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.

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

MICROBEAST PLUS 無平衡翼系統電子設備相容小型直昇機至大型直昇機T-REX 250 ~ T-REX 800。在此我們以T-REX 700L DOMINATOR作為操作範例。
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IMPORTANT NOTES

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 death. Please read this manual carefully before operating, and make sure to be conscious of your own personal safety and the safety of others nearby when operating all ALIGN products. Manufacturer and seller assume no liability for the operation or the use of this product. This product is intended for use only by adults with experience flying remote control aircraft at legal flying fields. After the sale of this product we cannot be held liable over its operation or usage.

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 way to properly assemble, setup, and fly your model for the first time. This product requires a certain degree of skill to operate, and is an expendable item. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warranty and cannot be returned for repair or replacement. Please contact our distributors for free technical consultation and parts at discounted rates when you experience problems during operation or maintenance. As Align Corporation Limited has no control over the use, setup, assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

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, Align 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.

<table>
<thead>
<tr>
<th>WARNING LABEL LEGEND</th>
<th>標誌代表涵義</th>
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| ![Forbidden](https://example.com) | Do not attempt under any circumstances.  
在任何禁止的環境下，請勿嘗試操作。 |
| ![Warning](https://example.com) | 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，而使用錯誤可能造成財產損失或嚴重傷害。 |
| ![Caution](https://example.com) | Mishandling due to failure to follow these instructions may result in danger.  
因為疏忽這些操作說明，而使用錯誤可能造成危險。 |
**SAFETY NOTES**

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 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.

Remote-controlled aircraft are dangerous. Do not operate indoor or over populated areas. Keep your aircrafts away from people. The operators are responsible for any damage or injury caused during operation or due to the aircraft.
PROPER OPERATION

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 laws 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.

WARNING

DO NOT FLY ALONE

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.)

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.

CAUTION

ALWAYS BE AWARE OF THE ROTATING BLADES

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.

Remote-controlled multicopter's blade/propeller rotation should be performed at high speed. In the case of excessively high blade/propeller speed, it will cause injury to yourself and others on the body or property. Please do not touch the rotating blade/propeller, and maintain a safe distance to avoid injury.
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.

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 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.

Please read the following instructions thoroughly before the first use of your MICROBEAST PLUS 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.

Radio controlled (R/C) models consist of several electrical components. It is therefore necessary to protect the model from moisture and other foreign substances. 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.

When operating the helicopter with a MICROBEAST PLUS 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 actuating forces. In addition, because of the intermediary electronic gyro system, the servos are driven more often than with traditional use. These factors can make the power consumption increase a lot compared to a flybar helicopter. When the supply voltage falls below 3.5 volts for a short amount of time, the system will power off and reboot. In this case a crash of the helicopter is unavoidable.

操縱您的直升機時，請確保 MICROBEAST PLUS 有一個充足、穩定的接收器電源。由於十字型伺服器直接連接十字鍵，主旋翼，不像傳統貝爾希拉混控旋翼頭那樣的省力，所以特別注意！無平衡翼直升機使用的伺服器會顯得特別的耗電，請務必確認您的供電系統有足夠的供電能力。若電壓低於 3.5V，即使是很短暫的時間，系統將關閉並重新啓動。在這種情況下，墜機是很難避免的。
Do not expose the MICROBEAST PLUS 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.

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

When operating electric helicopters make sure that the electric motor cannot start inadvertently during the setup procedure. Particularly pay attention if using a single-line receiver and if the ESC is connected directly to the MICROBEAST PLUS. We recommend disconnecting the electric motor from the ESC during the setup procedure. Prior to the first usage, please slide the motor/pinion away from the main gear, then check that the motor does not start inadvertently when the receiver is switched on.

When operating the RPM Governor feature of MICROBEAST PLUS it is essential to ensure that the motor cannot start by accident when 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 main gear unless all necessary adjustment procedures have been performed. Always maintain sufficient safety distance to the motor and other rapidly rotating components of the helicopter.

When operating MICROBEAST PLUS, the RPM Governor feature is essential to ensure that the motor cannot start by accident when making adjustments 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 main gear unless all necessary adjustment procedures have been performed. Always maintain sufficient safety distance to the motor and other rapidly rotating components of the helicopter.
MICROBEAST PLUS 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 disoriented even when using AttitudeControl. In addition, the helicopter can drift due to external influences and it is not guaranteed 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. 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 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.

**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 flying easier and more enjoyable. Ask your local dealer if you need technical support or if you observe problems during the usage of our system.

**CAUTION 注意**

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. In addition, the helicopter can drift due to external influences and it is not guaranteed 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.

如果飛手在飛行中迷失方向，姿態模式可以幫助操控直昇機。藉由使用內建的姿態模式，幫助操控直昇機。藉由使用內建的姿態模式，幫助操控直昇機。藉由使用內建的姿態模式，幫助操控直昇機。
Dear customer,

Thank you for purchasing our product.

MICROBEAST PLUS 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 rotor blades.

The system comes with BASIC flybarless stabilization functionality and can be upgraded by paid update to the PRODITION. This enables additional features like Attitude Control for rescue bailout or constant leveling and a feature called “Bank Switching” which allows to switch between parameter presets in flight to serve different flight conditions or flying styles.

To setup MICROBEAST PLUS 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 safety notes. For a detailed instruction manual and further details, tips, tricks and notes about the product please visit:

WIKI.BEASTX.COM

親愛的客戶:
感謝您使用MICROBEAST PLUS無平衡翼控制系統!

MICROBEAST PLUS採用德國最新技術和最高標準，可適用於多種直升機類型，如3D飛行、F3C競賽或是觀賞直升機搭配載員機體等，不僅有基本的無平衡翼系統，還有進階補償提升功能。此進階功能有姿態模式，可作為失控保護救援功能，在飛行時啟動姿態模式，系統會在不同的操作模式和應用程序之間進行選擇，然後精確地控制直升機的飛行。

設定MICROBEAST PLUS不需要任何其它設備，您只需要接收器和你的直升機，通過“EasySetup” 的概念您可以直接在無平衡翼控制系統上做任何設定，使您的高端能在幾分鐘之間迅速升空。

請快速入門指南將以非常簡單而明確的方法，一步步指導您完成基本的飛行設定，並請務必仔細閱讀其安全注意事項。關於詳細的使用說明書和更多的細節、技巧和注意事項，請瀏覽以下網站:

WIKI.BEASTX.COM

Designed for STUDIOX

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 BLE2SYS interface (smartphone/tablet) (optional available).

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

StudioX can be downloaded from: STUDIOX.BEASTX.COM

STUDIOX設計理念

如果您希望進一步理解系統設定內容或過程，以下選配功能可供使用，您可連接USB2SYS介面通訊StudioX App或PC/MAC上設定，或連接BLE2SYS介面透過StudioXm在手機/平板上設定。以上Apps系統是系統存取設定、軟體升級、下載參數和選單功能設定等，能更符合您使用MICROBEAST PLUS的需求。

StudioX下載點：STUDIOX.BEASTX.COM

This guide is intended to be used with MICROBEAST PLUS firmware version 5.0.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”. In the right row no LED lights up.

