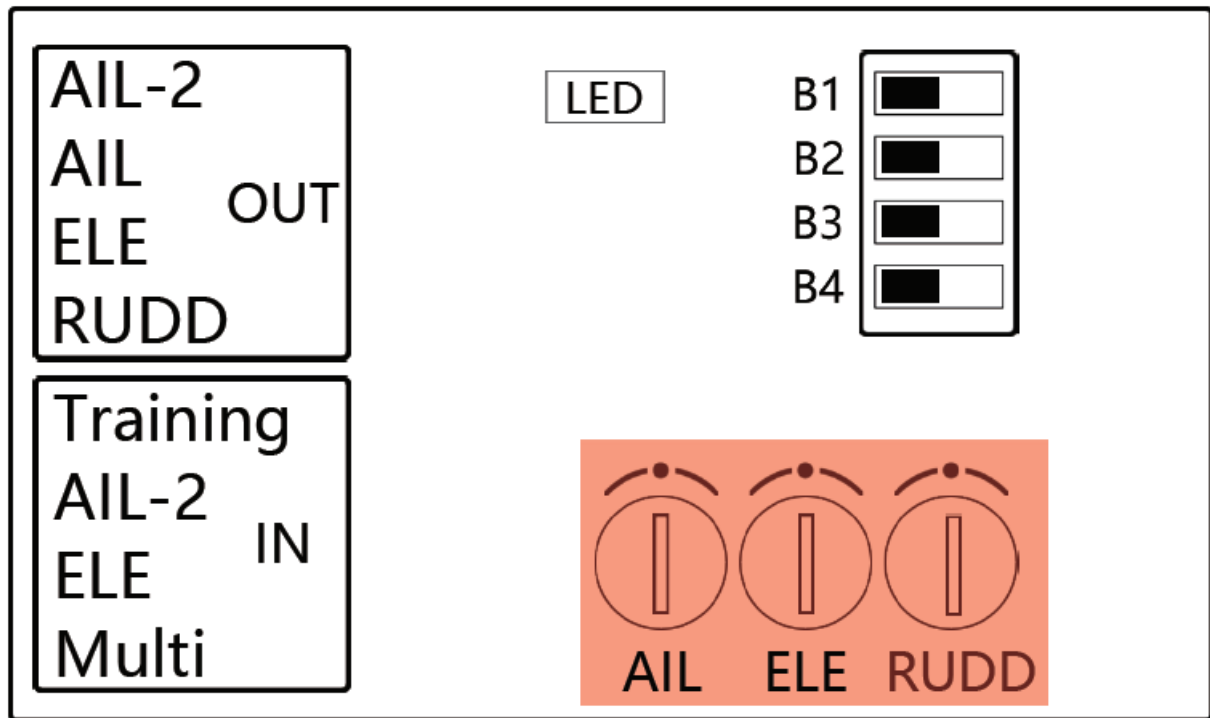


Signal Light

Turn off flight control

In any mode, put the 3-points switch in the middle position to turn off all functions of flight control (including one-click rescue function).

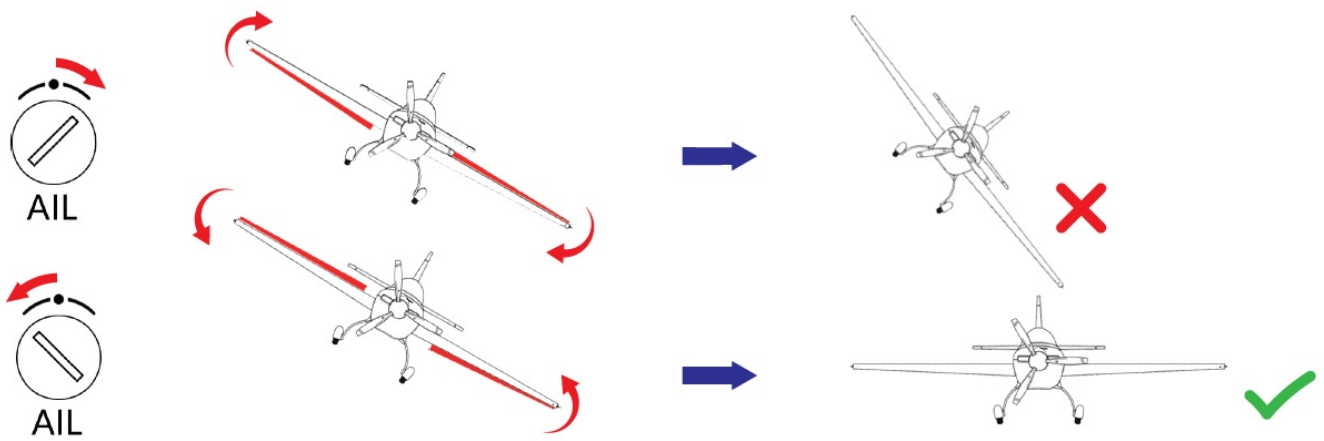
Sensitivity setting



1. Sensitivity setting is an important part of flight control. When the knob is aligned to the 12 point direction, the corresponding channel of flight control does not participate in the work.
2. It is recommended to debug the sensitivity slowly from low to high, and the sensitivity is 0 at 12 o'clock; The closer you get to 5 /7, the greater your sense of direction. Please note that excessive sensitivity can affect flight.
3. Take AIL aileron rudder surface as an example, flight control will start to work when the knob is rotated left/right. The greater the rotation Angle, the higher the flight control sensitivity. When the sensitivity exceeds the threshold, the flight control overcorrects and causes fixed-wing jitter in flight. The threshold is different for different aircraft.
4. In the flight state, if it cannot be locked, the feeling is too low; if the aircraft jitter, the feeling is too high.



5. When the rudder surface is corrected in the opposite direction, please adjust the sensitivity to the other half turn



Select a model

Select the corresponding model, open B3 for delta wing model and B4 for V-tail model.

Mode - Delta wing	B1	<input type="checkbox"/>	Mode- V-tail	B1	<input type="checkbox"/>
	B2	<input type="checkbox"/>		B2	<input type="checkbox"/>
	B3	<input checked="" type="checkbox"/>		B3	<input type="checkbox"/>
	B4	<input type="checkbox"/>		B4	<input checked="" type="checkbox"/>

Save neutral point

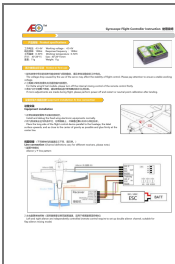
If the steering gear(servo) will drift when switching modes, it can be solved by power off and self-test, or reset the neutral point.

When replacing the new adaptive model or remote control, most need to re-save the neutral point information, quickly switch the mode switch of the remote control three times, (CH6 three-stage switch) will automatically save the current steering gear neutral point.

Other

1. When debugging flight control, please lock the throttle or remove the propeller.
2. Please confirm that the mechanical part is working normally. For example, the longer horizontal vertical connecting rod may affect the flight control rudder surface due to excessive resistance.
3. The faster the speed of the aircraft such as ducted fan aircraft, racing aircraft, etc., the lower the sensitivity to be required; The slower the speed of the aircraft such as training aircraft, gliders, etc. the higher the sensitivity to be required.

Documents / Resources



[MYOS Gyroscope Flight Controller](#) [pdf] Instructions
Gyroscope Flight Controller, Flight Controller, Gyroscope Controller, Controller