

BEASTX MICROBEAST²

Thank you for buying ALIGN Products. Please read this manual carefully before assembling. We recommend that you keep this manual for future reference regarding tuning and maintenance.

承蒙陽下選用亞邦系列產品:議長謝蒙·捷入基陸世界之前必須告訴您許多相關的知識與注意 事項,以確保您能夠在使用的過程中較得心應等。在開始操作之前:調務必詳與本說明書,相 信一定能夠給你帶來相繼大的幫助,也讓你受勢保壓這本說明書,以作為日後參考。

Compatible with helicopter of all sizes from T-REX 250 to T-REX 800 MICROBEAST2 Flybarless System. Here we use T-REX 700 as an example.

MICROBEAST2 無平衡質系統電子設備相容小型直昇機至大型直昇機T-REX 250~T-REX800。在此我 們以T-REX 700作為操作额例。



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Radio Control (R/C) multicopters are not toys. R/C multicopters utilize various high-tech components to achieve superior performance. Improper use of this product can result in serious injury or even we death. Please read this manual carefully before operating, and make sure to be conscious of your own personal safety and the safety of others nearly when operating all ALIGH products. Manufacturer and control activities of the personal safety and the safety of their nearly when operating all ALIGH products. Manufacturer and only the part of the personal safety and the safety of the personal safety and the safety of the personal safety and the safety of the personal safety and the personal safety and the safety of the personal safety and the safety of the personal safety and the safety of the personal safety of the pe

We recommend that you seek the assistance of an experienced pilot before attempting to fly our products for the first time. A local expert is the best val properly assemble, setup, and fly your model for the first time. Any damage of issalistation as a creation degree of skill to operate, and is an expendation as a result of acceleration or modifications are not covered by any exercise. Any damage or dissalistation as a result of acceleration or modifications are not covered by any exercise of the control of th

In addition, R/C multicopters and its components are precision electronics susceptible to interferences from external forces such as magnetic field and radio signal. Should the multicopter or any onboard photographic equipment suffers loss or crash damage as result of external magnetic or radio interferences. Alian cannot be held liable as the cause is beyond our control.

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the property of others.

借為本產品的使用者,做、是對一對於你自己提作的環境及行為會全部的責任之人。

in danger.

WARNING LABEL LEGEND 標誌代表演義



Do not attempt under any circumstances.

在任何禁止的環境下,請勿營試操作。



Mishandling due to failure to follow these instructions may result in serious damage or injury.



因為疏忽這些操作說明,而使用錯談可能造成財產損失或嚴重傷害。 Mishandling due to failure to follow these instructions may result

因為疏忽這些操作說明,而使用錯誤可能造成危險。

安全注意事項

- · Fly only in safe areas, away from other people. Do not operate R/C aircraft indoors or within the vicinity of homes or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including: lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as of a result of R/C aircraft models.
- Prior to every flight, carefully check all parts such as blades, screws, frame, arms, etc; ensure they are firmly secured and show no unusual wears, or unforeseen danger may happen.

 遙控飛行機屬高危險性商品,飛行時務必遠離人群,禁止於室内飛行。人為組裝不當或未定期檢修造成的機件損 壞、電子控制設備不良,以及操控上的不熟悉、都有可能導致飛行失控損傷等不可預期的意外,請飛行者務必注 意飛行安全,並需了解自負融級所造成任何意外之責任。

· 每超飛行前須仔細檢查機身各部位之零/配件/電子設備之性能是否正常,及無損耗老化現象,並確實將螺絲鎖緊 才能升空飛行。並做好定期檢修,發至需件或電子產品異常所造成不可預期意外。

○ FORRIDOEN LOCATE AN APPROPRIATE LOCATION 读辦歷廢物及人群

R/C aircraft can fly at high speed, thus posing a certain degree of potential danger. Choose a legal flying field consisting of flat, smooth ground without obstacles. Do not fly near buildings, high voltage cables, or trees to ensure the safety of yourself, others, and your model. Avoid location with magnetic and radio interferences. Please choose a legal fiving field. Do not fly your model in inclement weather, such as rain, wind, snow or darkness.

遥控飛行機飛行時具有一定的速度,相對的也潛在著危險性,場地的選擇也相對的重 要,請用遵守部地法規到合法遙控飛行場地飛行。必須注意周邊有沒有人。結構、達 等。請用遵守部地法規到合法遙控飛行場地飛行、必須注意周邊有沒有人。結構、達 發展。最嚴重線、結本等等,發發風場干燥。外力訊號干擾及嫌控的不當选成自己與 但人財產的損壞。請蔣齡與發展在空順合法專屬飛行場地。請勿在下兩、打雷、沙塵等 高劣天候下操作,以確保本身及機體的安全。



CAUTION KEEP AWAY FROM HEAT

R/C aircraft are made of various forms of plastics, such as carbon fiber and polyethylene. Plastics are very susceptible to damage or deformation from extreme heat and cold climate. Make sure not to store the model near any source of heat such as oven or heater. It is best to store the model indoors, in a climate-controlled, room temperature environment. 逐控飛行機多半是以碳纖維、 PA 纖維或聚乙烯、電子商品為主要材質,因此要需量清

蘇熱流、円曜,以游罕因高湝而變形甚至僻毀損壞的可能。



PREVENT MOISTURE 清報時間報時間

R/C aircraft are composed of many precision electrical components. It is critical to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in loss of use, or a crash. Do not operate or expose to rain or moisture.

遥控飛行機内部也是由許多精密的電子雲網件組成,所以患須經鞘的防止淵濕或水氣。 避免在治室或雨天時使用,防止水氣進入機身内部而導致機件及電子零件故障而引發不 可預期的意外」



PROPER OPERATION 勿不常使用本產品

Do not attempt to modify the aircraft to alter its intended design. Please use only designated replacement parts listed in the manual to ensure its design structure integrity. Operate this product within its intended design parameters; do not overload it with excess cargo. This product is limited to personal hobby use, and pilot should be proficient with operation of this model. Follow all local law and ordinances when operating. Do not use this product for purposes which may violate others' personal privacy, and respect other's intellectual properties. Do not use this product for illegal purposes or beyond the bonds of common safety.





Before turning on your model and transmitter, check to make sure no one else is operating on the same frequency. Frequency interference can cause your model, or other models to crash. The guidance provided by an experienced pilot will be invaluable for the assembly, tuning trimming, and actual first flight or unforeseen danger may happen. (Recommend you to practice with experienced pilots or with computer-based flight simulator firstly.)

至飛行場飛行前,震震認是否有相同頻率的同好正進行飛行,因為關係相同頻率的可發射機將與数自己與他人立即計學等級外危病。遙控飛行機按控抗互使等 單的期有等一定的發展。與畫臺歷第第自操作機行。無有經驗的人士存棄能 選,才可以提神飛行,否則將可能造成不可預期的意外發生。(勸練電腦模擬 與 D 老手在 場 招 編 是 入 門 心 寒 的 课 摆 b





AWARNING SAFE OPERATION

Operate this unit within your ability. Do not fly while feeling impaired, as improper operation may result in danger. Never take your eyes off the model or leave it unattended while it is turned on Immediately turn off the model and transmitter when you have landed the model.

請於自己能力內及需要一定技術範圍內操作這台遙控飛行機,遏於疲勞、精神不佳或 不觉操作,意外發生風險將可能會認高。不可在視線範圍外飛行,隨落後也請馬上關 **卓诺控张行榜和据控然贯源。**





ALWAYS BE AWARE OF THE ROTATING BLADES 清難運轉中零件

During the operation of the multicopter, the rotor will be spinning at a high rate of speed. The blades are capable of inflicting serious bodily injury and damage to surrounding properties. Be conscious of your actions, and careful to keep your face, eyes, hands, and loose clothing away from the blades. Always fly the model a safe distance from yourself and others, as well as surrounding objects.

淄枠飛行機主即單/螺旋學運轉銷會以高額速下進行,在高額速下的主旋臂/螺旋 樂會造成自己與他人在身體上或環境上的嚴重損傷,請勿觸摸運轉中的主旋翼 /螺旋旋,並保持安全距離以避免造成危險及損應。



MICROBEAST²SAFETYNOTES-MICROBEAST 2安全注意事項

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Radio controlled (R/C) helicopters are not toys! The rotor blades rotate at high speed and pose potential risk. They may cause severe injury due to improper usage. It is necessary to observe common safety rules for R/C models and the local law. You can gather information from your local R/C model club or from your national modelers association.

遙控直昇機不是玩具!螺旋樂高速旋轉帶來的潛在風險相當高,它們可能會轉致嚴重的傷害,一切的使用要符合並應好用的安全表開,並且遵守營始的無線電鑑控模型結會制度規定。您可以依當她的模型與樂部或從您的國家新稅運動結會取得相關資訊。

(ACAUTION 注意

Pay attention to your own safety and the safety of other people and property in your vicinity when using our product. Always fly in areas away from other people. Never use R/C models in close proximity to housing areas or crowds of people. R/C models may maiffunction or crash due to several reasons like pilotine.

R/C models may malfunction or crash due to several reasons like piloting mistakes or radio interference, and cause severe accidents. Pilots are fully responsible for their actions, and for damage or injuries caused by the usage of their models.

注意自己與他人以及幫物的安全,在原使用裝門的產品時,讓她這灣進奪與人群。遙控百昇機可能在飛行中出現任何意外。可能是飛行員的接接失該,或者是無線電干量,並導致嚴重 事故的發生。飛行員必須為自己的行為負完全實在「以及所造成的任何指言。

企CAUTION 注意

Please read the following instructions thoroughly before the first use of your MICROBEAST² and setup the system carefully according to this manual . Allow sufficient time for the setup procedure and check each step carefully. Watch for a mechanically clean and proper build of your helicopter . A wrong system setup can lead to a serious accident and damage to the model.

設置 MICROBEAST² 時請仔細閱廣以下說明,並且一定要報出足夠的時間來仔細設定,並 小心檢查每一個步驟。除此之分,也要特別注意無平衡實施質認與,可能繼到應會份應亦發生。

企CAUTION 注意

Radio controlled (R/C) models consist of several electrical components. It is therefore necessary to protect the model from moisture and other foreign subtances. If the model is exposed to moisture this may lead to a malfunction which may cause damage to the model or a crash. Never fly in the rain or extremely high humidity.

無線遙控模型,是聽由許多電子零件組裝而成,因此有必要保護運些錦錦的電子零件,例如 防水、筋壓等工作。如果遙控模型受潮可能導致故障,請絕對不要在兩天或濕度檔高的氣候

企CAUTION

When operating the helicopter with a MICROBEAST *ensure there is a sufficiently large and stable receiver power supply. Because of the direct coupling of the rotor blades to the servos, without the use of a flybar mixer, the servos are exposed to increased catualing forces. In addition, because of the intermediary electronic gyro system, the servos are driven more often than with raditional use. These factors can make the power consumption increase a lot compared to a flybar factoper. When the supply voltage falls below 3.5 volts carried to a flybar fall forcity of the supply voltage and reboot. In this case a create of the helicopter is unavoidable.