本快速指南所描述的調整內容，只適合 MICROBEAST PLUS Version 5.0.x 版本！

開機後，Status-LED燈亮紅色，幾秒之後，在左排選單中LED燈號A和C顯示了主程式版本“5”，右排選單LED無燈號。
You can position MICROBEAST PLUS flat or upright on the helicopter. The large socket must point to the front or to the rear of the helicopter.

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.

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

總共有八種不同安裝方向供您選擇:
1. 平放/貼紙朝上側/插口朝飛行方向。
2. 垂直/按鈕朝上側/插口朝飛行方向。
3. 平放倒置/貼紙朝底部/插口朝飛行方向。
4. 垂直倒置/按鈕朝底部/插口朝飛行方向。
5. 平放/貼紙朝上側/插口朝尾管。
6. 垂直/按鈕朝上側/插口朝尾管。
7. 平放倒置/貼紙朝底部/插口朝尾管。
8. 垂直倒置/按鈕朝底部/插口朝尾管。
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 wiring later onwards please make sure the wires do not pass tension to the MICROBEAST PLUS. It is not recommended to bundle or tie down the leads close to the MICROBEAST PLUS device.

The illustrations are only intended as examples! The function assignment of the transmitter determines which channel on the receiver controls which function.

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, Attitude Control function and additional output channels.

**2 CONNECTING THE RECEIVER**

接器連接

![Diagram of receiver connections](image)

- **BEC/Receiver Battery (If Required)**
- **BEC 定速器/接收器電池(如果需要)**

- **Standard Receiver**
- **傳統接收器**

- **BAT**
- **電池**

- **Pitch**
- **爬升**

- **Gyro**
- **陀螺儀**

- **Rudder**
- **尾舵**

- **Elevator**
- **升降舵**

- **Aileron**
- **副翼**

- **Throttle**
- **油門**

- **Throttle Servo ESC**
- **油門伺服器/ESC 變速器**

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

The wires for aileron and elevator additionally transfer the power between MICROBEAST PLUS and receiver.
Using a single remote satellite is only recommended for 450 size helis or smaller! For larger helis please use a SRXL compatible Single-Line receiver for your radio brand.

若您使用的是單線衛星天線，建議只使用在 450 級或更小的直升機上！若您的直升機是較大的機型，建議使用 SRXL 相容單線連接接收機來搭配您的遙控器。

Always make sure the power supply is stable and dimensioned sufficiently for the intended application. If possible always connect the power source directly to MICROBEAST PLUS (not at port [AUX|PIT|RUD]), but additional supply cables can be plugged into free receiver ports, too. Especially when using standard size servos it is 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.

請確定使用的電源規格符合系統要求。如果可能，請給 MICROBEAST PLUS 一個直接的電源。 (不必透過 AUX|PIT|RUD 端口，連接線可插到一個閒置的接收機端口。) 尤其是在使用標準伺服機械時，建議您使用一個以上的供電連接線，並使其保持平行而穩定的電壓，以減少因電流傳輸產生電阻而損耗功率。

### 3. PREPARING YOUR TRANSMITTER

準備遙控器

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

在您的遙控器上設置並儲存一個新的直升機模式，它支援不同的飛行模式，在不同的情況下，控制油門、螺距和尾舵陀螺儀

<table>
<thead>
<tr>
<th>Model Select</th>
<th>Model Name</th>
<th>Model Type</th>
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</thead>
<tbody>
<tr>
<td>Name: My Model</td>
<td>Airplane</td>
<td>List</td>
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<tr>
<td>Name: My Model</td>
<td>Helicopter</td>
<td>List</td>
</tr>
<tr>
<td>Name: My Model</td>
<td>Sailplane</td>
<td>List</td>
</tr>
</tbody>
</table>
You must not use any mixing functions on the output channels! Especially it is not allowed to use mixing functions for the swashplate servos. Deactivate all output channels that are not used. In the basic configuration we only need pitch, aileron, elevator, rudder, throttle and one channel to adjust the tall gyro gain.

請注意！您不能在輸出通道上使用任何混控功能！特別要注意的是，十字舵的伺服器不允許使用混控功能。請關閉任何開關的輸出通道。系統對基本通道的配置，只需要螺距、副翼、升降舵、方向舵、油門和一個通道來調整陀螺感度。

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

每個輸出通道必須精確對應到一個控制功能，首先伺服電機輸出必須設為100%，所有微調和輔助微調必須為零。基本設定並不會改變螺距曲線。油門曲線和油門伺服的設定，可以根據需要來調整，但前提是您不可改變MICROBEAST PLUS的頭速定速功能。

Only the pitch channel must be controled when moving the thrust stick. The same applies to aileron, elevator and rudder.

移動螺距搖桿時，只控制螺距通道，同様適用於副翼、升降及尾舵。

**CAUTION 注意**

With electric driven models remove the motor from the main gear when performing the basic setup for safety reason! Additionally deactivate the throttle by using the "Throttle HOLD" switch, so the motor won't start to turn 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.

為了安全理由，電動直升機在初始設定時，請移除主齒輪上的馬達驅動齒輪，以策安全！此外，請使用遙控器上的「Throttle HOLD」開關，來關閉油門，以確保在移動油門搖桿時馬達不會轉動。

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

To initiate bind procedure on a single Spektrum remote satellite connect the Spektrum bind plug to [SYS] port. When using a DSM2 remote satellite, push and hold the button and turn on power while still holding the button down. The LED on the satellite will flash together with Menu LED N on the MICROBEAST PLUS. When binding a DSMX remote satellite do not touch the button but only power up the device. The LED on the satellite will flash together with Menu LED H. Initiate the bind procedure on the transmitter. Power off and remove the bind plug when finished successfully.

To bind the JR RJ01 remote satellite initiate the bind procedure on the transmitter and power on the MICROBEAST PLUS. The remote satellite will bind instantly. Connecting a bind plug or similar is not necessary.

