

A10

RADIO CONTROL SYSTEM

ALIGN

INSTRUCTION MANUAL

使用說明書

[HERA1802T]



Much precise control
feeling for more fun.



10 CHANNELS
2.4GHz TRANSMITTER



For more detailed instruction, please check our website.
<http://www.align.com.tw/A10>

更多詳情的網頁上說明。

Congratulations on your purchase of Align professional aerial photography products! To ensure your success with this product, we would like to present the following information and important reminders.

恭喜閣下選用亞洲遙控世界系列產品，謹表誠意。進入遙控世界之前必須先熟悉許多相關的知識與注意事項，以確保您能將在使用過程中得心應手。在開始操作之前，請務必詳閱本說明書，相信一定能夠給您帶來極大的幫助，也請您妥善保管這本說明書，以作為日後參考。

TABLE OF CONTENTS



ALIGN

INTRODUCTION 前言	1	POWER OFF 关机	14
SUGGESTION 建议	1	HOME PAGE 主界面介绍	15
IMPORTANT NOTES 重要提示	2	MENU PAGE 主界面选项介绍	16
SAFETY NOTES 安全注意事项	4	SYSTEM 系统设置	16
WARNING LABEL LEGEND 警告标识图例	4	MODEL SELECT 模型选择	16
STANDARD EQUIPMENT 标准配置	6	MODEL NAME 模型名称	17
OPTIONAL EQUIPMENT 选装配置	6	TYPE SELECT 类型选择	17
PACKAGE CONTENTS 包装内容	6	MODEL COPY 模型复制	17
INTRODUCTION 产品简介	9	MODEL RESET 模型重置	18
SYSTEM FEATURES 系统特点	9	RECEIVER MODE 接收模式	18
TRANSMITTER INTRODUCTION 遥控器介绍	10	TRAINER MODE 教练模式	18
TRANSMITTER ANTENNA 遥控器天线	11	STUDENT MODE 学生模式	18
RECEIVER OVERVIEW 接收器概览	11	STICK MODE 摇杆模式	18
RECEIVER SETUP OVERVIEW 接收器设置概览	15	A/B TRANSMITTER MODE 1 AND MODE 2 CONVERSION INSTRUCTION A/B遥控器-模式1-2切换指南	20
RECEIVER ANTENNA 接收器天线	11	STICKS ADJUST 摇杆调整	20
STATUS INDICATOR 状态指示灯	11	LED BRIGHTNESS 背光亮度	21
GETTING STARTED 使用指南	12	TIME SETTING 时间设置	21
TRANSMITTER BATTERY INSTALLATION 遥控器电池安装	12	LANGUAGE SELECT 语言选择	21
OPERATION INSTRUCTIONS 操作说明	12	FIRMWARE VERSION 固件版本	22
POWER ON 开机	12	FIRMWARE UPDATE 固件更新	22
RX BINDING 接收器绑定	13	FACTORY RESET 恢复出厂设置	22
PRE-CHECK 操作前检查	13	FUNCTIONS 功能	23
USB SIMULATOR MODE USB模拟器操作	14	REVERSE 反向	23

TABLE OF CONTENTS



ALIGN

END POINT 終端打點圖	23
DISPLAY 顯示圖例	24
AUXILIARY CHANNELS 輔助頻道	24
SLIP-TRIM 防跳	24
DUAL RATE / EXPONENTIAL 大小舵/指數增益	25
THROTTLE CURVE 油門曲線	25
PITCH CURVE 俯仰曲線	26
SWASH-APR 十字擺線器	26
MIX 混合	27
ELEVON 升降舵副翼	27
V-TAIL V尾翼	28
GYRO 陀螺儀	28
GOVERNOR 油門限制器	28
SWITCHES ASSIGN 開關設定	28
THROTTLE HOLD 油門鎖死	29
THROTTLE CUT 油門切斷	29
FAILSAFE 失效保護	29
AIO TRANSMITTER FIRMWARE UPDATE AIO接收機固件程式下載更新	30
PRODUCT SPECIFICATION 產品規格	30
TRANSMITTER SPECIFICATION (A10) 接收機規格 (A10)	33
RECEIVER SPECIFICATION (A88) 接收機規格 (A88)	33

IMPORTANT NOTES

重要聲明

Radio Control (RC) multicopters are not toys. RC 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, RC 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.

