ELECTRIC SPEED CONTROLLER DETAILS

QUADCOPTER FUNCTIONAL REQUIREMENTS

- Carry a Load of 500g and Below (1 Pint of Blood = 495g)
- Weigh 800g (frame = 454g, Components = 878g)
- Weight 1.83Kg (Drone & Payload = 1.83kg)
- Recharge Backup Battery Using Oscillatory Motion of Motors & Solar Frame panels.
- Autonomous
- 4 Hours of Flight Time
- Remotely Stream live feeds via Camera
- 360 Camera View Via Servo Motor
- Flight Height of 10ft
- Switch between Power Sources During Functional Flight Mode.
- Take Pictures and Video then send to the Cloud.

COMPONENTS

- Frame
- Propeller
- Motor
- **Electric Speed Controller**
- Flight Controller
- Power (Battery)
- Transmitter & Reciever
- Camera

ELECTRONIC SPEED CONTROLLER

- The brushless motor runs on three phase AC supply, so the DC batteries cannot directly power the motor. The ESC is a motor controller that has a DC input and a three phase output for the motor. It converts the DC input to AC according to the signal it receives from the control board.

- One of the biggest challenges in buying an ESC is choosing the right size. Here's some general advice. ESCs rated for 20 amps are good for all builds using 4" props and most 5" props with motors of size 2206 or smaller. Larger motors like 2207 and the 23XX and 24XX class, and any motor running 6" props, may require 30 or 35 amp ESCs.

The Selected Motor Specification determines the type of ESC that fits it perfectly.

ARRIS 2-6S 30AMP 30A SimonK firmware OPTO Brushless ESC is recommended for efficient output.

ARRIS 2-6S 30AMP 30A SimonK firmware OPTO Brushless ESC

Specification:

- Continuous Current: 30A
- Weight: 25g
- Burst current: 45A
- BEC Mode: OPTO
- The applicable number of battery cells :2 - 6S

Copy this link to your broswer to download the manual:

http://site.hobby-wing.com/images/Manual/ARRIS-ESC-User-Manual.PDF

ARRIS 2-6S 30AMP 30A SimonK firmware OPTO Brushless ESC