# **ZTW-Spider PRO**





# **Spider PRO manual Instruction**

Thank you for purchasing ZTW Spider Pro Series Brushless Electronic Speed Controller(ESC). Spider Pro series ESCs are especially designed to meet the demand of ever popular FPV RACING multirotors, and has been improved and bettered base on the various feedback from the market given the compatibility with some new design motor on the market. With better quality and competitive price. Spider Pro will be your best choice for you multirotors.

## Connecting your ESC:

- · Connect your controller with motor wires.
- · Solder appropriate connectors to the battery wires.
- · Insulate all solder connectors with heat shrink tubes.
- · Connect ESC signal cable according to your own flight control instruction.
- · Red and Black wires from ESC should connect to battery pack Red and Black wires respectively.



#### Features:

- · Use new generation of the MOSFETs to make sure the ESC low heating and high reliability.
- · Supports high RPM motors, can be matched with most of the motors in the RC market.
- · Using BLHELI firmware.
- · Capable of ONESHOT feature to work better with your flight controllers.
- · Super smooth and accurate throttle linearity.
- · Super fast Refresh Rate up to 600Hz.

### Throttle Calibration:

When you use the ESC for the first time, we would like to suggest you calibrate your throttle end point of your radio system. This will make the throttle response better. Please see following steps of how-to:

- 1. Power on your radio and push your throttle stick to 100%.(see fig 1)
- Then connect battery to your ESC, you will hear "W V" from motor to confirm the end point after three seconds.
- 3. Pull throttle stick back to 0% immediately when you hear "W V".
- 4. Throttle calibration is done. Please recycle your battery to use ESC.





Specifications:

| Туре                             | PN#Model | Cont./Burst | Battery cell   | Weight | Size(mm)      | User    |
|----------------------------------|----------|-------------|----------------|--------|---------------|---------|
|                                  |          | Current(A)  | NXX\Lipo       | (g)    | W*L*H         | Program |
| Spider 12A OPTO                  | 5012301  | 12A\20A     | 5-12NC\2-4Lipo | 8      | 15*26*6       | NO      |
| Spider Lite 18A OPTO             | 5018301  | 18A\30A     | 5-12NC\2-4Lipo | 5.3    | 12*22*4.3     | NO      |
| Spider Lite 20A BEC              | 5020101  | 20A\30A     | 5-12NC\2-4Lipo | 8.2    | 27*14.3*4.5   | NO      |
| Spider PRO 20A OPTO 2-4S         | 5020321  | 20A\30A     | 5-12NC\2-4Lipo | 9.8    | 27*14*5.5     | NO      |
| Spider PRO 20A HV OPTO 2-6S      | 5020421  | 20A\30A     | 5-18NC\2-6Lipo | 12     | 29*16.5*5.5   | NO      |
| Spider PRO 30A HV OPTO 2-6S      | 5030421  | 30A\40A     | 5-18NC\2-6Lipo | 12     | 29*16.5*5.5   | NO      |
| Spider PRO Premium 20A OPTO 2-4S | 5020331  | 20A\30A     | 5-12NC\2-4Lipo | 9.8    | 27*14*5.5     | NO      |
| Spider PRO Premium 30A OPTO 2-4S | 5030331  | 30A\40A     | 5-12NC\2-4Lipo | 9.8    | 27*14*5.5     | NO      |
| Spider PRO Premium 20A OPTO 2-6S | 5020431  | 20A\30A     | 5-18NC\2-6Lipo | 11     | 30.8*16.8*4.7 | NO      |
| Spider PRO Premium 30A OPTO 2-6S | 5030431  | 30A\40A     | 5-18NC\2-6Lipo | 11     | 30.8*16.8*4.7 | NO      |
| Spider PRO 20A OPTO 4in1 2-4S    | 5020341  | 20A\30A     | 5-12NC\2-4Lipo | 27     | 43*40*11      | NO      |

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