遙控模型飛機係屬精密電子產品，其性能卓越，但使用不當可能會造成嚴重人身傷害或財產損失。請在操作前細閱說明書，並確保在操作時意識到自己的安全及附近他人的安全。製造商及經銷商不承擔因操作或誤用本產品所導致之任何損傷或損失之責任。本產品僅供具有操作遙控飛機經驗之成人於合法飛行場地使用。售出此產品後，我們不能對其操作或使用負責。

我們建議您在首次嘗試操作本產品前，尋求有經驗之飛行員協助。當地的專家是正確組裝、設定及飛行模型的最佳途徑。本產品需要一定程度的技術才能操作，且為消耗品。任何因意外或修改而導致之損傷或不滿，均不在任何保修範圍內，且不能退回修理或更換。當您在操作或維護過程中遇到問題時，請與經銷商聯繫，以獲得免費技術諮詢及以優惠價格購買零件。由於Align Corporation Limited對產品的使用、設定、組裝、修改或誤用無控制權，因此對於任何由此類行為所導致之損傷或受傷，我們不能承擔或接受任何責任。通過使用、設定或組裝，用戶將承擔所有由此產生的責任。

作為本產品的使用者，您，是唯一對其自己操作的安全性及行為負全部責任之人。

This product complies with low-power radio wave radiation of the provisions of motor management :

- Article 12: Without permission granted by the DGT, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices.
- Article 14: The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; if found, the user shall cease operating immediately until no interference is achieved.
- The said legal communications means radio communications is operated in compliance with the Telecommunications Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio-wave radiated devices.

※產品符合低功率電磁輻射性電機管理辦法：

- 第十二條：未經主管機關之核准，不得變更頻率、加大發射功率或變更原設計之特性及功能。
- 第十四條：低功率電磁輻射性電機不得對航空器之安全及干擾合法通信；經發現有干擾或虞時，應立即停止使用。該設備對干擾應力有排除能力。
- 前項合法通信，指依電信事業之無線電管、低功率射頻電機使用管理辦法或工業、科學及醫療用電磁輻射性電機防護法之干擾。

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SAFETY NOTES

安全注意事項

ALIGN

WARNING LABEL LEGEND

標誌代碼說明



Do not attempt under any circumstances.
在任何情況下均不應嘗試。



Mishandling due to failure to follow these instructions may result in serious damage or injury.
因未能遵照指示而誤用，可能會造成嚴重損壞或受傷。



Mishandling due to failure to follow these instructions may result in danger.
因未能遵照指示而誤用，可能會造成危險。

- Fly only in safe areas, away from other people. Do not operate R/C aircraft indoors or within the vicinity of houses or crowds of people. R/C aircraft are prone to accidents, collisions, 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 store no critical parts, or unforeseen danger may happen.
- Please obey all regulations to enjoy safe modeling.
- Please keep the model in sight at all times, as large objects can negatively impact the RF signal. Please keep in mind that objects such as wire fences and wire mesh will also cause degradation of the RF signal.
- 遙控飛機應在安全區域飛行，請勿在他人附近或室內飛行。遙控飛機容易發生意外、碰撞或墜毀，原因包括：缺乏維護、飛行員失誤、以及無線電干擾。飛行員應對其行為負責，並在飛行過程中或作為遙控飛機模型的結果造成損壞或受傷。
- 每次飛行前應仔細檢查所有部件（如螺旋槳、螺絲、機身、機臂等），確保它們牢固固定，並存儲任何關鍵部件，否則可能會發生危險。
- 請遵守所有法規，以享受安全的模型飛行。
- 請始終保持模型在視線範圍內，因為大型物體可能會對無線電信號產生負面影響。請牢記，物體如鐵絲網和鐵絲網也會導致無線電信號的退化。
- 請遵守所有法規，以享受安全的模型飛行。
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- Do not use the product at night or in bad weather like rain or thunderstorms. It can cause erratic operation or loss of control.
- Do not use the product in poor visibility conditions.
- Do not use the product on rainy or snowing days. Any exposure to moisture (like water or snow), erratic operation or loss of control may occur.
- Frequency interference may cause loss of control, make sure not to use the products in the following places to ensure the safety of yourself:
 1. Near the base station or other radio-wave exposure places.
 2. Near high voltage cables and broadcast communication antennas.
 3. Near crowd or on the streets/roads where vehicle pass by.
 4. On open water area where passenger ship go through.