若使用Spektrum 衛星接收天線，初始對頻時，請將SPEKTRUM的對頻金錶插入MICROBEAST PLUS的(SYS)插槽。
若使用DSMX衛星天線時，進入對頻模式後，請長按MICROBEAST PLUS上的按鈕並接通電源，直到接收器的LED燈和MICROBEAST PLUS設定選單第N點旁的LED燈同時閃爍，此時可輕開按鈕，然後對頻接收器和遙控器，對頻成功後接收器的LED燈保持恆亮。若使用DSMX衛星接收天線，進入對頻模式後，請不要按按鈕，只需接通電源即可，直到衛星天線的LED燈和MICROBEAST PLUS設定選單第H點旁的LED燈同時閃爍，此時輕開按鈕，然後對頻接收器和遙控器，對頻成功後，接收器的LED燈保持恆亮。這是在遙控器的對頻過程，完成後，請關閉電源並移除對頻金錶。

若使用JR RJ01衛星接收天線、遙控器和MICROBEAST PLUS，初始對頻時，衛星接收天線萬保對頻，對頻金錶或類似的工具是不需要的。
To enter RECEIVER MENU MICROBEAST PLUS 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 pressing the button once. The color and state of the Status LED indicates which type is currently scanned for. When the receiver has been detected the menu will skip to point B; when there was some error the Status LED will flash in red color and the menu stays at A. In this case please make sure you’ve connected the receiver correctly and try again!

在進入接收器選單前，必須將 MICROBEAST PLUS 完全關閉。進入接收器選單時，請長按按鈕開機，此時選單LED會由第A點至第N點循環亮燈，即可放開按鈕。

請確認您的遙控器與接收器運作正常，在設定選單第A點，您可以輕壓按鈕一次，系統將自動偵測接收器類型。LED 狀態指示燈的顏色表示當前的選擇。當完成接收器偵測後，設定選單會跳至第B點。如接收器偵測有問題，則Status LED紅燈會閃爍，且停留在第A點，接著請確認您的接收器是否安裝正確後再重複以上偵測程序。

Single-Line receiver (Status LED off, purple or red 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. Alternatively 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 wiki.beastx.com.

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

<table>
<thead>
<tr>
<th>THR</th>
<th>AIL</th>
<th>ELE</th>
<th>RUD</th>
<th>GER</th>
<th>PIT</th>
<th>AX2</th>
<th>AX3</th>
</tr>
</thead>
</table>

PPM serial signal(SPPM) 複合信號

<table>
<thead>
<tr>
<th>CH1</th>
<th>CH2</th>
<th>CH3</th>
<th>CH4</th>
<th>CH5</th>
<th>CH6</th>
<th>CH7</th>
<th>CH8</th>
</tr>
</thead>
</table>

Futaba SBus/SBus2 or BEASTXFASST compatible receiver 相容的接收器

<table>
<thead>
<tr>
<th>CH1</th>
<th>CH2</th>
<th>CH3</th>
<th>CH4</th>
<th>CH5</th>
<th>CH6</th>
<th>CH7</th>
<th>CH8</th>
</tr>
</thead>
</table>
Multiplex SRXL v1 and v2, JR XBUS Mode B, JETI UDI 12+ 16ch

<table>
<thead>
<tr>
<th>CH1</th>
<th>CH2</th>
<th>CH3</th>
<th>CH4</th>
<th>CH5</th>
<th>CH6</th>
<th>CH7</th>
<th>CH8</th>
</tr>
</thead>
</table>

Graupner SUMD

<table>
<thead>
<tr>
<th>CH1</th>
<th>CH2</th>
<th>CH3</th>
<th>CH4</th>
<th>CH5</th>
<th>CH6</th>
<th>CH7</th>
<th>CH8</th>
</tr>
</thead>
</table>

Spektrum SRXL

<table>
<thead>
<tr>
<th>THR</th>
<th>AIL</th>
<th>ELE</th>
<th>RUD</th>
<th>GER</th>
<th>PIT</th>
<th>AX2</th>
<th>AX3</th>
</tr>
</thead>
</table>

*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升機轉速定速功能使用。

Press and hold button for 2 seconds

Release button

Press briefly

Menu LED ① flashes Status LED is solid blue

Menu LED ② flashes Status LED flashes red/blue

Make sure throttle is in motor stop/failsafe position

WARNING: At menu point N the throttle output CH5 is active, when using a electric helicopter the motor may start to run! Move the throttle to the desired failsafe position which will be set in case the receiver connection is interrupted or gets disconnected.

警告！在選單第 N 點，通道 5 (CH5) 油門輸出已經被開啓！當使用電動直升機，馬達將可能會開始轉動，請將油門桿移至您理想的位置，這裡就是油門失控保護的位置，如果使用接收器，這裡就是中斷油門指令的位置。

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 blue 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 setup is finished and the system will reboot immediately. Menu point B will not appear!

5通道的傳統接收器（選單第A點Status LED亮藍燈）

若使用「傳統接收器」，只能利用接收器連接線的物理順序來決定通道功能。如果您選擇使用傳統接收器，系統所提供的通道分配功能和接收機類型將不會出現。因此當選單第 A 點選擇 "Standard" 後(第A點Status LED亮藍燈)，接收器的設定就等於完成了，系統將會馬上重新開機。選單第B點將會消失。
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: 5.0.x
主程式 V 5.0.x:

Calibration of radio channels
遙控器通道校正

Calibration of sensor rest positions
感應器位置校正

Operation mode
操作模式

Do not move sticks on the radio!
請勿移動遙控器搖桿

Do not move the helicopter!
請勿移動直升機

Status LED lights up blue or purple
Status LED 燈亮起 藍色或紫色

Then enter SETUP MENU for making the basic adjustments
然後進入設置選單進行基本調整

Press and hold (!) Button
長按按鈕

Keep button pressed for 2 seconds
持續按著按鈕2秒

Release button when LED A stops flashing
放開按鈕

Operation mode
(Status LED blue or purple)
操作模式
(Status LED 燈藍色或紫色)

Menu LED A flashes
(= PARAMETER MENU)
設定選單 LED 燈第 A 點閃爍
(=參數選單)

Menu LED A lights solid
(= SETUP MENU)
設定選單 LED 燈第 A 點恆亮
(=設定選單第A 點)
Check the selected device orientation and change it if necessary by (repeatedly) moving the rudder stick into one direction until the Status LED color corresponds to the real device orientation. Then briefly press 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。您可以將尾舵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。然後短按按鈕保存設定，並進入下一個選單點。
Adjust swashplate update rate (B), rudder servo pulse width (C) and rudder update rate (D) again by moving the rudder stick to one or another direction until the Status LED lights in the correct color necessary for the servos used in your helicopter. Briefly pressing the button will store the selected option and skip to the next menu point.

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 PLUS 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 WIKI.BEASTX.COM.

Always use 1520 $\mu$s rudder servo pulse width except you’re using a very special type of rudder servo with reduced pulse width (only these servo can be used with an increased update rate of 560 Hz!). Check the servo data sheet!

警告：

您所使用的伺服器的更新速率，请不要超过 50Hz。

较高更新速率可以让 MICROBEAST PLUS 有较好的飞行表现，但您必须先检查所使用伺服器的规格是否符合系统要求。否则，错误的选择会导致伺服器损坏！请浏览 WIKI.BEASTX.COM 查看更多符合无平衡翼直昇机常用的伺服器类型与参数表。

只有较特别的尾舵伺服器需要较低的频宽（有这种特别的尾舵伺服器会使用较高的更新速率 560Hz），其它的尾舵伺服器请务必在尾舵中心频宽设定在 1520 $\mu$s，详见伺服器 Data 资料表。
SETUP MENU POINT E - RUDDER SERVO LIMIT
設定選單第 E 點- 尾舵伺服器極限

Plug the rudder servo connector into CH4 output of MICROBEAST PLUS. 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.

