

PRODUCT FEATURES 產品特色



RCE-BL25A Brushless ESC can be set up by ALIGN ASBOX Multifunction Programmer. So please scan QR code for ALIGN website start downloading for more information: <http://www.align.com.tw/download-en/asbox/>

RCE-BL25A無刷調速器可透過ALIGN ASBOX 多功能設定盒進入參數設定，請掃描QR Code 連結亞拓網站下載相關資訊：<http://www.align.com.tw/download-en/asbox/>

- High performance microprocessor for excellent motor speed-governing and super soft start-up.
- Microprocessor powered by independent IC regulator has better anti-interference performance, which greatly reduces the risk of losing control.
- DEO (Driving Efficiency Optimization) Technology adopted greatly improves throttle response & driving efficiency, reduces ESC temperature.
- New switch-mode BEC with adjustable output voltage ranges from 6V to 7.4V and continuous/peak current of 7A.
- BEC is separated from other circuits of the ESC, it may keep normal output even when MOSFET board of the ESC is burnt or breakdown.
- Multiple flight modes: Fixed-wing, Helicopter (Linear Throttle), Helicopter (Elf Governor), Helicopter (Store Governor).
- New governor program with adjustable governor parameter brings excellent speed-governing function, keep the propeller revs stability when the load changes dramatically.
- Data logging records the standardized RPM, minimum voltage and maximum temperature of the flight.
- "Auto restart function" can manually interrupt the auto rotation and quickly restart the motor to avoid crashes caused by incorrect operations.
- Independent output port for RPM (that is: motor speed) signals. • Separate programming port for ESC parameter setup through ALIGN ASBOX Multifunction Programmer.
- WIFI module for programming the ESC wirelessly with your smart phone (iOS or Android).
- Allow for data checking, ESC programming, speed curve checking, and firmware upgrade online. (ALIGN ASBOX Multifunction Programmer or WIFI Express is needed)
- 使用高性能微處理器，相容多種無刷馬達，具備優異的定速和緩啟動性能。
- 微處理器採用獨立的穩壓IC給供電，具有更好的抗干擾能力，降低失控的可能性。
- 採用同步整流驅動效率優化技術（DEO，Driving Efficiency Optimization），油門回應更快，驅動效率更高，無刷調速器溫度更低。
- 使用新的大功率開關穩壓BEC，輸出電壓在6V-7.4V之間可調，瞬間輸出電流提升至7A。
- BEC模組和電子調速器其他電路相互獨立，當無刷調速器功率板出現燒毀等故障時，最大限度保證BEC正常輸出，提供救機機會；
- 具有“固定翼模式/直昇機線性油門模式/直昇機定速模式/直昇機存儲定速模式”4種飛行模式。
- 使用新的直昇機定速程式，定速感度可調，易於操作；具有優異的定速效果，在負荷急劇變化的情況下，保證螺旋槳轉速穩定。
- 具有飛行資料記錄功能，可記錄當次飛行的最低電壓、最高溫度資料、最大電流、標定轉速。
- 具有熄火降落保護功能，在保護時間內可手動中斷熄火降落過程並快速重新啟動馬達，避免因失控而墜機。
- 具有轉速（RPM）訊號輸出介面。
- 具備獨立參數設定介面，用於連接多功能LCD專業程式設計ALIGN ASBOX 多功能設定盒進行參數設定。
- 支援WIFI無線設定，通過手機端(iOS或Android)軟體可完成所有參數設置（需要WIFI模組）。
- 支援線上讀取、設定電設定數，查看速度曲線表（存儲模式下），升級電子調速器固件（需要LCD參數設定盒或WIFI模組）。