WARNING

- Do not use this product when you feel tired, uncomfortable, or after drinking alcohol or taking drugs. Doing so may cause serious injury to yourself or others.
- 2.4GHz radio band is different from other low-frequency wave, make sure not to use the product out of your sight, such as large obstacle/object will block the RF signal and lead to unexpected danger.
- When operating the product, it's forbidden to hold the radio antenna. Or it'll significantly decrease transmission quality and strength then lead to unforeseen danger and loss of control.
- Do not touch any heating part of the model during operation or just after stopping, such as engine, motor or speed controller, or it may cause serious injury and scold.
- 請不要在疲勞或飲酒後使用此模型產品，這可能會導致您或他人受傷或死亡。
- 請不要在視線模糊的情況下使用此模型產品。
- 請不要在操作時或剛停止後觸摸任何發熱部分，如引擎或電機輸入到系統內部，可能會導致受傷或燙傷。
- 當操作此模型產品時，為保護您和他人之安全，請不要於以下地點使用此模型產品
 1. 離電壓或電流或任何無線電場或磁場附近。
 2. 高壓電線或高壓線路附近。
 3. 人群或交通路口或任何車輛通行附近。
 4. 有易燃易爆物附近。
- 請勿使用模型 - 在操作時，模型可能會旋轉，這會導致模型旋轉時對您受傷 - 請勿使用此模型，否則可能會導致自己或他人受傷或死亡。
- 在操作此模型產品時，請勿觸摸任何發熱部分，如引擎或電機輸入到系統內部，可能會導致受傷或燙傷。
- 請勿在視線模糊的情況下使用此模型產品。
- 當操作此模型產品時，為保護您和他人之安全，請不要於以下地點使用此模型產品
 1. 離電壓或電流或任何無線電場或磁場附近。
 2. 高壓電線或高壓線路附近。
 3. 人群或交通路口或任何車輛通行附近。
 4. 有易燃易爆物附近。

CAUTION

- Misuse of this product may lead to serious injury or death. To ensure the safety, make sure to read this manual and follow the instructions for assembly and setup carefully.
- Before operating, make sure the product is properly installed, or it may cause serious damage and injury.
- Make sure to disconnect the receiver battery firstly, then turning off the transmitter. If the receiver still been operated after transmitter is off, then it may lead to unintended operation and cause an accident.
- Before operating, ensure that all motors and servos are operated in the correct direction same with the radio transmitter. If not, make sure to trim the direction first.
- 誤用此模型產品可能會導致您或他人嚴重受傷，甚至死亡。為確保您和設備的安全，使用此模型前請務必閱讀說明書，並確保模型產品正確安裝。
- 在開始操作前，請確保所有電機和伺服器均在正確的方向上運行。否則，請先調整電機和伺服器的方向。
- 在開始操作前，請確保所有電機和伺服器均在正確的方向上運行。否則，請先調整電機和伺服器的方向。
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- 在開始操作前，請確保所有電機和伺服器均在正確的方向上運行。否則，請先調整電機和伺服器的方向。

IMPORTANT!

Always turn on the transmitter first, then the receiver. When turning off the system, always turn off the receiver first. The receiver should never be on without the transmitter on. Following this procedure will prevent damage to the servo and/or control surfaces. Or, in the case of electric-powered models, the motor may unexpectedly turn-on causing severe injury.

重要提示！

每次開始系統時，請先開啟發射器，再開啟接收器。關閉時亦相同，先關閉接收器，然後再關閉發射器。遵循此程序可防止損壞舵機和/或控制面。或，在電動模型的情況下，電機可能會意外啟動並造成嚴重傷害。



LOCATE AN APPROPRIATE LOCATION

選擇適當位置及人群

RC 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 flying field. Do not fly your model in inclement weather, such as rain, wind, snow or darkness.