接控您的直昇解转,請確保MICROBEAST*等一個充足、銀定的提次機需演。由於十至縮危 飲養通接達性千些。主定質,不使傳統員關希拉混控度實施那樣的省力。所以请特別注意 1 無平衡質量并機使用的的規模會關待特別的耗電,指表的確定認的供電系統有正確的供電 不可能是在於3.55小的使是使阻留的時態,系統飛朝附並重新容動。在這種關另下,變 穩度很難避死的



Do not expose the MICROBEAST ² system to extreme variations in temperature. Before powering up the system, wait some time so that the electronics can acclimatize and any accumulated condensation is able to evaporate.

請勿讓 MICROBEAST[®]在極端溫度變化的環境下飛行,例如從溫暖的室內矩時間帶到寒冷的 室外,環境轉換至少需有20 分鐘以上的緩衝遊應,讓電子零件上的水氣緩結擇發掉,才能 與過電能機。



The sensors of MICROBEAST ^a consist of highly sensitive electomechanical components. These can be damaged due to moisture or mechanical or electrical impact. Do not continue using this product, if it hase been exposed to such influences, e.g. dure to a crash of the model or due to overvoltage caused by a defective receiver power supply. Otherwise a failure may happen any time.

MICROBEAST^{*}包括高度敏感的電子元件,它可能在灣濕的環境中、機械波電子的衝擊中受 到損害。別果您的模型已經遭受到提擊,或者接收器的電源供應不穩定等等,請不要繼續使 用MICROBEAST^{*},否則放跨會不關發生。



When operating electric helicopters make sure that the electric molor cannot start inadvartently during the selvar procedure. Penticularly pay attention if using a single-line receiver and if the ESC is connected directly to the MICROBEAST I. We recommend disconnecting the electric motor from the ESC during the setup procedure. Prior the first usage please slide the motor/priors away from the magent, they mose that the motor does not to start intradvertently when the

操作電動直昇機等。請程保電動馬達不會在安裝過程中無差開營動。尤其要特別注意,如果 您使用的是單線連接接收器,且ESC直接連接到MICROBEAST²。我們建議在安裝過程中 ESC不要連接電動設定。在第一次使用之前,請消動馬達/總輸以退期主總輸,然後較查馬 環不會在關係接吸設施接收局。



When operating the RPM Governor feature of MICROBEAST It is essential to ensure that the motor cannot start by accident whem making adjustment or performing preparations to start the engine. Carefully read this manual and make sure you fully understand how the RPM Governor feature is operated before making any adjustments. Also make sure the motor does not start when the radio link is interrupted or when you switch on the transmitter initially. With electric driven models do not dock the motor to the radin gear unless the electric driven models do not dock the motor to the radin gear unless unsufficient safety distance to the motor and other rapidly rotating components of the heliconfer.

操作 MICROBEAST² 的 RPM定速模式時,講確保馬達不會在調整或準備經數引擎過程中無 意間視容動。調整前請仔細閱讀本說明書了解 RPM定透板式的操作特性,並請確保在開係或 關本證故榜時,馬達不會被包動。使用電動直具機時猶不要連接馬達該主齒額,將非確定所 有必要的調整已經完成。量長機內的馬達及其他快速機動的零件必須採持足夠的安全開業。 企 CAUTION 注意

MICROBEAST* with AttitudeControl can be used as a flying aid for beginners as the reaction of the helicopter to stick inputs can be limited and as an electronic control circuit can help to stabilize the helicopter. However, this does not provide that the helicopter can always be flown safely! By incorrect control inputs the helicopter still may crash or be placed in a position in which the pilot becomes discrimented even when using AtthudeControl. In addition, the helicopter can drift device can stabilize the helicopter at any time and recover from any contentation. Influences such as temperature fluctuations or vibrations may cause incorrect results and distort the position calculation of the system in consequence. There is no guarantee that the system will always work correctly. Only the pilot is responsible for the control of the helicopter and thus also for the and be able to false over full control of the helicopter.

企CAUTION 注意

We suggest you to seek the support of an experienced helicopter pilot before you undertake the first flight of your model. Additionally, flight training with a R/C simulator can help make flight geasier and more enjoyable. Ask your local dealer if you need technical support or if you observe problems during the usage of our system.

我們建議炤專求具有足夠經驗的遙控直昇機玩家,然後再進行第一次的MICROBEAST"搭配 飛行。此外,飛行訓練用的RIC模擬器可以解節使飛行更簡單,更有樂趣。如果您有任何技 荷支援或系統使用的問題,誘與當地行理座絡。

CAUTION

AttitudeControl can help to facilitate flying of model helicopters by briefly passing over control to the system if the pilot becomes disoriented . By using the built-in artificial horizon the helicopter can be brought to a nearly horizontal position so that the pilot gains time to reorient . Thus there can be no assurance that the model is saved from a crash in general. Depending on the current attitude and the speed of the model and depending on how fast the AttitudeControl is activated, the model may crash before or while the system tries to recover. addition, the helicopter can drift due to external influences and it is not quaranteed that the artificial horizon of the device can stabilize the helicopter at any time and recover from any orientation. Influences such as temperature fluctuations or vibrations may cause incorrect results and distort the position calculation of the system in consequence . Strictly observe the general safety rules for dealing with RC models and do not totally rely on the system. The pilot is responsible for the control of the helicopter and thus also for the use of the system . You must always be able to turn off the system immediately and be able to take over full control of the helicopter.

QUICKSTART GUIDE V5.4v5.4快速導覽

ALIGN

Dear customer,

Thank you for purchasing our product.

MICROBEAST¹ is a high-end gyro system for RC helicopters that has been developed in Germany using latest technology and setting high standards. It can be used with many different types of helicopters like 3D aerobatic helis, F3C competition helicopters as well as scale helicopters with 2 or more rotorblades.

The system comes with BASIC hybariess stabilization functionality and can be upgraded by paid update to the PROEDITION. This enables additional features like AltitudeControl for recue ballout or constant leveling and feature called "Bank Switching" which allows to switch between parameter presets in flight to serve different flight conditions or flying styles.

To setup MICROBEAST ² there is no need for any additional devices. All you need is your radio system and your helicopter. Thanks to the well proven "EasySetup" concept you can do all the necessary adjustment directly at the device and you "re ready for take off within a few minutes.

This Quickstart Guide is a clearly arranged guide that will lead you step-by-step through the basic flight setup. Please follow this guide carefully and make sure to read the attached safely notes read detailed instruction manual and further details, tipps, tricks and notes about the product please visit WIKI BEASTX COM

親爱的客戶:

根拠的を戸: 概測依使用MICROBEAST² 無平衡質控制系統!

級商認促使IndividuoDEADI In "相談異位制系統" MICROBEAST² 採用德爾曼斯货幣和最高標準,可適用於多種直昇機類型,像是3D飛行、F3C競賽或是雙旋 直昇機常數像真機被等,不僅有基本的無平質便是系統,提有進階付舊升級功能,此進階功能有多無模式, 可作為共經程數度效即能,在飛行時期容易報度式,系統會在不同の操作模式利息用程序之關維行選擇,然

級精整体器定置屏幕的飛行。 您ZMICROBEAST 不需要任何其它設備,您只需要通知器的百算费。透谱"EasyStUp" 的概念您可以 直接在黑平铜板控制系制上保任何稳定,使您的百里根据在很分组之内贴连升空。 本快致入归捐服派以非常服理目则保的方法。一步一步增强灭底基本的风行政。並请叛必任姆姆满其安 走运事事事,保护等部份使用规则等和更多的遗憾。按约和定意事事,通数置以下畅动。

WIKI.BEASTX.COM Designed for STUDIE

If you like to get more insight into the system and like to have a more visualized type of setup you can use the StudioX App for PC/mac or StudioXm for your smartphone/tablet in combination with the USB2SYS interface (PC/mac) or BLE-SYS interface (ST-Grae) or BLE-SYS interface).

These apps are the source to get even more out of your device like saving/restoring paramaters, firmware updates, loading preset hell configurations and making advanced adjustment to fully customize your MICROBEAST 2 to your needs.

N.

StudioX can be downloaded from: STUDIOX.BEASTX.COM

STUDIOX設計理念

如果您希望更進一步網解系統歐定內容或與程,以下應配功能可供使用,認可連 据USB2275/下面透透SudioX AppEPC/IMAC上設定,或連絡UE23Y5/市面透過 SudioX/而任于機平板上設定。以上Apps系規提供信令意數、詢婚升級、下數參 數和進程功能設定等,能更符合您使用MICROBEAST"的需求。 SudioX不要數字 STUDIOX REATY COM



This guide is intended to be used with MICROBEAST 2 firmware version 5.2.x only) After power up when the Status-LED lights red, for a few seconds in the left row menu LEDs A and C indicate major version "5". The yellow LED next to I stands for "2".

本快速指南所描述的調整內容,只適合 MICROBEAST 2 Version 5.4.x 版本 I 關機後,Status-LED燈竟紅色,幾秒之後,在左排選單中LED燈號A和C顯示 了主程式的版本"5",LED燈號I系新榜代表"2"。。



ARDWARE INSTALL ATION 體安裝方法

ALICN





You can position MICROBEAST 2 flat or upright on the helicopter. The large socket must point to the front or to the rear of the helicopter.

MICROBEAST 2 可以平放減倒 貿安裝於直昇機上・最大的舗 口必須對進市星機的前方或後 方。荷小的白色絲口雲對海 X

The small white socket must be aligned with the longitudinal axis. The sensor axis (housing edges of the device) must be aligned exactly parallel to all three rotation axis of the helicopter. However, it is allowed to position the device offset from the rotation axis.

做威器帕(MICROBEAST 2 的恐惧强)必须准確地平行於官界機的三個旋轉帕(主軸、棒軸、尾傳助線輪軸)。然而,其安 选价管在始终的的部份内别可。

- In summary there are 8 mounting orientations possible:
- 1.flat, sticker on top, socket pointing to front*
- 2.upright, button up, socket pointing to front 3.flat, sticker showing to ground, socket pointing to front
- 4.upright, button down, socket pointing to front
- 5.flat, sticker on top, socket pointing to rear
- 6.upright, button up, socket pointing to rear 7.flat, sticker showing to ground, socket pointing to rear 8.upright, button down, socket pointing to rear

- 統共有八種不同安裝方向供您選擇:
- 1.平放/贴紙朝上侧/插口朝飛行方向*。
- 2.垂直/按鈕朝上側/插口朗飛行方向。
- 3.平於例謂/贴紙朝底部/格川朝飛行方向。 4.垂直整置/按钮翻译系/据口翻形行方面。
- 5.平放/站紙朝上側/插口朝尾管。
- 6.垂直/按鈕朝上側/插□朝尾管。
- 7.平放倒图/脐纸朝底宽/纸口朝屋管。
- 8.垂直倒置/物鈕朝座鄉/插口朝屋管。





報行方向











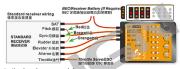


Use one of the supplied 3M gyro pads to stick the device to your helicopter. The device housing must not directly touch the chassis of the helicopter. When connecting and laying out the servo and receiver wining later orwards please make sure the wires do not pass tension to the MICROBEAST^{*}. It is not recommended to bundle or tie down the leads close to the MICROBEAST^{*} device.

