

SEQUIRE H743 V2 & E130 G2

SEQUIRE H743 V2 & E160 G2

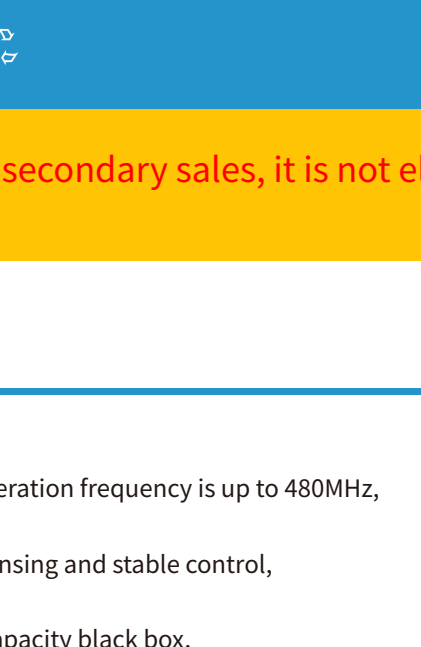
Stack FC & ESC For FPV Drones Racing Freestyle

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 liabi-
 lity for incidental or indirect losses.

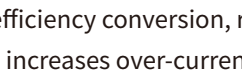


SEQUIRE H743 V2 & E130 G2



SEQUIRE H743 V2 & E160 G2

1. English instruction manual	01 - 07
2. 中文说明书	08 - 15



Note: Once this product is activated and affects secondary sales, it is not eligible for a 7-day return without reason

1 PRODUCT DESCRIPTION

* SEQUIRE H743 V2 FC

- Equipped with a high-performance STM32H743 processor, the operation frequency is up to 480MHz, offering rapid control response.
- Adopts ICM-42688-P gyroscope, this FC realizes precise gesture sensing and stable control, improving the reliability of the system.
- SEQUIRE H743 has an onboard barometer, OSD, and 16MB large capacity black box, which effectively records the flight data.
- Reserve 6 UARTS to meet the needs of most devices.
- It can control up to 8 motors, easily constructing X8.
- Equipped with a plug-in connector and dual BEC outputs, the FC provides independent 10V voltage, allowing the DJI O3 and analog VTX to plug in for use directly.
- Supports wide voltage input of 4-8S Lipo/LiHV, mounting holes of 20mm and 30.5mm. Mini design, suitable for various types of racks like racing, aerial photography, freestyle, etc.

* E130 G2 & E160 G2 ESC

- STM32G071 high-performance processor, using BLHeli_32 | AM32 firmware, 4-12S wide voltage input, single-channel continuous current 130A, peak current up to 220A.
- Built-in galvanometer, supports telemetry return, and updates motor speed, temperature, current and other data in real time.
- High-quality high-power MOSFET, ultra-high efficiency conversion, reducing losses and extending flight time.
- High copper thickness multi-layer PCB design increases over-current capability, efficient heat dissipation performance, and is not afraid of load pressure.
- Precise switch interval time control, speeding up the response speed of the ESC, smooth control, and delicate feel.
- 30.5*30.5mm installation hole spacing design, compact structure, adaptable to various types of racks, easy to install.

2 PRODUCT PARAMETERS

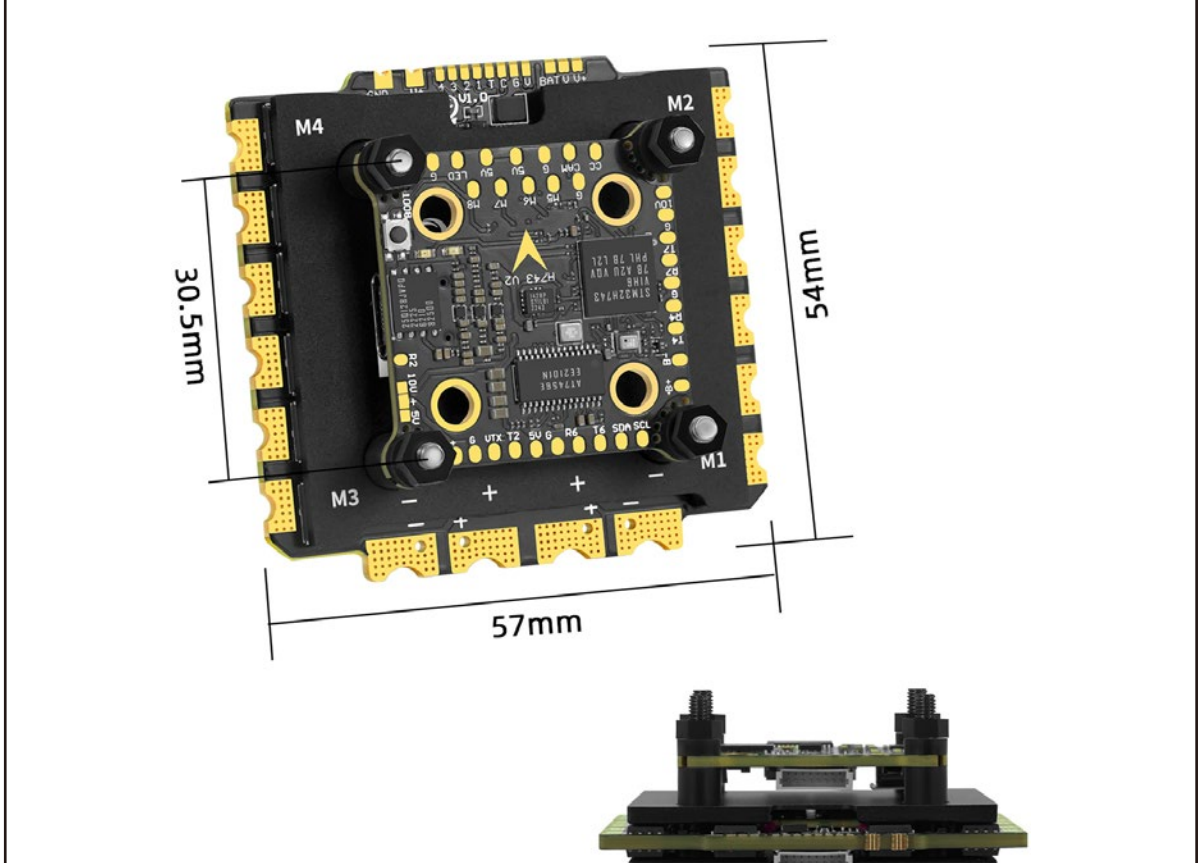
Module Name	SEQUIRE H743 V2	UARTS	6
MCU	STM32H743	Control Motors	M1-M8
Gyro	ICM-42688-P	LED	WS2812 LED Strip
Barometer	BMP280/DPS310/DPS368	Buzzer	Support
OSD Chip	AT7456E	ESC Telemetry	RX8
Black Box	16MB	USB	Type-C
Firmware Type	Betaflight (default), iNAV, ArduPilot	Mounting Hole	20x20mm, Ø4mm 30.5x30.5mm, Ø4mm
Firmware Name	SEQUIREH7V2	Dimensions	36.5*36.5*6mm
Input Voltage	4-8S Lipo/LiHV	Weight	7.3g
BEC Output	5V/2.5A, 10V/2A		

SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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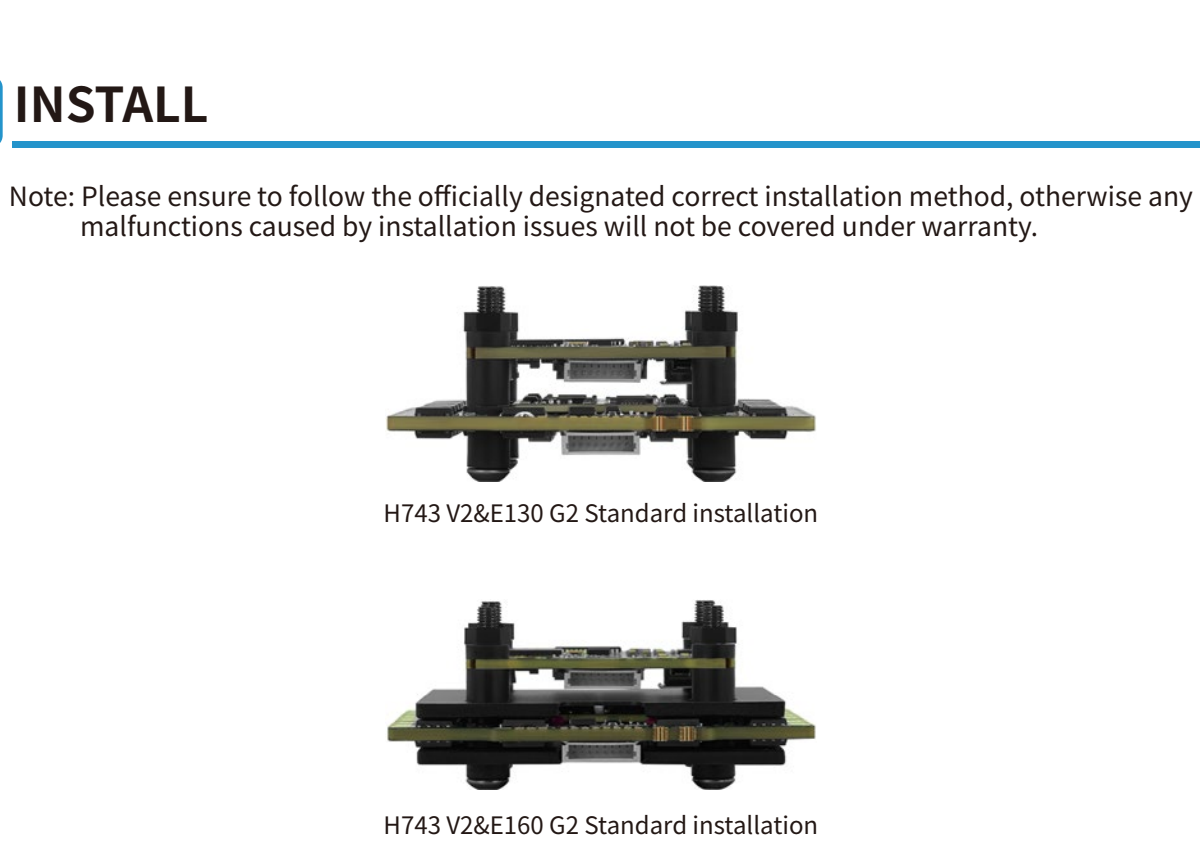
Model	E130 G2	E160 G2
Processor	STM32G071	
Working Voltage	4-8S (14-35.2V) Lipo / LiHV, 4-12S (14-53V) Lipo / LiHV	
Continuous Current	130A	160A
Peak Current	220A	280A
Firmware Version	AM32, BLHeli_32	
Support Protocol	Dshot(All), PWM, Oneshot, Multishot, etc.	
Telemetry Return	YES	
Galvanometer	YES	
BEC	16V 2A	
Mounting Hole Spacing	30.5*30.5mm, Ø4mm/M3	
Product Size	54*57*7mm(L*W*H)	54*57*10mm(L*W*H)
Product Weight	43g	66g

3 SIZE AND WEIGHT



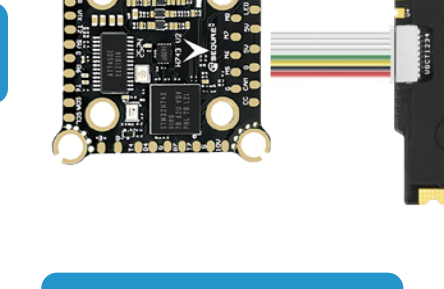
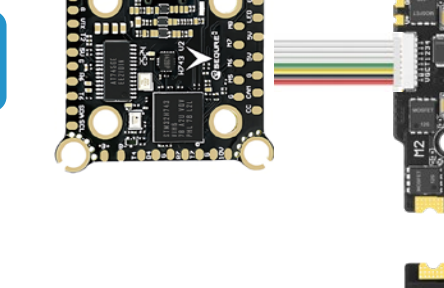
SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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4 INSTALL

Note: Please ensure to follow the officially designated correct installation method, otherwise any malfunctions caused by installation issues will not be covered under warranty.



SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

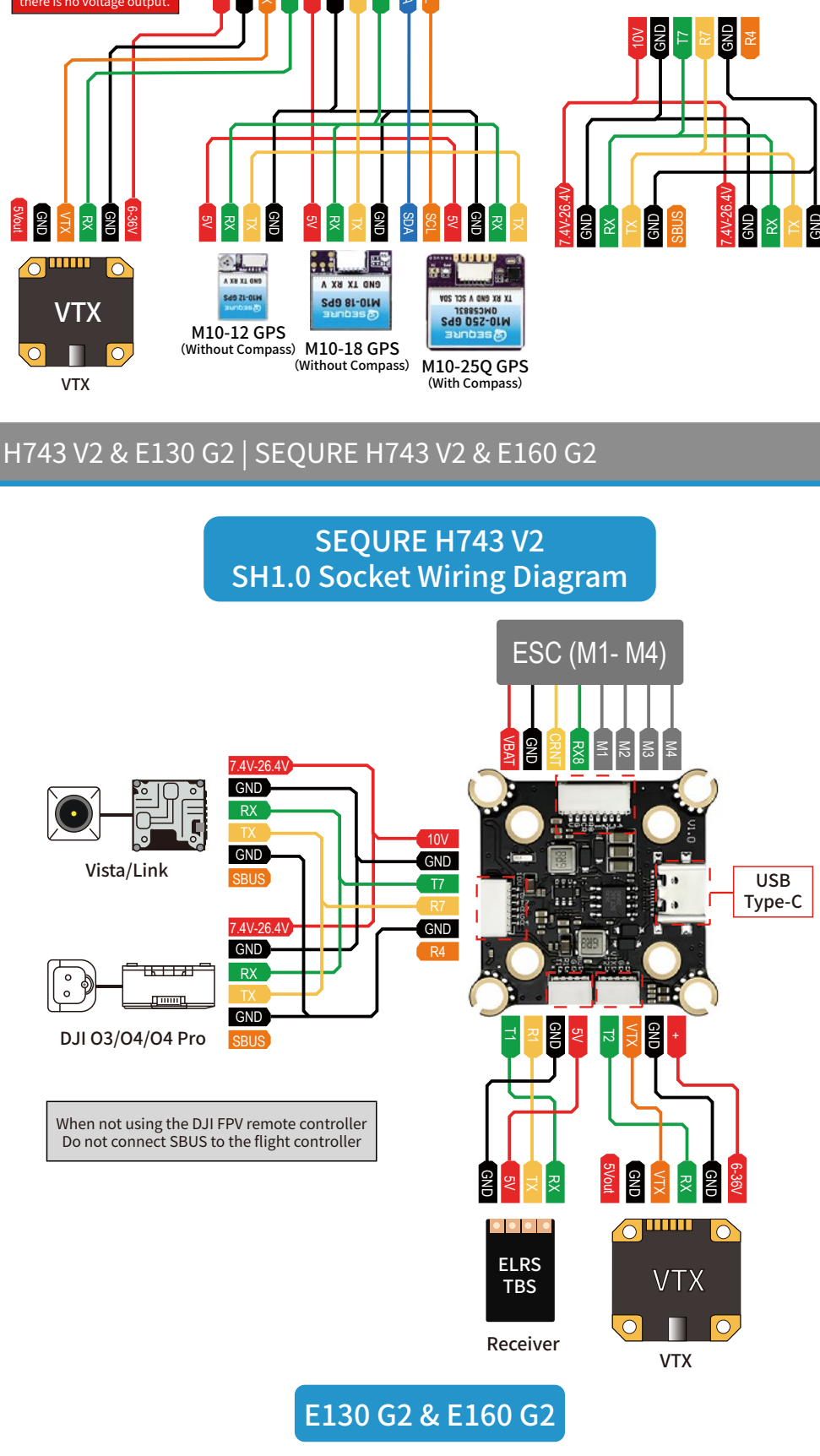
03

5 WIRING DIAGRAM

SEQUIRE H743 V2 & E130 G2

SEQUIRE H743 V2 & E160 G2

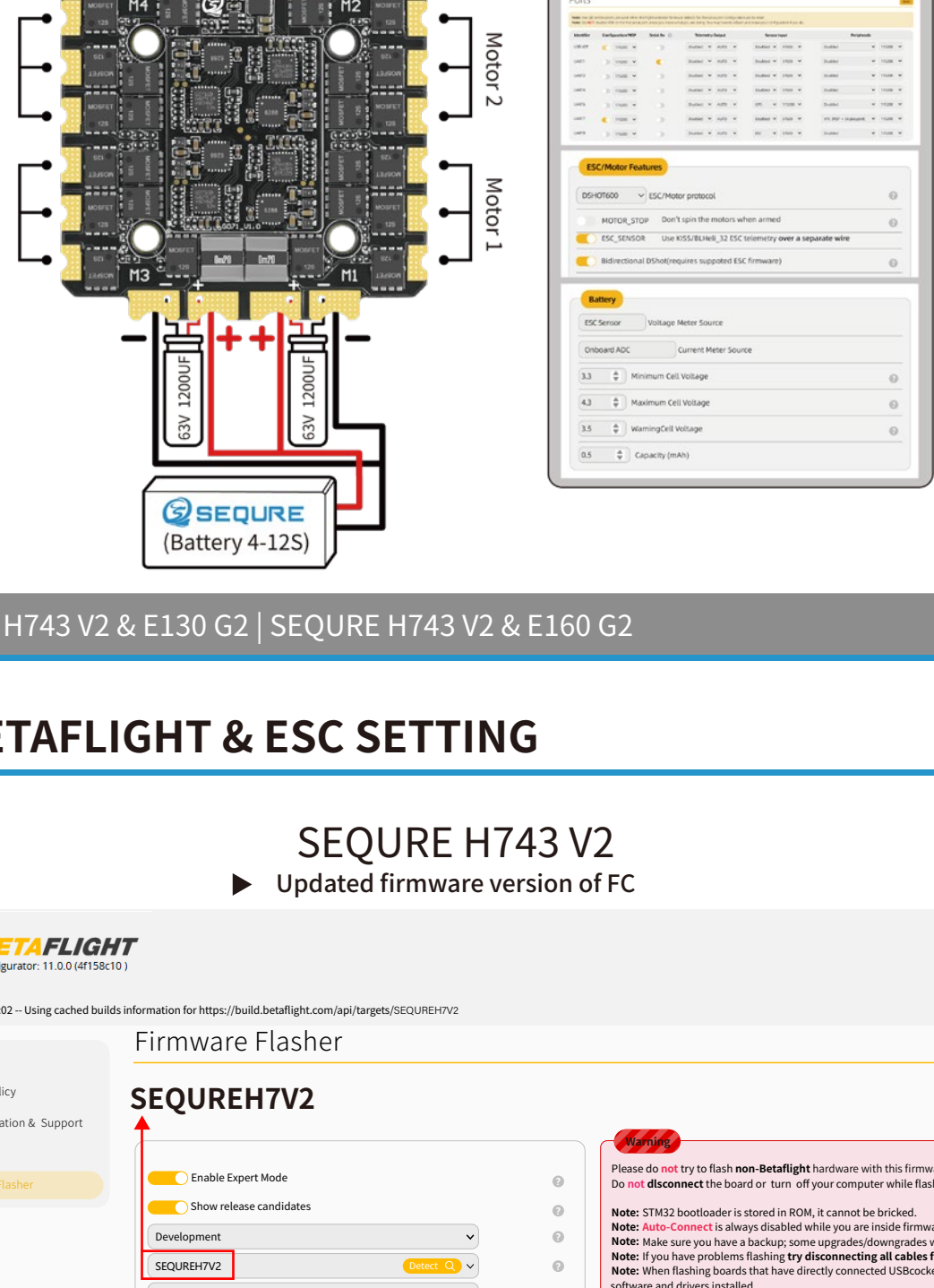
SEQUIRE H743 V2 Pad Wiring Diagram



SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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SEQUIRE H743 V2 SH1.0 Socket Wiring Diagram



