

SQESC WP14200

IP68防水无刷电子调速控制器

5-14S Lipo供电200A

SQESC WP14200

IP68 Waterproof Brushless ESC

5-14S Lipo 200A

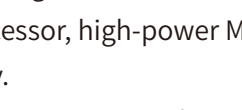
适用	Firmware Suitable for
• 多旋翼无人机	• Multi-rotor Drones Airplane
• 航模植保机	• Models Crop Protection Aircraft
• 直升机	• Helicopters
• 模型船	• Model Ships
• RC模型车	• RC Model Cars
• 电动冲浪板	• Electric Surfboards
• 水下推进器	• Underwater Thrusters

感谢您购买本产品!请您在使用前仔细阅读说明书,严格遵守规定的操作说明,使用者需具备一定电子基础和良好的焊接技术,错误的使用可能造成人身伤害和设备损坏,我们不承担因使用本产品或擅自对产品进行改造而引起的任何责任,包括但不限于对附带损失或间接损失的赔偿责任。

Thanks for buying this product!Please read the instructions carefully before use and strictly abide by the specified operating instructions. Users must have a certain electronic foundation and good welding skills. Wrong use may cause personal injury and equipment damage. We do not assume any liability arising from the use of this product or unauthorized modifications to the product, including but not limited to liability for incidental or indirect losses.



1. English instruction manual 01 - 05
2. 中文说明书 06 - 09



1. Product Description

- (1) IP68 waterproof ESC, with deep sealing design, can work completely underwater.
- (2) Featuring a high-performance 32-bit processor, high-power MOSFET, and a metal aluminum heat sink, it delivers enhanced performance and stability.
- (3) With a built-in BEC of 5.2V 3A continuous output, it can directly power receivers, servos, and other external devices, making applications more flexible and extensive.
- (4) It uses 8AWG power cord to steadily carry large current, and 10AWG motor wire for efficient transmission, ensuring continuous power output.
- (5) Supports multiple operating modes, such as one-way, two-way, and brakes, to meet the needs of different scenarios.
- (6) Supports multiple protections such as low voltage protection, over temperature protection, locked rotor protection, and current protection.
- (7) A return function supports detecting voltage, current, speed, temperature, and other data in real time.
- (8) Visual programming parameter adjustment tool supports motor timing, throttle calibration, current detection, motor steering, telemetry signal and other settings.
- (9) The ESC automatically detects the throttle signal when it is powered on, supports all Dshot signals, and also supports signal protocols such as PWM, Oneshot and Multishot.
- (10) Two fixing methods, cable ties and screws, are reserved for easy installation.
- (11) Widely used in multi-axis drones, fixed-wing aircraft models, agricultural drones, helicopters, multi-rotor drones, climbing vehicles, off-road model cars, model boats, electric surfboards, underwater thrusters, water sport products, etc.

2. Parameters of Product

Model	SQESC WP14200
Processor	STM32G071
Input Voltage	DC 18V-59V (5-14S Lipo)
Continuous Current (Good Heat Dissipation)	200A
Maximum Current (Good Heat Dissipation)	350A
Support Firmware	BLHeli_32, AM32, ESCape32
Signal Protocol	Dshot(all), PWM, Oneshot, Multishot, etc
RPM Signal Line	BLHeli_32 (NO), AM32 (YES), ESCape32 (YES)
Waterproof Level	IP68 Waterproof
Programming Parameter Adjustment	Support
Throttle Calibration	Support
Timing Angle Setting	Support
Current Detection	Support

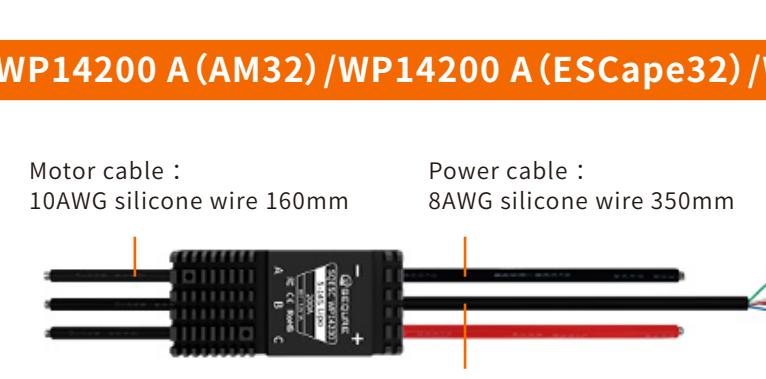
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WP14200 Brushless Esc Manual