請將尾舵伺服器連接線插於 MICROBEAST PLUS 的 CH4 輸出通道，接著裝上伺服器臂，使其大致和尾舵連桿成 90 度垂直，並請依原機說明書來調整連桿頭的長度。

Push and hold the rudder stick into one direction to move the rudder servo and release the stick when the servo reaches the maximum or minimum allowed servo throw. 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 solid in blue or red color). Then move the servo to the opposite direction adjust as described above and wait until also this position gets stored (Status LED becomes purple).

握住尾舵搖桿往左或往右一邊方向移動，然後放開搖桿，使尾舵伺服器的行程量達到最大或最小。您可以利用尾舵搖桿隨時調整伺服器極限行程的精確位置。如果放開尾舵搖桿幾秒鐘，當前位置將被設定為最大或最小行程量。此時，Status LED 燈會閃爍，然後變為藍色或紅色。同樣，如上所述，移動搖桿在反向設定，等待燈號恆亮為紫色並儲存即可。
1. Move the rudder stick and check the rudder direction on the helicopter.

Correct
正確
Wrong
錯誤

Rudder stick to the right
尾舵搖桿往右
Tail rotor pushes tail left,
so heli turns to right.
尾旋翼向左轉，所以直升機會轉向右

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.

移動尾舵搖桿來檢查尾舵伺服器移動的方向是否正確，如果方向不正
確，請利用遙控器的反向功能來調整即可。

2. Now set the rudder direction of the MICROBEAST PLUS 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 aileron(!) stick once.

Correct
正確
Wrong
錯誤

Rudder stick to the right
尾舵搖桿往右
Status LED blue
Status LED藍燈
Tap aileron stick to
swap colors
輕推副翼桿反向設定燈號
Status LED red
Status LED紅燈

Always set servo direction in the transmitter first, then check the display on the MICROBEAST
PLUS 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 telling the gyro in which direction it must move the servo. Be very conscientious when
doing this setup step, as wrong gyro direction will cause loss of control during takeoff and you
probably crash the helicopter!

請優先在搖控器設定伺服器方向，然後確認MICROBEAST PLUS上或介面上的伺服器方向顯示是否正確。如有
異請修正並設定反向，確保方向正確。請不要更改內定控制方向來修正伺服器移動方向，因為內定控制方向是下
指令給陀螺儀要它將伺服器移動到某一個方位。所以請務必小心此設定，陀螺儀方向錯誤將可能造成起飛失控，
甚至可能會造成摔機。
3. Optional: When you move the rudder stick to full deflection, the Status LED should light solid, not just flash. If this is not the case, increase the servo throw/endpoint 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 match of full stick position and stick end position, the Status LED should just change from flashing to solid when reaching the end position.

3. 補充：當尾舵搖桿移動至極限行程，Status LED會恆亮，並不會閃爍。如果燈號顯示異常，請在搖控器中的尾舵通道。

SETUP MENU POINT G - SWASHPLATE MIXING TYPE
設定選單第 G 點-十字盤混控類型

<table>
<thead>
<tr>
<th>Status-LED</th>
<th>Purple</th>
<th>Flashing Red</th>
<th>Red</th>
<th>Flashing Blue</th>
<th>Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status LED</td>
<td>90°</td>
<td>120°</td>
<td>140°</td>
<td>135°-140°(1:1)</td>
<td></td>
</tr>
</tbody>
</table>

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直升機，建議可以使用十字盤混控類型系統預設120度(Status LED燈紅色恆亮)。

**CAUTION 注意**

Never use any swashplate mixing in your transmitter even when electronic mixing is required!
Deactivate the swashplate mixing in your transmitter or set it to mechanical mixing (which is often called "normal", "H1" or "1 servo" mixing), so that each stick function only moves one receiver output channel. The swashplate mixing is all done by MICROBEAST PLUS!

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。
請將遙控器中十字盤混控功能或設定為機械混控(簡稱"Normal"或"H1"或"1 Servo"混控)，保持每一搖桿僅能控制单一接收通道。所有的十字盤混控會由MICROBEAST PLUS控制完成。
In the following connect the servos to the outputs marked with CH1 to CH3 (CH7) as shown below. With electronic swashplate mixing the two aileron servos have to be connected to CH2 (=left) and CH3 (=right). With a mechanical mixed head (H1) the aileron servo connects to CH2 and collective pitch servo to CH3. Plug the the elevator servo 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 PLUS. 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!).

When you route the wire leads in your model make sure that there is no tension passed to the MICROBEAST PLUS. Make sure that MICROBEAST PLUS is able to move 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 wiring in close proximity to the point at which the cables are plugged into the MICROBEAST PLUS. This makes the cables stiff and inflexible and can cause vibrations being transmitted to MICROBEAST PLUS.

安裝接線時，請適當保留線材的連接長度，確保連接至MICROBEAST PLUS時不可過緊，留有可調空間，避免震動影響MICROBEAST PLUS。連接線材靠近MICROBEAST PLUS的位置，請勿使用任何收縮管或布料軟管固定線材，因為這會使線材變得僵硬且不靈活，並可能導致震動、影響MICROBEAST PLUS。
SETUP MENU POINT H - SWASHPLATE SERVO TRIM
設定選單第 H 點—十字盤伺服器微調

At SETUP MENU point H 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 usually you will not be able to attach the servo horns in exact center position to the servo. After all servos have been trimmed do not proceed to the next menu point yet. With active trimming adjust the linkage rods according to your helicopter’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 aileron stick you 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 rudder stick to change the servo trimming/adjust the center position. You can switch back and forth between the servos as often as you need.

