Multifunctional Drone

ALIGN

INSTRUCTION MANUAL 使用說明書

[RM46005XT]







Thank you for purchasing Align products.

Please read the manual carefully before installing and be sure to retain the manual for future reference. All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement. Specifications, contents of parts and availability are subject to change, ALIGN RC is not responsible for inadvertent errors in this publications.

承蒙閣下選用亞拓遙控世界系列產品,謹表謝意。

使用前,請務必詳轉本說明書,相信一定能夠給您帶來相當大的幫助,也請您妥善保管這本說明書,以做為日後參考公司將不對此即開物之幫動員實,也無法主動選別消費者任何更新或資助。所有圖片權用於展示目的。 可能因改良而有些不同。本股明書內認能的材質、規格或零件包裝之內容物如有異動。請依亞內管網公告為主。

!!Remind!! 提醒

ALIGN

自行拆改裝 保固失效 The warranty could invalid if modified

Dear customer:

For your consumer rights, please do not disassemble or modify the products sold by our company. If there is any unauthorized disassembly or modification, the product warranty and warranty liability will be invalid immediately! Hereby declare!

敬愛的客戶:

為了您的消費權益,本公司所售出之產品請勿自行拆裝、改裝,如果有任何私自拆改 裝,產品的保修、保固責任即刻失效! 特此聲明!

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INTRODUCTION. 前言



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 warrenty and cannot be returned for repair or replacement. Plore secondary or produced to under the produced or replacement. Proplement 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 mullicopters and its components are precision electronics susceptible to interferences from external forces such as magnetic field and radio signal. Should the multilopter 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.

選控用。 / 横四括基控直耳機與多輪無人機(以下頭兩邊控無人機)並非規具,它是結合了許多高科技者品所設計出來的 水湖用品,所以商品的使用不需求不熟悉的可能會這類要更得言為至次一,使用。即壽務於非本海與用事。必是認並注 更自身女章。 / 注意 | 任何實好用,於例如用,對面面和原向直接無對使用有係。等代理和的蘋果不到根本不對不 之 是外負任何責任,本產品是提供的資格性過去作為人與對的效人或有相違效的的人與任何傳導,並於對於否式。基礎 系行場級所。以解釋女主繼度,解釋使用,產品也要公司所有任何操作的因用發射。配付中稅服與交量性

通控無人機關於需高操作技術且為消耗性之商品、刘恒斯裝使用後,將造成不等情況零件損耗,任何使用情況所造成商 及以不屬。將無法近後個條件內里提新包成夏波、刘遵有使用於指維持國達。本公司全會公公司或代達商網提供 技術指導、持續等件供應級的。對使用各仍不當使用、設定、組裝、信飲、或提介不反析造成的假或属語。本公司 法控制及負責。且基控無人機與私件之將改革子產面、蒸受外力、鐵、訊號干燥。在使用過程中如外力、鐵場、訊號 干擾。發展所人機學等。及其格型之類影響。基於乙繼與或減失了本公司亦派法部別負責。

做為本產品的使用者,您,是唯一對於您自己操作的環境及行為負全部的責任之人。

IMPORTANT NOTES 重要聲明

Prior to obtaining the valid flight license (training certification) in accordance with the local regulations of the country, engaging in actual arcraft operation is strictly prohibited. Please comply with the relevant laws and administrative procedures of the country to acquire the lawful flight license (training certification). Individuals lacking profiler flight handling experience are strictly prohibited from operating flights.

在尚未通過考取該國法規之合格飛行執照(訓練合格證)前,嚴禁實機飛行。請依循該國相關法規及管理辦法, 通過考取合法之飛行執照(訓練合格證),嚴禁無熟練爆控飛行經驗者爆控飛行。

標誌代表涵義

/ 注意



S FORBIDDEN 禁止	Do not attempt under any circumstances. 在任何禁止的環境下。請勿嘗試操作。
WARNING 警告	Mishandling due to failure to follow these instructions may result WARNING 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。
A CAUTION	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 安全注意事項



- Fly only in safe areas, away from other people. Do not operate R/C aircraft indoors or within the vicinity of homes or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including: lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or intury occurring during the operation or as of a result of R/C aircraft models.
- Prior to every flight, carefully check all parts such as blades, screws, frame, arms, etc; ensure they are firmly secured and show no unusual wears, or unforeseen danger may happen.
- 遙控無人機屬高危險性商品,飛行時務必遠離人群,禁止於室內飛行。人為組裝不當或未定期檢修造成的機件指導、電子控制設備不良,以及操控上的不熟悉、都有可能導致飛行失控損傷等不可預期的意外,請飛行者務心主無代行安全,並寫了解自負務所遺成任何意外之責任。
- 每趙飛行前須仔細檢查機身各部位之零/配件/電子設備之性能是否正常,及無損耗老化現象,並確實將螺絲鎖繁才能升空飛行。並做好定期檢修,避免零件或電子產品異常所造成不可預期意外。
- 遙控無人機屬高危險性商品,飛行時務必遠離人群,禁止於室內飛行。人為組裝不當或未定期檢修造成的機件拍壞。電子控制設備不良,以及操控上的不熟悉、都有可能轉致飛行失控機傷等不可預期的意外,請飛行者務心非無行安全,並遲了解白色蒸奶活面任何官及之首任。
- 每趙飛行前須仔細檢查機身各部位之零/配件/電子設備之性能是否正常,及無損耗老化現象,並確實將螺絲鎖緊才能升空飛行。並做好定期檢修,避免零件或電子產品異常所造成不可預期意外。



LOCATE AN APPROPRIATE LOCATION 遠離障礙物及人群

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



FORBIDDEN

NOTE ON LITHIUM POLYMER BATTERIES 經聚電池注意事值

- · Be sure to unplug the battery when storing the helicopter after completing operations, otherwise it may cause damage to the battery due to over-discharge or unexpected accidents such as fire.
- Lithium batteries are dangerous and flammable items. When charging the battery, the operator is strictly prohibited from leaving and staying away from flammable items. Otherwise, the operator will be responsible for all losses caused by any accidents caused.
- ·無人機作業完畢後收藏時一定要拔除電池,否則可能導致電池過放的損壞或起火燃燒,導致不可預期的意外發生。
- · 鋰電池屬危險易燃物品,充電過程中,務必遠離易燃環境及物品,並確保在可視範圍內進行操作。嚴禁!操作人員 整關,否則篡執的任何意外,操作者聽自自所有告故的福失責任。

Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/Ni-MH batteries commonly used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of Li-Po batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries.

經聚電池跟一般在RC使用的鹼性電池、線鏡電池、線鏡電池比較起來是相對危險的。請嚴格遵守建聚電池說明書之使用注意事項。不恰當使用建聚電池,可能造成火災並屬及生命財產安全,切勿大意!









PROPER OPERATION 勿不當使用本產品

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 purposes which may violate others personal privacy, and respect other s intellectual properties. Do not use this product for filed all purposes or beyond the bonds of common safety.



MARNING 響告

DO NOT FLY ALONE 避免獨自操控

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, turning, trimming, and actual first light or unforeseen danger may happen. (Recommend you to practice with experienced pilots or with computer-based flight simulator firstly.)







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.

請於自己能力內及需要一定技術範圍內操作這台遙控無人機,過於疲勞、精神不住 或不當操作,意外發生風燒描可能會提高。不可在視線範圍外飛行,降落後也請馬 上關並遙停無人機和遙突線電源。







ALWAYS BE AWARE OF THE ROTATING BLADES 演辦運轉中零件

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

遙控無人機主旋翼/螺旋樂運轉時會以高轉速下進行,在高轉速下的主旋翼 /螺旋樂會造成自己與他人在身體上或環境上的嚴重損傷,請勿觸摸運轉中 的主旋翼/螺旋樂,並保持安全距離以激發亮或危險及損壞。



MODEL STANDARD EQUIPMENT DIFFERENCE 標準配備版本說明 AUGN

Quick Finder 雲件快速騰



The M460 includes additional electronics and other equipment. The Instruction Manual will refer to the The M460TOP. You may purchase any additional items or spare parts referenced in the instruction manual.

M460空拍任務無人機系列商品,除標準配備會因您購買的版本而有些微不同,在細裝、 設定上都是一致的,你也可依照書面上的商品資訊來增添其他灌購商品。



Aerial Photography Mission Drone

M460TOP空拍任務無人機 x1

[HBP10008]

Intelligent Flight Battery 10000mAh 智能電池x1

煙淮配備



Ground Station Transmitter Transmitter Charger 地面航巡控器組 x 1 巡控器充電器 x 1

Charger Cable 充電器電源線 x1

UP7 Intelligent Battery Charger UP7 智能快充充電器 x1 Intelligent Battery Charger Cable

智能電池充電線 x2 The SD card provided with the Align drone is

given free of charge. It is a consumable item and is not covered by the warranty. If it is damaged due to wear or other factors during use, please ourchase a replacement by yourself 2拍無人機所強附的SD卡是免費器途・羅消耗品 不在保因影響内,使用期間如有磨損或其他因素 事数的損壞,請自行購買更換。

Optimal Equipment 課配

Ground Station Transmitter 地面站巡控器組 Transmitter Charger 遙控器充電器

32G Memory Card

32G 記憶卡 x1

Optiinal Equipment 彈配

Intelligent Flight Battery 6000mAh 解能雷池



IHBP60003 1

IRM46005XT1 [HEC00009T]

PACKAGE CONTENTS 包裝說明

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M460 body structure is already assembled in factory. Just need to twist off screws and adjust tube to proper position and locked well. and then install the canopy on the body firmly, ensure it will not detach during flight.

M460出廠時機身結構已組裝完成 ,僅需將調整軸管調整至適當位 置後鎖緊即可。

UP7 Intelligent fast charge charger UP7智能快充充電器

G3P 4K 3 axis Gimbal system

G3P 4K 三軸雲台相機組

Mission Drone M460TOP空拍任務無人機

ABS Carry Box ABS手提箱

G3P 4K 3 AXIS GIMBAL SYSTEM ASSEMBLY DISASSEMBLY AND STORAGE G3P 4K 三軸雲台相機組 組裝、拆卸與存放

PREPARATION 準備工作

- When you're preparing to assemble or disassemble a tripod head camera, it's important to do so on a stable work surface.
- This helps reduce the risk of accidental damage and ensures smooth and efficient operation.
- Additionally, it's important to properly store camera components and accessories to prevent them from being contaminated by dust or other debris, thus extending their lifespan.
- 常你准備組裝或拆卸雪台相機組除,需要在穩固的工作區域/工作台上操作。
- 2. 演樣可以條任實外指懷的風險,同時也有助於確保工作進行順利日高效。
- 另外,妥善存放相機部件和配件也很重要,可以避免它們被灰廳或其他污垢污染,延長其使用壽命。

CAUTION

IThe G3P gimbal mounted on the TOP version is designed for specific configurations. Both the DV and the mainboard have matching serial numbers etched onto them. Please do not mix and match the gimbal with different serial numbered mounting brackets (chassis), as this can result in issues such as lens misallanment after activation.