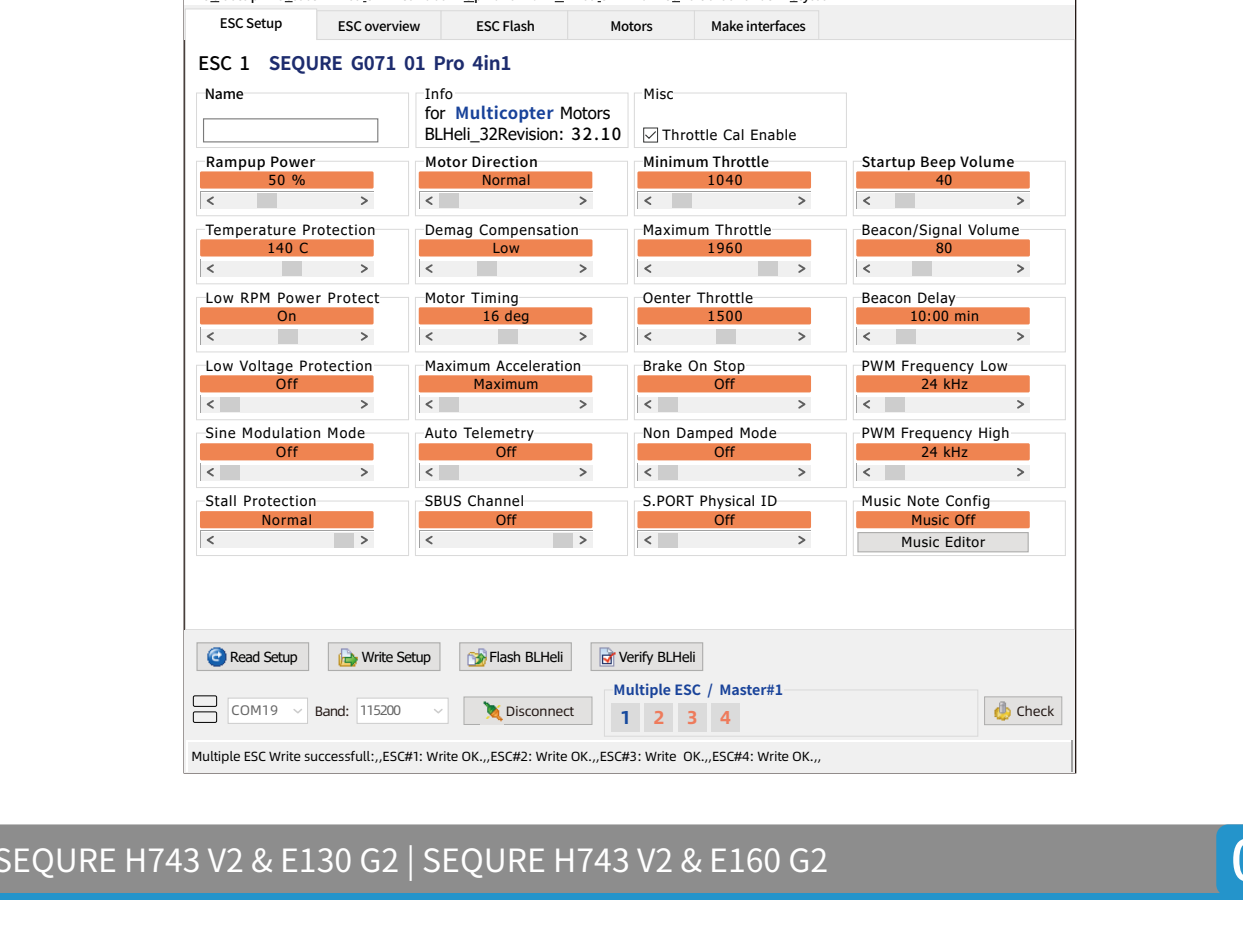
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6 BETAFLIGHT & ESC SETTING

SEQUIRE H743 V2

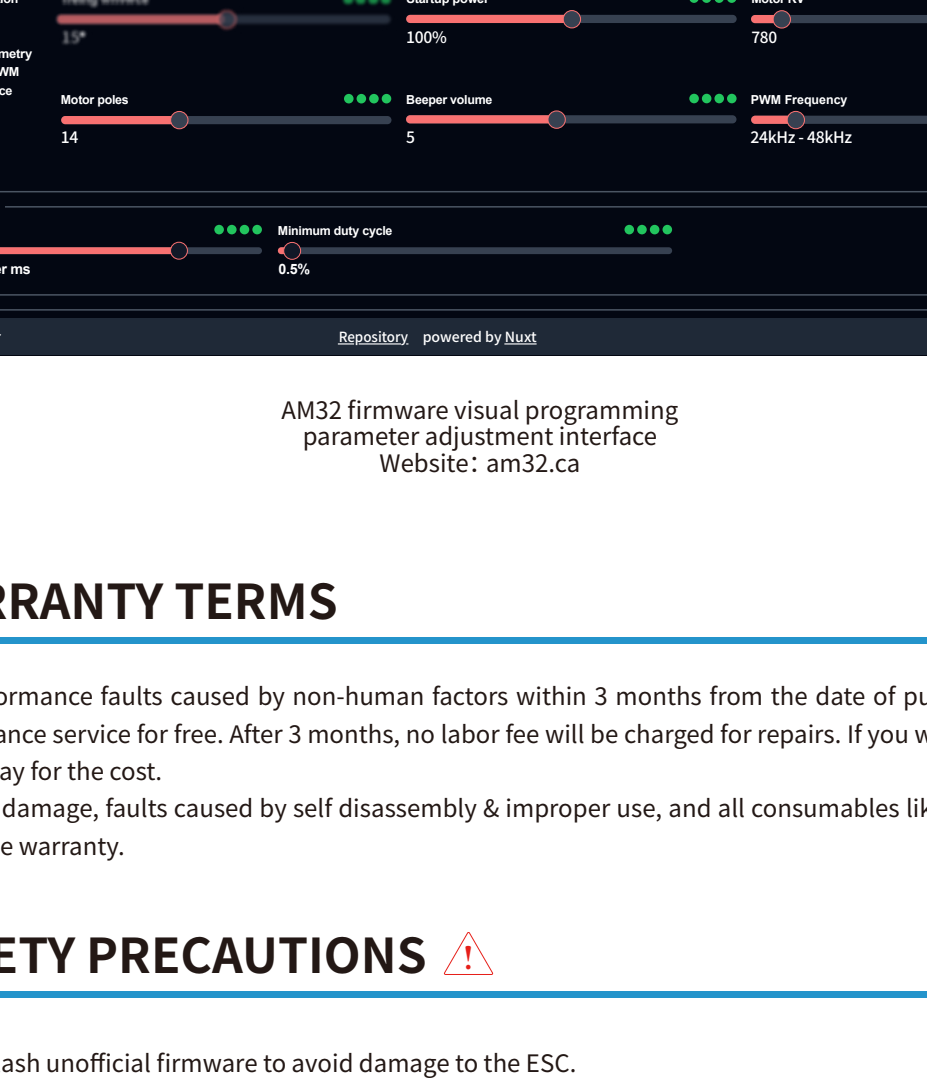
► Updated firmware version of FC



For firmware version 4.60 and above, you need to use the web version of Betaflight Configurator. Website: <https://app.betaflight.com/>