設定選單第 H 點是調整伺服器中心位置，使每一伺服臂和伺服器連桿精確地定位於90度的位置。這是必須的調整過程，因為您通常無法精確地將伺服器臂定位於伺服器中心點。當所有伺服器都已調整完成後，請不要跳至下一設定選單，請再根據您直昇機說明書內容微調伺服器連桿。

首先，當所有伺服器微調為0時，Status LED熄滅，接著請盡可能將伺服器臂調整至中心點，移動副翼搖桿選擇要調整的伺服器組合。一個Status LED燈代表一個伺服器組合，快速上下移動顯示目前選擇的伺服器設定。移動尾舵搖桿向前/向後調整/校正中心位置。

Choose one of the servos connected at CH1 - CH3 (CH7)

由CH1-CH3(CH7)中，選擇一個伺服器

Status LED off
(= no servo active)
Status LED熄滅
(=伺服器未啓動)

Tap aileron stick left or right to choose servo
向左或向右輕推控制桿選擇伺服器

Move rudder stick to adjust servo center position
移動尾舵控制桿調整伺服器中心點

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

當所有伺服器調整完成時，接著調整伺服器連桿在十字盤和主翼桿的移動タイミング軸。主翼桿的定位必須置中垂直於主軸。主翼桿之間的傾斜必須為0度。

If necessary adjust the swashplate anti-rotation so that the swashplate phasing is not shifted (only applies to 2-blade rotorheads).
必要時可調整十字盤的控制軸，使其無十字盤定位（swashplate phasing移除適用於雙葉螺旋葉片螺旋槳）。

Hint: To reset the servo trims push and hold the button for at least 10 seconds.
提示: 長按按鈕至少10秒，可重設伺服器微調系統撥桿位置。
Move the thrust stick and check whether all servos push the swashplate up and down simultaneously. If this is not the case by tapping the aileron stick you 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. Tap the rudder stick once to change the servo direction. You can switch back and forth between the servos as often as you need.

移動油門搖桿來檢查伺服器行程是否正確，請將十字盤向上或向下推動。如動作不正確，可移動副翼搖桿切換伺服器組合，一個Status LED燈代表一個伺服器組合，快速上下移動顯示目前選擇的伺服器設定，輕推尾舵搖桿一次來變更伺服器方向，根據您的需求，您可重覆以上搖桿切換動作。

After adjusting servo directions 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 channel in the transmitter later.

完成伺服器方向設定後，請再確認螺距方向是否正確。您可以一開始就正確地設定伺服器方向，或待一會兒在遙控器上變更螺距通道方向。

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 PLUS, not the servos! Reversing a channel in the transmitter will reverse the control function in total, not the direction of a single 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服器方向! 遙控器只能控制MICROBEAST PLUS，無法控制伺服器！所以遙控器反向功能會將所有設定值都設為反向，不會只改變某一伺服器方向。（如您使用的是mCCPM十字盤混控類型，則另當別論。）
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 aileron pitch. Use your smartphone to scan QR Code or link to Align website for more complete instruction:

Align 直昇機的頭速和旋翼頭的設計是平行於直昇機的 X 軸，並且提供螺距規和十字盤校正器(另購品)，可以用來校正螺距，十分方便好用，請參考相關網頁。手機掃描 QR Code 將會有更完整的亞拓產品介紹。若手機無法掃描 QR Code 請上亞拓官網

At SETUP MENU point J we adjust the internal servo throw so that MICROBEAST PLUS has a reference on how far it must move the servos when controlling the helicopter. To set the throw you have to align 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.

設定選單第 J 點是設定伺服器行程量，如此 MICROBEAST PLUS 在控制直升機時才有依據。設定伺服器行程量時，您必須將主旋翼保持水平 (與尾管水平對齊)，並使用電子螺距規校正螺距。

Menu LED J Solid
Status LED Off
Menu LED 燈第 J 點恆亮,
Status LED 捻熄滅

Tap aileron stick to switch to measure Position
輕推制翼搖桿切換測量位置

Use rudder stick to adjust blade pitch to exact exact +6 or -6 degrees
使用尾舵搖桿校正螺距，直到螺距達到 +6 或 -6 度

Status LED should be solid blue
(see instruction manual for further details on the LED colors)
Status-LED燈須恆亮藍色
(參考說明書LED燈號介紹)
1. Set internal control direction

Move thrust stick to maximum positive pitch and let it stay there.

Status LED blue
Status-LED燈藍色

2. The Status LED must light solid, 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 rudder stick reaches the end position. But do not increase the endpoint too much in the transmitter!

We need an exact match of full stick position and stick end position, the Status LED should just change from flashing to solid when reaching the end position.

3. Now use rudder stick to adjust maximum positive collective pitch (i.e. +12°)

3. 移動尾舵搖桿調整最大正集體螺距(例如+12°)

4. Finally move thrust stick to full negative position and repeat steps 2. and 3. for the negative pitch.

4. 最後，移動油門搖桿至最大負值位置，接著重覆第2和3的動作直到螺距為負。

Do not change control direction anymore!

請勿再變更控制方向。
SETUP MENU POINT L - SWASHPLATE SERVO LIMIT
設定選單第 L 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，您可以移除螺距規！同時，請移動油門搖桿，副翼和升降舵到最大偏轉的位置，接著檢查螺距，十字盤或連桿是否會在某個位置卡卡的。利用向左或向右移動尾舵搖桿，您可以增加或減少伺服器行程！此調整是為了提高搖桿在控制伺服器時的順暢度，但也必須避免超過極限。

Press Button Briefly
按壓鈕倉

Menu LED L solid Status
Menu-LED 優第 L 點恒亮

Move thrust, aileron and elevator sticks carefully to maximum deflection!
小心地移動螺距、副翼和升降舵搖桿到最大偏轉！

Move rudder stick to adjust the servo limit 移動尾舵搖桿調整伺服器極限

Status LED should be solid blue (See instruction manual for further details) Status LED 燈管亮藍色 (參考說明書的進一步介紹)

SETUP MENU POINT M - SWASHPLATE CONTROL DIRECTIONS
設定選單第 M 點—十字盤控制方向

1. If not already done, move the stick(s) for aileron and elevator on the radio and check whether the swashplate is moved in the correct directions on the helicopter. The swashplate must follow the stick movement: pushing elevator forward will tilt the swashplate forwards, adding aileron 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 aileron and/or elevator channel to set stick control direction correctly.

1. 如果此動作還未完成，請移動升降舵和副翼搖桿來確認直升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: 將升降舵搖桿往前移，十字盤會向前傾，再將副翼搖桿往右，十字盤也會跟著向右傾。如果十字盤動作和搖桿動作方向不一致，請在遙控器上設定反向功能，轉換升降舵和副翼搖桿的動作方向，使搖桿與十字盤動作方向一致。

2. Now set the internal control direction of the MICROBEAST PLUS gyro
2. 現在設定 MICROBEAST PLUS 的內部控制方向。

Correct 正確
Wrong 錯誤

Elevator forward Aileron to the right 移動升降舵搖桿往前，副翼搖桿往右
Status LED blue Status-LED藍色
Tap rudder stick until color is correct 輕鬆尾舵搖桿直到燈號顏色正確
Status LED red Status-LED紅色
Status LED purple Status LED紫紫色

There are four possible options, only one is correct!
共有4種可能的選項，僅有1個是正確的。
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, select "Governor off".

<table>
<thead>
<tr>
<th>Status-LED</th>
<th>Off</th>
<th>Red</th>
<th>Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status-LED</td>
<td>N Internal Governor</td>
<td>Governor Off*</td>
<td>Electric Heli</td>
</tr>
<tr>
<td>Status-LED</td>
<td>N内建定速模式</td>
<td>頭轉速定速模式</td>
<td>電動直升機</td>
</tr>
</tbody>
</table>

When you're using the Headspeed Governor of MICROBEAST PLUS 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.