請使用強質用贈的 3M R空偏偏再用燃烧來固定 MICROBEAST - 交卖 MICROBEAST - 转。请勿將連接線拉得 太票。高額保本體能採用的自動學可聞,這樣才不會因為連接換水業而將最初層遇到應應多。也不建議在 推理立進億的地一部網絡或無無束帶。一一門也,所有線付售須賀實提步、以避免飛行時 MICROBEAST ' 因數 心力而認意 - 特別是,顯不受在爰使 MICROBEAST ' 创業接線上使用任何除線套管、保護套管來規則連接條 "或學母發展是用不過失,引起應數。維而影響則 MICROBEAST ' 可以

2 CONNECTING THE RECEIVER 接收器連接

ALIGN



The illustration is only an example!
The function assignment of the transmitter determines which channel on the receiver controls which function.

此團僅供參客 連程器通道分配決定了個別接收器在遙控器通道上的控制功能。

The assignment of functions to the radio channels is mentioned in the manual of your radio system. Also you may find out the function assignment by checking your transmitter's servo monitor. The connectors of MICROBEAST are assigned to the functions as follows:

AIL|CH5 = Alleron, ELE|DI1 = Elevator, RUD (orange wire) = Rudder, PIT (red wire) = Thrust, Aux (brown wire) = Gyro gain

The wires for alleron and elevator additionally transfer the power between MICROBEAST ² and receiver.

Single-Line receivers

Using a Single-Line receiver all channels/functions are transferred by one single connection wire. This allows to use even more than 5 channels, i. e. for controlling the headspeed Governor, AttitudeControl function and additional output channels.

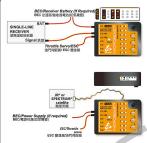
遙控器的通道分配,請參考遙控器說明書。您也可以在遙控器的伺服器簽幕上查看功能分配。

MICROBEAST² 的通道功能分配如下: AILICH5=顯闡: ELEIDI1=升經紀: RUD (標色線)=尾紀: PIT(紅色線)=油門: Aux (棕色線)=蛇螺腐度

副蟹和升峰蛇的連接線有額外的供電功能,可提供 MICROBEAST² 及接收器電源。

功能如:函轉速 RPM 定速模式, 姿態模式和 額外的輸出適道。

華線接收器連接 作用單線連接接收器時,所有通道/D終終导中一條連接線本傳流。空分許經過5個以上的通道分配,可分配



Wiring scheme for Single-Line receivers with following transmission protocols:

- 支援接收器/遷控器類型: • JR® Xbus (Mode B), Multiplex® SRXL (V1+V2)
- Jeti® UDI, Jeti® EXBUS
 Graupner/SJ® HOTT SUMD
 Spektrum® SRXL
- Futaba® SBUS
 ALIGN/FlySky iBus
- ALIGN/FlySky iBus
 PPM serial signal (SPPM)

Remote satellite: DSM2/DSMX, ALIGN iBus, JR RJ-01 DMSS Using a remote satellite is only intended for 450 size hells or smaller! For larger helis please use a full-size Sinole-Line receiv@r for your radio

使用衛星天線: DSM2/DSMX, ALIGN iBus, JR RJ-01

brand(i.e. SRXL)

DMSS 使用衛星天線,建議只使用在450級或 更小的直昇機上 客您的直昇機是較大機型,建議使用單 線伺服器連接法,例如:SRXL。

Aways make sure the power supply is stable and dimensioned sufficiently for the intended application. If possible always connect the power source directly to MICRODEAST* (not at port [AUX]PIT(RUD)) in order to minimize contact resistances. "Additional supply cables can be plugged into free receiver ports. Especially when using standards see servors its recommended to use more than one power supply cable in parallel to preserve a stable voltage and to reduce power loss due to connection resistance.

請確定使用的電腦規格符合系數更減。如果可能,請除MICROBEAST² 一個自然的電源,(不必思邈 AUXPIT/RVDBGD) ,為了某些時齡電路。與實際包有腦多一個團體的接吸機能力,才具是在作用標準伺服器 時,建議信使用一個以上的供電速接線,並使其保持平行而穩定的電腦,以減少因電流得輸產生電阻而損耗 力率。

3-PREPARINGYOUR-TRANSMITTER 準備選控器

7(01001)

Create a new helicopter model memory in your transmitter that supplies different flight modes for controling throttle, pitch and the tall gyro gain indifferent flight situations.

在認知無理學上設置金融字一個新的國界機模式,它支護不同的新行模式,在不同的情況下,控制进行。維那和尾配於護備機會。





You must not use any mixing functions on the output channels! Especially it is not allowed to use mixing functions for the swashiplate servos. Deactivate all output channels that are not used, in the basic configuration we only need pitch, alleron, elevator, rudder, throttle and one channel to adjust the tail ovo qain.

關注意: 您不能在輸出通道上使用任何混控功能: 特別要注意的是,十字盤的何級終不允許使用混定功能。請請附任何閱查 的輸出循语。系統對某本演演的配置,只需要概题、新聞、升極能、方向能、油門和一個循語來源整底影響感像。



Each control function must exactly control one output channel. Initially the serve throws must be set to 100% and all times and sub trims must be zero. For the basic setup do not change the pitch curves yet. The throttle curves and throttle serve settings can be adjusted as necessary for this model in case you do not intend to use the internal Headspeed Governor function of MICROBEATS, and the internal headspeed Governor f

Only the pitch channel	THE THE	Travel USI	DO TE STHE	Travel CEST
must be controlled when moving the thrust stick.	O DE RUO	100 100 100 100 100 100 100 100 100 100 THR AIL ELEROD SER	AIL	100 100 100 100 100 100 100 100 100 100 THR AIL ELS RUD GER
The same applies to alleron, elevator and rudder.	O D DAY	18181818	0 DEPT	100 100 100 100
移動螺旋接桿詩·只需控制螺旋通道。 同樣應用於影響、升級及昵蛇。	÷ = 1000		Axx	

企CAUTION

For safety reason, remove the motor from the main gear when performing the basic setup on electro driven models! Additionally deactivate the throttle by using the "Throttle HOLD" switch, so the motor won't start to turn by accident when moving the thrust stick.

When flying a nitro or gasser heli remove the servo horn from the throttle servo before first power up to prevent jamming of the servo due to wrong servo setup.

其於安全理由,電動百昇機在初始設定時,這移除主磁輸上的馬達驅動磁輸出外,請使用遙控器上的"Throttle HOLD"開闢,來願問油門,以確保在移動油門接掉時馬達不會轉動。

· 操行引擎直昇機,在第一次點燃引擎前,請先將油門伺服器臂移除,以至不小心或錯誤的設定而發動引擎,造成危險。





To enter RECEIVER MENU MICROBEAST 2 must be switched off completely. Push and hold the button before and while powering on. The menu LEDs will start to cycle from A to N. Now you can release the button.

Make sure your transmitter is on and sending signals to the receiver. At menu point A you can start automatic receiver type detection by briefly presenting the button once. The color of the Status LED indicates which type is currently scanned for. When the receiver has been detected the menu will skip to point 8; when there was some error the Status LED will faith in red color and the menu stays at Al. In this case please make sure you've

在進入接収器選單前,必須將 MICROBEAST 2 完全關閉。進入接收器選單時,請長按按鈕閱機,此時選單 LED會由號 A 點至堡N影響振蕩機,即可於闡接研。

LCUB DIM (创工地)特别的创意。 到最级的创意经验到现金的基件正常,企业交通维加水低。但可以包置校园一次,系统新自動间到股权观察 型。LCD 以需题示途的经表示调的的通常。需完成现金被调测象。这定逻辑曾经至阳功、到股权商捐 到最近,例Scatus LED或值曾问题,且保留在证外的,接受调解证据的股权观察是否安极正据收费理理以上间 到现金。



Single-Line receiver (Status LED purple or blue at menu point A)

When at menu point B press and hold the button for 2 seconds to load the default function assignment that has been preset for the detected radio system. Alterinatively you may program a different function assignment manually in case the default assignment does not match to your transmitter's function layout. How this works in detail you can read from the detailed instruction manual which you can get at with beast.com.

Preset function assignment for the different single-line receiver protocols (indicated by Status LED color at A and B):

單級連接接收器(Status LED 细胞液、第A形形/配位)

請長按第8點按題2秒,開始載入系級所預數之遷控器通遊分配功能,如果系統預設的通遊分配不符合您遊控器的需求,您也可以用 手動的方式來分配遙控器通道之功能。更多的評情,請參問說明書,或瀏覽wiki beastx.com.

不同的單級連接接收器預股之通道分配功能(依Status LED第A點和B點這號顯示所選擇之接收器)

● Spektrum® DSM2/DSMX/SRXL2, JR® RJ-01 DMSS or ALIGN® iBus remote satellite 海風天線

THR	AIL	ELE	RUD	GER	PIT	AX2	AX3
Throttle(CH5)	Alteron	Elevator	Rudder	Gyro Gain	Pitch	Aux(CH6)	Governor*
;@P[(CH5)	影質	升降舵	尾舵	態度	\$525	瞬助进道(CH6)	定速模式*

→ Futaba® SRus/SRus2 or RFASTX FASST compatible receiver 细胞的细胞的

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Alleron	Elevator	Throttle(CH5)	Rudder	Gyro Gain	Pitch	Aux(CH6)	Governor*
BUSE	升降配	油門(CH5)		慈庭	9425	解助通道(CH6)	定速模式*

Multiplex® SRXL v1 and v2, JR® XBUS Mode B, JETI® UDI 12+ 16ch

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Alteron	Elevator	Rudder	Pitch	Throtile(CH5)	Gyro Gain	Aux(CH6)	Governor*
8/36	升降総	尾紀	類変	油門(CH5)	膨度	朝助通道(CH6)	定述模式*

- Graupner® SUMD

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Pitch	Aileron	Elevator	Rudder	Aux(CH6)	Throttle[CH5]	Gyro Gain	Governor*
strate	898	升降配	RIEC	朝助政府(CH6)	油門[CH5]	感覚	定法模式*

Spektrum ® SRXL

• • • • • • • • • • • • • • • • • • • •									
THR	AIL	ELE	RUD	GER	PIT	AX2	AX3		
Throttle(CH5) 油門(CH5)	Alleron SIM	Elevator 升降紀	Rudder IERE	Gyro Gain 版版	Pitch \$125	Aux[CH6] 鞣的透道[CH6]	Governor* 定速模式*		

*Governor channel is used to set headspeed for governor function with nitro or gas driven helicopters *定速模式通道是用於引擎直昇機頭轉速定速功能使用。

Press and hold button for 2 seconds

長段後期でか

Release button 級職股額

Make sure throttle is



Menu LED **③** flashes Status LED is solid blue www.epsware Menu LED @ flashes Status LED flashes red/blus 類似LED的意味的影響 Surus LEOST電訊可可能機

in motor stop/failsafe position 講教規則指揮是在馬達停止疾極榮繼位置

Stenus LEDISTRIBUS WARNING R E

WARNING: At menu point N the throttle output CHS is active, when using a electric helicopter the motor may start to run! Move the throttle to the desired failsafe position which is needed in case the receiver connection is interupted oder gets disconnected. When a valid throttle position is detacked the Status LED flashes blue.

警告:在選單策 N 點,通道 5 (CHS) 油門輸出已經被開修!當使用電動直昇機,馬達將可能會開始轉動,讓將油門將桿吃到亞坦德的失程保護心實,如果使用接收器,這種就是中斷油門指令的位置。當系保資測到油門搭样在有效指令位置:1 EDIX 然指示途會附監證。

When pushing the button after setting throttle failsafe position all the receiver settings will be stored. Then all menu LEDs will flash repeatedly and the system will reboot after 3 seconds.

