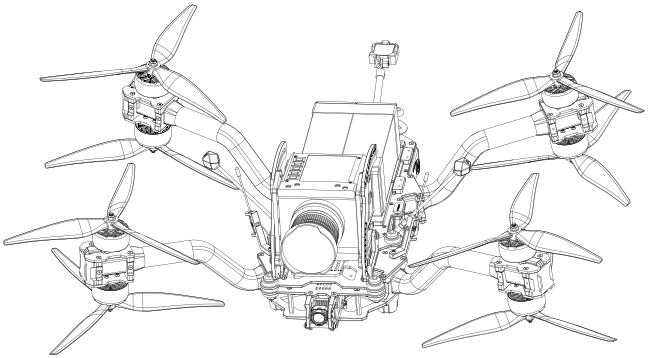
IFLIGHT
Flight Beyond Vision

Taurus X8 Pro Max

Quick Start Guide
快速入门指南



V1.0

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EN

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I. Safety Guidelines and Disclaimer

Warning: By using this product, you signify that you have read, understand, and accept the terms and conditions of this manual and all instructions. Failure to follow the instructions correctly may result in property damage, product damage, or serious personal injury!

Safety Flight Terms

1. This product is not a toy and carries certain risks. It is not intended for non-professionals under 18 years of age.
2. Keep this product out of reach of children, and do not let children touch it without supervision.
3. Do not operate the product while under the influence of alcohol, fatigue, or other impaired mental states.
4. Do not use the aircraft to carry any illegal or dangerous items.
5. Do not operate the aircraft in no-fly zones or near sensitive buildings and facilities as regulated by law. These may include airports, borders, major cities, power plants, hydroelectric plants, prisons, major roads, government buildings, and military facilities.
6. Before operating the remote controller channel calibration, firmware update, or parameter setting, please turn off the aircraft power or remove the propellers to prevent the motors from rotating at high speed.
7. Do not fly in airspaces with altitude restrictions.
8. Do not use this product for any unauthorized surveillance activities or to infringe on others' privacy rights.
9. Do not use this product to infringe on others' property rights.
10. Do not operate the aircraft in densely populated areas, including but not limited to city centers, sports stadiums, exhibitions, concerts, stations, and temporary event zones. If you need to film in such areas, please obtain permission from the relevant authorities before flying.

Disclaimer

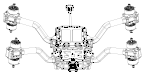
1. This product is a multi-rotor aircraft, equipped with powerful motors and sharp propellers, has fast flight speed, but also has a certain hazard when operating, need to be used with caution.
2. This product is not a toy and requires some basic knowledge to control, so please pay special attention to the warnings and cautions before you start using it. iFlight reserves the right to update this Disclaimer.
3. By using this product, you are deemed to have understood, acknowledged and accepted all of the terms and conditions of this document and you undertake to be responsible for your own actions and all consequences arising therefrom. You undertake to use this product only for legitimate purposes and agree to all of the terms and conditions of this document and any related policies or guidelines that iFlight may establish.
4. The user is responsible for any legal consequences resulting from the use of this product.
5. The user assumes full responsibility for any consequences resulting from unauthorized modifications or part replacements.
6. The user assumes full responsibility for any personal injury or property loss caused by human error, damage due to human factors, personal operational errors, or natural disasters.

II. Overview

1. Description

Introducing Taurus X8 Pro Max, a revolutionary FPV cinelifter that takes professional filmmaking to new heights. With its integrated design and aerodynamic low-wind-resistance structure, Taurus X8 Pro Max features remarkable power and flight time, providing a professional and stable flying equipment for filmmakers. With a payload capacity of 3.5 kg, Taurus X8 Pro Max can easily support carrying heavy cameras such as the RED KOMODO, BMPCC, and ZCAM, even when paired with DJI RS series gimbals for dual operators, providing a reliable flight platform.