Telemetry Signal	Support
Motor Steering Settings	Support
BEC	5.2V 3A Continuous(Other voltages can be customized)
Cable Specification	WP14200 A: Power cable(8AWG silicone wire 350mm), Motor cable(10AWG silicone wire 160mm), Signal cable(5-core 450mm) WP14200 B: Power cable(8AWG silicone wire 350mm), Motor cable(10AWG silicone wire 2000mm), Signal cable(5-core 450mm) WP14200 C: Power cable(8AWG silicone wire 1200mm), Motor cable(10AWG silicone wire 350mm), Signal cable(5-core 1200mm)
Product Size	99*45*26.5mm (L*W*H, excluding wire)
Product Weight	WP14200 A: 365g (including wire) WP14200 B: 740g (including wire) WP14200 C: 607g (including wire)
Application Scenarios	Multi-axis drones, Fixed-wing aircraft models, Agricultural drones, Helicopters, Multi-rotor drones, Climbing vehicles, Off-road model cars, Model boats, Electric surfboards, Underwater thrusters, Kayak SUP board, Jetboards, Water sport products, etc.

3. Package included



- ① WP14200 ESC×1
- ② 250mm Black Tie Straps×2

4. Overall Dimension

WP14200 A (AM32) /WP14200 A (ESCape32) /WP14200 A (BLHeli_32) /Optional



WP14200 A:
365g (including wire)

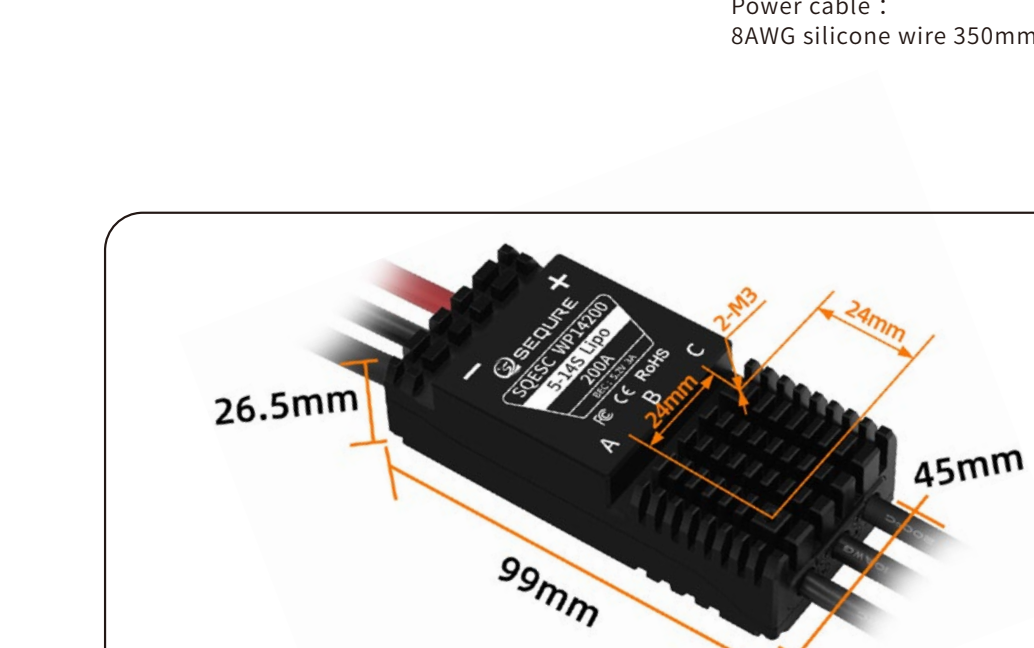
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WP14200 B (AM32) /WP14200 B (ESCape32) /WP14200 B (BLHeli_32) /Optional