Receiver with "Standard" 5-wire layout (Status LED off at menu point A)

Here the function assignment is simply determined by the order of physical connection of the wires to the receiver outputs. Assignment by software is not provided and will not appear when choosing this type of receiver. When a "Standard" receiver (Status LED blue at menu point A) was detected the receiver setule is finished and the system will rebool immediately. Menu point B will not appear!

完成油門失控保護的位置設定後,按下按鈕,接收器的設定將會被儲存紀錄,所有的遊單LED將會重覆閃爍,系統將 會在3秒後重新密動。

5涌消的機絡線收器(LED緊縮指示機能A緊衛機器)

若使用「傳統撥收器」,只條利用接收器連接線的理關原本決定適道功態。如果您還得使用傳統撥收器,系統所提 供的通道分配功能和接收機類型將不會出現。但如當選維第A點選擇"Standard"後(第A點Status LED 亮藍體),接收 器的設定就等於完成了,系統語會馬上重新開騰,選單第B點將會消失。

BASIC HELI SETUP MENU 基本直昇機設定(設定選單)

ALIGN

After power up or finishing RECEIVER MENU adjustment wait until the system has initialized 開機或完成接收機選單調整後,等待系統初始化

Firmware version: 5.4.x

Calibration of radio channels 场控器通路校正

Calibration of sensor rest positions 据第8位置校正

Operation mode 銀行網25

主程式 V 5.4.x:

Do not move sticks on the radio!

Do not move the helicopterl 精烈移動資品等

Status LED lights up blue or purple Status LED 应来起

Then enter SETUP MENU for making the basic adjustments 然後推入沿置漢葉推行基本總格

Press and hold (!) Button 長被接触



Keep button pressed for 2 seconds 持續接著接接200

特尔松斯塔拉敦塔梯

Release button when LED A stops flashing



Operation mode (Status LED blue or purple) 操作模式 (Status LED 您能色浓紫色)

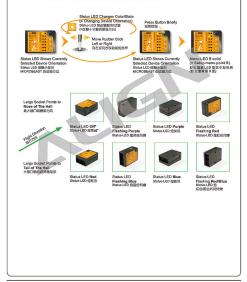
Menu LED Aflashes (= PARAMTER MENU A) 没定误链 LED 贷款 A 緊恐煙 (=多数调整)

Menu LED Alights solid (= SETUP MENU A) 粉字機能 LED 修筑A 熱樹麻 (中段定理基準AB)

SETUP MENU POINT A - DEVICE ORIENTATION (MENU LED A SOLID LIT UP) 粉定꽭單筆 A 點-放置方位 (粉定潾單 LED 熔築 A 點假寫)

Check the selected device orientation and change it if necessary by (repeatedly) moving the rudder stick into no direction until the Status LED color corresponds to the real device orientation. Then briefly push the button to save the setting and to proceed to the next menu point.

請檢查 MICROBEAST 所放置的方位是否正確,您可以將尾紀搖桿重複往一個方向移動,直到 Status-LED 燈號對應 到 MICROBEAST 的方位為止。然後期間按鈕保存設定,並進入下一個複雜點。



SETUP MENU POINTS B, C AND D

設定選單第B、C、D點

Adjust swashplate update rate (B), rudder servo pulse width (C) and rudder update rate (D) again by moving the rudder stick to ene or another direction until the Status LED light is the correct color necessary for the servos used in your helicotper. Briefly pressing the button will store the selected oxidin and skip to the next menu point.

設定十字盤伺服務的更新速率(B),尾舵中心頻寬(C) 和尾舵更新逐率(D),請左右移動尾舵搖桿到一個方向,直到此選 單點Status LED的顏色根據您的伺服器來選擇符合的燈號,然後短按按鈕,條存您的選頭,並移動削下一個資單點。



Status-LED Status-LED機	Purple SR	Flashing Red 化煅炭線	Red SE	Flashing Blue 開設問題	Blue SEE
B Swashplate update rate 8 十字盤冗談器更新选率	50 Hz*	65 Hz	120 Hz	120 Hz	200 Hz
C Rudder Servo pules width C 尼記印沙須賈	760 µs	1	960 μs	_	1520 μs*
D Rudder Update Rate D 尾蛇皮蜥溶媒	50 Hz*	120 Hz	270 Hz	333 Hz	(560 Hz)

十字個用級器選舉

企業UTION

If you don't know the which update rate is best for your servos never use more than 50Hz.

The higher the update rate the better it is for the flight performance of MICROBEAST ^a but you must check the servo specifications before increasing the update rate. Otherwise the servos may get damaged! For a list with parameter examples for most common servo types see WIKLBEASTACOM.

For the rudder servo always use 1520 μ s servo pulse width, except you're using a very special type of servo with reduced pulse width (only these servo can be used with an increased undate rate of \$500 Hzt). Check the servo data sheet

加里你不知道你伺服器的更新读案,請最好不要股常認過50Hz

如来巡小和遠巡问版的世界18年: "朝版分下金成正起端 2017年 教話の重新選率能謀MICROBEAST" 有較好的飛行表現,但您必須先檢查所使用伺服器的規格是否符合 系統要求。否則,錯誤的選擇會轉或伺服器損壞:結瀏雙WIKI.BEASTX.COM 查看更多符合無平衡賢貞 夏縣堂前の何能發動則過去數據。

部分尾紀伺服器尾舵中心頻寬需要發定在1520 u s,除非您使用的是較特別的伺服器需要使用較低的頻寬 (只有這種特別的伺服器會使用較高的更新透率560Hz)。詳見伺服器Data資料表。

SETUP MENU POINT E - RUDDER SERVO LIMIT 設定選單第 E 點- 星舵伺服器極限

Plug the rudder servo connector into **CH4** output of MICROBEAST². Put the servo arm on the servo so that it forms roughly an angle of 90 degrees with the rudder linkage rod and adjust the length of the linkage rod as described in the helicopter manual.

語消尾蛇河級務連接線插入 MICROBEAST ¹ 的 [CH4] 輸出通道,接著裝上伺服務幣,使其大約和尾蛇連桿成 90度垂直,並請依蓋昇機設納書朱牌整連桿頭的長度。



Push and hold the rudder stick into one direction to move the rudder serior and release the stick when the servo reaches the maskinum or minimum allowed servo tinow. Using the rudder stick you can reposition the servo at any time to adjust the exact servo limit. If you do not touch the rudder stick for several seconds the current servo position will be saved as maximum or minimum (the Status LED will flash and then light up sold in blue or rad color). Then move the servo to Status LED well servo servo the servo to several seconds the servo to the servo t

提住区区组织计平安石一通河间移动,依然效果。使用它间歇地向于增强的最大运动,使可以利用品的路梯 或解析基础的最级可控的特征。也可以则能比较推换的唯一。他们也可能构成之数十支域的"种理"。这样, LED 以此形示磁的效果,然使用高热量色或红色。问题,如上所述移動指挥社交内较定。等特面储存即可(此特 LED 以此形示磁的效果。



SETUP MENU POINT F - RUDDER DIRECTION 設定漢單第 F 點- 星舵方向

- 1. Move the rudder stick and check the rudder direction on the helicopter.
- 将尾蛇摇棍往一個方向移動,確認直型機尾蛇方向是否正確。







Tail rotor pushes tail left, so hell turns to right. 宏妙類的形成。所以可见物質的次





Tail rotor pushes tail right, so hell turns to left. 民政實向古秘·所以召开教育等向在

if the stick is moving the servo into the wrong direction use the servo reverse function of your transmitter and reverse the rudder channel to change stick control direction. 移動配配條桿未檢查配給與服整的的方向是否正確,如果方向不正 確,如用用條整的的反向如應来擴



2. Now set the rudder direction of the MICROBEAST 2 gyro

When you move the rudder stick to the right, the Status LED must light up or flash in blue color. When you move the rudder stick to the left, the Status LED must light up or flash in red color. When the display is inverted (red = right and blue = left) reverse the display (internal control direction) by tapping the alignor(f) stick once.

2. 設定MICROBEAST 2 原陀螺磁方向

管別網尾蛇搖桿住右時、Status LED爆號離號會閃爍,當尾蛇搖桿住左時、Status LED燈號紅燈會閃爍。如果燈號反向順行(紅燈=住右/監燈=往左),聽輕推翻實(1路桿一次、前可反向設定燈號(内定控制方向)。



Rudder stick to the right



Status LED blue



Tap aileron stick to swap colors



Status LED red

Always set servo direction in the transmitter first, then check the display on the MICROBEAST or in the software and change the internal control direction if it does not match the real direction. Do not change the internal direction in order to change the servo direction! This is only used for tetting the grow in which direction in must move the servo. Be very concisientious when doing this setup stap, as wrong gyro direction will cause loss of control during takeoff and you probably crash the helicolous.

請繼先在據晚號線定向接待方向,然樂裡認MICROBEAST⁷,现介圖上的成報級方均顯示是否正確,如得樂排 修正並能定因內。確保方可止應。該本學歷四次定程則污耍保持在上回路線參詢方向。因為內定定時別污包不持合 終的媒體更ご將何級務移動到某一個方位。所以請務砂小心此設定,配課額方向翻誤將可能造成起來失控、甚至 自然經濟放在經

- 3. Optional: When you move the rudder slick to full deflection, the Status LED should light solid, not just flash. If this is not the case, increase the serve throwlendpoint of the rudder channel in the transmitter just as far so that the Status LED changes from flashing to solid when the rudder stick reaches the end position. Note: Do not increase the endpoint too much in the transmitter. We need an exact form flashing to solid when the rudder stick reaches the other of the status of
- 3. 補充: 當尾於搖掉移動至極限行程。Status LED會恆亮。並不會閃爍。如果提頭顯示異常。請在搖股幾中的尾於通道 頭頂端加剛設於行程量。但對達到極限行程量時,Status LED始由閃爍轉為極亮。該注意:請勿在遙控終中增加過量的 何級終行程量、從Status LED與於四尺機轉為極亮時,此約的極限行程量最終。

SETUP MENU POINT G - SWASHPLATE MIXING TYPE 設定環單筆 G 點-十字驗源控額型



Status-LED	Purple %tt	Nashing Red	Red	Flashing Blue	Blue
Status-LED®		的股內服	XIII	監證問題	監體
G Swashplate mixing type G十字解源控制型	Mechanical 發版	90*	120*	140*	135*140*(1:1)

For ALIGN® T-REX helicopters you can keep the default setting of 120 degrees electronic swash mixing (Status LED **solid red**).