遙控飛機模型飛行具有一定危險性，飛行時應注意環境安全，場地選擇應適當，遠離建築物及高壓電纜等障礙物，並應注意周圍是否有他人、房屋、建築物、高壓電線、樹木等物，並遠離樹木、電力設施等及飛機的不當使用而對他人財產造成損傷，並應選擇合法開放公共飛行的場地，應避免下雨、打雷、冰雹等惡劣天氣下飛行，以確保不造成機體的安全。



PROPER OPERATION

如不當使用本產品

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.

請勿擅自改造機身，任何對飛機造成結構修改，將會對其結構設計中的條件，以及外觀造成安全，該機應在設計範圍內飛行。請勿超載飛行，應在設計範圍內使用適當之負載。該產品僅限於個人娛樂用途，不應用於商業用途，不應用於任何可能對他人造成損害或侵犯他人隱私之用途。應遵守當地法律及法規，不應使用該產品進行任何可能違反他人隱私或侵犯他人知識產權之用途。請勿使用該產品進行任何非法用途或超出安全範圍之用途。



PREVENT MOISTURE

遠離濕氣環境

RC 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, pilot crash. Do not operate or expose to rain or moisture.

遙控飛機內部均包含許多精密的電子電路系統，所以必須保持乾燥且遠離水氣，應避免在雨天時使用，防止水氣進入機身內部而導致機件及電子零件損壞而導致不可逆轉的損壞。



DO NOT FLY ALONE

避免獨自飛行

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.)

遙控飛機前，應確認該飛機與遙控器是否已經正確飛行，因為頻率的干擾會導致遙控飛機失控而對他人及財產造成危險。遙控飛機飛行技巧學習應由有經驗之人士提供，並應在安全環境下飛行，應由經驗之人士在旁指導，才可以獨自飛行。否則可能會造成不可逆轉的損壞發生。(建議應先與經驗之遙控飛機飛行者或電腦模擬飛行器練習飛行技巧)





SAFE OPERATION 安全操作

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.

請在您的能力範圍內使用模型飛機。請勿在感覺不適時飛行，因為不當操作可能會導致危險。飛行時，請不要離開模型飛機，也不要讓模型飛機無人看管。降落後，請立即關閉模型飛機和遙控器。



ALWAYS BE AWARE OF THE ROTATING BLADES 隨時注意轉動零件

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.

遙控飛行器上旋翼／螺旋槳是以高速旋轉，具有造成嚴重傷人或損壞他人財產上之虞。飛行時，請隨時注意轉動零件，並保持面部、眼睛、手部和鬆動衣物遠離旋翼。飛行時，請隨時保持安全距離，以避開您或他人以及周圍物件。



KEEP AWAY FROM HEAT 遠離熱源

RC aircraft are made of various forms of plastics, such as carbon fiber and polycarbonate. Plastics are very susceptible to damage or deformation from extreme heat and cold climates. 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.

遙控飛行器由多種塑膠製成，例如碳纖維和聚碳酸酯。塑膠非常容易受到極端熱和冷氣候的損傷或變形。請確保模型飛機不要靠近任何熱源，例如烤箱或暖氣。最好將模型飛機存放在室內，在溫度可控、室溫環境中。



SAFETY ON THE USE OF DRY CELL BATTERIES 乾電池使用安全

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

The four AA alkaline-cmn batteries included with this product are one time use, they should not be charged for reutilize use. Please read and follow the guidelines below prior to use. The manufacturer cannot be held liable for accidents and damages as result of improper usage.

- Ensure proper polarity and installation method during use.
- Do not mix battery of different age or different model. Doing so may affect battery life, and even cause fire danger.
- If the product is not used for long period of time, please remove the batteries to prevent damaged caused by battery leaks. Do not use batteries which exhibits symptoms of leaks.
- Please follow local law and ordinances when disposing used batteries. Do not dispose them improperly.

