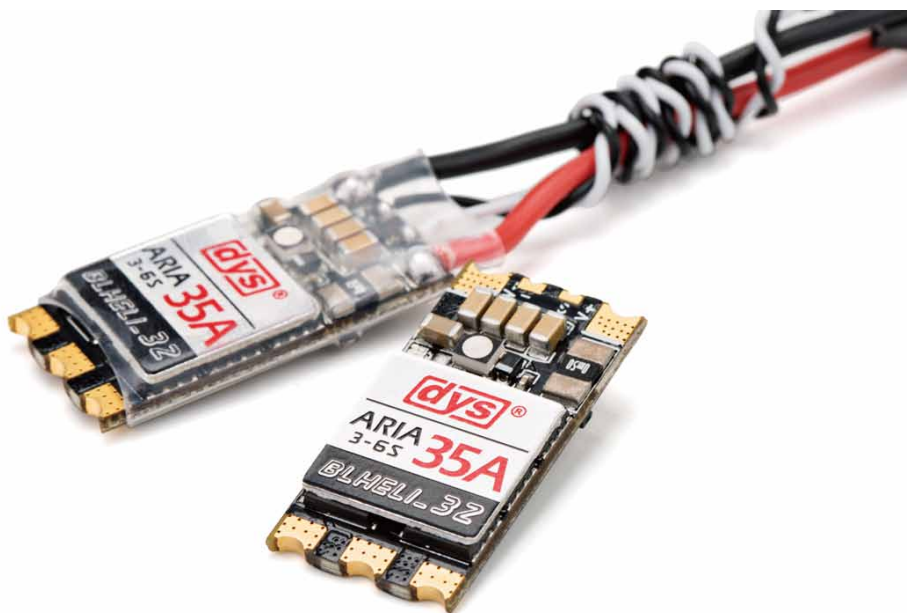# Manual of

DYS Aria Blheli_32bit 35A ESC

Thanks for purchasing the DYS Electronic Speed Controller (ESC).The brushless system with high power for RC model can be very dangerous, so we strongly suggest you read this manual carefully. Any claims arising from the operating, failure or malfunctioning etc. will be denied. We assume no liability for personal injury, property damage or consequential damages resulting from our product or our workmanship. As far as is legally permitted, the obligation to compensation is limited to the invoice amount of the affected product. At the same time, We do not assume any liability arising from modifications due to unauthorized product. We reserve the right to change without notice about product design, appearance, performance and operational requirements.

Firmware:Blheli_32Bit

Item NO	Continue Current	Burst Current	BEC	Lipo	Weight	Size
Aria 35A	35A	40A	NO	3-6S	4.37g(without motor wires)	32*16*5 (mm)

Dong Yang Smart Technology Co.,Ltd

Features:

● With 32bit ARM Cortex MCU STM32F051 48MHZ micro processor, throttle 2048 resolution ratio,strong anti-interference capacity.

● Built-in sensor can be reaction of temperature,output power,output current etc,also programmable for protection. Support Blheli_32 firmware,can use the signal wire to upgrade the firmware or change the configuration on line.

● Current Meter to help show current indication of OSD.

● With USB linker can be programmable throttle setting like support positive and negative,two-way mode,FPV 3D mode,motor speed,braking ,PWM frequency, inlet angle speed setting, onboard RGB LED for customize color, Beep etc.

● It use the self-adaption control system,can go automatic with the all kind of the motor in the market,at the mean time it support up to 500HZ PWM,oneshot 125,oneshot 42,Multishot and Dshot 150/300/600/1200.

● With special optimize in multi-axis,the motor can launch smoother in a good throttle curve, fast response,great power, and highly support the multi-axis,fixed-wing and helicopter.

● The twisted- pair signal wire can lower the crosstalk inside cooper wire when it transfer,which will make the flight more stable.

● MCU hardware,Driver circuit ,Mosfet will come with double voltage protection.

● To adopt the new process MOSFET of low internal resistance, will help increase resistance to flow.Also,the professional MOS driver chip makes the best efficiency.

● Mosfet is covered with aluminum sheet for cooling,which can bring more efficiency and stability.

● With special process of 6 layer thicken PCB will lower resistance, small calorific value and bigger impact resistance current.Nice optimize layout of the components and parts makes a smaller size,lighter weight and easy to build.