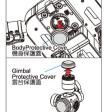
If you need to switch the gimbal between bodies, ensure that the mounting bracket on the body is paired with the gimbal as a complete set.

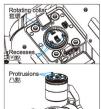
TOP版掛載的G3P雲台都是配組使用,DV與上主板固定座均刻有配對編號,請勿將鏡頭與不同編號雲台固定座(機體)混搭使用,會有鏡頭啓動後歪斜等問題。

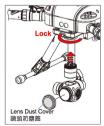
如果雲台要調換機身使用,機體上的雲台固定座要跟著雲台一起配組使用。

ASSEMBLY STEPS 組裝步驟

- 1. Remove the body protective cover and the GIMBAL protective cover.
- Align the three protrusions on the top of the camera with the corresponding recesses on the tripod head base, and insert them into place.
- 3. Rotate the locking ring clockwise to secure the camera to the tripod head.
- 4. Before operating, remove the lens dust cover.
- 1. 先取下機身保護蓋、及雲台保護蓋。
- 終相機上方三個凸點位置,對齊雲台座的凹點,並嵌入安裝位置。
- 3.順時針方向旋轉套環鎖附以固定雲台。
- 4.作業前,將鏡頭防塵蓋拆下。







G3P 4K 3 AXIS GIMBAL SYSTEM ASSEMBLY DISASSEMBLY AND STORAGE G3P 4K 三軸雲台相機組 組裝、拆卸與存放

DISASSEMBLY STEPS 拆卸步驟

- Place the lens dust cover back on
- Rotate the lens mount counterclockwise and release the camera.
- Replace the body protective cove.
- Remove the camera and place it inside the handbag for protection.
- 1. 將總頭防靡業業 上。
- 2. 逆時針方向旋轉套環,鬆開並取下相機。
- 3. 蒸回機身保護蓋。
- 4. 蒌回雪台保護蒌,將相機放置於手提包。







PROTECTION AND STORAGE 保護及存放

- If not used for an extended period, regularly inspect the condition of the camera and tripod and maintain cleanliness and protection.
- Ensure the camera and tripod are clean, free from dust or dirt.
- Avoid storing the camera and tripod in damp areas to prevent damage.
 Place them in a dry, well-ventilated area, away from direct sunlight and extreme temperature changes.
- 若長時間不使用,應定期檢查相機和雲台的狀況,並保持清潔和保護。
- 2. 確保相機和雲台都清潔乾淨,沒有灰塵或污垢。
- 3. 避免將相機和雲台存放在潮濕的地方,以防止損壞。
- 4. 放置在乾燥、通風良好的地方,遠離直射陽光和極端溫度變化的地方。

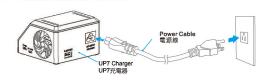


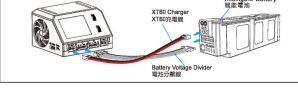


Before using the drone or flying for the first time, the power battery should be fully charged. Please use the standard charger to connect the intelligen battery.

10000mAh intelligent battery fully charged time: about 1 hour.

首次使用無人機及飛行前,應先將動力電池充滿電,請使用標配充電器連接智能電池。 1000mAh智能電池完全充滿電時間:約1個小時。

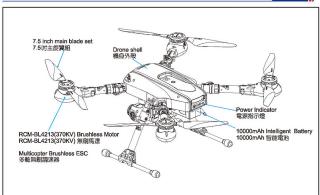




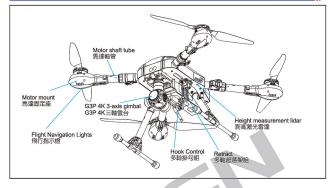
DRONE COMPONENT LOCATIONS 無人機組件位置



Intelligent Battery

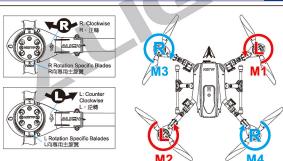






MOTOR ROTATION DIRECTION 馬達正逆轉方向

ALIGN //



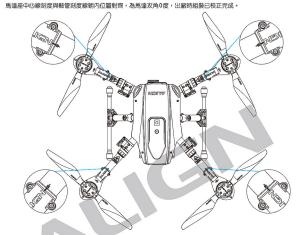
CAUTION

Identify the direction identifier on each motor mounts: R (clockwise) rotation motor must match R rotation blades; L (counter-clockwise) rotation motor must match L rotation blades in concret sequence of motor tube assembly or changes made to rotation ald directions of motor I blades may cause immediate flip-over on takeoff, and result in unforeseen dancerous situation.

馬達固定座上所標示的正、逆轉方向符號:R向馬達組必須搭配R向主旋翼:L向馬達組必須搭配L向主旋翼。 馬達軸管順序組裝錯談或自行更改馬達、主旋翼R/L轉向,將會造成機體升空後翻滾、撞毀,嚴重的將導致不可預期的歲外發生。

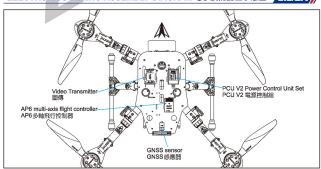


The center line scale of the motor base is aligned with the shaft tube scale line inward, which is the motor attack angle of 0 degrees. The assembly has been corrected before leaving the factory.



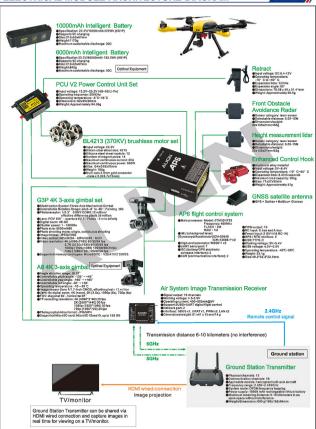
ELECTRONICS WIRING ASSEMBLY DIAGRAM 電子設備配置示意圖

ALIGN //

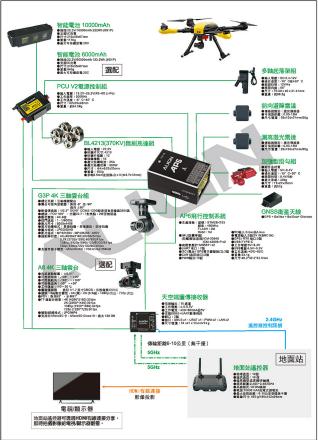


M460 TOP AERIAL PHOTOGRAPHY / MISSION DRONE ELECTRICAL MODULE ARCHITECTURE DIAGRAM



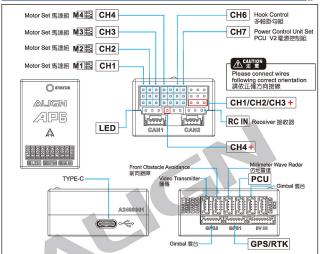




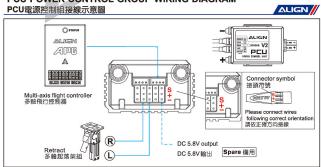


AP6 MULTI-AXIS FLIGHT CONTROLLER WIRING DIAGRAM AP6多軸飛行控制器接線示意圖





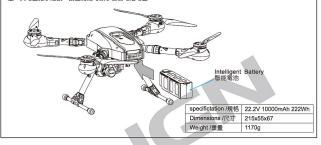
PCU POWER CONTROL GROUP WIRING DIAGRAM



INTELLIGENT BATTERY INSTALLATION DIAGRAM 智能電池安装示意圖 🛕 👢

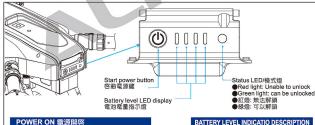
Brand new 10000mAh high-efficiency intelligent battery, exquisite appearance, one-piece quick-release slide rail design, which can easily replace the battery. The battery board is equipped with a new "anti-spark" patented design, which can effectively prevent sparks generated when the battery is quickly removed and inserted, reducing damage to electronic equipment and the problem of joint wear and poor contact. Equipped with battery indicator light, press the switch to display the current battery level.

全新10000mAh高效能智能電池,精緻外觀、一體成型快振式滑動設計,能簡易輕鬆抽換電池。電池板内搭載新 型"防火花"惠利股計,能有效防止電池快拆插入時所產生的火花,降低電子股備傷寒及接頭耗損接觸不良問 題。具電量指示燈號,按壓開關可顯示目前電池電量。



INTELLIGENT POWER CONTROL SYSTEM 智慧型電源控制系統

ALIGN //



Battery level check: Momentary press of power button to check remaining power.

Power On: Press and hold power button for 3 seconds until battery indicator LEDs light up and Status LEDs flash.

Power Off: Press and hold power button for 3 seconds until all LEDs shut off.

檢查電量:短按電源鍵檢視剩餘電量。

開啓電源:長按電源鍵3秒,電池電量指示燈亮起與模式燈閃

即完成開機動作 關閉雷源:長按電源鍵3秒,所有熔號熄滅,則完成關機動作。

池電量指示燈說明

電池燈號顯示	電量顯示
	75%~100%
	50%~75%
	25%~50%
	0%~25%



FLIGHT MODE STATUS LIGHT ICON ILLUSTRATION 飛行模式狀態燈號圖示說明





COLLAPSIBLE MOTORARMS 馬達軸管收納示意圖

ALIGN /

The quick-release design allows you to quickly fold the motor shaft tube without tools. The shaft tube folds inward, which can reduce the carrying volume and make storage and carrying more convenient. The low-noise, low-wind resistance, highstrength industrial-grade fiber composite plastic main rotor provides high efficiency and increases light time. The foldable main torol also increases portability.

and increases flight time. The foldable main rotor also increases portability.

克工具統可快速收折馬達軸管的快拆設計,軸管向內收折,可減升攜帶體積,讓收納蓋帶便便利。低嚴管、促風阳、高級度工業級纖維複合避土旋翼,提供高效率且增長形行時間,主避實可放拆設計,也增加蔣帶的方便性。



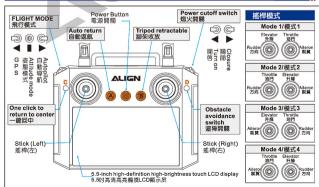
When folding the motor shaft tube or retracting the tripod legs, please pay attention to safety and avoid getting your hands caught.

收折馬達軸管或收放腳架時,務必注意操作安全,避免來傷手。



GROUND STATION TRANSMITTER FUNCTION 地面站遙控器功能

ALIGN //



AP3 SOFTWARE DOWNLOAD AND INSTALLATION AP3 下載安裝 ALIGN

Multicopter Flight Controller is flashed with the latest firmware version in factory. Visit Align at www.align.com.tw for more news and firmware updates.

Please scan QR Code for link to ALIGN website.

