

User Instruction of multirotor ESC

Thanks for purchasing brushless electronic speed controller(ESC). Improper operation may cause personal injury and equipment damage. High power system for RC model is dangerous, strongly suggest users read the instruction carefully . We won't assume any responsibility for personal injury ,property damage or consequential damages resulting from our product or our workmanship.

【Features】

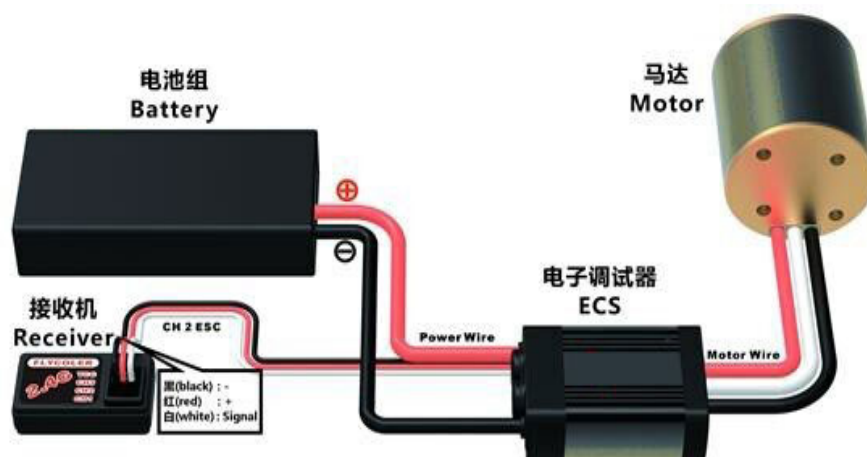
- High performance microprocessor brings out the best compatibility with all kinds of motors and the highest driving efficiency.
- Bear the high temperature up to 100°(degree celsius).
- Unique circuit design,strong anti-interference.
- Smooth linear, quick and precise throttle response.
- Simplify the function setting,the factory default parameter values are compatible with all the multirotor motors in the market.
- Working frequency can be up to 600Hz.
- With the function of throttle signal loss protection.
- High power safety performance:wherever the throttle lever is, the motor won't start immediately.
- Throttle range can be configured to be compatible with all transmitters currently available in the market.

【Specifications】

Normal voltage multirotor ESC (support 2-6S Lipo battery)						
Continuous Current	Burst Current	Battery cells	BEC Mode	BEC output	Weight	Size
20A	35A	2-4S	OPTO/UBEC	5V/3A	25g	55*19*10mm
30A	45A	2-6S	OPTO/UBEC	5V/3A	25g	55*19*10mm
40A	60A	2-6S	OPTO/UBEC	5V/4A	40g	45*28*17mm

【Wiring diagram】

Note: To avoid short-circuit and electric leakage,use heat-shrink pipe to insulate in the connector.

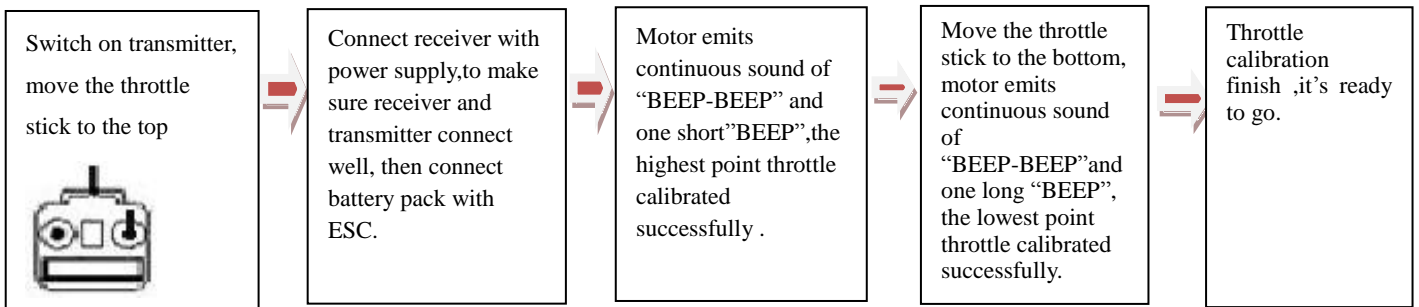


【Throttle range setting】

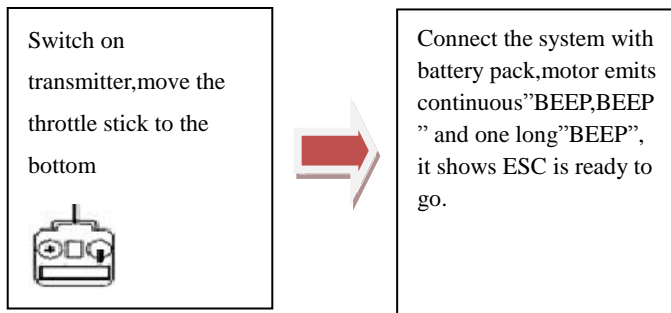
First time to use ESC or change the transmitter, it's necessary to calibrate the throttle.

The procedure of throttle calibration:

Note: Please remove the propeller when setting throttle calibration, to avoid an accident.



【Normal working】



【Program ESC】

Move the throttle stick to the top, ESC enters to the program mode, then switch on the transmitter.

Note: Move throttle stick to the top, ESC enters to program mode, move the throttle stick to the bottom, ESC enters to working mode.

- I. First time to use ESC, please calibrate throttle. Move the throttle stick to the top, then connect battery pack with ESC, motor emits continuous "BEEP-BEEP" and one short "BEEP", it shows ESC enters program mode and restored the value of the top throttle. Then move the throttle stick to the bottom, motor emits continuous "BEEP-BEEP" and one long "BEEP", it shows the value of the bottom throttle restored. ESC entered working mode.
- II. After entering working mode, throttle forward can start motor.
- III. After entering working mode, when throttle stays in the bottom, the propeller will stop.
- IV. Motor rotation direction: Forward/back

As usual, motor rotation direction can be changed by changing random 2 of 3 motor output wires.

【Protection function】

Signal loss protection: When ESC checked the throttle signal loss, ESC will cut off motor automatically. If the throttle signal restore in 90S after cutting off the motor, ESC will control the motor soon. If throttle signal restore after 90S, you must move the throttle stick to the bottom then restart, to protect the aircraft from crashing because of long time throttle signal loss.

Note: If motor stops suddenly during flying, you should move the throttle stick to the bottom soon then move the throttle stick lower than middle point, if so, motor will restart. Keep throttle stick lower than middle point and land the aircraft.