使用ALIGN T-REX自昇機,建議可以使用十字線混掉類型系統預約120億(Status LED億紅色倾高)。

CAUTION

Never use any swashplate mixing in your transmitter even when electronic mixing is

Deactivate the swashplate mixing in your transmitter or set it to mechanical mixing (which is often called "norma","H1" or "1 servo" mixing), so that each stick function only moves one receiver output channel. The swashplate mixing is all done by MICROBEAST 1

請勿使用遙控器中的任何十字盤混控功能,即使電動混控是必須的。

請關閉您基控器中十字解源控功能或設定為機械混控(簡稱"Normal"或"H1"或"1 Servo"混控),保持每一接桿僅能控制單一接收通道。所有的十字解源控會由MICROBEAST 2 控制完成。

In the following connect the servos to the outputs marked with CH1 to CH3 (CH7) as shown below. With electronic sweshplate mining the two alterion servos have to be connected to CH2 (eleft) and CH3 (eright). With a mechanical mixed head (H1) the alteron servo connects to CH2 and collective pitch servo to CH3 rugue the the elevents rearvo into CH1 port. When using a scale helicopter with 90 degrees eCCPM you can connect a second elevator servo to CH7 output on the MICROBEAST 2. Note that CH7 only is a signal output, so you must power the servo from elsewhere, i.e. by getting power from the SYS-port or CH5 using a Y-adapter (for + and - only)1.

請勿使用屬控器中的任何十字論混控功能,即使電動混控是必須的。 請關閉院退控器中十字論混足功能或設定為機板混控(簡稱"Normal"或"H1"或"1 Servo"混控),保持每一接桿僅能控 對單一接受活過。所信的十字能混控音由MECRBEAST "控制"完成。



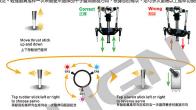
When you route the wire leads in your model make sure that there is no tension passed to the MICROBEAST.* Make sure that MICROBEAST? Is able in more freely, so no vibrations get passed onto the unit by the wire leads, Do not use any shrink tubing or fabric hose to bundle or encase the wingin close proximily to the point at which the cables are plugged into the MICROBEAST.* This makes the cables stiff and inflexible and can cause with stone being transmitted to MICROBEAST.*

安裝接線時,講適度保留線材的連接長度,確保連接至MICROBEAST。時不可過緊,留有可調空間, 避免震動影響MICROBEAST¹。並接線材據近MICROBEAST¹的位置,請勿使用任何歧路管或市期軟 管因定常線材,因為還會便線材整得僵硬且不置活,並可能導致震動,影響MICROBEAST¹。

SETUP MENU POINT H - SWASHPLATE SERVO DIRECTIONS 設定選單第 H 點-十字盤伺服器方向

Move the thrust stick and check whether all service push the swashplate up and down simultaneously. If this is not the case by tapping the under stick you can select one service after another. Every color of the Status-LED is corresponding to a specific servic channel that is initiating its election by a short up and down move. Then tap the alterion stick once to switch the service direction of the selected service. You can switch back and forth between the services as often as you need.

移動油門搖桿來檢查伺服器行程是否正確,十字盤將會向上或向下推動。如果動作不正確,可移動尾舵搖桿切換選擇 十字盤伺服器,一阅Status LED指示衛代表一個十字盤伺服器,十字盤伺服器會快速上下移動,表示目前演獲向信息 發設定。蘇維制體結構一次來變更所漢鑑的十字盤伺服表而句,稱變仍無索,使回今次實質以上接種均換黏作。



After adjusting servo directions, finally make sure that the pitch direction is correct! You can either do this by setting the servo directions correctly right from the beginning or by changing the direction of the pitch control channel in the transmitter.

完成伺服器方向股定炎,最後請再確認課距方向是否正確。您可以一開始就正確地設定伺服器方向,或符一會兒在遙 授器上變更課距遁遊方向。

Please note: It's not possible to reverse the servos with the servo reverse function of your transmitter! The transmitter only controls the functions of MICROBEAST? not the servos! Reversing a channel in the transmitter will reverse the control function in total, not the direction of a sincle servo (except when using mCCPM swashplate mixing).

請注意:您無法在遙控器上使用反向功能變更伺能器方向!遙控器只能控制MICROBEAST²,無法控制伺服器!所 以這控器反向功能包裹所有設定值都認為反向,並不會只改變單一伺服器方向。(如您使用的是mCCPM十字鑑混 投棄取。則是潛針論。)

SETUP MENU POINT I - SWASHPLATE CONTROL DIRECTIONS 設定漢單第 | 點-十字線控制方向

- 1. If not already done, move the stick(s) for alrean and elevator on the radio and check whether the swashplate is moved in the correct directions on the helicopter. The exeatiplate must follow the stick movement: pushing elevator forward will till the sweshplate forwards, adding aleron to the right will move the swash to the right and so on. If the stick is moving the swashplate into the wrong direction use the reverse function of your transmitter and reverse the alleron and/or elevator channel to set stick control direction correctly.
- 1. 如果此動作選末完成,請移動升銷轮和副資搖桿來應該置昇機的十字盤方向是否正確。十字盤動作必須遵循搖桿動作指令:海升銷稅業件注的移。十字盤會自前號,兩將副資搖样在右,十字盤也會很密向右側。如果十字盤動作和搖掉動作方向不少。請在僅與包上就定反向知識、轉換升條於和關獎權种動能行方向。他指揮科士多點的行方向。





THE REVERSE LIST



- Now when the swashplate moves correctly, set the internal control direction of the MICROBEAST gyro. Pushing elevator forward and sterring alieron to the right, the Status LED must light in blue color. If it doesn't, tag the guidder stick until this is the case.
- 如果十字驗動作利搖桿動作方向一致,現在關始設定MICROBEAST² 贮螺礦的內部控制方向。將升降舵往前移、同 訴將副對搖桿往右移,Status LED 指示债會兩點標。如果數據未滿,請專用促於搖帽音便整線深起。



There are four possible options, only one is correct! Always set control directions in the transmitter first, then check the display on the MICROBEAST on in the software and change the internal control direction, if it does not match the real direction. Be very careful here as this teaches the control directions to the system. When the directions are not set correctly, the system will move the helicober into wrond direction which will result in a crash!

共有4種可能的證實,僅有1個是正確的1該將必先在進陸器中設定十字盤控制方向,接著在MICROBEAST * 陀螺 權或軟體上確認顯示是否正確,如方向不正確。请同時修正MICROBEAST * 7的經控約方向。讓務必在系統中確認 十字整定即元式是正確,如此另介不正確,得可持統系統會引擎無子升柱經線的方向,導致非義等所行失験。

SETUP MENU POINT J - SWASHPLATE SERVO TRIM 設定漢單第 J 點-十字解伺服器微調

At SETUP MENU point J we trim the servo center positions, so that each servo horn forms an exact 90 degrees angle with the adjustment linkage. This is necessary as you will not be able to attach the servo horns in exact center position to the servo. After all servors have been trimmed do not proceed to the next menu point. Ver With active trimming, adjust the linkage rods according to your helicother's manual.

Initially when the trimming is 0 on all servos the Status LED will be off. Attach the servo horns in center position as good as possible. By tapping the rudder sitely, ou can select one servo after another. Every color of the Status-LED is corresponding to a specific servo channel that is indicating its selection by a short up and down move. Use the alieron sitck to change the servo trimming/adjust the center position of the selection by an only run can switch back and fright helywent the servors as often as wur upper

設定選單第 J 點是調整伺服器中心位置,使每一同解腎和伺服器連桿精體地定位於 90 度的位置,這是必須的調整溫程, 因為您通常無法精雜地將何服器背定位至伺服器中心點,當所有伺服器都已調整完成後,請不要旗至下一個設定選單, 請請賴維衛官職機的時期內對領國局際課題

即門佐康之巨并完成的等分字的如何或在過程。 發表,當所有個形成別類為的等。Status LED理论道,接管請盡可能將何根因對關空中心點,移動應能樣裡且接受調整 的伺服發給合。一個Status LED環代表一個別級結合。快速上下移動網元前前提降的伺服器设定。移動副資格與可 引途國惠 将以西洋國籍的國際發化过區。報應認定額度,也可多次重視更上指常均數數字返還著一筆個的原



Swashplate centered

十字解器中原省89字数

When you've perfectly adjusted the servos now adjust the linkage rods going from servos to the swashplate and from the swashplate is the blade grips. The swashplate must be leveled and centered on the main shaft and the biadegrips should be set to 0° of pitch.

當同級無調整完成時、接補調整與股內級無理和動作:理接十字整否與與於調釋時十字整否主義與與於關釋的十字整合 的當於當面中可以注意。主義整束所於明確以成為以前。

Fincessary adjust the awarboles anti-rotation guide to hat the leading-like phasing is not other (edy consistence) as not experience (edge (edge

Hint: To reset the servo trims push and hold the button for at least 10 seconds.

Optional: Push and hold the button for 2 seconds, the release. This will switch into the swashplate trim mode.

銀示:長按按鈕至少10秒,可靠近回級將結構來統和設值。 補充:長按按鈕2秒,然後放將按鈕,可切換点入十字線被 請修式。



horizontally and twisted

outer sing and blade grips

+金额以及公司的主要基本的公司公司:

十字館水平校正

控制實會影響正確的水平校正和組力機能

SETUP MENU POINT K - SWASHPLATE SERVO THROW 設定選單第 K 點-十字解伺服器行程量



Align rotorhead and rotorblades in parallel to the helicopter's longitudinal axis. Attach a pitch gauge/level meter to one of the rotor blades or to a blade grip in order to measure alleron pitch. Use your smartphone to scan QR Code or link to Alian website for more complete instruction.

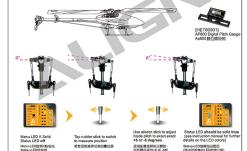
http://shop.align.com.tw/index.php?cPath=11 35 351&page=1&language=tw •

Align 靈昇機的頭速和旋糞頭的設計是平行於靈昇機的 X 轉,並且提供螺能規和十字線校正器(另 昂),可以用來校正確認,非常方应另, 請多等組織網頁。手機網鋪 QR Code 將會有更完整的亞 乃應因分的。若手機無法相提 QR Code 請查等組織

り産品) 「約。石子物無法指摘 QR CODE 第二記り目標 http://shop.align.com.tw/index.php?cPath=11 35 351&page=1&language=tw。

At SETUP MENU point K we adjust the internal serve throw so that MICROBEAST Z has a reference on how far it must move the serve when controlling the helicopter. To set the throw you have to slign one rotorblade on the longitudinal axis (in parallel to the tail boom) and measure the cyclic pitch with a digital pitch gauge on this rotorblade.

能定量要据K數型設定十字製的股路行政量,创在MICROBEAST 2在控制原件槽、推動問股路的才科取補。設定的股路行政重数,保 达划地平设置保持之中(股份设计中的数),总统用表了概能用数了概能的



24

SETUP MENU POINT L - COLLECTIVE PITCH 於定選單第 L 點-集體螺距





Move thrust stick to maximum positive pitch and let it stay there 28年734年9月日日日本大下保証の信仰:



Status LED blue Status-LED/REE/ID



to swap colors 88 88 82 90 18 AT - 70 LT (SA BT) CO

Wrong Status LED red Status-LEDIENT CO.

0 478

MAC TOP IT

2. The Status LED must light solid blue, not just flash. If this is not the case, increase the servo throw/endpoint of the pitch channel in the transmitter just as far so that the Status LED changes from flashing to solid when the thrust stick reaches the end position. But do not increase the endpoint too much in the radio! We need an exact match of full stick position and stick end position, the Status LED should just change from Travel LIST O THE

flashing to solid when reaching the end position. 2. Status-LED必須要恢京薪給,不可以閃爍。如果傍號顯示不正確,請在遙

學級中增加螺旋藻谱的侧部幾行程量與端點(Endocint),直到油門採提打到 傑點(Endpoint)時, Status-LED價會中間機轉極高,但請勿將滿掉級上的。

端點設過大!請注意,當油門搖桿打到端點時,Status-LED會剛好從閃煙轉 **仮京,此時的微點值品佳。** 3. Now use alleron stick to adjust maximum positive collective pitch (i. e. +12°)

総動副盟採担照整備大正集體保証(例如+12*)

4. Finally move thrust stick to full negative position and repeat steps 2, and 3, for the negative pitch, Here Status LED is red.