USER GUIDE 使用說明

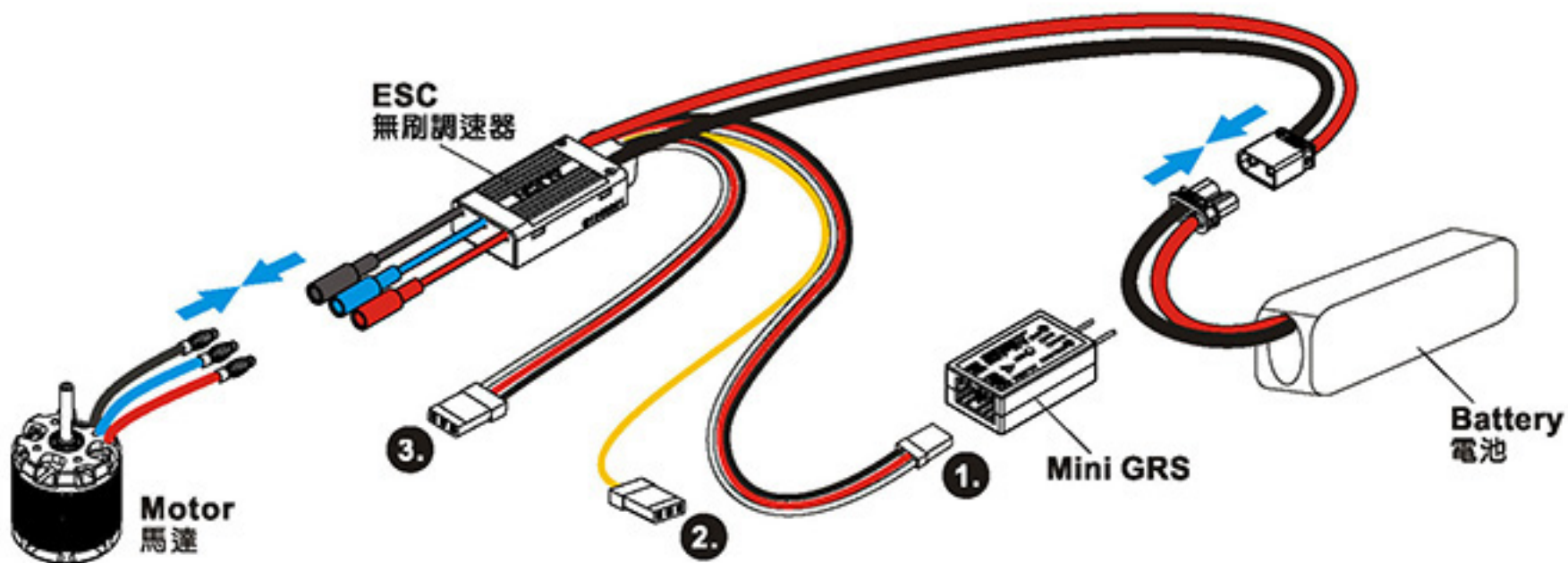


The default throttle range of this ESC is from 1100 μ s to 1940 μ s, so you need to re-calibrate the throttle range when the first time you use this ESC or after you replace the transmitter.

無刷調速器的油門行程出廠預設值為1100 μ s~1940 μ s，當首次使用無刷調速器或者更換其他遙控器使用時，均應重新設定油門行程。

I.Connections 接線示意圖

1. Throttle Signal Wire (White/Red/Black) : plug it into the throttle channel on the receiver or the corresponding channel on the FBL system. For which channel you should plug it in, it depends on what kind of receiver and FBL system you use. The White wire is for transmitting throttle signals, the Red & Black cables are parallelly connected in the BEC output wire, which means BEC voltage output wire and ground cable.
2. RPM Signal Wire(Yellow) : plug it into the RPM input channel on the flybarless system. (This wire can be used for provide RPM signal data when using external speed-governing device.)
3. Individual Parameter Programming Interface (short white, red and black) : for connect ASBOX Multifunction Programmer
1. 油門信號線（白、紅、黑）：插入接收機油門通道或無平衡翼系統對應通道，具體視接收機類型及無副翼系統類型而定。其中白線用於傳送油門信號，而紅線和黑線分別並聯在內部BEC的輸出端（即BEC電壓輸出線和地線）。
2. RPM信號線（黃）：插入無平衡翼系統轉速輸入通道；（當使用外部定速時，可使用RPM信號線提供轉速信號輸入）
3. 獨立參數編程接口（短的白、紅、黑）：用於連接ASBOX 多功能設定盒。