磁感器安裝在接近離合器馬達位置

Magnetical sensor mounted close to clutch bell of motor

Throttle servo connected to CH5 油門伺服器連接到 [CH5]
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.

Electric Heli With Brushless Phase Sensor
電動直升機帶無刷相位感應器

Menu LED A flashes
Status LED off
Menu LED 燈第 A 點 閃 燈 Status-LED 燈熄滅

Rotate the motor by hand.
The Status LED must light red
請小心增加機件並監測馬達轉動
Status-LED 燈呈亮紅色

Turn clutch bell by hand
Status LED solid blue
When magnet triggers sensor
手轉動離合器
Status-LED 燈呈亮藍色

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

Servo arm and throttle lever in parallel and perpendicular to linkage rod
Servo臂及油門控制轉換連桿及油門控制桿

Thrust in Mid Stick Position
推桿置於中立位置

Align
GOVERNOR MENU POINT B - MOTOR OFF/IDLE POSITION

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/gas heli move the throttle to a stable idle position.

使用電動直昇機請將油門移動到開啓馬達前的位置，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，當使用引擎直昇機時，請將馬達開啓/關閉位置移動到油門怠速位置。

GOVERNOR MENU POINT C - FULL THROTTLE POSITION

Move throttle to maximum position. Note: In electric governor mode the throttle input will not be passed to CH5 output to prevent from motor damage 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, i.e. by correctly programming your throttle end points in the transmitter or ESC.

將油門推到最大行程的位置。請注意：在電動直昇機變速器(ESC)的模式下，為了防止空載而損壞馬達，油門輸入將不會經由[CH5]傳輸出來！因此，您必須在馬達實際轉動前，檢查最大行程量，請直接操作遙控器或變速器油門的最大及最小行程量。

GOVERNOR MENU POINT D - TRANSMITTER SETUP

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/rpm presets in the transmitter.

在這裡我們可以設置想要的旋翼頭轉速和油門曲線。Status-LED 燈，可以驗證遙控器的設定是否正確：
定速模式關閉 = 消滅，自動 = 紫色，定速模式啓動 = 紅色/藍色(最大 RPM 值)
當使用電動直昇機時，油門是完全獨立於油門桿。油門曲線是根據旋翼頭轉速和定速模式來決定水平位置。請使用飛行模式開關，以便您在遙控器上切換不同曲線和轉速。
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 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.

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.
Manual Control
- Throttle curve controls servo
- Governor off
- Governor channel below 5% (0-90)

Idle Up
- Governor channel set between 5% and 100%
  (or -60 and +100 on some transmitters)
  equals headspeed of 500-3000rpm
  - +5% (or 10 clicks) = +131rpm
  - throttle channel must stay above 25%

Idle Up
- 定速模式通道設定在 5% 至 100% 之間 (於一些遙控系統為 -90 至 +100)等於速度 500-3000rpm
  - +5% (或 10 單位) = +131rpm
  - 油門曲線需高於 25%

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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.

您所使用的引擎電子自動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燈號會顯示目前所使用的定速模式。

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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 quick and may lock in at full throttle position.

建議適當的定速模式，直升機頭轉速最高不可高於80%。當使用引擎電子自動定速模式，請確保在參數選單中緩升速度與緩升速度不可設過高。否則油門啓動會過快且全速時會被鎖定。
**GOVERNOR MENU POINT E - SIGNAL DIVIDER**

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)

<table>
<thead>
<tr>
<th>Status-LED</th>
<th>Off熄滅</th>
<th>Flashing Purple紫燈閃爍</th>
<th>Purple紫燈</th>
<th>Flashing Red紅燈閃爍</th>
<th>Red紅燈</th>
<th>Flashing Blue藍燈閃爍</th>
<th>Blue藍燈</th>
</tr>
</thead>
<tbody>
<tr>
<td>E Signal Divder訊號分配表</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4*</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

**GOVERNOR MENU POINTS F G H - MAIN GEAR RATIO**

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 purple + H flashing red

| Status-LED | Off熄滅 | Flashing Purple紫燈閃爍 | Purple紫燈 | Flashing Red紅燈閃爍 | Red紅燈 | Flashing Blue藍燈閃爍 | Blue藍燈 | Red/Blue紅色藍色 |
|------------|---------|------------------------|----------|-----------------------|--------|-----------------------|--------|-----------------'|
| F          | Custom自定 | 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 | —— | —— |
| H          | —— | +0.00 | +0.05 | +0.10* | +0.15 | —— | —— | —— |
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 of the Status-LED indicates the selected mode when MICROBEAST PLUS is operation. Purple means Normal-Rate and blue indicates Heading Lock mode. When changing the gain and after initialization sequence the amount of gain is displayed by one of the menu LEDs for 4 seconds.

For the first flight we suggest to use Heading Lock mode (Status LED blue) and start with medium gain (not higher than LED G). In case the tail of the helicopter starts to oscillate with high frequency in flight, immediately reduce the gain! If on the other hand the rudder control feels imprecise and the gyro doesn’t hold position very well, increase the gain. Most radio systems provide an automatic switching for the tail gyro 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 gyro is setup and do not rely upon the values of your transmitter as signs and percentages may vary depending on radio brand and radio type!

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 swash plate is horizontal and that the tail pitch slider is close to center position. Avoid excessive steering during lift-off otherwise the helicopter may tip over! The best way is to give a fair and direct collective pitch input to lift the helicopter quickly up into the air.

Adjusting the three dials on top of MICROBEAST PLUS 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.

在锁定模式下 (Status-LED 燈亮藍色) 的首次飛行時，我們建議您將態積設在 50% (以不超過 LED 燈 G 以上，請參考 上圖)。假使在飛行時尾部有劇烈震動，請立即降低態積，如果尾部控制不精準或陀螺儀鎖尾效果不佳，請增加態積。大多數品牌的遙控器在某種飛行模式下，可自動切換陀螺儀態積。在飛行模式下使用不同的陀螺儀設定，建議使用最高態積，反方向使用高度態積，可降低態積。首次飛行前，請務必檢查陀螺儀態積，以及飛行模式的切換是否正確。請透過Status-LED燈號顯示檢查陀螺儀的設定，切勿依賴遙控器上顯示的設定值與比例，因為不同的遙控器其設定值與比例可能會有差異。

在首次飛行前，最好在第一次搖桿檢查，例如用手推動搖桿，看十字盤運動方向是否正確，左右或前後是否自動開關，看發電機是否會做出正確的反應端時，請記住，陀螺儀的十字盤是呈水平的位置，尾部態積接近中立點。請注意，起飛時請不要再轉動發電機，否則會使發電機速度過快，最好的方式是先打一個小額的直接的循環然後，讓直升機可以快速的升空。

調整 MICROBEAST PLUS 面板上的三個旋鈕，可以調整您的自動發電機的飛行效果。首次飛行時，面板上的三個旋鈕的態積或在水平位置。如有必要，請一次只調整一個旋鈕。若順時針方向轉動旋鈕，態積會增加。反之，逆時針方向轉動旋鈕，態積會降低。
1 - Cyclic gain
The higher the gain the harder the helicopter will stop after cyclic moves and the more stable and precise the helicopter will fly. If the gain is too high the helicopter will tend 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 sluggish. Due to their low mass small helicopters typically do not need as much gain as large helicopters.