多軸飛行控制器,在出廠前已是最新版本,請安心使用。您也可以連 結至亞拓緬站查詢,隨時更新亞拓發佈的最新版本及各項最新訊息。 請掃描QR Code連結亞拓網站下載相關軟體。

AP3/AP6 utilize ArduPilot's open-source flight controller firmware, which can be found on Align GitHub page.

The AP3 flight control system Disclaimer is displayed when the APP is launched for the first time. Please, read Alian AP3 flight control system Agreement in it's entirety.

首次使用AP3 飛行控制系統,請詳讚発責聲明内容: 一旦下載、安裝或使用AP3飛行控制系統軟體或其中 任何部分,即表示費用戶商意遵守各項條款與細則。

ALIGN

When first using the system, you need to create a user account and password to protect user information. In the future, by entering the correct account (6 alphanumeric characters) and password (8 alphanumeric characters), you can successfully log in and use the system. 首次使用時,需創建使用者帳戶及密碼,以保護用戶資訊。 日炎,輸入正確的帳戶(英文或數字6位數)、及密碼(英文或數字8位數), 成功普入後即可便用。



Λ LICN

ALIGN MA WENGE

2.SELECT MODE 無人機機型

The used mode "Multicopter"

Press "Enter Ground Station" to enter ground station interface directly. Please make sure the Multicopter has been connected correctly

贴選(進入地面站介面)將直接進入地面站頁面。請確定已經正確連接飛行機。

GROUND STATION BASIC INTRODUCTION

地面站基本資訊介紹

ALIGN //



GROUND STATION BASIC INTRODUCTION

地面站基本資訊介紹







level 1~8X. Switch between photo/video, start/stop recording. capture screenshot while recording, and Camera Settings.

Camera mode options: Stabilization (anti-shake) on/off, zoom 相機模式可選擇:增穩(電子防抖)開終/關閉、放大倍率1~8倍。 拍照/錄影切換、錄影/停止、錄影截圖、以及相機設定。

When the Electronic Stabilization function is turned off, you can use the zoom-in feature. 當增穩(電子防抖)功能關閉時,才可使用放大畫面

ACAUTION 注 策

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GENERAL SETTINGS 常用設置

Click "General settings" then you can start set up:

flight controller parameter settings, transmitter settings, video transmitter settings, GPS satellite, magnetometer calibration, aircraft status information, RTK settings, intelligent battery settings, and general settings.

(常用設置)可關格飛控參數設置、遙控器設置、磁力計校 下、飛行機狀態資訊、RTK設置、智能震池設置、通用設置。



1. FLIGHT CONTROLLER SETTINGS 飛控參數設置

A) AUTOMATIC RETRACTION SWITCH 自動收約開闢

Turn on the automatic foot retracting function: when the drone takes off and rises to 5M, the system will automatically retract the tripod. When the drone lands at 4M during flight, the system will automatically lower the tripod.

Turn off the automatic function and switch to manual control of the tripod retracting and retracting function.

開客自動收腳功能:無人機起飛上升至5M時,系統會自動收 啓腳架、飛行中降落至4M時,系統會自動放下腳架。

關閉自動功能,切換為手動控制收放腳架功能。

B)BASIC SETTINGS 基礎設置

Set automatic return altitude, return speed, flight speed, ascent speed, etc.

設定自動返航高度、返航速度、飛行速度、上升速度...

2. REMOTE CONTROL SETTINGS 遙控器設置

Displays the channel displays 顯示目前頻道。

3. MAGNETOMETER CALIBRATION 磁力計校正

Calibration must be perform whenever one of the following condition occurs:

- The initial install of Modules.
- Changes to the GPS module.
- Additions or removal to electronic equipment near the magnetometer (Servos, ESC, etc).
- When flying location differs from last compass calibration position by 300KM or more.s

在以下情況,必須做磁力計的校正:

- 第一次安裝多軸飛行控制器時。
- 更換或移動GPS感應器時。
- 增加或減少磁力計附近的電子裝置(伺服器、電子變速器等)時。
- 當變更飛行場地,位於上一次做磁力計校正動作的位置,兩地相 區距離300公里以上時,請必須重新校正一次。

Business Bus

4.AIRCRAFT FLYING INFORMATION 飛行機狀態資訊

Display Flight Time, Flight Mode, Flight Speed, Distance from HOME, Flight Altitude, Voltage, Currency, GPS Signal, Number of Satellites, and so on.

顯示飛行時間、飛行模式、飛行速度、HOME點距離、飛行高度、電壓、電流、訊號強度、衛星數量.....等相關資訊。





RTKERS

5.RTK SETTINGS RTK設置

Turn on the RTK positioning of the aircraft, display the longitude, latitude, altitude, heading angle; and GPS, Beidou, GLONASS, Galileo star number... and other related information.

開啓飛行器RTK定位,顯示經度、緯度、海拔、航向角:以及 GPS、北斗、格洛納斯、伽利將星數.....等相關資訊。

6.NTELLIGENT BATTERY SETTINGS 智能電池設置

- a) Set low battery alarm and severe low battery alarm.
- b) Battery protection function
 - (1) When the battery power is low, the system voice will prompt Battery power is low, please return as soon as possible to replace the battery." In this case, please return as soon as possible to replace the battery (2) When the battery reaches 20%, the system voice will prompt "Battery voitage is too low, perform return". At this time,
 - the drone will automatically return to the home point and land on its own. Please replace the battery.

 (3) When the battery reaches 8%, the voice will prompt "The battery voltage is seriously low, please land immediately to
 - (3) when the battery reaches 8%, the voice will prompt "The battery voltage is seriously low, please land immediately to replace the battery." At this time, the drone will land at the current location to avoid crashing due to too low battery."

a) 設置低電量警報、及嚴重低電量警報。

b) 電池保護功能

- (1) 當電池電量低,系統語音會提示「電池電量低,請盡速返航更換電池」,此時請盡速返航更換電池。
- (2) 當電量到達20%時,系統語音會提示「電池電壓過低,執行返 航」,此時無人機會執行自動返航回到home點上方後自行降 落,請更換電池。
- (3)當電量達到8%時,語音會提示「電池電壓嚴重過低,請立即 降落更換電池」,此時無人機會降落在當時地點,以避免因為 電量太低而揮機。



7. GENERAL SETTINGS 通用設置

- a) Select voice prompt on/off.
- b) Motor detection:
- a) 漢擇語音提示開終/關閉。
- b) 馬達檢測:

MOTOR DETECTION 馬達檢測

When using this function, the motors M1, M4, M2, and M3 will slowly rotate clockwise for about 3 seconds. During the test, be sure to carefully check whether the steering of each motor is normal. Wrong steering will cause an accidental rollover during takeoff. The rotor rotation process is dangerous. When inspecting, please first confirm that there are no debris around the multi-axis machine, and people should stay away from the main rotor rotation rance to avoid danger.

使用此功能時,馬達會順時針方向 M1、M4、M2、M3依序慢速轉動約 3秒,測試時務处仔細檢視各馬達轉向是否正常,錯誤的轉向將導致起飛 時翻機意外,馬達主旋翼轉動過程有危險性,檢測時請先確認多軸機旁 無難物,並日人麥豬期主旋翼轉動亂層,以妥發生危擠。

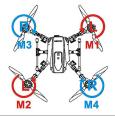
A WARNING 警告

When testing, please confirm that the motor rotates in sequence from M1, M4, M2, M3 clockwise. Please check whether the rotation direction printed on the motor base is correct. If it is incorrect, please do not fiv.

檢測時,請確認馬達由順時針方向 M1、M4、M2、M3 依序轉動,請核對是否與馬達座印刷轉動方向正確,如果不

正確, 諸勿飛行。







AP3 OFFER TWO KINDS OF MISSION PLANNER AP3具備兩種任務規劃方式



1.REMOTE TARGET ROUTE PLANNER

Use multi-point path coordinates to fly to designate location. The flight height, flight speed and flight modes can be set up on every point path (max, 200 waypoints).

Basic Setup: flight height, flight speed and flight mode. .etc. After setup, press "Upload data to flight controller".

Advanced Setup: sub-trim based on personal usage habits. It's set up to optimization in factory, basic works can be skip.

利用多點式路徑點座標,執行命令飛至指定的目的地,每個路徑點可設定飛

行高度、速度,最多可設定200個路徑點。 基本設置:飛行高度、飛行速度等、設定完成後、按〔數據上傳至飛控〕。

進階設置:為個人使用習慣微調,出廠時已調至最佳化,一般作業可省略不 無約定。





2. REGIONAL ROUTE PLANNER

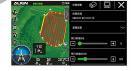
Select the desired area on the map at the ground station where the flight mission is to be conducted. The system will automatically plan based on the selected area, allowing for up to 200 waypoints to be set. It will compute a flight path covering the entire area. You can adjust the direction angle of the flight path, the altitude of the waypoints, spacing between them.

Basic settings such as flight altitude and speed need to be configured. Once set, click 'Upload Data to Flight Controller.'

Advanced settings are available for fine-tuning according to individual preferences but are factory optimized for general use and can be skipped for regular operations

於地面站的地圖上點選所要執行飛行任務的範圍。由系統依點選的區域自動 規劃,最多可設定200個路徑點,運算出涵蓋整個範圍面積的飛行路徑。可 調整移動飛行路徑方向的角度、飛行路徑點的高度、間距。

基本設置:飛行高度、飛行速度等,設定完成後,按〔數據上傳至飛控〕。 進階設置:為個人使用習慣微調,出廠時已調至最佳化,一般作業可省略不





需設定。

IFLIGHT RECORD 一般行記網

Flight record can auto record every mission status in bar type display, simultaneously accumulate flight time, or re-calculate the record. If there are lots of records, it can enter key words to narrow down search range to find out the record information rapidly and precisely.

飛行記錄可自動記錄每趙任務的執行狀況,條列式展出,同時可累計飛行 時間,或將其記錄歸零重新計算。

當有名筆記錄時,亦可輸入關鍵字緒小搜尋範圍,快速精進的尋找該筆飛 行資料。



SINGAL MISSION DETAILS

Each flight mission can be saved in detail:

mission content, working power energy, contact information, next working reminder...etc. Simultaneously record voltage line chart, photos, and export.

可詳細記錄每筆飛行記錄,同時記錄電壓折線圈,作為統計分析及參考數據。



	2023-02-02	10:01:02	_
低热名册	22023-02-02 10:01:02	Riths	06:11 _{Min}
RIDEN	2023-02-02	R行距離	282.46 M
路径突線	2 N		
海拉事項			
電影折拾器	RESE	fit is	Bits



EXAM MODE 考場模式

Exam mode: You can choose the area of the exam area as 20Mx20M or 20Mx40M for flight practice.