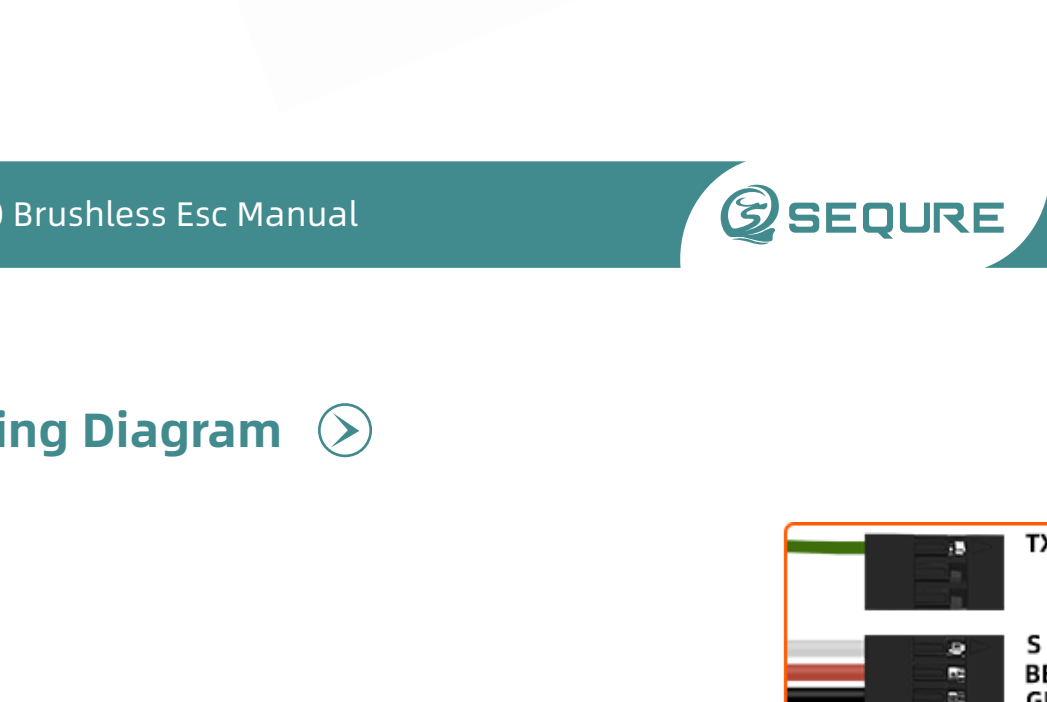


WP14200 B:
740g (including wire)