1-循環螺距感度
感度越高，循環螺距變化後，直昇機的剎車就會比較緊，這樣會使得停懸較穩定。但是，如果感度太高，直昇機在上下飛行時會有感彈跳尾的現象產生，並容易抖動。由於這些現象大多發生在較小型的直昇機上 (450級含以下)，所以，小型直昇機的主旋翼感度一般來說要比大型直昇機來得低。但如果感度太低，直昇機的剎車動作將不準確，執行循環動作 (滾轉及俯仰) 後會失準，此外，直線快速飛行和停懸時也會感覺遲鈍不穩定。

2 - Cyclic feed forward
Feed forward connects the servo movements with your stick inputs, bypassing the control loop. This will give a more natural control feel and quicker reactions to stick inputs. But if the cyclic feed forward is too high, stick control will fight against the control loop. The heli will bounce back when stopping from a cyclic movement and it will react over sensitive and pitch up easily in fast forward 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，會使得直昇機有停頓回彈的現象產生，也會覺得直昇機的反應過度敏感。同時，當增加震度時，直昇機會快速向前飛。反之，如果十字盤直接輸出量過低，會出現延遲現象和感覺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「尾舵動態反應」的感度，會影響到直昇機在自旋剎車時的動作及敏感度。如果感度設定太高，直昇機在自旋剎車時，會感到直昇機有過度靈敏的反應或追尾現象，在快速變化方向時又會感覺鬆軟無力。如果感度設定太低，在打舵時，會感到遲鈍和軟力。理想情況是直昇機在自旋剎車時，尾部要完美停止，沒有任何拖泥帶水的干擾。
### MENU POINT A - SWASHPLATE QUICK TRIM (MENU LED A FLASHING)

Move the stick(s) for aileron and elevator to trim the swashplate 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.

### MENU POINTS B TO K

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.

<table>
<thead>
<tr>
<th>Status-LED</th>
<th>Off</th>
<th>Purple</th>
<th>Flashing Red</th>
<th>Red</th>
<th>Flashing Blue</th>
<th>Blue</th>
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</thead>
<tbody>
<tr>
<td>Status-LED</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>B Control Style</td>
<td>Custom</td>
<td>Normal</td>
<td>Sport*</td>
<td>Pro</td>
<td>Extreme</td>
<td>Tx Mode</td>
</tr>
<tr>
<td>C Speed Flight Stability</td>
<td>Custom</td>
<td>very low</td>
<td>Low</td>
<td>High</td>
<td>Very High</td>
<td></td>
</tr>
<tr>
<td>D Rudder Rate Consistency</td>
<td>Custom</td>
<td>very low</td>
<td>Medium*</td>
<td>High</td>
<td>Very High</td>
<td></td>
</tr>
<tr>
<td>E Stick Deadzone</td>
<td>Custom</td>
<td>very small</td>
<td>Small*</td>
<td>Medium</td>
<td>Large</td>
<td></td>
</tr>
<tr>
<td>F Torque Precompensation</td>
<td>Custom</td>
<td>Off</td>
<td>Low - nor.</td>
<td>High - Nor.</td>
<td>Low - Inv.</td>
<td></td>
</tr>
<tr>
<td>G Cyclic Response</td>
<td>Custom</td>
<td>Normal*</td>
<td>Slightly Increased</td>
<td>Increased</td>
<td>Aggressive</td>
<td></td>
</tr>
<tr>
<td>H Pitch Boost</td>
<td>Custom</td>
<td>Off*</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>I Throttle Response</td>
<td>Soft</td>
<td>Normal*</td>
<td>Slightly Increased</td>
<td>Increased</td>
<td>Aggressive</td>
<td></td>
</tr>
<tr>
<td>J Slow Rampup Speed</td>
<td>Custom</td>
<td>60 rps</td>
<td>100 rps*</td>
<td>200 rps*</td>
<td>300 rps</td>
<td></td>
</tr>
<tr>
<td>K Fast Rampup Speed</td>
<td>Custom</td>
<td>Using Slow Rampup Speed</td>
<td>300 rps</td>
<td>500 rps*</td>
<td>700 rps</td>
<td>900 rps</td>
</tr>
</tbody>
</table>
### Setup Menu (Menu LED Solid)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Factory Setting</th>
<th>User Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Device Orientation</strong></td>
<td></td>
<td><strong>左/右</strong></td>
</tr>
<tr>
<td><strong>Swashplate Frequency</strong></td>
<td>50 Hz*</td>
<td>65 Hz</td>
</tr>
<tr>
<td><strong>Rudder Pulse Width</strong></td>
<td>760 μs*</td>
<td>960 μs</td>
</tr>
<tr>
<td><strong>Rudder Frequency</strong></td>
<td>50 Hz*</td>
<td>165 Hz</td>
</tr>
<tr>
<td><strong>Rudder Limit</strong></td>
<td>Use rudder to move servo to one endpoint and wait until LED flashes, then move to the other endpoint and wait.</td>
<td></td>
</tr>
</tbody>
</table>

### Governor Setup Menu (Menu LED Flashing Slowly)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Factory Setting</th>
<th>User Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test Mode</strong></td>
<td><em>Nitro/gas Helicopter, Status-solid Blue When Magnet Passes Sensor</em></td>
<td></td>
</tr>
<tr>
<td><strong>Motor Offside Position</strong></td>
<td><em>Electric Helicopter, Status-solid Red When Motor Is Running</em></td>
<td></td>
</tr>
<tr>
<td><strong>Full Throttle Position</strong></td>
<td><em>Throttle Servo To (increased) Idle Position</em></td>
<td></td>
</tr>
<tr>
<td><strong>Transmitter Setup</strong></td>
<td><em>Electric Helicopter, Throttle Servo To (increased) Idle Position, Just Before Motor Starts (throttle unlocked)</em></td>
<td></td>
</tr>
<tr>
<td><strong>Signal Divider</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Main Gear Ratio</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Parametric Menu (Menu-LED is Flashing Quickly)

<table>
<thead>
<tr>
<th><strong>Quick Trim</strong></th>
<th><strong>Control Style</strong></th>
<th><strong>Speed Flight Stability</strong></th>
<th><strong>Rudder Rate Consistency</strong></th>
<th><strong>Stick DEADzone</strong></th>
<th><strong>Toque Precompensation</strong></th>
<th><strong>Cyclic Response</strong></th>
<th><strong>Pitch Boost</strong></th>
<th><strong>Throttle Response</strong></th>
<th><strong>Slow RAMP Speed</strong></th>
<th><strong>Quick change rate</strong></th>
<th><strong>Attitude control Mode</strong></th>
<th><strong>Attitudecontrol Pitch</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gyro in HI mode: Trim aileron and elevator with stick, use rudder to trim collective. Gyro in Rate Mode: Rudder stick trims rudder. Attitude Control active: Adjust roll and pitch angle of horizon with aileron and elevator stick. Any mode: Reset all servos trims by holding button for 10 seconds.</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
<td>Custom</td>
</tr>
</tbody>
</table>

Enter PARAMETER MENU by pressing button briefly in operation mode. Use rudder to adjust value/choose setting (except at A). Skip to next menu Point by pressing button briefly, then last point menu will exit.