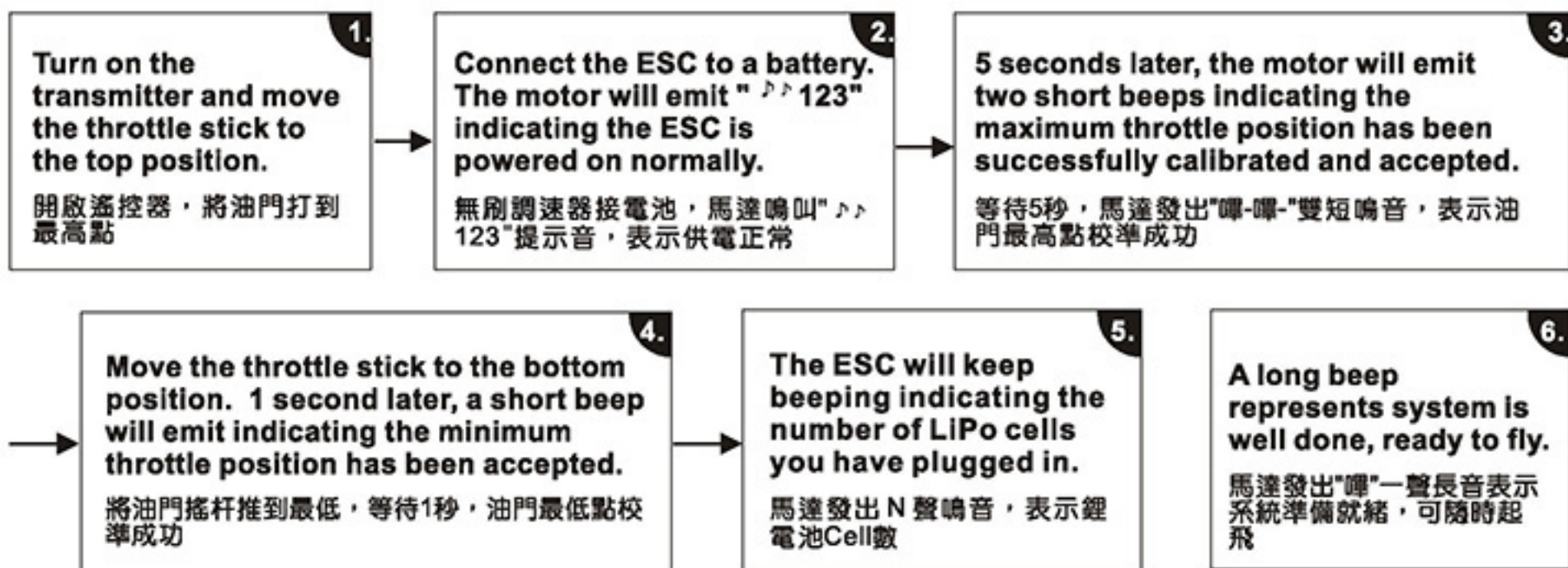


II. Throttle Range Calibration 油門行程校準操作方法



During the throttle range calibration, please set the throttle curve to **NORMAL** and ensure the corresponding throttle amounts to the maximum throttle endpoint and the minimum throttle endpoint on your transmitter are respectively 100% and 0%.

進行油門行程校準時，請將油門曲線設置為**NORMAL**，並確保遙控器油門最高點對應的油門值為100%，油門最低點對應的油門值為0%



SPECIFICATIONS 產品規格

Model 型號	RCE-BL25A Brushless ESC RCE-BL25A 無刷調速器	Cont./Peak Current 持續/瞬間電流	25A/40A
Input Voltage 輸入電壓	3~6S LiPo Battery(11.1V~22.2V) 3~6S鋰電池(11.1V~22.2V)	Size/Weight 尺寸/重量	47x22x10mm/27g
BEC Voltage BEC 電壓	Switch-mode, 6V~7.4V Adjustable Voltage ,3A/7A Cont./Peak Current 開關穩壓BEC，輸出電壓6V~7.4V可調，輸出電流持續3A，瞬間7A		
Main Applications 應用範圍	For 250-300 Class Helicopter (Propeller: 150~300mm) 250-300級電動直昇機 (槳長：150~300mm)		
Separate Programming Port 獨立參數程式設計介面	For connecting ALIGN ASBOX Multifunction Programmer, WIFI module. 用於連接ALIGN ASBOX多功能設定盒或WIFI模組。		