WP14200 C (AM32) /WP14200 C (ESCape32) /WP14200 C (BLHeli_32) /Optional

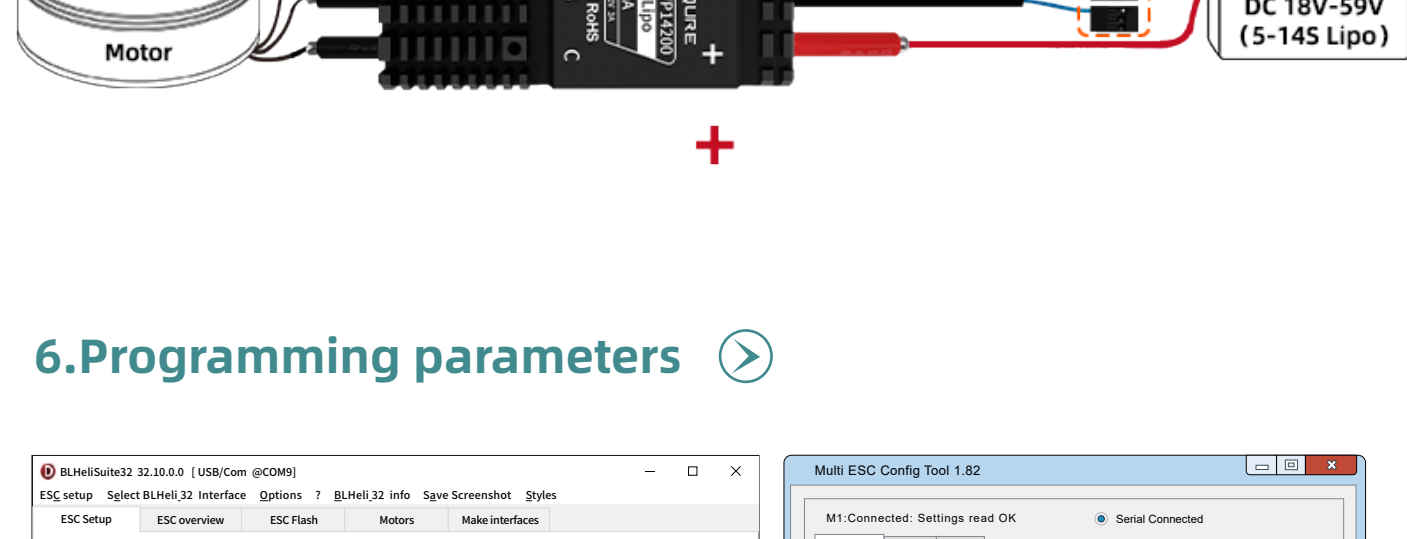


WP14200 B:
607g (including wire)

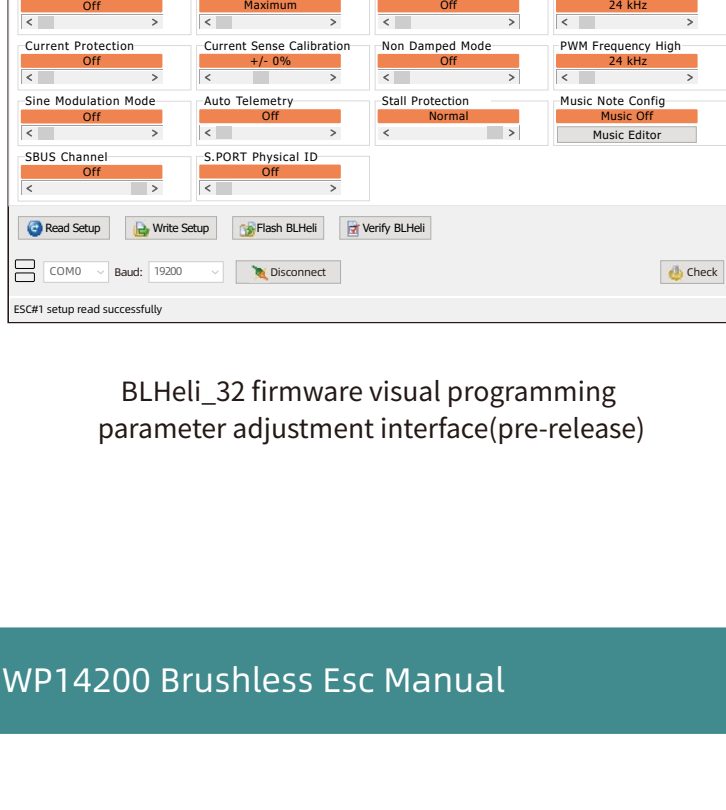


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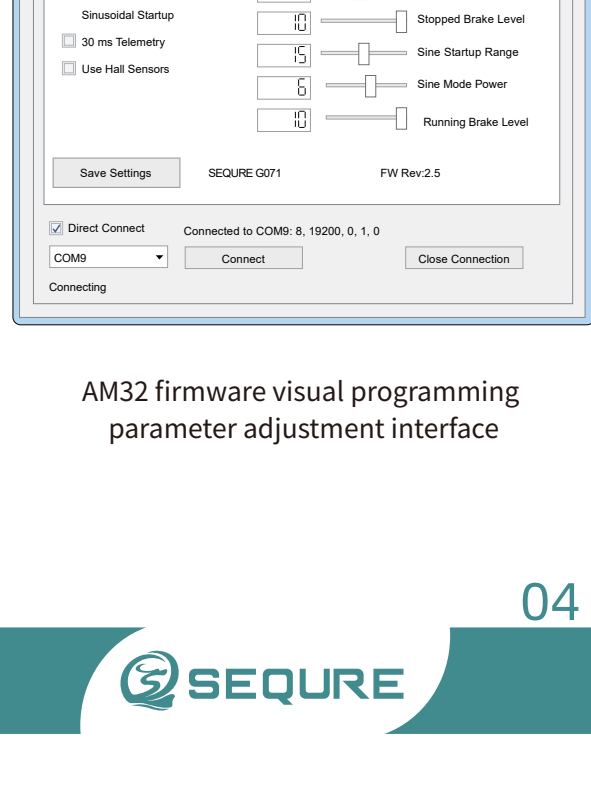
5. Wiring Diagram



6. Programming parameters



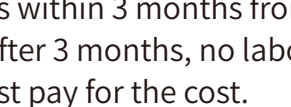
BLHeli_32 firmware visual programming parameter adjustment interface(pre-release)



AM32 firmware visual programming parameter adjustment interface

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7. Warranty Terms

- (1) For those performance faults caused by non-human factors within 3 months from the date of purchase, we provide repair & maintenance service for free. After 3 months, no labor fee will be charged for repairs. If you would like to replace parts, you must pay for the cost.
- (2) All man-made damage, faults caused by self disassembly & improper use, not covered by the warranty.