考場模式:可選擇考場範圍為20Mx20M、或20Mx40M,做為考 照飛行練習。



MAP MODE 地圖模式

Different map versions, ways of finding north, positioning modes can be choosed:

Map Version: Earth Mode, Maps Mode, Mix Mode. Finding North: Maps Direction, Directioons North.

Locating Mode: Aircraft Positioning, Maps Posit.

地圖模式可選擇地型顯示方式、指向回北、定位模式。 地型顯示選項:衛星模式、地圖模式、混合模式切換。 指向回北選項:地圖方向、地圖回北切換。

定位模式選項:多軸機定位置中、地圖定位置中。

Switch screens by clicking the picture-in-picture on the bottom right for Camera Mode or Map Mode. 點擊右下方子母畫面,可切換主畫面為相機模式或地圖模式。

CAMERA MODE 相機模式

Camera mode options: Stabilization (anti-shake) on/off, zoom level 1~8X. Switch between photo/video, start/stop recording, capture screenshot while recording, and Camera Settings.

相機模式可選擇:增穩(電子防抖)開啓/關閉、放大倍率1~8倍 拍照/錄影切換、錄影/停止、錄影截圖、以及相機設定。

When the stabilization (Electronic Image Stabilization) function is ulmed off, you can zoom in on the image. When ending the zoom, re-enabling EIS will restore the image to its original 1x magnification. 當增權(電子防抖)功能關閉時,才可使用放大畫面。 結束放大便率,重新關係EIS,影像會恢復1倍書面。

Photo/Video mode switching: Switches the camera between photo mode and video mode.

Screenshot of Record: When the button is pressed, the camera captures the current image or scene.

Camera Settings: Allows for settings such as ISO sensitivity, EV (Exposure Value), white balance, and sharpness. Also includes options for selecting photo resolution and quality, continuous shooting, interval shooting, photo format, returning image resolution, metering mode, light source frequency, etc.

●拍照/級影切換:切換相機為拍照模式或級影模式。

傳影像分辨率、測光模式、光源頻率....等。

●錄影截圖:當按下按鍵時,相機會捕捉當下的影像或場景。

●相機設定:可設定ISO感光度、EV曝光值、白平衡、鏡利度。 選擇照片解析和品質、連拍、定時拍照、拍照格式…。以及回



- Magnification 放大倍率1X~8X

Electronic Stabilization 増穣(電子的抖) Red - ON /紅色-開修 White-OFF/白角-駿朗 Camera Settings 相機設定 Screenshot of Record 錄影截圖

Record/Stop 錄影停止 Photo/Video modeswitching





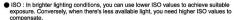




CAMERA PARAMETERS







- EV : With the correct exposure, higher EV values result in brighter images, while lower values make them darker.
- White Balance: Adjusting the camera to capture the natural colors of objects in the image, ensuring they appear true to life under different light sources.
- Picture Styles: There are three settings: Sharpness/Saturation/Contrast
- (1) Sharpness enhances or reduces detail and edges.
- (2) Saturation adjusts the intensity of colors.
- (3) Contrast adjusts the difference in brightness between highlights and shadows.
- ISO: 在較高的光線下,可使用較低的ISO值,達到適合光線 充足的情境。反之,當可用光線較少時,您需要較高的ISO值 進行補償。
- EV :在正確的曝光下,EV 值越高,影像越亮:反之,越低 則越暗。
- 白平衡:調整相機以捕捉影像中物體的自然色彩,使其看起來在不同光源下都能呈現真實的顏色。
- 風格:共三種設定功能,分別稅度/飽和/對比。
- (1) 稅度關整細節和邊級進行增強或減弱。
- (2) 飽和調整色彩的鮮艷度。
- (3)對比調整影像中烹部和暗部之間的差異程度。



PHOTO MODE 护昭模式:



- Single Shot: Each time the capture button is pressed, the camera captures only one photo.
- Burst Mode: Each time the capture button is pressed, the camera captures a continuous series of photos based on the set number.
- Timer Mode: After pressing the capture button, the camera continuously captures photos after a set delay time: pressing the capture button again stops the timer function.
- Photo Size: Offers multiple size options: the larger the size, the slightly longer the save time.
- Photo Formats
- JPG = Standard photo format.
- (2) JPG+DNG = DNG is the lossless compressed original image format.
- Date Stamp: When enabled, the current date and time will appear in the bottom right corner of the photo.
- 單拍:每次按下拍照按鈕,相機只會拍攝一張照片
- 連拍:每次按下拍照按鈕,依造設定張數連續拍照片
- 定時:按下拍照後,相機會持續地在設定的延遲時間後自動 拍攝照片,可以再次按下拍照來停止定時功能。
- 昭片尺寸:提供多種尺寸選擇,尺寸越大,需要稍微等待存
- 照片格式:
- (1)JPG = 一般照片格式
- (2)JPG+DNG = DNG為無捐壓縮的原始影像格式。
- 日期水田:開客後,照片右下角會顯當下日期與時間。







PECOPDING MODE 给影構式

- The higher the resolution, the greater the detail and clarity in the image
- EPS stands for frames per second, indicating the number of frames captured and recorded per second of video. Higher EPS is available, but it does not support EIS (Electronic Image Stabilization) comparatively
- **Below are the resolutions and EPS without stabilization:4K 60fps 2 7K 60fps 1080P 120fps 720P 120fps ▲ Video formate
- (1) MP4/H264 = Standard video format
- (2) MP4/H265 = More advanced technology format, resulting in smaller files, but playback and post-production processing may require better hardware specifications.
- (3) MOV = Developed by Apple initially used for the QuickTime multimedia player
- W It is recommended to use MP4/H264
- Date watermark: When enabled, the current date and time will appear in the bottom right corner of the video
- 分辨密越高,影像由的細節和清晰度就越高。
- FPS代表級影気秒補提和記錄的影像幀數。提供重享FPS,但相 對不支援EIS(增穩技術)
- ※以下為無慘鶏分辨家與FPS:
- 4K 60fps > 2.7K 60fps > 1080P 120fps > 720P 120fps
- ●影片格式
- (1) MP4/H264 = 標准影像格式
- (2) MP4/H265 = 較先淮技術格式,檔案較小,但相對撥放影片與後 製處理,硬體規格需要更好
- (3) MOV = 蘋果公司閱發,最初用於 QuickTime 名媒體擬放器。
- ※ 建議設置為: MP4/H264
- 日期水田:開客後,影片右下鱼會顯常下日期與時間。



CAMERA SETTINGS **知機設置**



- the transmitted image, 640P is the optimal setting. Metering Mode:
- (1) Center Metering: The camera meters the central area of the frame.
- (2) Multi-spot Metering: Calculates average exposure based on the brightness and contrast of multiple points in the frame.
- Grid: Displays reference lines on the transmission screen to aid in composition.
- Center Point: Displays a crosshair on the transmission screen for directional reference.
- Light Source: Due to varying standard frequencies in power grids across different countries and regions, it's recommended to set it to ALITO
- Camera Firmware Version: Provides users with relevant information about the camera's firmware to determine if an undate is needed.
- Format SD Card: Deletes images from the SD card inserted in the camera.
- Reset Camera Parameters: Restores the camera to its factory default settings.
- 回傳影像分辨率:此為回傳畫面質量和清晰度,640P為最佳設定值 ■ 測光模式: (1) 中間測光:相機對書面中央區域進行測光。
- (2) 冬點測光:根據書面中冬個點的原度和對比度來計算平均曝光。
- 網格: 在回傳敬幕上顯示參考線,提供書面機圖依據。
- 申小點:在回傳發幕上顯示十字點,提供飛行方向參考。
- 光源頻率: 許多國家和地區,電力網絡的標準頻率不同,建議設AUTO。 相機韌體版本:提供使用者有關相機韌體的相關資訊,了解是否需為最新版本的韌體。
- 格式化SD卡:將插在相機裡SD卡影像刪除。
- 重置相機參數:恢復相機原廠預設値。







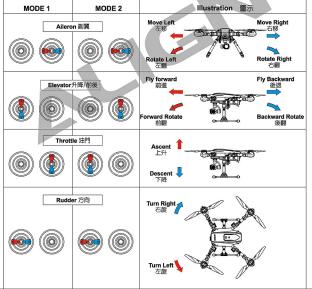
PLEASE PRACTIOTEC SIMULATION FLIGHT BEFORE REAL FLYING 飛行前請事先熟練電腦模擬飛行

A safe and effective way to practice is to use commercially available simulator software to fly on a computer launcher. Carry out simulated flight until your fingers are familiar with the rudder movements, and continue practicing until your fingers are familiar with the rudder movements.

- 1. Place the Drone in an open area (make sure the power is turned off) and point the tail of the drone towards you.
- 2.Practice operating the throttle stick (as shown below) and repeat the exercise "Throttle high/low", "aileron left/right", "rudder left/right" and "elevator up/down".
- Simulated flight practice is very important, please keep practicing until you hear Until the fingers can move naturally when operating instructions.

在遠沒頭祭無人機各動作的操控方式前,關禁實機飛行,請先進行電腦模擬飛行的練習,一種最有效、最安全的練習 方式,就是透過而觀點的模類軟體,以遙控器在電腦上模葉飛行,熟悉各種方向的操控,並不斷的重複,直到手指 可熟練的控刷各個動作及方向。

- 1.將無人機放在空罐的地方(確認電源為關閉),並將無人機的機星對進自己。
- 2.練習操作遙控器的各搖桿(各動作的操作方式如下圖),並反覆練習油門高/低、副翼左/右、升降舵前/後及方向舵左/右操作方式。
- 3.模擬飛行的練習相當重要,請重複練習直到不需思索,手指能自然隨著喊出的指令移動控制。





STAY AWAY FROM OBSTACLES AND CROWDS 读離障礙物與人群

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

通控無人機飛行時具有一定的速度,相對的也潛在著危險性,場的重要,請需適等自地法規到合法通控飛行過地飛行。必須注意僅、建築物、高壓電線、組木等等,避免巡場干壘、分刀部號當遊成目己與他人財產的相響。新熱必選擇在歐路內域各次與下,以循條本身及機斷安全。



DO NOT FLY ALONE 游瓷獨白操控

Before turning on your model and transmitter, check to make sure no one else is operating on the same frequency. Frequency interference can cause your model, or other models to crash.

The guidance provided by an experienced pilot will be invaluable for the assembly, tuning, trimming, and actual first flight or unforeseen danger may happen. (Recommend you to practice with experienced pilots or with computer-based flight simulator firstly.)

至飛行場飛行前,需獲認是否有相同頻率的同好正進行飛行,因為開答和 同頻率的發射機构或已已與他人立即計構等高於6歲。越鄉人機模的 投近在學習的期有者一定的數度,要盡量避免如目操作飛行,將同變的 人士在旁指導,才可以提供飛行。否則將可能造成不可預期的意外發生。 創練電腦模擬形成之手在場指導是大門必要改選。



DO NOT POINT THE DRONE TOWARDS YOUR EYES 禁止將無人機對著眼睛

It is strictly forbidden to grab the running drone with your hands, and it is forbidden to point the drone towards your eyes. After the main rotor rotates, or when taking off/test flight, be sure to stay away from obstacles. The standing position must be more than 10 meters away to avoid human interference. Improper assembly may cause parts to fall off, causing unexpected damage to property and personnel.