2. Packing List



Taurus X8 Pro Max x1



CW Propellers x4



CCW Propellers x4



Antennas x2



Battery Anti-slip Pads x4



Fullsend Batteries x2



Accessories Kit x1



Sticker x1



Safety Warning Card x1



Disclaimer x1



Landing Pad x1



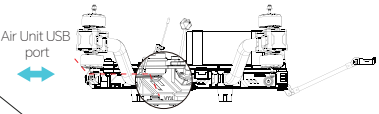
GPS Manual x1

III. FPV Goggles Binding Instruction

Note: Before activation, please make sure the propellers are removed. The propellers can only be installed after the aircraft binding and Betaflight[*1] settings are completed. If improper operation results in personal injury, you will be solely responsible for it. Please operate with caution to ensure safety.

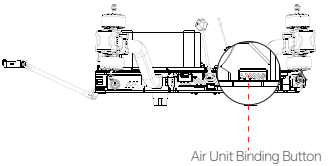
1. Air Unit and Goggles Activation: Power on Taurus X8 Pro Max , connect the corresponding device to the computer using the USB-C port and then run DJI Assistant 2 (Consumer Drones Series)[*2] for activation and firmware upgrade. Please refer to the DJI-O3-Air -Unit User Manual for details.

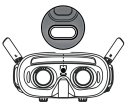




2. Aircraft and Goggles Binding (Make sure that all devices have been updated to the latest firmware versions before binding.)

①Power on the aircraft and the goggles separately.
②Press the bind button of the air unit, the binding status indicator of the air unit blinks red.
③Press the bind button of the goggles and the goggles start to beep continually.
④Make sure the distance between the air unit and the goggles is within 0.5 m. Once binding is successful, the binding status indicator of the air unit turns solid green. The goggles stop beeping and the video transmission can be displayed normally.




Goggles Bind Button


Goggles Status indicator light

[Note]

◆ DO NOT use the air unit for an extended period in high-temperature environments with poor ventilation. This may lead to overheating and loss of image transmission.

◆ When the air unit is powered on, it automatically enters the low-power state to avoid overheating, which negatively affects image transmission performance. Once the aircraft takes off or the recording starts, the air unit automatically exits the low-power state and resumes normal image transmission performance. Make sure to take off as soon as possible or the air unit is well ventilated.

◆ DO NOT connect the power cable with the power GND cable directly or plug or unplug the cables after the air unit is powered on. Otherwise, the equipment may be damaged.

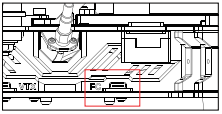
◆ Make sure you fully understand and abide by local laws and regulations before using this product.

◆ This product is not intended for children.

IV. Remote Controller Binding Instruction

1.ELRS Protocal: Transmitter Binding Methods

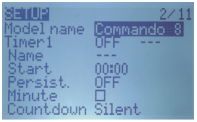
ELRS Binding Method1: Traditional Binding Procedure (Example: iFlight ExpressLRS 900TX)



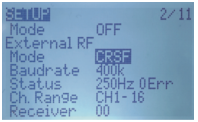
Plug and unplug the USB port for three times: Power on and off the aircraft for 3 times , plug and unplug the USB port for 3 times to supply power to the receiver when the aircraft is power off, the blue LED will start to double flash continuously. Bind mode is active.



1. After powerlong press the Model setup to enter MODELSEL



2. Press Next Page to enter the SETUP page.



3. Scroll down to External RF and select CRSF.



4. Press System Settings to TOOLS page and select the ExpressLRS. Press to enter.



5. Scroll down to 【Bind】, press Enter to enter the binding mode Bind mode active.



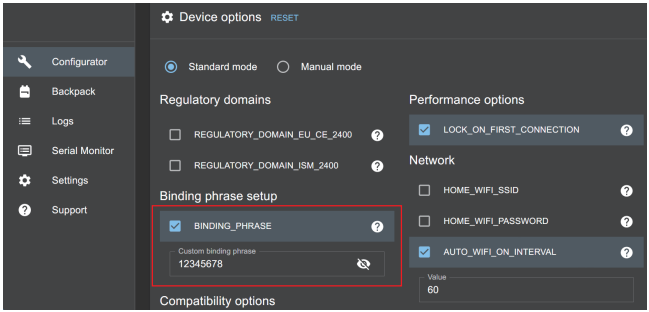
6. After binding, the blue LED on the receiver will turn to solid blue. Binding is successful.