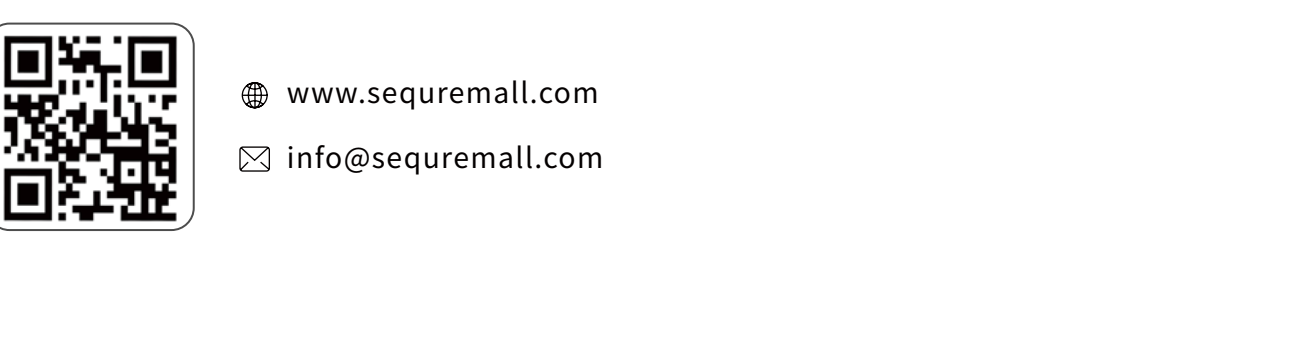
E130 G2 & E160 G2

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



SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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AM32 firmware visual programming parameter adjustment interface Website: am32.ca

7 WARRANTY TERMS

- 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.
- All man-made damage, faults caused by self disassembly & improper use, and all consumables like soldering tips are 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 产品描述

* SEQUIRE H743 V2飞控

- STM32H743高性能处理器，运行频率高达480MHz，控制响应迅速。
- ICM-42688-P 陀螺仪，实现精准的姿态感知和稳定控制，提高系统可靠性。
- 板载气压计，OSD，16MB大容量黑匣子，有效记录飞行数据。
- 预留6组串口，满足大部分设备使用。
- 最多支持控制8个电机，轻松构造X8。
- 配备直插式连接座，双BEC输出，提供独立的10V支持DJI O3和模拟图传直播使用。
- 支持宽电压输入4-8S Lipo/LiHV，20mm和30.5mm安装孔位，小型化设计，适配多种类型机架，竞速，航拍，花飞等。

* E130 G2 & E160 G2电调

- 采用32位高性能处理器STM32G071，支持AM32|BLHeli_32固件。
- 宽电压4-12S输入，E130 G2单路电流持续130A（峰值220A），E160 G2单路电流持续160A（峰值280A）。
- 采用低内阻高功率MOSFET，超高的效率转换，降低损耗，延长飞行时间。
- 电源双焊盘设计，并联双电池，焊接更方便，过流能力更强。
- 采用超高频铜质多层PCB，板载铜条设计，增大过流能力，提升散热性能，无惧负载压力。
- 精准开关间隔，优异的电路设计，解决失步问题。加快电调的响应速度，控制流畅，手感细腻。
- 支持多种数据实时回传：内置电流计，支持遥测回传，实时更新电机转速，温度，电流等数据。
- 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。
- 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。
- 30.5*30.5mm安装孔距设计，适配多种类型机架，装机无压力。

2 产品参数

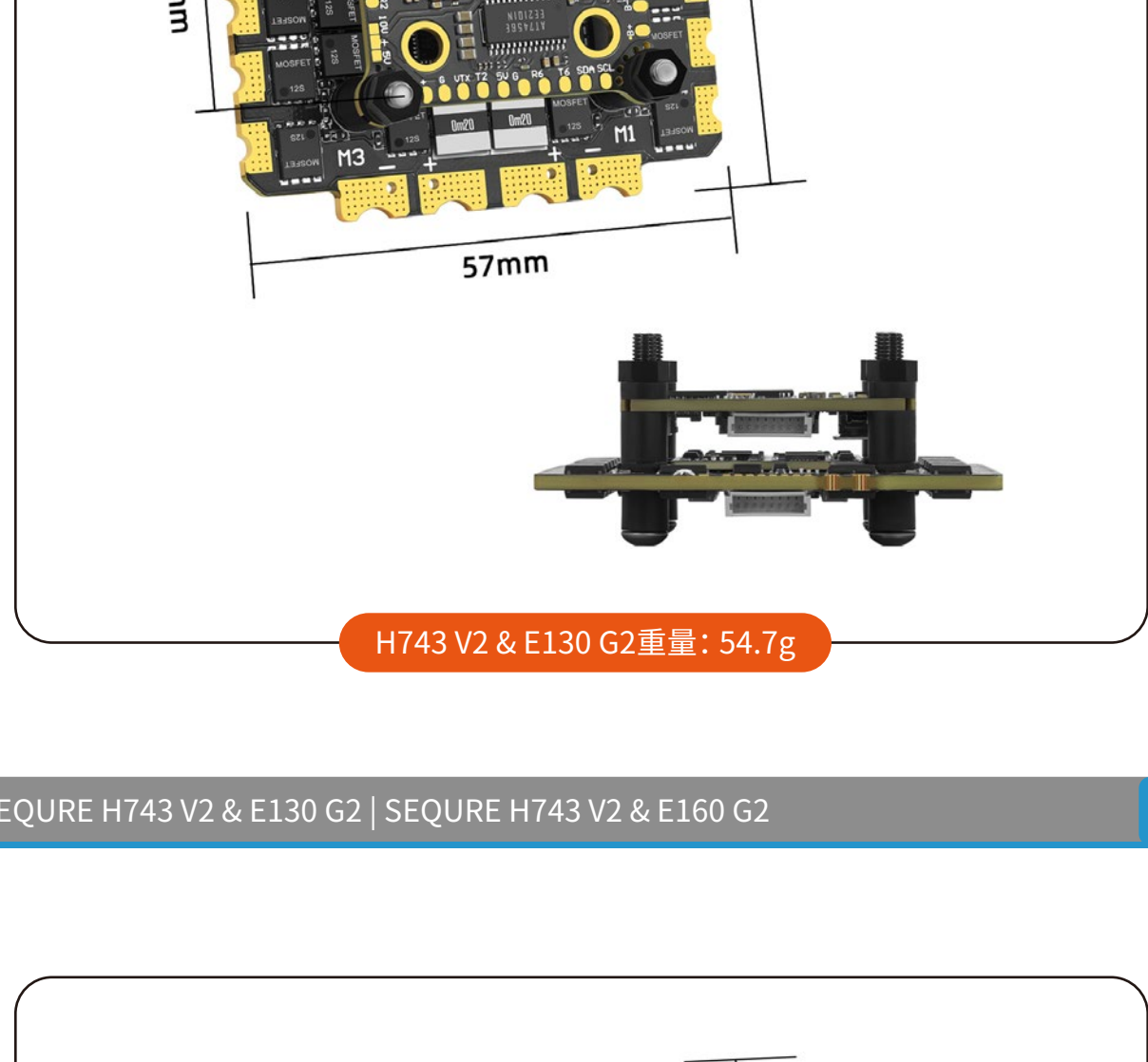
产品名称	SEQUIRE H743 V2	串口	6个
处理器	STM32H743	电机控制	M1-M8
陀螺仪	ICM-42688-P	LED	1路2812编程LED
气压计	BMP280/DPS310/DPS368	蜂鸣器	支持
OSD芯片	AT7456E	电调遥测	RX8
黑匣子	16MB	USB	Type-C
固件类型	Betaflight（默认），INAV，ArduPilot	安装孔距	20x20mm，Φ4mm 30.5x30.5mm，Φ4mm
固件名称	SEQUIREH7V2		
输入电压	4-8S Lipo/LiHV	产品尺寸	36.5*36.5*6mm
BEC输出	5V/2.5A，10V/2A	产品重量	7.3g

SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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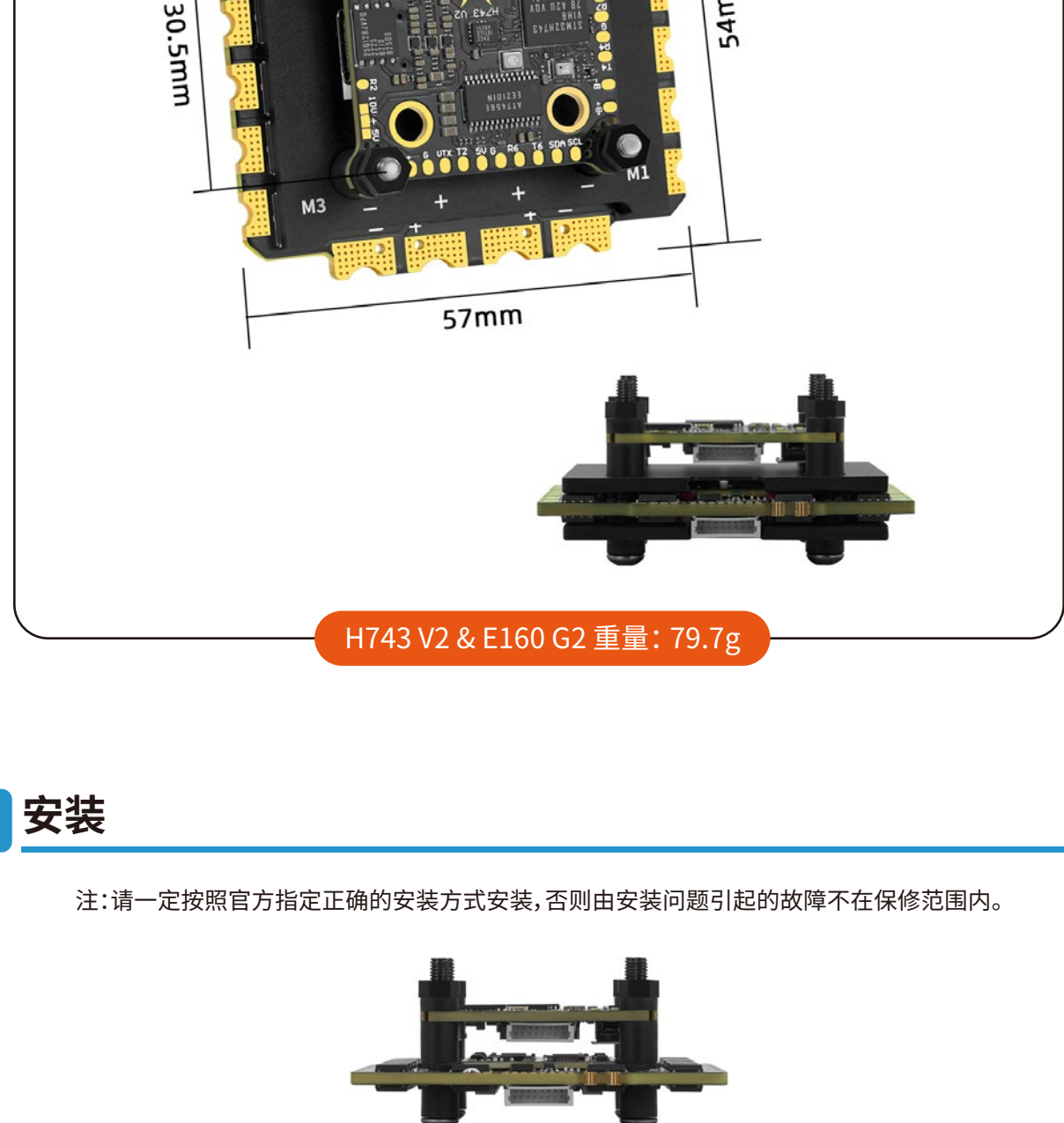
型号名称	E130 G2	E160 G2
处理器	STM32G071	
工作电压	4-8S (14-35.2V) Lipo / LiHV , 4-12S (14-53V) Lipo / LiHV	
持续电流	130A	160A
峰值电流	220A	280A
支持固件	AM32, BLHeli_32	
支持协议	Dshot（全部），PWM，Oneshot，Multishot等	
遥测回传	支持	
电流计	支持	
BEC	16V 2A	
安装孔距	30.5*30.5mm，ø4mm/M3	
产品尺寸	54*57*7mm(L*W*H)	54*57*10mm(L*W*H)
产品重量	43g	66g

3 尺寸重量



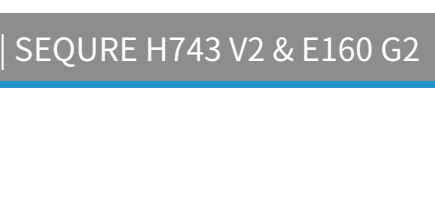
SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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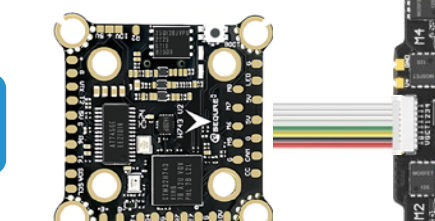