嚴禁用手抓取運行中的無人機,並禁止將無人機對著眼睛,當主旋翼轉動 後,或起飛/試飛時,務必遠難障礙物,站立位置必需距離10公尺以上,避 免因人為組裝不當造成零件脫落,而引發不可預期的財物及人員損傷。



CENTER OF GRAVITY ADJUSTMENT

The aircraft needs to be balanced at the Center of Gravit(CG) point with full payload onboard. Improper CG balance may cause flight instability and/or uneven power consumption of the motors, and may even leads to crash in worse case scenario.

飛行前務必確認,並調整好全載重機體的重心位置,偏移的重心 容易導致飛行不穩與馬達受力不均的耗電、損傷,嚴重將導致不 可預期的失衡摔機。



CHECK THE WIRE DIRECTION

Make sure to install the wires rith "up" imprint facing up, and ensure the plug is inserted deep enough. Improper plug insertion may lead to poor connecion or even malfunction of the unit.

插線時,請務必將刻有UP字楼端口朝上,對準插座後,確實將插頭完 全插入到底,若無確實揭入定位,將導致接觸不良、飛行控制系統不 動作等問題產生!



POWER UP PROCEDURE WHEN MOUNTED TO ALIGN DRONE 掛載於亞拓無人機開機步驟

1. Turn on RC transmitter power 盟政案控緊雷源



Press and hold for 2 seconds to Power ON 長坡2秒,雷源關路

2. Turn on Drone power 盟終無人機雷源



Press and hold for 5 seconds to power up 長按5秒,無人機開機

3.Gimbal power up 雪台電源廢動



Successful power up is indicated by gimbal status LED shows red. 雪台狀態指示僧顯示紅僧枥高,

GIMBAL AUTOMATIC POWER ON TEST

Gimbal automatically performs 3-axis neutral point calibration after power on. The process takes about 10 seconds, Lock the heading facing forward and tilt down by -8 degrees.

開啓電源後,雲台會自動校正三軸中立定 位點檢測,過程約10秒鐘白檢完成,鎖定 頭向朝前、並往下-8度。



CHECK THE CONNECTION STATUS WITH THE GROUND STATION 檢查與地面站

- 1. Click on the AP3 icon on the remote controller page to open the app
- 2. Wait for the device connection status to appear in the top left corner of the interface.
- 3. Once the connection is established, the G3P video feed will appear in the bottom right corner. You can click on the video feed window to switch to zoom mode.
- 1. 點擊遙控器頁面AP3 icon, 開際APP。
- 2. 签结介而左上角顯示設備連線狀態。
- 連線完成後右下角會顯示G3P影像回傳畫面。可點擊影像回傳畫面視窗切換放大。



REMOTE CONTROLLER FOR GIMBAL CONTROL 遙控器控制雲台動作

- 1. Use the right dial on the remote controller to control the gimbal's pitch and the left dial to control its pan.
- 2. Press the left button IC kevI to center the gimbal with a single click.
- 透過遙控器右邊撥輪:可控制雲台俯仰、 左邊撥輪:控制雲台平移。
- 2. 點離左側按鈕〔C鍵〕控制雲台一鍵回中。

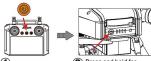


One click to return to center



M460 POWER ON STEPS M460 啟動電源步驟

- 1. Turn on the power of the remote control (press and hold for 2 seconds).
- 2. Press and hold the power of the drone for 3 seconds.
- 3. If it is idle for 10 minutes after being powered on and does not take off or rock the stick, the motor will sound a warning sound.
- 開啓遙控器電源(長按2秒)。
- 2.無人機電源長按3秒。
- 3. 通電後閒置10分鐘若未起飛或未動搖桿, 馬達會發出警告音提示。



Power on 電源開啟

Press and hold for 3 seconds to turn on 長按3秒開機

M460 POWER OFF STEPS M460關閉雷源步

- Press and hold the power of the drone for 3 seconds.
- 2. Turn off the power of the remote control (press and hold the power switch until the screen displays shutdown or restart, then click the shutdown button to shut down the remote control).
- 1.無人機電源長按3秒。
- 2.關閉遙控器電源(長按電源開闢等待 銀幕顯示關機或重新容動,再點選關機按鈕,執行遙控器關機)。





Press and hold for 1) 3 seconds to turn off 長按3秒關機

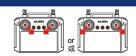
(2) Power off 電源關閉

STARTER MOTOR POWER AND SHUTDOWN / 啓動馬達動力與關閉 ALIGN //

STARTER MOTOR POWER 啟動馬達動力

Turn the two rockers [inward and downward] or [outward and downward] 45° to start the motor.

將兩支搖桿(向內向下)或(向外向下)45°即可啓動 馬達。



TURN OFF THE MOTOR POWER (THERE ARE TWO WAYS TO TURN OFF THE POWER) 關閉馬達動力(關閉動力有分兩種方式)

1. Normally shut down the motor power:

When the tripod is indeed on the ground, 3-4 seconds after pulling the throttle stick down to the bottom, the motor will turn off power (please note the different positions of the throttle in Mode1 and Mode2).

1.正常關閉馬達動力:

腳架確實落地,下拉油門搖桿到底3-4秒後,馬達即關閉 動力(請注意Mode1 Mode2油門不同位置)。









Mode 2

2. Quickly turn off motor power:

After the tripod has truly landed, pull the throttle to the bottom for 2 seconds, then move the left and right joysticks (inwards and downwards) or [outwards and downwards] 45 * to quickly turn off the motor power.

2. 快速關閉馬達動力:

腳架確實落地,下拉油門到底2秒後,再打左右搖桿(向 内向下)或(向外向下)45°即可快速關閉馬達動力。





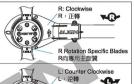


- When the motor running test function is turned on, the motor will slowly rotate M1, M4, M2, and M3 clockwise for about 3 seconds. Check whether the installation position and the main rotor rotation direction are consistent.
- The rotation process of the main rotor of the motor is dangerous. When inspecting, please first confirm that there is no debris around the drone and avoid the rotation range of the main rotor to avoid danger.
- 1.馬達運轉測試功能開客時,馬達會順時針方向M1、 M4、M2、M3依序慢速轉動約3秒,檢查安裝位置 及主旋翼旋轉方向是否一致。
- 馬達主旋翼旋轉過程有危險性,檢測時請先確認無人機 旁無雜物,並避開主旋翼轉動範圍,以免發生危險。



MOTOR ROTATION DIRECTION 馬達正逆轉方向

Please confirm the forward and reverse direction symbols marked on the motor holder. 灣確定馬達固定座上所標示的正、逆轉方向符號。





ALIGN //

RETRACT TEST 腳架收放測試

Test the retract switch on RC transmitter and do retraction for 2 to 3 times prior to flight.

飛行前應測試腳架收放功能,切換收腳架按鍵開關做 網架收放動作2~3次,確定收合動作正常。







To avoid getting your hands pinched, do not touch retracts while in motion. 請勿觸碰下在進行收放腳架的收折處,避孕來傷手

There are two ways of retracting and retracting the tripod:

- Automatic tripod retraction: When the drone takes off and rises to 5M, the system will automatically retract the tripod.
 When the drone lands at 4M during flight, the system will automatically lower the tripod.
- Manual tripod retracting: Turn off the automatic function and switch to manual control of the tripod retracting and retracting function.

Automatic foot retraction function switch: You can choose to turn it on or off from Common Settings>>Flight Control Parameter Settings>>Automatic Foot Retraction.

具備兩種腳架收放方式:

- 自動收腳架:無人機起飛上升至5M時,系統會自動收啓腳架、飛行中降落至4M時,系統會自動放下腳架。
- 2. 手動收腳架:關閉自動功能,切換為手動控制收放腳架功能。
- 自動收腳功能開闢:可由常用設置>>飛控參數設置>>自動收腳,選擇開格或關閉。





ATTITUDE MODE 容態模式

Attitude mode will automatically maintain the drone's attitude level and altitude control functions. The elevator, aileron, and tail rudder rocker commands are angle commands. The greater the rocker movement, the greater the drone's movement angle. The maximum andie is limited to 30 degrees.

麥瞇模式會自動保持無人機麥魌水平與定高功能,升降、副翼、 尾舵搖桿指令為角度命令,搖桿動作越大無人機動作角度越大, 最大角度限制為25度。

- a) Throttle stick in center = fixed height
- a)油門搖桿置中=定高









In Attitude Mode, obstacle avoidance is

avoid collisions and ensure flight safety.

姿態模式下無避障功能,應注意問圍環境,

游冕碰撞,確保飛行安全。

disabled. Be aware of your surroundings to

b) Elevator/aileron rocker (maximum 25 degrees left or right)

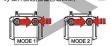
b)升降/副翼搖桿(左或右最大25度)





c) Release the rocker (the body will automatically return to normal)

c) 搖桿放開(機體自動回正)







GPS(SPEED) GPS(速度)

It will automatically maintain the drone's attitude level, fixed height and GPS positioning. The elevator, aileron, and tall rudder rocker commands are speed commands. The greater the rocker movement, the faster the drone files. The maximum flight speed is 18 meters horizontally, is, rising 6 meters/s, falling 2.5 meters/s.

會自動保持無人機姿態水平、定高與GPS定位,升降、副翼、尾舵搖桿 指令為速度命令,搖桿動作越大無人機飛行速度越快,最大飛行速度水 平18公尺秒、上升5公尺秒、下降2.5公尺秒。

企AUTION 注意

GPS signals may affect positioning due to factors such as weather, external interference, environment, etc. When flying in GPS mode, if the drone's positioning is inaccurate or offset, please switch to attitude mode and fly the drone back manually. GPSII就管因天氣、外界干量、環境、等因素影響定位。在使用GPS模式飛行下,如果無人機發生定位不準、偏移情況。請切換至委務模型、常服人轉步存取0.



Straight flight speed: 18 m/sec 直線飛行速度: 18公尺/秒



GPS(ANGLE) GPS(角度)

The drone's attitude level and height-setting function will be automatically maintained. The elevator, aileron, and tail rocker commands are angle commands. The greater the rocker movement, the greater the drone's movement angle. The maximum angle is limited to 25 degrees.