8. Safety Precautions

- Please do not flash unofficial firmware to avoid damage to the ESC.
- Please do not use it beyond the ESC operating voltage and current range.
- Please check and make sure the positive and negative polarity are correct before powering on.
- Please use the product in compliance with local regulations and ensuring safety.
- Please use accessories that meet safety standards and store them out of reach of children.



www.sequiremall.com

info@sequiremall.com

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1. 产品概述

- (1) IP68级防水电调，深度密封设计，可以完全泡在水下工作。
- (2) 采用32位高性能处理器，大功率MOSFET，金属铝盒散热器，性能更强，稳定性更高。
- (3) 内置BEC 5.2V 3A持续输出，直接给接收机、舵机等外部设备供电，应用更加广泛灵活。
- (4) 采用8AWG电源线稳载大电流，10AWG电机线高效传输，动力输出源源不断。
- (5) 支持设置单向，双向，带刹车，多种运行模式，满足不同场景需求。
- (6) 支持低压保护，过温保护，堵转保护，电流保护等多重保护。
- (7) 具有回传功能，可以实时检测电压，电流，转速，温度等多种数据。
- (8) 可视化编程调参工具，支持电机进角，油门校准，电流检测，电机转向，遥测信号等设置。
- (9) 电调上电自动检测油门信号，支持全部Dshot信号，同时支持PWM，Oneshot和Multishot等信号协议。
- (10) 预留扎带和螺丝两种固定方式，方便固定安装。
- (11) 广泛应用于多轴无人机，固定翼航模，植保机，直升机，多旋翼无人机，攀爬车，越野模型车，模型船，电动冲浪板，水下推进器，水上产品等。

2. 产品参数

型号名称	SQESC WP14200
处理器	STM32G071
输入电压	DC 18V-59V (5-14S Lipo)
持续电流(良好散热)	200A
最大电流(良好散热)	350A
支持固件	BLHeli_32, AM32, ESCape32
信号协议	Dshot (全部), PWM, Oneshot, Multishot等
RPM信号线	BLHeli_32 (NO), AM32 (YES), ESCape32 (YES)
防水特性	IP68防水
编程调参	支持
油门校准	支持
进角设置	支持
电流检测	支持
遥测信号	支持
电机转向设置	支持
BEC	BEC: 5.2V 3A 持续 (可定制其它电压)
线材规格	WP14200 A: 电源线 (8AWG硅胶线-350mm), 电机线 (10AWG硅胶线-160mm), 信号线 (5芯-450mm) WP14200 B: 电源线 (8AWG硅胶线-350mm), 电机线 (10AWG硅胶线-2000mm), 信号线 (5芯-450mm) WP14200 C: 电源线 (8AWG硅胶线-1200mm), 电机线 (10AWG硅胶线-350mm) 信号线 (5芯-1200mm)

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WP14200电调说明书



产品尺寸	99*45*26.5mm (L*W*H, 不含线)
产品重量	WP14200 A: 365g (含线) WP14200 B: 740g (含线) WP14200 C: 607g (含线)
应用场景	多轴无人机，固定翼航模，植保机，直升机，多旋翼无人机，攀爬车，越野模型车，模型船，电动冲浪板，水下推进器，水上产品等