4 安装

注：请一定按照官方指定正确的安装方式安装，否则由安装问题引起的故障不在保修范围内。



H743 V2&E130 G2标准安装方式

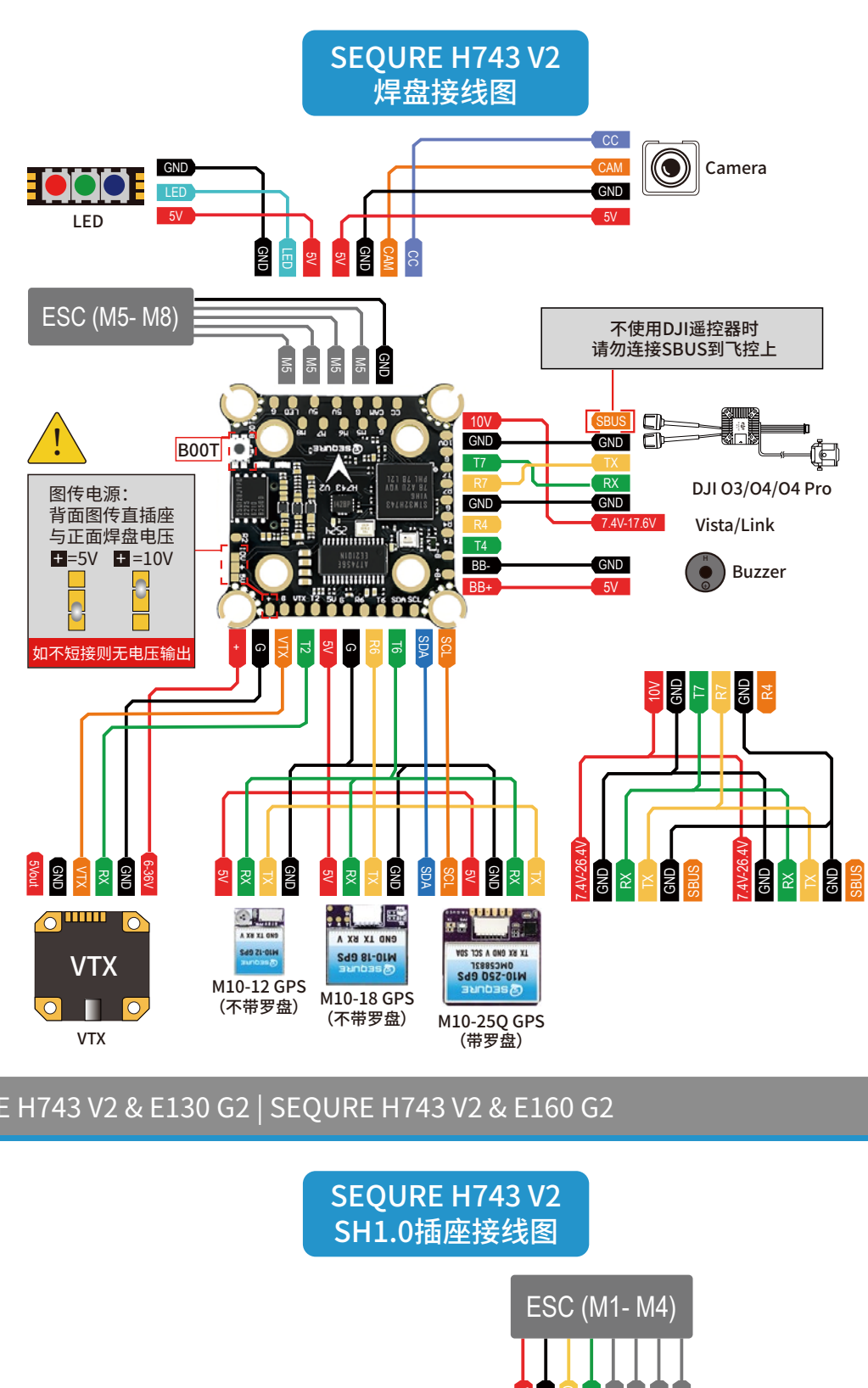


H743 V2&E160 G2标准安装方式

SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

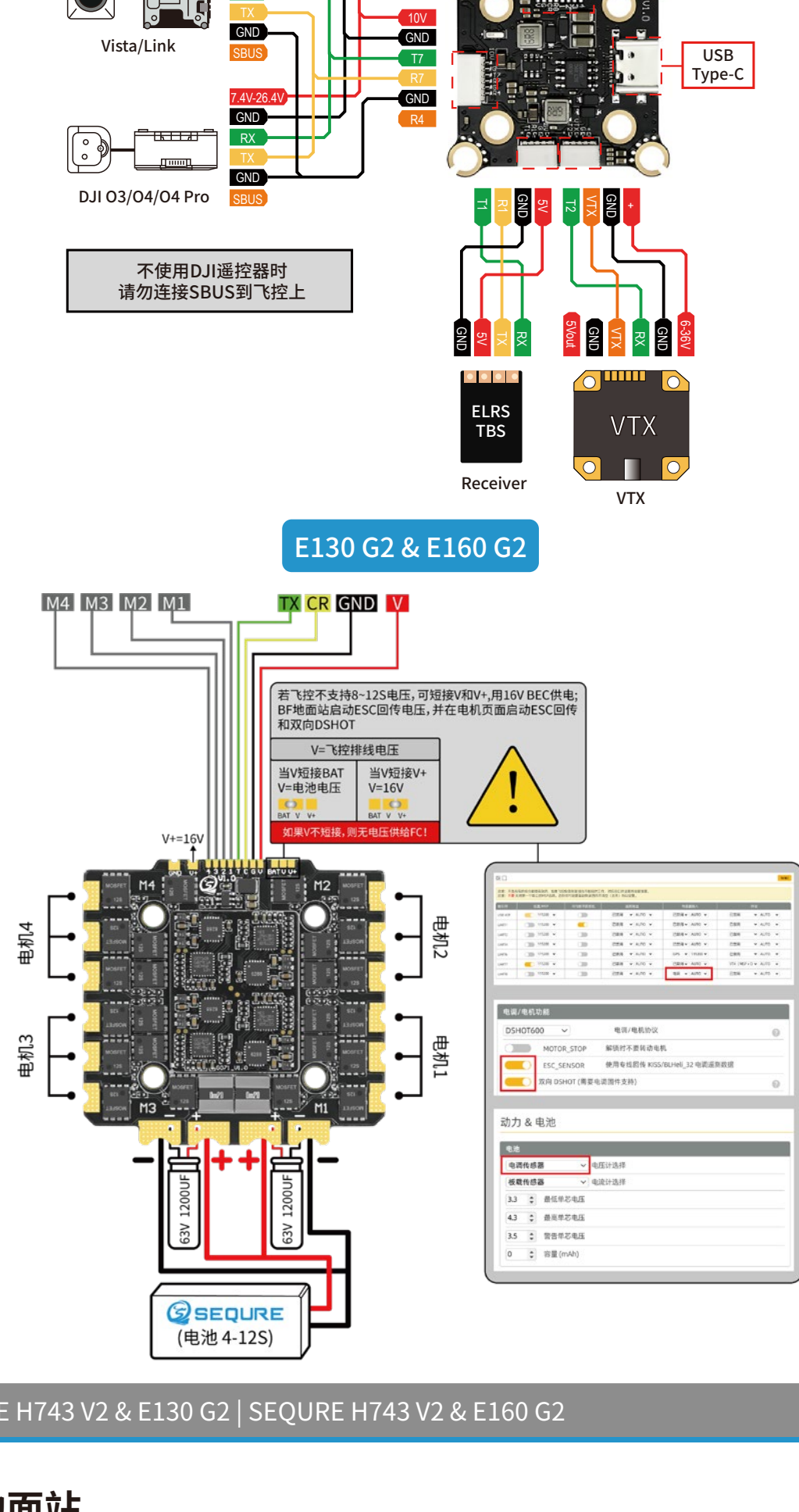
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5 接线图



SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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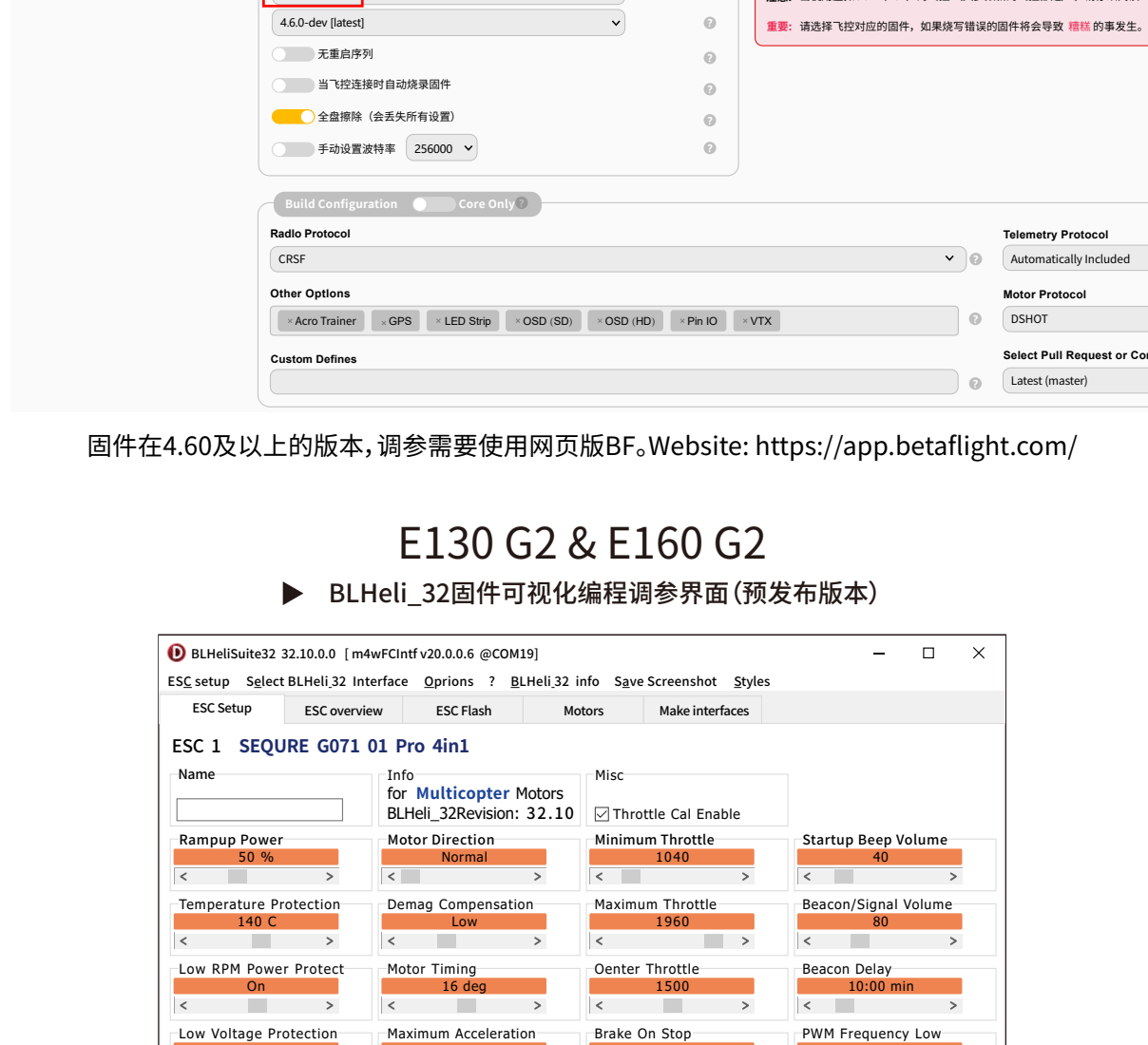
SEQUIRE H743 V2 & E130 G2 | SEQUIRE H743 V2 & E160 G2

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6 地面站

SEQUIRE H743 V2

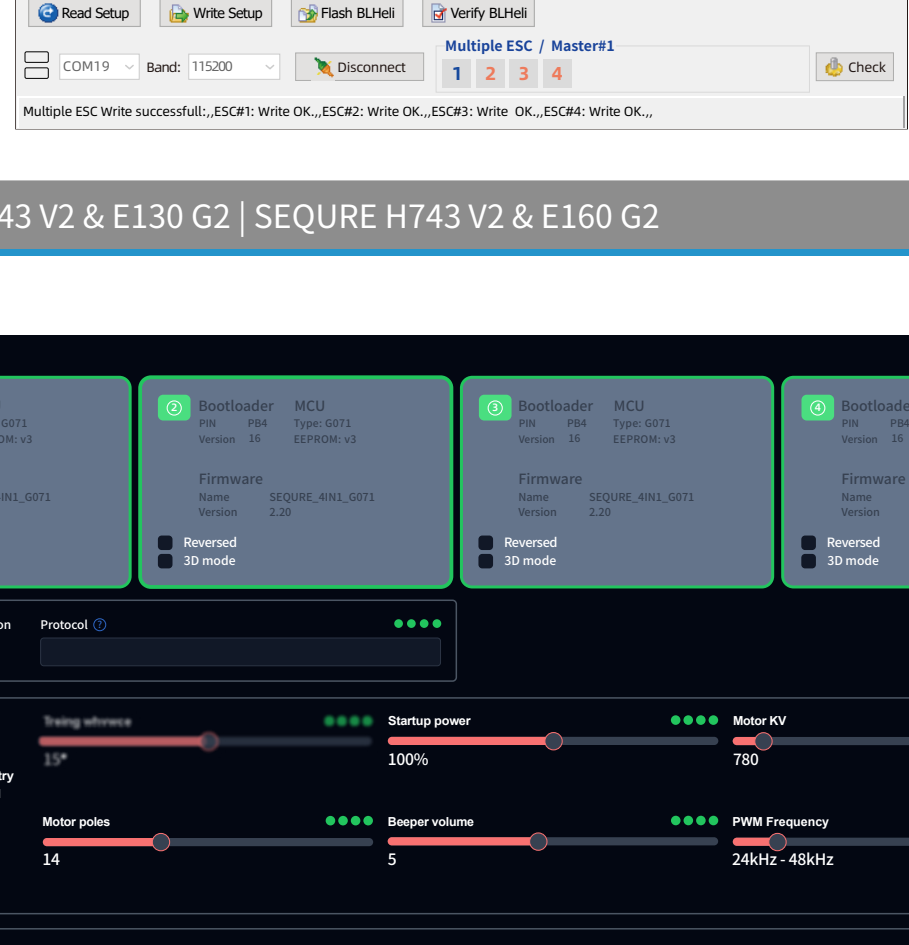
► 飞控更新固件版本



固件在4.60及以上的版本，调参需要使用网页版BF，Website: <https://app.betaflight.com/>

E130 G2 & E160 G2

► BLHeli_32固件可视化编程调参界面 (预发布版本)



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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，厂家提供免费维修服务。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.sequiremall.com
info@sequiremall.com
0769-89399884

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