會自動保持無人機姿態水平與定高功能,升降、副翼、尾舵搖桿指令為角度命令,搖桿動作茲大無人機動作角度越大,暴大角度限制為25度。



FLIGHT MODE FUNCTION COMPARISON 飛行模式功能對照

Function FLIGHT MODE 飛行模式	ATTITUDE MODE 姿態模式	GPS MODE GPS模式	AUTOPILOT MODE 自動導航模式
Intelligent flight—head-to-head mode 智能飛行一頭向模式		-	V
Intelligent flight—remote path planning 智能飛行一遠端路徑規劃			V
Intelligent flight—regional path planning 智能飛行一區域路徑規劃			v
Intelligent flight—exam mode 智能飛行一考場模式			v
Auto return 自動返航	V	V	V
Failsafe 失控保護	V	V	V
Low voltage protection 低電壓保護	V	V	V

INTELLIGENT FLIGHT 智能飛行

ALIGN //

HEAD MODE 頭向模式

It is an intuitive way to control the drone. In the automatic navigation and automatic return modes, it is head-to-head mode, and its flight direction is relative to the front of the fuselage.

AUTOPILOT MODE

是操控無人機直觀的方式,在自動導航及自動返航模式下均為頭向模式,其飛行方向相對於機身的前方。

Setting Method 設定方式

The system defaults to head-direction mode and no setting is required.
系統默認為頭向模式・不用設定・

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Flight Status 积行为同处概则的第方。

The flight direction is in front of the fusalinge. 飛行方向於機身的第方。

白動道航



REMOTE PATH PLANNING 凌端路徑規劃



Use multi-point path point coordinates to execute commands and fly to the specified destination. Two methods of planning can be used: [Map Pointing] and [Drone Pointing].

利用名點式緊忽點座標,就行命令發至指定的目的地。可使用了地震打點)及了無人模打點)面種方式提劃。

Setting method 1 設定方式1

Map dotting 地屬打點



1. Open the APP and select the [Route Planning] icon



2. Plan the flight path in the APP man mode and select at least two noints to form the desired path.



3. At the same time, you can set the flight altitude, speed, and hover time.



AUTOPII OT MODE 白動道航

> 4. After the setting is completed, you need to click [Upload Waypoint] on the APP. After the APP displays [Upload Successfull, the route planning is completed.

 盟終APP, 澤取「終徑 規劃 ì icon

2. 在APP地層模式規劃形 3. 同時可以設定飛行高 行路徑,點選至少兩個 點,形成所需的路徑。

度、速度、停縣時間。

 粉定完成,需在APP點 盤〔上傳統點〕,待 APP顯示(上傳成功) 後,則完成路徑規劃。

Setting method 2 粉定方式2

Drone management 無人機打點







1. Open the APP and select the [Route Planning1 icon

2. Fly the drone to the planned point, 3, Attention! After using click the [Drone management] icon in the APP interface to complete the first point. Subsequent marking positions are continued in the same manner as above, at least two points, to form

the required path.

the drone to do the points, you need to return and land the drone, and then set the flight altitude, speed, and hover time.

4. After the planning is completed, you need to click [Upload Waypoint] on the APP. After the APP displays [Upload Successful], the route planning is completed.

 開終APP,選取〔路徑 2. 將無人機飛行至預計規劃的 規劃) icon 點,點選APP介面(飛機打 點)icon即完成第一個打點

位置。 後續打點位置同上述 方式持續打點、至少兩個 點,形成所需的路徑。

完成後需將無人機返回 並降落,再設定飛行高 度、速度、停縣時間。

3. 注意!使用無人機打點 4. 規劃完成後,需在APP 點擊〔上傳統點〕,待 APP顯示(上傳成功) 後,即完成路徑規劃。



flight status 飛行狀態

There are two ways to perform path planning flight: 執行路徑規劃飛行有以下兩個方式:



1. Automatically take off: After unlocking the drone, click the [start] icon. The system will display whether it will automatically take off? After clicking [Yes] at this time, the drone will automatically take off to an altitude of 3M and then perform the flight mission.

 白動起飛:無人機解鎖後,點翼(start) icon,系 統會顯示是否自動起飛?此時點選(是)後,無人 機會自動起飛至3M高度接著執行飛行任務。



2. Manual takeoff: After unlocking the drone, manually take off to the required height, switch to automatic navigation mode, and the drone will automatically perform flight tasks.

2. 手動起飛:無人機解鎖後手動起飛至所需高度,切換 至自動遵航模式,無人機會自動執行飛行任務。

Disable Function 功能解除

Turn on attitude mode or GPS

mode to disable the function 開啓姿態模式或GPS模式,即可解 除功能。

Intervention Control 介入操控

In automatic navigation mode, the throttle can be If there is any movement in the allerons or elevators, the automatic navigation function will be disengaged, transitioning to manual control.

在自動導航模式下,油門可用來控制高度。 若劉實或升降出現動作,則自動導航功能將 被解除,轉為手動控制。



姿態模式 変態模式 自動導





MODE 2

REGIONAL ROUTE PLANNING 區域路徑規劃

AUTOPILOT MODE 白動導航

Using multi-point regional point coordinates to automatically plan flight paths and execute commands to fly to the designated area.

Two methods of planning can be used: [Map Pointing] and [Drone Pointing].

利用多點式區域點座標,自動規劃飛行路徑,執行命令飛至指定的區域。 可使用(地圖打點)及(無人機打點)兩種方式規劃。

Setting method 1 設定方式1

Man dotting 地爾打點



select the fregional Route Planning] icon



2. Plan the flight path in the APP map mode and select at least three points to form the required area.



3. At the same time. you can set the flight altitude, speed, and hover time.



4. After the planning is completed, you need to click [Upload Waypoint] on the APP. After the APP displays [Upload Successful], the regional planning is completed.

1. 開答APP,選取〔區域路 徑規劃) icon

2. 在APP地圖模式規劃飛行 路徑,點選至少三個點, 形成所需的區域。

3. 同時可以設定飛行高 度、速度、停棚時間。 4. 設定完成,需在APP點擊(上 傳統點),待APP顯示(上傳 成功)後・即完成區域規劃。



Setting method 2 設定方式2

Drone management 無人機打點



1. Open the APP and select the [regional Route Planning] icon



2. Fly the drone to the planned point, click the [Drone management] icon in the APP interface to complete the first point. Subsequent marking positions are continued in the same manner as above, at least three points are formed to form the required area.



3. Attention! After using the drone to do the points, completed, you need to you need to return and land the drone, and then set the flight altitude. speed, and hover time.



4. After the planning is click [Upload Waypoint] on the APP. After the APP displays [Upload Successful] the regional planning is completed.

1. 關啓APP, 選取(區 域路徑規劃)icon

2. 將無人機飛行至預計規劃的點,點 選APP介面(飛機打點) icon即完 成第一個打點位置。 後續打點位 置同上述方式持續打點,至少三個 點,形成所需的區域。

3. 注意!使用無人機打點 完成後需將無人機返回 並降落・再設定飛行高 度、速度、停懸時間。

4. 規劃完成後, 需在APP 點 擊〔上傳航點〕,待 APP顯示 (上傳成功) 後,即完成區域規劃。

flight status 飛行狀態

There are two ways to perform area planning flights: 執行路區域規劃飛行有以下兩個方式:



1. Automatically take off: After unlocking the drone, click the [start] icon. The system will display whether it will automatically take off? After clicking [Yes] at this time, the drone will automatically take off to an altitude of 3M and then perform the flight mission.



2. Manual takeoff: After unlocking the drone, manually take off to the required height, switch to automatic navigation mode, and the drone will automatically perform flight tasks.



1. 白動起飛:無人機解鎖後,點 選〔start〕icon , 系統會顯示 是否自動起飛?此時點溝 (是)後,無人機會自動起飛 至3M高度接著執行飛行仟務。

2. 手動起飛:無人機解鎖後手動起飛 至所無高度,切換至自動導航模

式,無人機會自動執行飛行任務。

Disable Function 功能解除

Turn on attitude mode or GPS mode to disable the function.

關啓姿態模式或GPS模式,即可解 除功能。



Attitude 姿態模式 G 自動 P



Intervention Control 介入操控

In automatic navigation mode, the throttle can be used to control altitude. If there is any movement in the ailerons or elevators, the automatic navigation function will be disengaged, transitioning to manual control.

自動導航模式下,油門可用來控制高度。 副翼或升降出現動作,則自動導航功能將 解除,轉為手動控制。







EXAMINATION MODE 老場模式



You can choose 20Mx20M or 40Mx20M as the range of the simulated examination room to practice flying movements and become familiar with the mission settings to maintain stable flight.

The system presets the flight altitude to 5M, the flight speed to 10M/s, and the hover time to 0 seconds.

可選擇20Mx20M或40Mx20M,做為模擬者場的範圍,練習飛行動作並熟悉任務設定,保持穩定飛行。 系統預殼飛行高度為5M、飛行速度為10M/s、停縣時間為0秒。

Setting Method 設定方式



 Open the APP and select the [Examination Room Model icon



 Enter the setting interface, scroll down to 20Mx20M or 40Mx20M, and select the required examination room range.



Click the first point in front of the drone on the map to generate the flight range.



AUTOPILOT MODE 白動道航

 You can click on the second point in any of the four directions of the block, and the path and flight direction will be generated.

For example: to fly from bottom to top, click on the top of the block, and to fly from top to bottom, click on the bottom of the block.

1. 開啓APP,選取 (考場 模式) icon

2. 進入設置介面,下拉至 20Mx20M或40Mx20M, 選取所需的考場範圍。 再從地圖上無人機前 方點擊第一個點,生 成飛行範圍。 可在區塊4個方向任意點 擊第二個點,即會產生路 徑及飛行方向。

例如:由下往上飛點擊區塊 上方、由上往下飛則點擊 區塊下方。

無人機開機後,機頭朝向要飛行的方向。

After the drone is turned on, the nose of

the drone faces the direction to fly.



- If you need to modify the flight altitude and speed, you can click on the basic settings: Set flight altitude and flight speed.
- 若需修改飛行高度、速度,可點開基礎設置:股定飛行高度、飛行速度。



- If you need to stay at each flight turning point, you can enter the advanced settings to set the hover time, up to 10 seconds.
- 6.若需在每一個飛行轉折點 停留,可進入進階設置設 定停懸時間,最多10秒。



- After the setting is completed, you need to click [Upload Waypoint] on the APP. After the APP displays [Upload Successful], the examination room mode planning is completed.
- 設定完成,需在APP點擊(上傳 新點),特APP顯示(上傳成 功)後,即完成者場模式規劃。





There are two ways to fly in exam room mode: 執行考場模式飛行有以下兩個方式:



1. Automatically take off: After unlocking the drone, click the [start] icon. The system will display whether it will automatically take off? After clicking [Yes] at this time, the drone will automatically take off to an

altitude of 3M and then perform the flight mission. 自動起飛:無人機解鎖後,點選(start) icon, 系統會顯示是否自動起飛 ? 此時點選 (是)後,

無人機會自動起飛至3M高度接著執行飛行任務。

多態模"

2. Manual takeoff: After unlocking the drone, manually take off to the required height, switch to automatic navigation mode, and the

drone will automatically perform flight tasks.