* Default setting - hold button for 10 seconds when in SETUP MENU to reset everything to default (except receiver settings).

### Receiver SET-UP MENU (Menu-LED is flashing)

<table>
<thead>
<tr>
<th><strong>Receiver Type</strong></th>
<th><strong>Pitch channel</strong></th>
<th><strong>Aileron channel</strong></th>
<th><strong>Elevator channel</strong></th>
<th><strong>Rudder channel</strong></th>
<th><strong>Gyro channel</strong></th>
<th><strong>Throttle channel</strong></th>
<th><strong>AUX channel (CH6)</strong></th>
<th><strong>Governor channel</strong></th>
<th><strong>AttitudeControl channel</strong></th>
<th><strong>Throttle false safe</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spektrum/JR Satellite</td>
<td>Analog serial input</td>
<td>Digital serial input</td>
<td>Standard RX</td>
<td>Move the stick/channel on transmitter you want to assign. The Status-LED will flash in blue color when channel was selected. When Status-LED flashes red, two or more channels have been moved!</td>
<td>Menu points H, I and J can be skipped in case you don't want to use the specific function or if you want to use the nemo RPK Governor or Attitude Control without separate swich channel. To load the default assignment common to your radio system keep the button pressed for 2 seconds and release. You will directly jump to menu point N.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spektrum/JR Satellite</td>
<td>Analog serial input</td>
<td>Digital serial input</td>
<td>Standard RX</td>
<td>Move the stick/channel on transmitter you want to assign. The Status-LED will flash in blue color when channel was selected. When Status-LED flashes red, two or more channels have been moved!</td>
<td>Menu points H, I and J can be skipped in case you don't want to use the specific function or if you want to use the nemo RPK Governor or Attitude Control without separate swich channel. To load the default assignment common to your radio system keep the button pressed for 2 seconds and release. You will directly jump to menu point N.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>Spektrum/JR Satellite</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spektrum/JR Satellite</td>
<td>Analog serial input</td>
<td>Digital serial input</td>
<td>Standard RX</td>
<td>Move the stick/channel on transmitter you want to assign. The Status-LED will flash in blue color when channel was selected. When Status-LED flashes red, two or more channels have been moved!</td>
<td>Menu points H, I and J can be skipped in case you don't want to use the specific function or if you want to use the nemo RPK Governor or Attitude Control without separate swich channel. To load the default assignment common to your radio system keep the button pressed for 2 seconds and release. You will directly jump to menu point N.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Enter RECEIVER MENU by pressing and holding button before I and while power up. Skip to next menu Point by pressing button briefly (at Menu Point A short button press will initiate automatic receiver detection). When Standard RX is used menu will exit after detection.

Please note: AttitudeControl options are only accessible when PROEDITION firmware upgrade is installed.
1 - To reset the device you have to enter SETUP MENU firstly:

When in operation mode (Status LED blue or purple) push and hold the button for at least 2 seconds. Release button. LED A should light solid now.

1-首先，進入SETUP MENU設定選單

開機後，狀態顯示燈亮藍或紫，長按按鈕至少2秒，然後放開按鈕，LED A燈會恆亮，此時進入設定選單。

- System Operational 系統執行中
  Press and Hold Button 長按按鈕

- Parametertmenu 參數選單
  Keep pressed 持續長按

- Setupmenu 設定選單
  ...now release button ...現在放開按鈕

Status LED blue/purple No Menu LED 標示指示燈熄滅/無選單Menu LED不亮
Menu LED A flashing Menu LED熄至A燈閃爍
Menu LED A solid Menu LED熄燈恒亮

2 - Now to initiate the reset:

Again push and hold the button, this time for at least 15 seconds. You can see the reset happening by all LEDs A to N cycling quickly one after another.

2-現在重設初始化

再長按按鈕至少15秒，接著開始重設，LED燈A-N會快速循環亮燈，完成後放開按鈕。

Reset 重設預設值
Press and Hold Button for 15 seconds 長按按鈕15秒

Menu LEDs Cycling Menu LED熄熄亮

System Operational 系統執行中
Release Button 放開按鈕

Status LED blue/purple No Menu LED 標示指示燈熄滅/無選單Menu LED不亮

A FEW NOTES

1. Reset will not work when the system is not operational! When in calibration mode (Status LED red and LED rows A-G or H-N cycling up and down) pushing the button will have no significant effect. It will only change the display but won’t enter any menu or reset anything.

2. The reset procedure as described above will work with any BEASTX device: MICROBEAST, MICROBEAST PLUS, Spektrum AR7200BX, Spektrum AR7210BX and with any firmware Version. With early MICROBEAST PLUS firmware 5.0.x the reset was not indicated by menu LEDs by accident. But it will happen when you push and hold the button in SETUP MENU long enough. Just you won’t get any visual feedback. This issue was fixed in the meantime already (firmware 5.1.2).

3. With Microbeast PLUS Firmware 5.x.x and latest Studixm App/PC Software, also you can reset the device from the app. You will find this in the section “Backup/Restore” inside the app.

其他注意事項

1. 調整狀態下執行重設初始化無效！在校正模式( Calibration Mode)下LED狀態指示燈會亮紅燈，兩排Menu LED熄A-G / H-N會循環亮熄，此時按按鈕，僅會面轉換但不會進入設定選單或進行系統重設初始化。

2. 以上重設初始化步驟可適用任何BEASTX設備：版次，包括：MICROBEAST, MICROBEAST PLUS, Spektrum AR7200BX, Spektrum AR7210BX。請注意，MICROBEAST PLUS V5.0.x之前的版本初始化時，Menu LED燈號顯示並不會循環亮熄，僅需在設定選單下長按按鈕數秒即可，系統不會有其他燈號顯示反應，V5.1.2版次已解決此問題。

3. 如使用Microbeast PLUS V5.x.x培訓最新的Studixm APP/PC軟體，可直接由APP上重設初始化，APP可進到Backup/Restore(備份/重設)選單內進行初始化設定。