 品級,総動油門採提至品大面值位置,接套重覆第2和3的動作直到螺旋為由。 Do not change control direction (with rudder stick) anymore! 請勿再透過展解搖桿變更控制方向。



100 100 100



SETUP MENU POINT M - SWASHPLATE SERVO LIMIT 於定選單第 M 點-十字盤伺服器極限

You can remove the pitch gauge now! Simultaneously move the sticks for thrust, aileron and elevator to the maximum deflection and check if the servos, swashplate or linkages get jammed in a certain position. By pushing and holding the rudder stick left or right you can increase or decrease the limit for the servos! Adjust the limit so that the servos just don't get jammed in any possible stick position but don't limit the servos more than necessary.

現在,您可以移除螺距視 同時,請移動此門、副資和升降航落桿對最大編轉的位置,接著檢查回接接、十字盤或選桿 混合會在某個位面另升于3。 國際移動院房接裡的左或時后,您可以增加或減少伺限器行程量 此牌整是為了提高基粹 在控制/限据的原轄號,但也以收到整路器號。 Press Button Briefly



Menu LED M solid Monu-LEDIS等M配付款

Move thrust aliann and always sticks carefully to maximum deflection! 据得到最大编辑!

Use nurider stick to adjust 移動保护巡视游客供给税格别 Status LED should be solid blue (see instruction manual for further details)

Status-LEDIS常物高级色 (多名於明書的LEDISM介紹)

SETUP MENU POINT N - INTERNAL HEADSPEED GOVERNOR 粉定彈單節 N 點-內建硝轉速定速模式

This menu point is only accessible if you're not using a Standard type receiver! Otherwise pressing the button at menu point M will exit the menu and lead back to operation mode.

Enable the Headspeed Governor function by choosing the type of drive system of your helicopter. If you're using the governor function of the ESC or an external governor or if you want to fly without headspeed governing at all, choose Governor off.

加里你不是你国德特技的线,可以设计准备默片准备是M默特下按钮,设计准备回到操作模式。

Governor Off

N Internal Countries

M children and or

選擇您蓋昇機的傳動方式,來開啓系統內建的頭轉速定速模式。如果您使用的是ESC變速器或外接定速器,或者不使用調速器等等,都請選擇"定速模式關關"。



When you're using the Headspeed Governor of MICROBEAST * now connect the RPM sensor (i. e. magnetical, optical or brushless phase sensor) or the wire for RPM signal of your ESC to the white sensorport on the long side. For this you may need the optional available BXA76401 adapter.

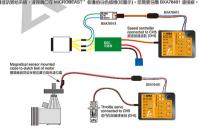
Electric Mali

TO OTH

Nitro/Gas Heli

SIMON STAN

如果您要使用 MICROBEAST² 的 丽轉速定速模式,調達接一個轉速感應器(磁,光效無刷二相感應器) 來發達 ESC 的 轉速原號終系統,導接幾口在 MICROBEAST² 侧導的白色插槽(如圖示)。您需要另關 BXA76401 連接線。



GOVERNOR SETUP MENU-

ALIGN

定速模式設定選單

GOVERNOR MENU POINT A - TEST MODE (MENU LED A FLASHING SLOWLY) 定速模式設定選單第 A 點-測試模式(Menu LED 燈第 A 點慢速閃爍)

If the Governor was activated at Setup menu point N (set to "electric" or "nitro/gas" heli) you will access the Governor menu immediately afterwards. At point A we check if the speed sensor is functioning properly and if the sensor wire is connected correctly.

如果在設定選單第 N 點線答定速模式(設定 "電動"或"引擎" 直昇機),即可立即進入選單。在第 A 點,我們要接查的 是轉速感應器的功能是否正常,接線是否正確。



Menu LED A flashes Status LED off Menu LED 頒明 A 股四僚 Status-LED 殷锦瀬 Rotate the motor by hand, The Status LEO must light red 用手轉點定证 Status LEO授采订婚

Turn clutch bell by hand 用于轉動整合器 常型的原子器 常型的现在分词 的现在分词

When using a helicopter with combustion engine adjust the throttle serve positions in the transmitter (serve hrow and serve center) and setup the throttle on the heli (throttle linkage rod length and serve arm position) if necessary. Attach the serve horn at thrust mid stick position. The throttle linkage must form a richt ande with the serve horn.

Adjust the length of the linkage according to the instructions of the helicopter so that it also is positioned perpendicular to the linkage lever at the carburetor. The carburetor must be opened halfways (note the markings on the carburetor!). Then adjust the servo throw so the carburetor can be fully opened and fully closed without jamming the throttle servo.

各级使用的是3.零直昇機,可在遙控幾調整进門側接熱的位置(周期輸出和周期中立點),如果有必要,也可以調整 直昇機的油門向服務的連桿具度和同階質位置。何服器背要在油門中立點的位置,它和向服務連桿薬必須威區角,請 各者下實。

請根據直昇機的結構來調整連桿球頭的長度,必須讓200位置垂直於化油器的連桿控制質。調整化油器控制器時,請 將化油器陽径至一半的位置(請注意化油器的標記))。然後調整伺服器輸出的最大及最小行程量,並注意具層關度。



GOVERNOR MENU POINT B - MOTOR OFF/IDLE POSITION 定速模式漢單第 B 點-馬達開終/關閉位置

Using an electric heli move the throttle to the position at which the motor is just before to start running, i.e. by adding throttle until the motor starts to turn and then reducing the throttle a little. With a nitro(as heli move the throttle to a stable idle position.

使用電動直昇機踏將油門移動到開答馬達前的位置,接著慢慢增加油門,直到馬達開始轉動,然後稍微降低一點油 門。當使用引擎直昇機所,請將馬達爾答,解除位置移動到油門点球位置。



Status LED off Menu-LED 投资 8 批問業 Status-LED 投资系 Move throttle to position at which the motor is just before to start running (electric hell) or idle position (nitro(gas hell) 容配治疗到馬達姆名的的位置(電配言异模)從自己总括四周(多華夏异模) Status LED blue when throttle position registered 報告进門的首時 · Status-LED 即形配色

GOVERNOR MENU POINT C - FULL THROTTLE POSITION 定速模式選單第 C 點-油門最大行程量

Move throttle to maximum position. Note: In electric governor mode the throttle input will not be passed to CH5 output to prevent from motor demange by running the motor without load! Thus, you have to check before that the full throttle position runs the motor at maximum speed in reality, le, by correctly programming your throttle end points in the transmitter or EST.

孫油門推到最大行程的位置。請注意:在電動直昇機變速数(ESC)的模式下,為了的止空載而損壞馬達,油門輸入將不會接申[CHS]傳輸出來!因此、您必須在馬這實際運轉期,檢查最大行程量。請直接操作遙控器或變速波泄門的最大及最小行程量。



GOVERNOR MENU POINT D - TRANSMITTER SETUP 定速模式饗單第 D 點- 遙控器設定

Here we can set the desired rotor headspeed and throttle curves. The Status LED can be used to verify the transmitter setup.

Governor off = off, Autorotation = purple, Gov active = red or blue (at max, RPM).

When using an electric heli the throttle is completely independent from the thrust stick. The throttle curves are set to horizontal lines which stand for a certain headspeed and governor operation mode. Using the flight mode switch you can switch between the different curves/pm reseals in the transmitter.

在這種我們可以設置想要的旋臂調轉逐和油門曲線。Status-LED 億,可以驗證遙控器的設定是否正確: 定逐模式驗閒=娘滅,自動=紫色,定速模式图動=紅色/藍色(最大RPM值)

當使用電動高昇機時,油門是完全獨立於油門插桿。油門曲線是根據旋翼頭轉速和定速模式來決定水平位置。請使用





Status LED Off Status-LED 投資服 Idle Up Throffle set between 15% and 100% equals headspeed of 800-5000ros

- +5% =+247rpm Idle Up · 油門製定在 15% 和 100% 之間等於

9919 800-5000rpm · +5% = +247rpm



Status LED Red or Blue Status I FD (S) IT (0 07 60 (0

Autorotation Throttle greater 0% and smaller 15%.

· Motor off · When switching back to idle up motor will restart quickly

(株火(藤株) · 無資門介於0%-15%之間 • SECRETAR

· 禁切的(ii) kile Up · 無理療物決策緊急



Status LED Purple Status LED (S.C.)

The Governor for nitro/gas models can be operated in two different ways: One possibility is to operate the governor using the throttle channel similar to the electric mode. Only difference here is that the the range below 50% throttle is used to manually control the throttle servo, i. e. for starting the motor. The range above 50% activates the governor and presets a specific rotor headspeed just like in electric mode.

SI緊迫异義的協轉速定達模式有限超不同的操作方式。其中一種是使用油門通道,達和電動模式的定速方法相同。唯一不同的是,它在油門50%以下的衛期內,能允許手動控制模式來媒控油門包接等。當馬達達轉高於50%時,將會管務定後就定使得於近次模式性,就發電動模式一樓。

Manual control

 Range between 0% und 50% directly controls the throttle servo from idle to fully poened position

部動物別様式。 從城場到全際收拉爾·0%至50%設置 内司设定制造門等組織



Status LED Off Status-LED #8 (8) 36 Idle Up Throttle set between 50% and 100% equals headspeed of 500 - 3000rom

+5% =+250rpm Idle Up

油門設定在 50% 與 100% 之號。等 設設達 500 - 3000mm + +5% =+250mm

Status LED Red or Blue

Status-LED 排版角成開角

Autorotation

 Throttle in idle position · When switching back to idle up (>50%) motor will restart quickly · Switching back to manual control (<40%) will disable governor

熄火 (経常) ·油門在Idle位置

然切物(i) idle up(>50%) · 無原會位沒無前符動 ·切袋因于勒控制(<40%)。會營用定達儀式



Status LED Purple Status LED 18 55 16

The second option to control the Governor for nitro/gas helicopters is to use a separate switch channel. Here the throttle curves/throttle channel is used for manual throttle servo control only. The Governor is activated and the headspeed is set by using the additional channel. When the throttle channel is above 25% and a headspeed is set, the Governor will activate and control the headspeed. Moving the throttle channel below 25% will switch to Autorotation mode.

图方法是将定速模式分配在一個獨立的控制通道。這樣油門曲線可完全手動控制油門伺服器。 開啓定速模式,利 用獨立的通道預設披養原達。當油門高於 25% 自己預設原達的,定速模式會介入控制原達。移動油門底於 25%,系統會轉入療火機大體

Manual Control

- · Throttle curve controls servo
- Governor off
- Governor channel below 5% (-90)

五數學數模式

- · 油門曲線控制母線線
- · 10:00 MB VF BBBB 宗读模式准备任於 5% (-90)



Status-LED t9 t9 W

Idle Up

- . Governor channel set between 5% and 100% (or -90 and +100 on some transmitters) equals headspeed of 500-3000rpm
- + +5% (or 10 clicks) =+131rom throttle channel must stay above 25%.