如果採用不同型號的電池可能會導致電池爆炸的風險。請依照說明書指示處理廢電池。

本產品附帶4顆AA鹼性電池，它們是單次使用的電池必須依照說明下列事項，本公司概不對此因不當使用所造成之損害負任何責任。

- 安裝與使用時，請依照電池正負極位置及安裝方式。
- 嚴禁將不同型號電池混用，以免影響電池使用壽命，甚至造成電池漏液或燃燒的危險。
- 產品長時間不使用時，請取出電池，以免造成電池電力消耗或電池漏液而損壞主機。若電池已無效應情況，請立即回收處理。
- 廢棄電池，請依照當地環保法規及地區的廢棄物處理方式回收，切勿任意丟棄或進行焚燒。



STANDARD EQUIPMENT

標準配備

ALIGN



A10 Radio Control System
A10遙控器



A8B Receiver
A8B接收機



User Guidance
使用者說明



AA Carbon-zinc Batteries
4
350mAh (預計電流) 2x 4

OPTIONAL EQUIPMENT

選配商品

ALIGN



Upgrade Cable
升級線



Simulator Cable
FMS模擬線

PACKAGE CONTENTS

包裝說明

ALIGN

A10 Radio Control System
A10遙控器

A8B Receiver
A8B接收機

AA Carbon-zinc Batteries
350mAh (預計電流)

User Guidance And Precautions
使用者說明 / 介乎操作型圖表



Quick Finder
零件快速查找



Optional Equipment
選配品

Upgrade Cable
升級線

INTRODUCTION

產品介紹

ALIGN

ALIGN A10 transmitter and A66 receiver is a transmit/receive set can support upto 10 channels, and with 2.4GHz AFHSS 2A digital proportional computerized R/C system which suitable for quadcopters. With AFHSS 2A digital proportional computerized R/C system, anti-interference, low power consumption and high sensitivity receiver.

ALIGN A10 遙控器與 A66 接收機，為針對四軸飛行器而設計，可同時支持 10 個遙控通道，儘管擁有大量遙控通道，AFHSS 系統自動跳頻避免同頻的干擾，它是一個高度精密的遙控系統傳輸系統，這個系統能夠避免同頻的干擾，給予靈敏力強並且高靈敏度 - 2.4GHz 頻帶跳頻自動跳頻系統，高頻及多種飛行設備，具有靈敏的自動跳頻系統，抗干擾，避免同頻及同頻干擾。

SYSTEM FEATURES

系統特點

The AFHSS (Automatic Hopping Frequency Spread Spectrum) offering superior protection against interference while maintaining lower power consumption and high reliable receiver sensitivity. It is considered to be one of the leaders in the RC market today.

AFHSS 自動跳頻系統，是一個高度精密的遙控系統傳輸系統，具有抗干擾，避免同頻及同頻干擾，靈敏的自動跳頻系統。



MULTI-CHANNEL HOPPING FREQUENCY 多頻跳頻工作

This system bandwidth ranges from 2.4050GHz to 2.4750GHz, divided into 160 independent channels, each system using one of 16 different working frequencies and 160 kinds hopping regularly. It initiatives to avoid co-channel interference when power-up and using multi-channel hopping frequency.

此系統工作頻帶範圍為 2.4050GHz 至 2.4750GHz，共分為 160 個獨立頻道，每套系統使用其中不同的 16 個工作頻帶和 160 種跳頻頻率，跳頻系統可避免不同系統使用不同頻帶和跳頻頻率不同，自動跳頻可避免干擾。



OMNI-DIRECTIONAL GAIN ANTENNA 全向增益接收天線

This system uses high-efficiency full-band gain antenna, which widely covers all the frequency band, it can greatly improve the efficiency of the system transmit and receive sensitivity, to enhance the system stability and passive anti-jamming capability.

此系統使用高增益的全向增益接收天線，可大大提高系統接收靈敏度，可大大提高系統接收靈敏度及接收力，從而提高系統的穩定性，並可避免同頻的干擾能力。



UNIQUE ID RECOGNITION SYSTEM 獨立身份識別系統

There is unique identification ID for each remote controller and receiver. After pairing with the receiver, this ID code will be stored in the receiver, when operating the receiver, you will be asked to verify this ID code. If verified failure, it's not activated. It improves and enhances system stability to prevent RF interference.