3. 出货清单



- ① WP14200电调×1
- ② 4*250mm黑色扎带×2

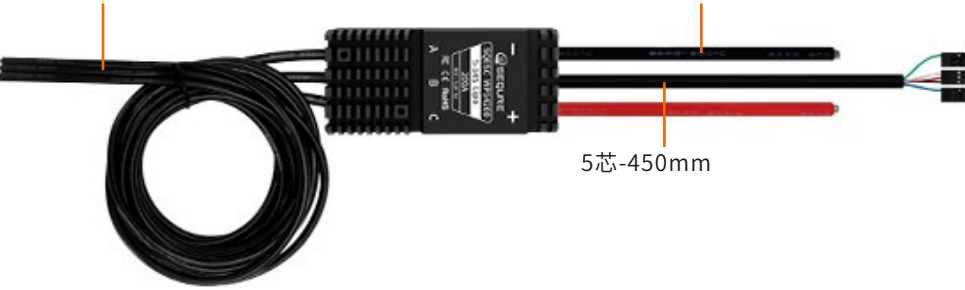
4. 外形尺寸

WP14200 A (AM32) / WP14200 A (ESCape32) / WP14200 A (BLHeli_32) / Optional



WP14200A:
365g (含线)

WP14200 B (AM32) / WP14200 B (ESCape32) / WP14200 B (BLHeli_32) / Optional



WP14200B:
740g (含线)

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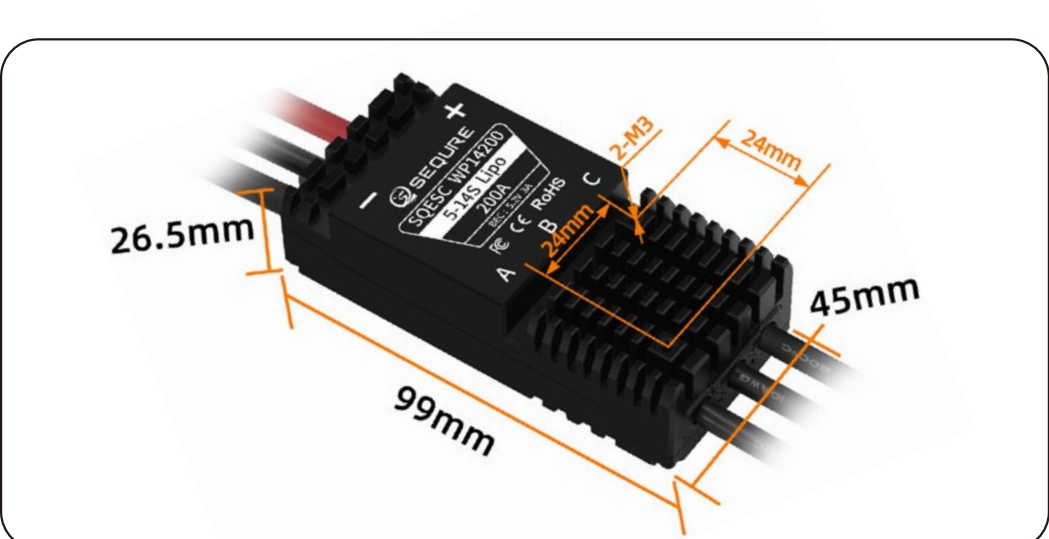
WP14200电调说明书