· 定读模式循道設定在5%至100%之間(第一 些選控器是 -90 至+100)等於額速 500-

· +5% (or 10 clicks) = +131rpm · 油門曲線需高於 25%



Status LED Red or Blue Status-LED to AT IN IN INC.

Which nitro governor mode you're using depends on whether you've assigned a switch channel to control the governor at the RECEIVER MENU function assignment or not. You can find out which mode you're using by watching the Status LED display here while moving the throttle!

您所使用的引擎直昇機定速模式取決於您在接收器選單中分配的控制通道,透過移動油門搖桿, Status-LED 經號 **養願示目前所使用的定律模式。**

For proper governing the headspeed should not be set higher than 80% of the maximum possible headspeed of the helicopter. When using the nitro governor, make sure that slow rampup speed and fast rampup speed are not set too high in PARAMETER MENU. Otherwise the throttle may be opened too guick and may lock in at full throttle position.

建議適當的定速模式,直昇機頭轉速最高不可高於80%。當使用引擎直昇機定速模式,請確保在參數選單中級升 速度與緩降速度不可設遏高。否則油門密動會過快且在全速時會被鎖定。

GOVERNOR MENU POINT E - SIGNAL DIVIDER 定速模式選單第 E 點- 轉速訊號分配表

Electric helicopter with brushless phase sensor or phase signal from ESC; signal divider =

motor pole count: 2

Nitro/Gas helicopter with magnetical or optical sensor: signal divider = number of triggers (i.e.

magnets or optical markers)
電動直昇機搭配無則相位威應器或 ESC 相位訊號: 轉速訊號分配表=無達極速: 2

引擎直显摄磁或光感廉器: 迅速分配表 = 國母 (加磁鐵或光學標記)的數量

Status-LED	Off	Flashing Purple	Purple	F)ashing Red	Red	Flashing Blue	Blue
Status-LED體	地滅	認識符配	(SIN)	知識問題	AR	監察效果	甄燈
E Signal Divider 品號分配表	1	2	3	4*	5	6	7

GOVERNOR MENU POINTS F G H - MAIN GEAR RATIO 定速權式選單第 F / G / H 點之主齒輸比

When the helicopter has a single stage main gear: Main gear ratio = Main gear tooth count:

Motor pinion tooth count

Set the Status LED color/state at each of the menu points F, G and H so that the main gear ratio can be calculated as sum of the three menu points, i. e. 8.55:1 = F flashing purple + G flashing red + H red

若使用單一主齒輪的直昇機時,主齒輪比=主齒輪齒數;馬達齒輪齒數

在設定選單中第F/G/H點的狀態指示燈還代表齒輸比,例如 8.55:1 = 選單第F點紫燈閃爍 + 選單第G點紅燈閃爍 + 選單第H點紅燈。

Status-LED Status-LED類	Off	Flishing Purple 添起效果	Purple SS	Flashing Red 紅復門間		Flashing Blue 藍燈閃耀	Blue	Red/Blu 紅色製色
F	Custom	8.00	9.00*	10.00	11.00	12.00	13.00	14.00
G	_	+0.00	+0.20	+0.40*	+0.60	+0.80	_	_
н		+0.00	+0.05	+0.10*	+0.15			_

プ**FLYING AND OPTIMIZATION** 飛行及優化飛行

ALIGN

The tail gyro gain is adjusted by one of the transmitter's auxiliary channels. The more servo throw this channel produces, the higher the tail gyro gain will be. The direction of servo throw determines whether the gyro works in Normal-Rate mode or in Heading Lock mode. The color the Status-LED includes the selected mode when MICROBEAST is operation. Purple ment Normal-Rate and blue indicates the selected mode when MICROBEAST is operation. Purple ment Normal-Rate and blue indicates the selection when the manying the gain and after initialization sources the amount of eain is disclaved by one of the menu LEDs for 4 seconds.

您可以用用基控燃的植物是選來,經營和企業。 不生態問題這些資訊分配的號號。 如會有超級的定於維那樣。 问 解別婚婚他的污染之产促爆酶の工作程式,分別為「競性視」或「非罪定規式」。 Satus-LED 節節節色表示任目的 的工作規工下,MICROBEAST[®] 已來編成據。紫燈表示「非數定模式」。 複雜表示「銀定模式」。 傳鑑好應股的初 的工作規工下,MICROBEAST[®] 已來編成據。 紫燈表示「非數定模式」。 複雜表示「銀定模式」。 傳鑑好應股的初 的化學, 海鄉裡一下移場、完全的服務解解作一一個的資訊的 4.69%

Menu-LEDs
Menu-

For the first flight we suggest to to use Heading Lock mode (Status LED blue) and start with medium gain (not higher than LED G). In case the tail of the helioptor's starts to ossiclate with high frequency in flight, immediately reduce the gain! If on this other hand the nudder control feels inprecise and the groy doesn. Y hold position-vey well, increase the gain. Most radio systems provide an automatic switching for the tail givo gain depending on flight modes. In the flight mode with the lowest rotor headspeed you can use the most gain. Reduce the gain the higher the headspeed is. Before the first flight make sure the tail gain is set correctly and is also set when switching flight modes. Use the LED display to see how the groy is setup and on ont rely upon the values of your transmitter as signs and percentages may vary depending on radio brand and radio hoad!

Before the first take off make a stick direction check and check if swash and tail gyro are correcting to the right direction when you tilt, roll or yaw the helicopter by hand. Just before lift-off make sure that the swashplate is horizontal and that the tail pitch slider is close to center position. Avoid excessive steering during lift-off therwise the helicopter may tip over! The best way is to give a fair and direct collective pitch input to lift the helicopter juckly up into the size.

Adjusting the **three dials** on top of MICROBEAST ² you can optimize the control loop and customize it to your helicopter. For the first flight all three dials should be centered. If necessary only adjust one dial at a time and only in little steps. Turning a dial clockwise will increase the effect, turning it counter-clockwise will decrease the effect of the parameter.

在范末银行前,最好再做一次接接检查,例如明于指勤推炼。看十字监理部方向是否正理,左右或前接被抗信累槽。 看包据是是否看您出版的方的相信。请还任,在升空前十字能是主水平的问题,起轮减发接近中立的。请注意,起款 前,不变得引越权。名列亚异模可能曾插倒,最好的方式是大打一起少量三直接的塔琪特粒,课题具模可以快速的升

調整 MICROBEAST² 面板上的三個旋鈕,可以優化您意界機的飛行效果。首次飛行時,面板上的三個旋鈕的感度應 在水平位置。如有必要,這一次只調整一個旋鈕。若順時針方闩轉動旋鈕,葱皮會增加。反之,逆時針方闩旋轉旋鈕 ,鐵起管層低

1 - Cyclic gain

The higher the gain the harder the helicopter will stop after cyclic moves and the most stable and procise the helicopter will fly if the gain is too high the helicopter will fund to shake (especially on the elevator axis) as the system overcompensates. With low gain the helicopter does not stop precisely and overshoots after a cyclic movement. Additionally it is unstable and control feels stuggish. Due to their low mass small helicopters typically do not need as much gain as large helicoffice.

1-循環螺ත解度

係底稱。在國際報節數比後,直與機約準則於會比較繁、隨機會使得勞發稅底之。 包建,如果個及之家。但是特在一門所付管有個別數据面的發產生,也可能則相 由於這些規模之多墊生在時小地的國際難上(450級金以下),所以,小地國原聯的主 支撑關係一般於對此大衛亞與解釋。但如果與在大在一項與解於國際的 本律、報行擴張動作促轉及前如後會失革,此外,直線於經歷行初停節時也會經濟 實驗不確之。

2 - Cyclic feed forward

Feet forward connects the servo movements with your sick inputs bypassing the control loop. This will give a more natural coint of feel and quicker reactions to stick inputs. But if the cyclic feed forward is too high, stick control will flight against the control loop. The hell will bounce back when stopping from a cyclic movement and it will react over sensitive and pitch up easily in fast floward flight.

2-十字盤直接輸出量

如果十字盤直接輸出量過高,當在打舵時,過大的十字盤反應,會使得溫屏機有停頓 回導的現象產生,也會覺得百異機的反應線度前應,同時,當前即應度時,直昇機會 快速向前飛。反之,如果十字盤直接輸出量過低,會出現延遲現象和廢費非常機械化 和不自然。

3 - Tail gyro response

Increasing the tail gyro response will cause harder stopping and more aggressive response to rudder stick inputs. If response is set too high, the tail will bounce back when doing a hard stop (especially when turning against rotor torque, If the dynamic is set too low, the rudder control feels dull and stopping is very soft. Ideally the tail should stop perfectly to the point without making any flapping noises.

3-尾舵動態反應

增加「尾轮動態反應」的感度,會影響到高昇機在自旋利率時的動作及敏感度。如果 感度設定太潔,直昇機在自旋利率時,會感到自昇機有過度重敬的反應及速压现象。 在快速變化/可能內至高層學能無力。如果感觉定之低,在7分節時,會影響運動 軟力。建想情況是直昇機在自旋利率時,尾部要完美停止,沒有任何指泥帶水的干摄

MICHOBEAST MICHOB





The Parameter menu allows you to further customize the flight characteristics of the helicopter and the reaction of the system to control inputs. You can find a detailed description for each parameter in the MICROBEAST 2 instruction manual

条數彈單,方便型調整百星線的發行物件及控制反應。使可DJ在 MICROBEAST 短卵离中投影网络合數的延網短頭。

Entering Parameter Menu 进入参数调量

Press and Hold Button 長校初蝕

Release Button 短期校扣

Menu LED A Flashing

Menu LED均線 A 起閃鏡

Menu LEO A Flashing (= Parameter menu point A) Menu LED即第 A 緊的際(=命數第 A 解)

Operation Mode (Status LED is Blue or Purple)

操作模式(Status LED即整色证据例)

MENU POINT A - SWASHPLATE QUICK TRIM (MENU LED A FLASHING) MENU LED熔第 A 點-十字解快速微調(=漢單第 A 點閃爍) Move the stick(s) for alleron and elevator to trim the swasholate into the desired direction. With rudder you

can trimm the collective up/down. When using the tail gyro in Normal-Rate mode you can trim the rudder servo with the rudder stick. To delete all trimming push and hold the button for at least 10 seconds.

移動副翼和升路接桿來放照十字盤到所需的方向。移動原於接桿可以移正上/下集體螺節。當在非顧定模式下使用原炉螺旋。移動原 於据桿可投下屬於。只要按住按照約10秒键,即可將先前的推測配驗網除。

MENU POINTS B TO K 深單第 B-K 點

Color and state of the Status LED indicate which option is currently selected at each menu point. By pushing the rudder stick repeatedly you can cycle through the available options at each menu point and change the setting if necessary. Briefly pushing the button will skip to the next menu point. After the last menu point the system will exit Parameter menu and change back to operation mode.