此系統每個遙控器和接收機具有唯一身份識別 ID，當與接收機進行對頻後，此 ID 碼將存於接收機內，當啟動工作時，接收機將以此 ID 碼，驗證接收機與接收機對頻，此 ID 碼可大大提高系統對頻的穩定能力，並可避免同頻的干擾能力。



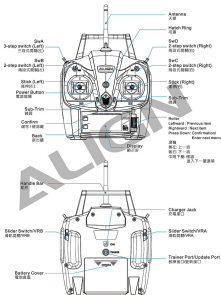
LOW POWER CONSUMPTION 低功耗

The system features with low power consumption, and highly sensitive component, while operating interval data transmission, it can effectively reduce the emission rate, extend battery lifetime, lower power consumption which is 1/10 of Fm.

本系統採用低功耗，高靈敏度元件，同時使用間隔數據傳輸的工作方式，能有效降低發射率，延長電池使用時間，使系統功耗降低，是 FM 的十分之一。

TRANSMITTER INTRODUCTION

遙控器功能介紹



TRANSMITTER ANTENNA 遙控器天線

To ensure quality signal reception the antenna should be vertical the RC model. When operating, careful to avoid pointing an antenna directly at the receiver. DO NOT grip transmitter antenna during operation as this will weaken the quality and intensity of radio transmission resulting in loss of control.

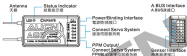
為確保信號接收質量，天線應垂直於遙控模型。操作時，應避免將天線直接對準接收器。切勿在操作時握住遙控器天線，因為這會削弱無線電傳輸的質量和強度，導致失去控制。

RECEIVER OVERVIEW

接收機功能介紹

RECEIVER SETUP INDICATORS

接收機各部位名稱



PPM/CH1 : Connect CH1 servo or PPM output signal. CH2-CH5 : The interface connect servo, power and other accessories.

B.VCC : Using binding wire when binding; using power cord when normal operating, power range is 4.0-5.4V.

A.BUS : For output A.BUS signal.

SENS : For connecting sensor.

PPM/CH1 : 連接CH1通道伺服機或輸出PPM信號。CH2-CH5 : 接口可以連接伺服器、電源線及其他配件。

B.VCC : 綁定時利用綁線；正常操作時利用電源線，供電範圍在4.0-5.4V。

A.BUS : 用於輸出A.BUS信號接收信號。

SENS : 用於連接各種傳感器。

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RECEIVER ANTENNA 接收機天線

To ensure signal reception quality, please make sure to keep electronics governor and other metal parts away when installing receiver.

為確保信號質量，安裝接收機時請盡量遠離電子調速器及其他金屬零件。

STATUS INDICATOR 狀態指示燈

The status indicator shows current battery voltage and work status of the receiver.

LED off : Power disconnected.

Red solid light : Power on and working.

Fast flashing : Binding.

Flashing slowly : The pairing transmitter is off or loss of signal.

狀態指示燈顯示當前電池電壓以及工作狀態。

LED 熄滅 : 電源斷開，接收機未工作。

紅燈常亮 : 接收機已正常啟動，正在正常工作。

快速閃爍 : 接收機正在執行綁定。

慢速閃爍 : 已配對的遙控器不工作，信號被遺失。

GETTING STARTED

使用前準備

ALIGN

Before operating, make sure to follow the instruction to install the battery and connect the system.

使用前準備・請按照說明書安裝電池・連接設備。

TRANSMITTER BATTERY INSTALLATION 遙控器電池安裝

Instruction for battery installation in the transmitter :

1. Open the battery lid.
2. Insert four fully-charged AA batteries. Use caution to ensure proper battery polarity.
3. Put the battery lid back.