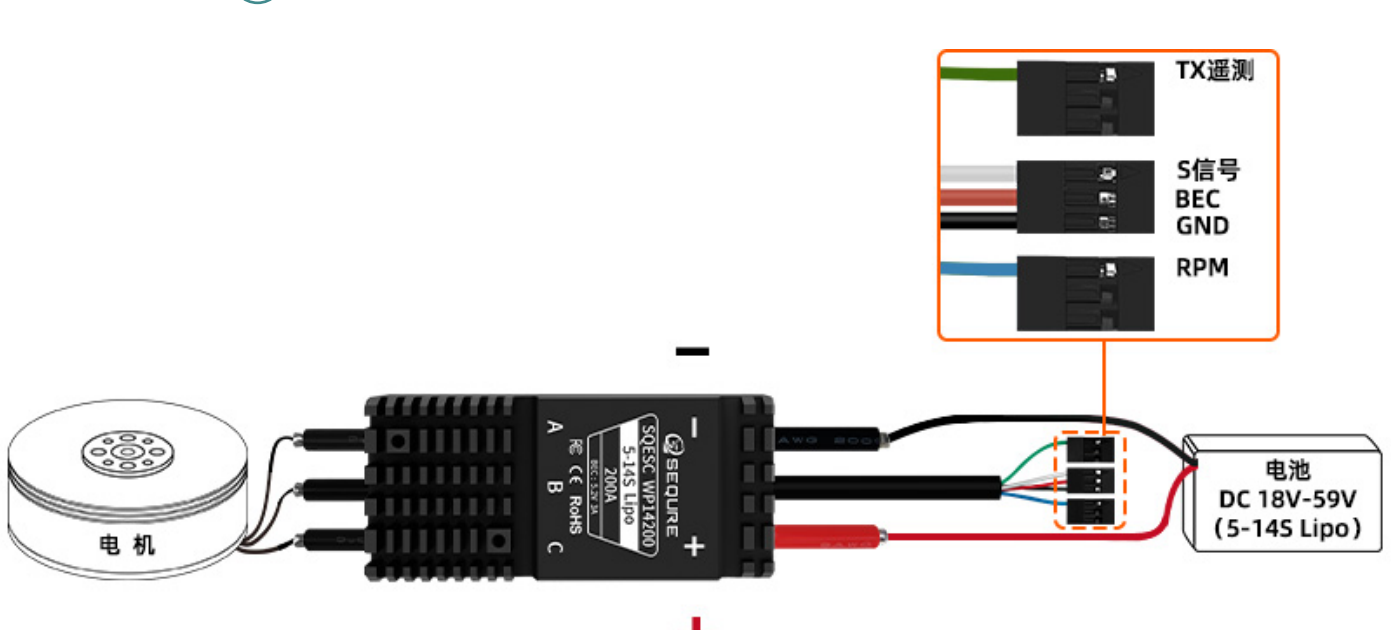
WP14200 C (AM32) / WP14200 C (ESCape32) / WP14200 C (BLHeli_32) / Optional



WP14200C:
607g (含线)



5. 接线图

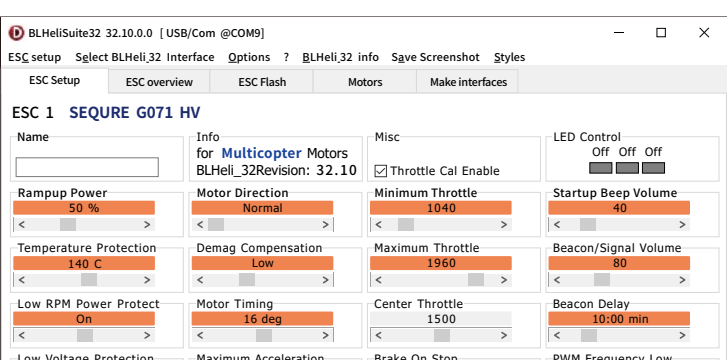


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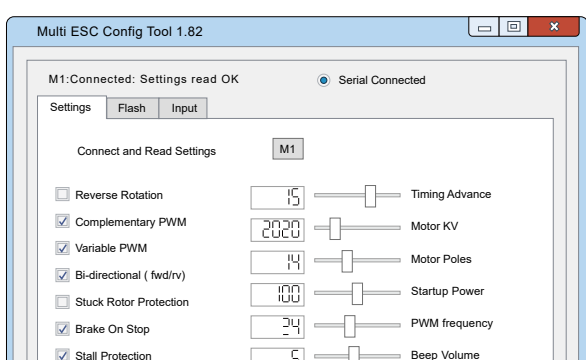
WP14200电调说明书



6. 编程调参



BLHeli_32固件可视化编程调参界面(预发布版本)



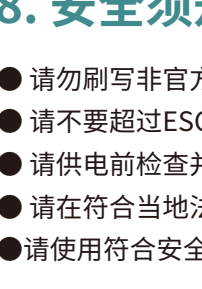
AM32固件可视化编程调参界面

7. 保修条款

- (1) 自购机之日起3个月内出现非人为因素造成的性能故障，厂家提供免费修理服务。3个月后，修理不收取人工费，若更换配件，费用需用户承担。
- (2) 一切人为损坏，自行拆机，使用不当造成的故障，不在保修范围。

8. 安全须知

- 请勿刷写非官方指定的固件，以免损坏电调。
- 请不要超过ESC工作电压，电流范围使用。
- 请供电前检查并确保正负极性无误，才能通电使用。
- 请在符合当地法规和确保安全情况下使用产品。
- 请使用符合安全标准的配件，存放在儿童不容易接触的地方。



www.sequencemall.com
info@sequencemall.com
0769-89399884

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WP14200电调说明书