Status-LED 提的新心脏元何在各级逻辑中的发射型点。利用反覆如一切方向发射层积熔焊,直到 Status-LED 提出现象 要的颜色热止,短按按纸就直接到下一個沒有點。到沒最後一個沒有點後,系統將退出參數沒有,回到操作模式。

Status-LED	Off	Purple	Flashing Red	Red	Flashing Blue	Blue
Status-LED短	地高	免担	開発機	EIR	監證問題	Ett
B Control Style	Custom	Normal	Sport*	Pro	Extreme	Tx Mode
B 控制限格	B3J	長酒		統和	機能	婚招號
C Speed Flight Stability	Custom	very low	Low	Medium*	High	Very High
C 高速飛行機定性	B8J	BHE	E	音通*		概念
D RUDDER RATE CONSISTENCY	Custom	very low	Low	Medium*	High	Very High
D 成化中一致性	≘8J	杨氏	Et	容器*		根液
E Stick Deadzone E 時報光谱	Custom Bill	very small 强小	Small*	Medium 部築	Large	very large 极大
F Torque Precompensation	Custom	Off	low - nor.	High - Nor.	Low - Inv.	High - Inv.
F 反扭力被集	B8J		仮-正	商·正	使·逆	商·提
G Cyclic Response	Custom	Normal*	Slightly Increased	Increased	Aggressive	Very Aggressive
G 循環反應	E87	普通*	始初一批	#30		發度道
H Pitch Boost H 類距線	Custom	Off*	Low ft	Medium 普遍	High R	Very High 根据
Throttle Response	Soft	Normal*	Slightly Increased	Increased	Aggressive	Very Aggressive
	級利	發送*	변화구경	地加	SSE	認證
J Slow Rampup Speed J 嚴密教選率	Custom B8J	50 rps	100 rps	200 rps*	300 rps	400 rps
K Fast Rampup Speed K快速倍數速率	Custom 由却	Using Sion Rampup Speed 採用機密動注解	300 rps	500 rps*	700 rps	900 rps



MENU OVERVIEW 選單總覽

Setup Menu(Menu LED Solid) 粉定潔單(Menu-LED 恆高)

*Factory Setting *出廊報際機

				Flushing Purple 実現的鏡	Purple 常根	Fashing Red EEEE COM	90d 9033	Flashing Blue 服物政策	Blue 照取	Red/Blue 紅色/動物
A	Device Crientation 民籍国际内间	R	horizontal pins to front 8平距距前部	vertical pins to front BOSEGNS	hor, inv. pins to front X4-288-68	vert, inv. pins to front 60.2555188	horizontal pins to back 水平器空在被否	vertical pins to back 新聞語音報音	hor. inv. pins to back XP.255565	vert. inv. pins to back Eii 265-8
В	Swashplate frequency 十字報選罪	R	Custom B\$I		50 Hz*	65 Hz	120 Hz	165 Hz	200 Hz	
С	Rudder pulse width 尾蛇中心頻彈	R	Custom BIJ	_	760 μs	_	960 μs	_	1520 μs*	_
D	Rudder frequency 家部速率	R	Custom BIT		50 Hz*	165 Hz	270 Hz	333 Hz	(560 Hz)	
E	Rudder limits SERMER	R	Use rudder to 利用配配器	move serve to 科移動何的	one endpoint a 第一某座器	and waik until LE 器・電LED的	D flashes, then 規時・同移	move to the of 勤到另一選集	さ・同等符・	d wait
F	Rudder direction 総約20期間方向	Α		_	_	_	Left Æ	_	Right	_
G	Swash mixing 十字報與把類型	R	Custom BIT	_		90° (34 sence)	120**	140*	135-1540- (1:1)	
н	Servo directions 十字整例服務方向 F	RA		_	Servo Ch1 概题器CH1	_	Servo Ch2 概题器CH2	-	Servo Ch3 概题級CH3	(Servo Ch7 問題級CH7
ī	Cyclic control directions 十字解控制方向	R		_		4	Left/back 担限		Right/forward #SND	
J	Servo trim/Swashplate trim 十字銀何班務規則 F	₹A	No trim* 不剪效的		Servo Ch1 何服器CH1		Servo Ch2 69898CH2		Servo Ch3 (SIRMCH3	(Serve Ch7 何题题CH7
ĸ	Cyclic throw (set to 6 degrees) 十字盤同技器行程量(問節設合管)	RA	_	-	not good		OK g	_	Perfect 19	_
L	Collective pitch 集體開節	R	-		-	check throw!	Negative	check throw! 確認行程量!	Positive E	_
M	Servo limit 十字盤同級器極限	R	-				Left/back 初後		Right/forward #5/80	_
N	Headspeed Governor 影響逐定途模式	R	Governor Off 定途模式接続			_	Electric Hell 電影遊昇機		Nitro/Gas Holi 引擎直昇機	

Governor Setup Menu (Menu LED Flashing Slowly) 定漆模式藻單(Menu-LED幣級標別幣)

*Factory Setting *出廠預設值

A	Test Mode 测滤模式		"Electric H	ell" : Status-	Hed Blue Wi led Red Who 医隐态缩器 S 密数符Statu	an Motor is F	SHARKS	sor		
в	Motor Off/Idle 形理期限/Idle		"Electric H	leli" : Throtti	e In"motor C	th Position,	Idle Position Just Before 治門在"馬達斯	Motor Starts		
С	Full Throttle P 最大油門位置	osition T	Set full the (Electric h	offie position eli: motor sp (電航道界	n leed does no 性氏理酶液不包	of change an 動物:S際自	nymore - nitr 好機/短路/6	o/gas heli: s 品大臣)		mum)
D	Transmitter S 游控務設定	etup	Governor of 可透光學系統	_	Autorolation 日配	_	Governor on 定送模式器数	_	Governor on max, RPM 定透模式改在 最大歸送	_
E	Signal Divider 轉達訊號分配。	, R	1 Custom	2	3	4*	5	6	7	
F	Main Gear Rat	Main Gear Ratio(sum of F + G + H		8	9*	10	11	12	13	14
G	If Not * custom	# Not * custom) 主馬達-葡萄比/ F + G + H機和・約里不是		+0.00	+0.20	+0.40*	+0.60	+0.80	_	_
н				+0.00	+0.05	+0.10*	+0.15			—

Enter SETUP MENU by pressing button for at least 2 seconds in operation mode. Skip to next Menu Point by pressing button briefly, after last point menu will exit.

R. Dan notice to adjust valual/choose setting. A. Due allumon to written inerru option. T Set throatie to desired position if you like to change the setting. To behalf settings to id button for 10 seconds at any Monru Point (except J) to reset setup and parameter data. Molding button at J only the firm will be reset!

RESELECTION JOSEPH RESELECT

R 彩動在記述時段記述/校正演歌 - 本数配到資本得到現象定面等項。 T 彩動語門進行等望的表定因響。 "務設語:於了丁沙定沒有外,可是物物體10時回常出版效定面。在1時等,是於10時,僅依如應的主要少。

Paramete Menu(Menu-LED is Flashing Quickly)

d Fantan, Cattley

40.8	数划能数(Menu-LED 快速闪深)					tory Setting	*出顧預設個
		Off	Purple 50.8	Plashin Red	Red ES	Flashing Blue EXTENDED	Blue 変数
Α	Quick Trim 快速微調	Gyro in Rate Attitude Cor Any mode: F 記憶機能研究 記憶機能可能 記憶機能可能 可能	node: Trim alleror Mode: Rudder's strol active: Adjun beset all servo trin 以: 多数实现的数 : 多数实现的数 等数则其初于等数 的数的数	tick trims rudder. st roll and pitch a rs by holding but i 實知升版的、移動 i 新規規則。	ngle of horizon witten for 10 second	ith alteron and el	
В	Control Style 控制抵格	Custom	Normal 普通	Sport* 運動*	Pro 專業	Extreme 發展	TX Mode 返控器
С	Speed Flight Stability 高速飛行標定性	Custom	Very Low 極低	Low 任	Medium* 普通*	High 8	Very High Bi≅
D	Rudder Rate Consistency 尾蛇道單一數程	Custom @ØJ	Very Low 模低	Low 低	Medium* 音音*	High A	Very High 概高
E	Stick Deadzone 選擇死因	Custom BIJ	Very Small 機力	Small*	Medium 登道	Large 大	Very Large 極大
F	Torque Precompensation 反把力裝信	Custom	WIN.	Low - Inv. 低-逆	High - Inv. 高-逆	Low-nor. 低-正	High - nor. 高-正
G	Cyclic Response 循環反應	Custom	Normal* 普通	Slightly increased 183 20 — \$2	Increased 2021	Aggressive 35 36	Very Aggressive 48: 20: 3E
Н	Pitch Boost 9825-58-98	Custom	Mile.	Low	Medium	High	Very High 概念
1	Throttle Response 油門反應	Soft MH3	Normal* 普通	Slightly increased #2 70 — \$6	Increased 1870	Aggressive 测证	Very Aggressive 18:30;30
J	Slow Rampup Speed 級認動選車	Custom @IJ	50 rps	100 rps	200 rps*	300 rps	400 rps
K	Quick change rate 快速勞動進率	Custom EBT	= slow speol up 級密動速率	300 rps	500 rps*	700 rps	900 rps
L	Attitudecontrol Mode 姿態模式	Disabled* 失效	Angular mode 角度模式	Ball Oat Rescue 叙述	Ball out w. Pitch 飲暖-蜂類	3D Mode 3D模式	3D Mode w. Pitch 3D 模式・模能
М	Attitudecontrol Pitch (後期模式概括)	> 0%	> 30%	-4	> 50%		> 70%

Erice PARAMETER MENU by pressing button briefly, in Operation mode. Use radder to adjust value/choose satting (except at A).

Out to next Menu Point by pressing button briefly, after list point mouse will aux.

Better the pressing button briefly, after list point mouse will aux.

Better the pressing button briefly, after list point mouse will ensympting to default (except receiver sattings)

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RECEIVER SETUP MENU(Menu-LED is flashing)

密収器設定漢華(Menu-LED 僻閃爍)

*Factory Setting *出業預設值

		20.00	580		5212		
A	Receiver Type 授权器類型	Standard RX 傳統型	Remote Satellite 衛星天線	None (#)	Serial Signal on DI 序列訊號輸入		
В	Pitch channel 集體媒施						
3	Aileron channel	Move the stick/chann	et on transmitter you want t	o assign. The State	us-LED will flash in blue		
D	Elevator channel 升降舵	been moved!	J can be skipped in case w				
E	Rudder channel 尾蛇	you want to use the r	sitro RPM Governor or Attitusionment common to your	de Control without	separate switch channel.		
F	Gyro channel 感度	seconds and release	You will directly jump to m	enu point N.			
G	Throttle channel 油門	Status LED燈紅色閃想	1/切換過避,選擇您所希望的 11、1912個以上的過避會被移1	8.			
н	Aux channel (Ch6) 朝助选道 (CH6)	可經過第十、I、J澳際					
ī	Governor channel 定途模式	如果您的選擇器希望下	如果您的遙控器希望下載/使用預設值,則長报按過2秒再推開。				
J	AttitudeControl channel 姿態模式						
N	Throttle failsafe 失控保護位置		safe position (throttle un 保護位置(泊門解解)・然後:				

長於的伯也問題,如可性入域次數漢單,現在他也可以物至下一個選單,(在海草菜A15,现在故語自由和对此化艺术的情別被次数聚形),如您使用编析形式或数,在自动说法。所含自然就至下一种调查。 Please note: AttitudeControl options are only accessible when PROEDITION firmware upgrade is installed. 结注意: 备有系统升极率PRO版本才有姿势模式功能。

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