2. 手動起飛:無人機解鎖後手動起飛 至所需高度,切換至自動導航模式,無人機會自動執行飛行任務。

Intervention

Control

介入操控

Disable Function 功能解除

 \bigcirc \bigcirc \bigcirc

姿態模式 変態模式

Turn on attitude mode or GPS mode to disable the function.

開啓姿態模式或GPS模式,即可解除功能。



In automatic navigation mode, the throttle can be If there is any movement in the allerons or elevators, the automatic navigation function will be disengaged, transitioning to manual control.

在自動導航模式下,油門可用來控制高度。 若測翼或升降出現動作,則自動導航功能將 被解除,顯為手動控制。



白動扳航 AUTO RETURN

ALIGN //

The automatic return function is to assist the drone during the control process. If it becomes lost or the distance is too far and the correct flight direction cannot be identified, the flight control system can execute the automatic return command, allowing the drone to drive safely under the safety mechanism. Return to Home point. You can set the return altitude and return speed before flying.

Attitude/GPS/ Auto Navigation 姿態/GPS/白動導航

自動返航功能是輔助無人機在操控過程中,若發生迷航或距離太遠無法辨識正確飛行方向時,可藉由飛控系統執行自 動返航指令,讓無人機在安全機制下自動駕駛安全返回Home點。飛行前可先設定返航高度、返航速度。

Setting Method 粉定方式



1. Open the APP and select the [Common Settings] icon

 開啓APP,選〔常用設 置) icon



2. Enter (Flight Control Parameter Settings] to set the return altitude and return speed.

2. 進入 (飛控參數設置)設定 **扳航高度、扳航速度。**





3. In GPS mode and within the receiving range of the remote control, press the [Auto Return] button on the remote control to execute automatic return.

3. 在GPS模式下日塞控器接收範圍內,按下審控 器上的〔自動返航〕鍵,即執行自動返航。

Flight Status 飛行狀態

- When the drone exceeds the set return altitude:
- a) The drone returns home at the current flight altitude and head towards the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land
- c) The system will automatically shut down the motor power after the drone lands.

1. 無人機超過設定的返航高度時:

- a)無人機以當前的飛行高度,頭向朝Home點方向返航。
- b) 回到Home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
- c) 無人機解落後系統會白動關閉馬達動力。

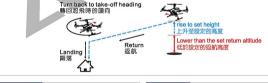


2. . When the drone is lower than the set return altitude:

- a) The drone will rise to the set altitude and head back toward the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land.
- c) The system will automatically shut down the motor power after the drone lands.

2. 無人機低於設定的返航高度時

- a) 無人機將上升至設定的高度,頭向朝Home點方向返航。
 - b) 回到home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
- c) 無人機醛落後系統會自動關閉馬達動力。



Turn on attitude mode or GPS mode. You cannot intervene until the function is Intervention Or press the [Auto Return] button on disabled. After the function is released, Disable Function the remote control again. Control it can be controlled manually. 功能解除 開客姿態模式或GPS模式。 或再次按下遙控器〔自動返航〕鍵。 介入操控)能未解除前無法介入。功能解除後 |手動操作抑制。 (A) (A) (C) Auto return switch 白動返航開闢 Autopilc 自動導統 Attitude MODE 1



Attitude/GPS/ Auto Navigation 姿態 / GPS / 自動導航

Setting Method 設定方式



1. Open the APP and select the ICommon

Settings] icon

1. 開啓APP,選〔常 田粉置〕icon

Enter [Flight Control
Parameter Settings] to set the
return altitude and return speed.

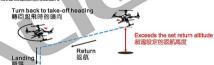
 進入(飛控參數設置)設定返 航高度、返航速度。

Flight Status 飛行狀態

- 1. When the drone exceeds the set return altitude:
- a) The drone returns home at the current flight altitude and head towards the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land.
- c) The system will automatically shut down the motor power after the drone lands.

1. 無人機超過設定的返航高度時:

- a)無人機以當前的飛行高度,頭向朝Home點方向返航。
- b) 回到Home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
- c) 無人機降落後系統會自動關閉馬達動力。

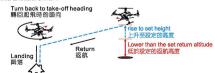


2. . When the drone is lower than the set return altitude:

- a) The drone will rise to the set altitude and head back toward the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land.
- c) The system will automatically shut down the motor power after the drone lands.

2. 無人機低於設定的返航高度時:

- a) 無人機將上升至設定的高度,頭向朗Home點方向返航。
 - b) 回到home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
 - c) 無人機路落後系統會白動關閉馬達動力。







Intervention Control 介入操控 You cannot intervene until the function is disabled. After the function is released, it can be controlled manually. 功能未解除前無法介入。功能解除後可手動操作控制。





LOW VOLTAGE PROTECTION 低電壓保護

ALIGN //

When the battery power of the drone is low, the system voice will prompt "Battery power is low, please return as soon as possible to replace the battery." In this case, please return as soon as possible to replace the battery.

Attitude/GPS/ Auto Navigation 姿態 / GPS / 自動導航

The system provides two types of low voltage protection and will issue a voice warning prompt:

- When the low battery voltage reaches 20%, the system voice will prompt "Battery voltage is too low, perform return". At this time, the drone will automatically return to the home point and land on its own. Please replace the battery.
- When the low battery voltage reaches 8%, the voice will prompt "The battery voltage is seriously low, please land immediately to replace the battery." At this time, the drone will land at the current location to avoid crashing due to too low battery.

You can set the return altitude and return speed before flying.

當無人機當池雷量低,系統語音會提示「雷池雷量低,請盡速返航更換電池」,此時請盡速返航更換電池。

系統提供兩種低電壓保護,同時會發出語音警告提示:

- 1.當電量低電壓到達20%時,系統語音會提示「電池電壓退低,執行返航」,此時無人機會執行自動返航回到 home點上方後自行降落,請更換電池。
- 2.當電量低電壓到達8%時,語音會提示「電池電壓嚴重過低,請立即降落更換電池」,此時無人機會降落在當時 地點,以避免因為電量太低而摔機。

飛行前可先設定返航高度、返航速度。



 Open the APP and select the [Common Settings] icon
 開答APP,選(常用設置) icon A CAMP OF THE PROPERTY OF THE

Enter [Flight Control Parameter Settings] to set the return altitude and return speed.

推入「飛控參數設置」設定返航高度、返航速度。



Flight Status 飛行狀態

- When the drone exceeds the set return altitude:
- a) The drone returns home at the current flight altitude and head towards the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land
- c) The system will automatically shut down the motor power after the drone lands.

1. 無人機超過設定的返航高度時:

- a) 無人機以営前的飛行高度,頭向朝Home點方向返航。
- b) 回到Home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
- c) 無人機路交後系統會白動關閉馬達動力。

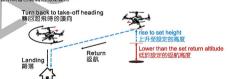


2. . When the drone is lower than the set return altitude:

- a) The drone will rise to the set altitude and head back toward the Home point.
- b) When returning above the Home point, the drone will turn back to the head direction when taking off, lower the tripod first, and then land.
- c) The system will automatically shut down the motor power after the drone lands.

2. 無人機低於股定的返航高度時

- a) 無人機將上升至設定的高度,頭向朝Home點方向返航。
 - b) 回到home點上方時,無人機會轉回起飛時的頭向,先放下腳架再降落。
- c) 無人機降落後系統會自動關閉馬達動力。





Intervention Control 介入操控

You cannot intervene until the function is disabled. After the function is released, it can be controlled manually.)能未解除前無法介入。功能解除後 |手動操作抑制。







ower system 動力系統	RCM-BL4213(370KV)
Wheelbase 軸距	660mm
Body height 機身高	290mm
Folding paddle 潜叠樂	7.5 inches (190mm)
Propeller diameter 螺旋樂直徑	415mm
Expanded size (length x width x height) 展開尺寸(長x寬x高)	514x594x290mm
Collapsed size (length x width x height) 收合尺寸(長x寬x高)	405x310x330mm
Empty weight 空機重量	2.5kg
Flight weight 飛行重量	3.67kg(including 6S 10000mAh smart battery)
Maximum load 最大載重	3.5kg
Maximum flight weight 最大飛行重量	7.47kg
Flight duration 飛行時間	About 28 minutes (no load)/約28分鐘(空載)
Satellite navigation system 衛星導航系統	GPS + Galileo + BeiDou+ Glonass
Air dwell accuracy 滞空停留精準度	Horizontal/水平: ±0.5M (GNSS signal normal) Vertical/垂直: ±0.5M (GNSS signal is normal)
Maximum rotation angle 最大旋轉角度	70° /sec(秒)
Maximum tilt angle 最大傾斜角度	25* (GPS mode/GPS模式) 25* (Attitude mode/姿態模式)
Maximum ascent speed 最大上升速度	5 M/sec(秒)
Maximum descent speed 最大下降速度	2.5M/sec(秒)
Maximum horizontal flight speed 最大水平飛行速度	18M/sec (seconds) about 64.8 kilometers/hour 18M/sec(秒) 約64.8公里/小時
Maximum flight altitude 最大飛行高度	500M
Maximum wind resistance level 最大抗風等級	Level 7/7級
ADAMUEL AVIOLELIQUE CONTROLLE	A DOCTOR TO LEGISLATION
AP6 MULTI-AXIS FLIGHT CONTROLLE	
Main processor 主處理器	Model/型號: STM32H753 Frequency/頻率: 480Mhz FLASH: 2M RAM: 1M
(gyro+accelerator) (陀螺儀+加速器)	IMU (shockproof level)(防震等級) ICM-20948 ICM-42688-P x2
Barometer 質期計	MS5611 x2

Main processor 主處理器	Model/型號:STM32H753 Frequency/預率:480Mhz FLASH:2M RAM:1M	
(gyro+accelerator) (陀螺镊+加速器)	IMU (shockproof level)(防震等級) ICM-20948 ICM-42688-P x2	
Barometer 氣壓計	MS5611 x2	
UART serial port UART #□	7	
I2C(接電池 / GPS上面的電子羅盤接口)	2	
CAN (通訊接□)	2	
PWM output PWM輸出	10	
RC input RC輸入	S.bus · A.bus	
Power input 電源輸入	2 (5V IN & RC IN)	
GPS/RTK interface GPS / RTK 接□	2	
USB	TYPE-C	
Operating Voltage 工作電壓	5V~8.4V	
USB voltage USB電壓	4.5V~5.5V	
Operting Temperature 工作深度	-40°C~85°C	

RCM-BL4213 BRUSHLESS MOTOR	RCM-BL4213無刷馬達
Imput Voltage 輸入電壓	DC 22.2V
Max Continuous Current 最大持續耐電流	25A
Max Continuous Power 最大持續功率	550W
Stator Arms 砂鋼片槽數	12
Magent Poles 磁鐵極數	14
Dimesion/Weight 尺寸/重量	⊕ 4x ⊕ 52x33mm/ 185a