遙控器以下步驟安裝遙控器電池：

1. 打開電池蓋面。
2. 將4顆完全充電的3號(AA)電池放入電池室內，確認電池上正負極與電池室內的正負極相符合。
3. 蓋好電池蓋面。



- Battery designated for use only. (AA battery)
- Do not open, disassemble, or attempt to repair the battery.
- Do not crush/puncture the battery, or short the external contacts.
- Do not expose battery in high temperature environment or in liquid.
- Do not drop, crush or shake the battery.
- Always store the battery in a cool, dry place.
- Do not use the battery if it's damaged.
- 僅供指定用途之電池。(3號(AA)電池)
- 請勿打開、拆卸或自行修理電池。
- 請勿擠壓、刺穿或接觸電池的外部觸點。
- 請勿將電池放置於高溫環境或液體中。
- 請勿摔落、擠壓或搖晃電池。
- 請將電池存放在涼爽乾燥處。
- 如果發現電池損壞，請勿再使用。

OPERATION INSTRUCTIONS

操作指引

ALIGN

After finishing installation, please follow the instructions to start set up.

準備完成後，請按照本書指引開始設備安裝。

POWER ON 開機

Instruction for power on :

1. Check the system and make sure :
 - a) The batteries are fully charged and installed properly.
 - b) The receiver is installed correctly and disconnect the power.
 - c) All Switch (ShkA-D) is up and the throttle stick is down.
2. Slide the power button to the ON position. The screen will light, and musical tones are played indicating the radio is powered on.
3. Connect power supply to the receiver.

請按照以下步驟進行開機

1. 檢查系統狀態，確認：
 - a) 電池完全充電且安裝正確。
 - b) 接收機安裝正確且電源已連接。
 - c) 開關ShkA-D全部向上並推桿向下。
2. 按開機按鈕將電源開關滑到ON位置，此時螢幕將亮起，此時系統將播放音樂表示系統已開機。
3. 連接電源線至接收機。



The system is now powered on. Use caution and always maintain a safe distance from the model. Serious injury may result if contact is made with the model during operation.

此時系統已開機，請謹慎操作，並與模型保持安全距離。與正在運作的模型接觸可能會造成嚴重傷害，甚至造成人員傷亡。請謹慎操作，不可與模型發生接觸。

RX BINDING 接收機對頻

The transmitter and receiver are bound before leaving the factory. Please follow the instructions if you use other transmitter and receiver :

1. Turn on transmitter while simultaneously pressing "Confirm" button to enter the bind process.
2. A6B receiver connect with binding key with power, A6B receiver got into process of binding.
3. Connect power supply to other receiver port and binding successfully, then the receiver indicator LED red solid light.
4. Check to see transmitter, receiver, and servos are all working correctly. Please re-start the bind procedure, from the beginning, for any error condition.

本遙控器與接收機在工廠前已對頻完成，如果您要使用其他品牌接收機及遙控機，請依照以下步驟進行對頻：

1. 打開遙控器電源，同時長按住 "Confirm" 鍵（確認鍵），遙控器將自動進入對頻程序。
2. A6B 接收機接上對頻金線後開機，A6B 接收機將自動進入對頻程序。
3. 接收機接滿電源，並對頻成功即可運作，接收機狀態會顯示紅燈常亮。
4. 檢查遙控器、接收機、遙控機是否正常工作，如有異常，請從以上步驟重新對頻。

PRE-CHECK 操作前檢查

Before operating, please follow the instructions to check the system:

1. Check to confirm all systems are performing as expected.
2. Check reception distance for safety; the model is on the ground while one pilot observes the model. The pilot, just while holding the transmitter, walks away, increasing the distance of the transmitter from the model. Check the RC model status and mark the distance from where the model starts to lose control.

開始操作前，請依照以下步驟檢查系統狀態：

1. 檢查整個系統，確保每個組件均正常運作方式即可運作。
2. 按照如下方法檢查安全距離——一名操作者手持遙控器，另一操作者將遙控機放置在遠處，檢查遙控機狀態，記錄遙控機失去控制距離。

⚠️ CAUTION ⚠️

● When checking reception distance for safety, in order to avoid turning on the transmitter accidentally and causing RC model's blades rotated, suggested not equip blades on helicopter in advance; or directly remove the motor wiring temporarily reducing any unnecessary accident.

● Stop operating for any error condition.

● Make sure to operate the model within the safety receiving distance.

● Other signal interference may affect signal quality.

● 於檢查接收距離時，為了避免誤開遙控器造成遙控模型螺旋槳旋轉，建議勿先將螺旋槳裝設機身上，或直接將機身上的馬達線暫時移除可減少不必要危險及發生。

● 有故障時，若無異常狀況出現，請不要操作遙控模型。

● 操作時，務必確保遙控模型在安全接收距離。

● 周圍干擾訊號可能會影響訊號品質。

USB SIMULATOR MODE USB模擬器練習

Simulator function can simulate aircraft flight conditions on computer until familiar with the operation and then fly the real model.

1. Download FMS Simulator.
2. Open the FMS Simulator and connect transmitter and computer by USB.

模擬器功能可於電腦上模擬遙控模型的飛行狀況，直到熟悉操作方式後再飛真模型的機型。

1. 請向下載FMS模擬器。
2. 在電腦上開啓FMS模擬器，並將遙控器透過FMS模擬線連接到電腦上。



Scan QR CODE and read the detail information for A10 Transmitter FMS Simulator Installation and Instruction.

FMS的FMS模擬程式安裝請到A10遙控器說明書下載
請掃描QR CODE查詢可協助的教學步驟，請到教學步驟完成設定後，再開始飛行。



FMS Simulator Cable is optional accessory and not included in A10 Transmitter package. Allow to purchase [HEP00002] FMS Simulator Cable and 4P Mini-DIN adopter (Female connector) for system connection.

A10遙控器內無附“FMS模擬線”，若您需要使用FMS飛行模擬器模式時，請自行另購適用於FMS模擬器、電線 [HEP00002] FMS模擬線，再配合自行另購的4P Mini-DIN母頭連接線，即可使用FMS飛行模擬模式模擬練習。

POWER OFF 關機

Follow the instruction to turn off the system :

1. Disconnect the receiver power.
2. Turn off the transmitter .

請依照以下步驟進行關機。

1. 關閉接收機電源。
2. 關閉遙控器電源。

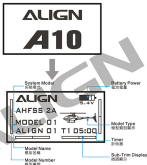


Make sure to turn off the receiver power firstly, then turn off the transmitter to prevent any damage or serious injury.

關機時，請務必先關閉接收機電源，再關閉遙控器，否則可能造成遙控器損壞或造成人員受傷。

After power on, A10 transmitter displays the Home Page with valuable information including: model name and number, timer, connection, battery power, etc.

點亮電源後，A10 遙控器顯示主畫面，包括：模型名稱及編號、計時器、連線、電池電力、等等。



For safety, all switches must be up (turned away), and the throttle is in the off position (lower throttle stick) before transmitter will turn on. If any switch or the throttle is in the incorrect position a warning sound is played and notice is displayed.

為確保安全，所有開關必須向上（轉開），且油門桿必須在下（油門桿下）位置，遙控器才會啟動。如果任何開關或油門桿不在正確位置，警告聲會響起，並會顯示警告訊息。

!! WARNING !!

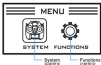
FOR YOUR SAFETY,
TURN UP ALL
SWITCHES AND
LOWER THE THROTTLE
TO CONTINUE

MENU PAGE

選單畫面介紹

The "Home Page" shows useful information about the model including, hold down roller to enter the "Menu"; model name and number, timer, connection TX/RX status, etc.

選單畫面顯示包含：模型名稱及編號、時間、連接 TX/RX 狀態等資訊。按壓下滾輪進入選單 - 功能設定畫面。



SYSTEM

系統設定

Hold down roller to enter the "Menu", use the roller to scroll right or left to select menu function, press roller to enter menu function.

按壓下滾輪進入選單畫面，使用滾輪左右移動選擇功能，按壓下滾輪進入功能設定畫面。



確認 確定

After adjusting each parameter of radio, you have to press "Confirm" button to save the setting. Failure to press "Confirm" will result in the new setting not being saved.

調整無線電每一功能參數時，必須按"Confirm" 儲存/確認鍵，若沒有按會儲存，否則設定值不會改變。

MODEL SELECT 模型選擇

Selected model: 20 different models with specific custom parameters can be saved in the transmitter allowing you to copy or instantly choose one of the other 20 models.

選擇模型用於記憶 20 種不同類型及參數的飛機模型，使用模型號碼，記憶不同模型。