MULTICOPTER BRUSHLESS ESC		
Imput Voltage 輸入電壓	13.2V~25.2V(4S~6S Li-Po)	
Max Continuous Current 最大持續耐電流	40A	
Dimesion 尺寸	74.2x27x12.7mm	
Operting Temperature 工作溫度	-5°C~ 45°C(23°F~ 113°F)	



Stabilization Sys	tem 穩定系統		Three-Axis Mechanical Gimbal / Pitch 、 Pointing 、 roll 三軸機械雲台/俯仰、指向、滾轉
Controllable Rota	ation Range o	[控轉動節開	Pitch/俯仰 -8* to-90*、Pointing/指向 ±90
		12412402	7013
4K CAMER	A 4K 相機		
Photoreceptor	影像傳感器		1/2.3" SONY COMS 12 million /1200萬 effective difference pixels 36 million/ 差値有效像素3600萬
Lens	鏡頭		可視角度:FOV 100° 光圈:f/2.7 對焦點:2米至無限遠 /Focus:2 m to infinity
Lens element	鏡片		4G2P UV (Aattachable lenses/ 外掛鏡片)
ISO Range	ISO 範圍		100-6400
EV Value	EV値		±2
White Balance	白平衡		Auto/Sunny/Cloudy/Overcast/Sunset 自動、請天、 陰天、多雲、E
Style	風格		Sharpness/Saturation/Contrast 鋭利、飽合、對比
Shutter speed	快門速度		1 - 1/6000s
Photo size	照片尺寸		8000x4496
Photo shooting	mode 照片拍	攝模式	Single shot/ 單張拍攝 Burst mode/多表連拍:(36M 5shots/張) Timed shooting/定約拍攝:36M(8000×4496)-7s/秒 27M(8912×3904)-6s/秒
Image format	圖片格式		JPEG/DNG
Video resolutio	n 錄影解析度		4K (4096x2160) 60/30/24 fps 2.7K (2720x1530) 60/30/24 fps 1080p (1920x1080) 120/60/30/24 fps 720p (1280x720) 120/60/30 fps
Video format §			MP4/H264 MP4/H265 MOV
Maximum Vide	o Data Rate	影片最大資料傳輸速率	I 120Mbps
Supported mer	nory card type	s 支援存储卡類型	MicroSDXC:V30 A1/A2 256GB (Includes one 32GB SD card/ 標配32G SD卡一張)
Color Mode an 色彩模式與取機)		ethod	A-Log
Digital zoom	數位變焦		4K-8X 4K-8倍
Camera Setting 相機設置	gs		Image resolution Metering mode: Center-weighted metering Multi-zone metering Graff Center point/Light source 回傳於是內解澳光、多點測光 網络(中心點)光源
PCII V2 PO	WER CONT	ROL UNIT SET	PCU V2電源控制組
Imput Voltage		MOL DINIT OLI	13.2V~25.2V(4S~6S Li-Po)
Operating Frequ			500KHz
Dimesion RT		-	62x35x26mm
			OEAGOAEGIIIII

HOOK CONTROL 多軸掛勾組	
Imput Voltage 輸入電壓	5V~8.4V
Operating Temperature 操作溫度	-10°C~50°C
Oper & Close Time 展開時間	8.4V/5 sec(秒)
Dimesion/ Weight 尺寸/重量	71x27x35mm/ Approx. 52g

、连拴無人城崖山保外	
本產品最大起飛重量:7.47公斤	(1)
☑應 □免 依遙控無人機管理規則至民航局「遙控無人機規範管理系統」 (https://drone.caa.gov.tw/) 進行線上註冊,註冊號碼應標明於機身顯著處。	(2)
☑ □ 免 具備航空站或飛行場圖資軟體功能。	(3)
□具型式檢驗(認可)標籤且應向民航局申請辦理實體檢驗。 ☑ 免辦理檢驗或認可。	(4)(5)
操作人口免持操作證 ☑應持普通操作證 □應持專業操作證。	(6)
操作本產品前,經檢查確保符合飛航安全條件後從事活動,並禁止飲酒或使用影響精神之藥物,亦不得於公告禁止或限制區域飛航,其餘調詳參見本產品所附操作手冊說明。	(7)(8)
違反上述規定者,中央及地方主管機關得依民航法禁止其活動,並處以新臺幣1萬至150萬元 罰鍰,精節重大者沒入遙控無人機。	(9)(10)
本標示依據遙控無人機管理規則第17條第1項規定辦理。	(11)

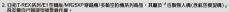
二、審控無人機相關法規說明:

- (1) 遙控無人機管理規則(以下網管理規則)第6條第1項:自然人所有之最大起發重量250公立以上之遙控無人機及政府機關(構)、學校或法人所有之遙控無人機。應由其所有人向民亂局申請註冊,並將註冊號議標明於遙控無人機上願著之處後。於得操作。
- (3) 管理規則第12條第1項:最大起飛重量1公斤以上且裝置導航設備之遙控無人機,應具備防止遙控無人機進入禁約窗、限約窗及航空 計或設行場四間之一定節離影間之腦會數體系統,其嚴會無符合本法第4條劃定及第99條之13第1節公集之影體。
- (4) 管理规则第13条 "基础性人模之配件" 無当、改策、應由設計者、製造者或改集者能則中國實向民机同中國武人機能、經址大機能 公司 (1975年) "是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人。" 可能的人员之及可能处。"他把握一个条架,不从是一段联系申请型式地貌。或规则申请看向民机局申请据可,规据可者,整括据可谓的支气外及回归概念。"
- 前二項之遙控無人機。其型式構造簡單經民航局公告者,經免繳理檢驗或認可。 (5) 管理規則第15條第1項:最大起飛雪量25公斤以上之遙控無人機,為確保遙控無人機符合設計、製造、改裝之性能諸元,應由其所
- 有人檢附申請書向民航局申請實體檢驗,經檢驗合格者,發給實體檢驗合格證。 (6) 管理規則第20條:循控無人機慢作將分類、申請者年齡及其他規定如下:
 - A. 學習操作證:申請者應年滿16歲,經申請後,由民航局發給。
 - 普通操作證:申請者應年滿18歲,經學科測驗合格後,由民航局發給。
 重要操作證:申請者應年滿18歲並符合相關經歷規定後,經體格檢查及學、術科測驗合格後,由民航局發給。
 - 前項各類操作體之操作權限如下: 一、學習操作題、持有人得於持有基定期人機會追集作體次導與操作題之操作人在旁指導下,依 其高級操作題或導導操作器所處之類分類、學習操作度大起於重量求產二十五公斤之基控無人機。二、等過操作體:持有人得換 作日然人所為表述用來量二公斤以上、未棄十五公斤且裝置聯系設定之產與非人機。三、專業使作證:持有人得收
- (編)、學校或法人所有之監控無人機及自然人所有國大起飛奮團十五公斤以上之選控票人機。 (7) 管理規則第25條:操作人操作基定無人機應接守下列車第:一、血液中直距直接不得超過百分之0.02或此氣中凝積速度不得超過至 公允戶「應戶。」 一不得受損害性用短衛監督。 要與行為自分更到損害。 三、不得對任何生命與起產者他造成階之變化行為。
- (8) 管理規則第26條:操作人從事遙控無人機飛航活動前,應依遙控無人機製造者所提供之雜修指引對遙控無人機系統進行檢查,符合安全飛航條件後始得活動。
- (9) 民用航空法塗經無人標母章第118條之1、遙控無人機之所有人或操作人有下列情事之一者。由民航局發止民操作證、並愈新臺幣 20萬元以上159萬元以下智顗、並得決入基定無人機。一、達反第98条之13第1項規定、於熱精圖、発謝及核定於或所行地因 2一定距離範圍內從專用紙艺動。二、進反第98條之14第1項第1 裁規定、逾期也面或水高高極の収從專用紙記書。
- (10) 民用航空还差控射、機需導第118条22:蒸汽馬、規之所有、承銀作人有下列傳導之一者、禁止其蒸動、愈重新團等6項元以上 30萬元以下罰鑑:情節曹大者・並得沒入濫控期人機:一、重反第99條210惠2環境之 *未領有操作證而操作進控期人機。二、違 反第998之15第3項原定。未按股或未在服役與低任保施而從事基控無人機活動。 進定所人規之所有人或潛户人下下列傳章之一者、禁止其否動。並應前蓋附為元以上15萬元以下罰鑑:情節重大者。並得沒入基控 無人機:一、基度思99條之13第2項。指用整整整件、機能研查機能性機能之規定:一、。 遺反第99條之13第2項有關直轄市、禁止
- 無人機:一一· 違反那9%是21987項有關基定辦人機性無項商時批冊號構之模定:一、違反那9%是21982項有額直接所、 係(市) 沒有240區域、特限是20世世軍事項之限至。- 12度及99%至214等1項第2至第79%的整度指列。與686至數理至之股定。-本年級更之機器,総同時進及第9%至21841項或那9%是214第1項第1款已成長而最影別,由直轄市、縣(市)沒因機器之 11月間長空基金數量、及需應整理的能是23:進反在第9%を217所定即何關鍵時間點,均衡數 便可、維度與68
- (11) 反对那定点强性無人领导争等110款之。建反优势35款之17所定於明市跨到外域的、依赖、战马、被参兵改量、 形態活動之活動許可及內容、製造者與進口者之登錄及責任、飛航安全相關事件之過報等事項規定者,禁止其活 動,並虧期臺幣"萬元以上150萬元以下對護,帽節重大者,並得沒入基控無人機。

※有關後續盜控無人機法規最新資訊,請詳見: (https://drone.caa.gov.tw/) 或標瞄右方QR Code連結。

感謝您購買亞拓系列商品,謹表謝意!

1. 亞拓E1植保直昇機、M4/M6植保多輪機、M460/M490/M470L/M480XL/M690L任務無人機、屬「衛星 湯新無人機」、民航局已有損升金線與料、操作者可直接在交通部民用航空局無人機等國駐冊沿後、登錄系統 下拉選擇型就回可快速完成計冊程序。











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ALIGN

Specifications /產品規格:





Brand 顧牌	ALIGN
Mode 產品型號	M460TOP Aerial Photography / Mission Drone
Construction 構造	Multicopter 無人多旋翼機
Dimensions 尺寸(長x寬x高)(公分)	51.4x59.4x29(cm)
Multi-rotor wheelbase 多旋翼軸距(公分)	66(cm)
Power 使用動力	Battery 電池
Avigation Method 導航方式	Satellite System 衛星系統
Max. take-off weight 最大起飛重量(公斤)	7.47(kg)
Max. speed(km/h) 最大速度(公里/小時)	64.8(Km/h)
Remote Control Method 遥控方式	WIFI
Remote Control Frequency 遙控頻率	2.4G