[Note]

1. Be quick with this process and set the receiver in binding mode first.
2. The distance between the receiver and transmitter should be more than 1m during the process.
3. After the binding process is completed, it is recommended to re-power receiver and transmitter.
4. The receiver firmware version should be consistent with the TX module firmware version. If you can't bind your hardware, please try updating to the latest firmware.
5. If you can not bind your equipment, please try to reboot the receiver and transmitter.

ELRS Binding Method 2: Using Custom Binding Phrase

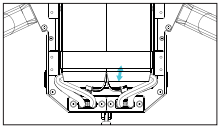
When flashing the latest ELRS firmware for receiver and TX module, just set a unique custom binding phrase to automatically bind all your hardware. Do not set a too simple binding phrase, otherwise other pilot's devices with the same binding phrase might link up as well.



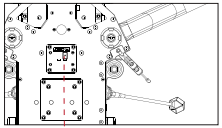
Please refer to the Quick Start Guide on the ExpressLRS official website for specific procedures.

2. TBS Protocal: Transmitter Binding Method

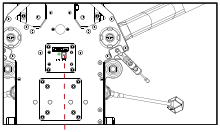
Power on the aircraft and after the aircraft completes self-check, use tweezers to short press the TBS Crossfire receiver BOOT button. If the green light flashes, it means binding mode activates. Enter the TBS Crossfire transmitter or TX module settings page, scroll down to [BIND], press the button to enter. After successful binding, the TBS Crossfire receiver indicator light will turn solid green.



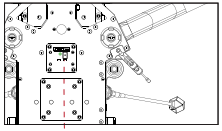
Connect battery/power supply



Receiver slot is locationed at the bottom of the aircraft

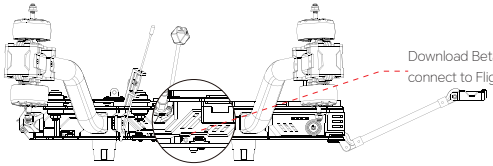


The receiver's green light is flashing indicating binding mode is active



After successful binding, the receiver indicator light will turn solid green

V. Betaflight Setup

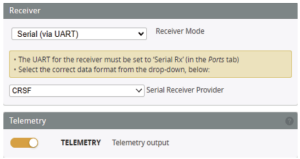


Download Betaflight configuration[1] and connect to Flight Controller USB

a. Receiver Port/Protocol

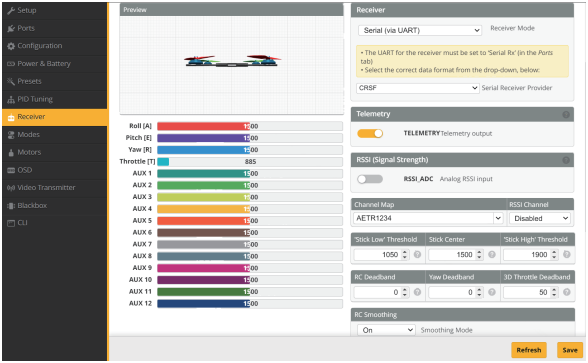
ELRS/TBS Receiver: CRSF

Identifier	Configuration/MSP	Serial Rx	Telemetry Output
USB VCP	115200		Disabled AUTO
UART1	115200		Disabled AUTO
UART2	115200		Disabled AUTO
UART3	115200		Disabled AUTO
UART4	115200		Disabled AUTO
UART5	115200		Disabled AUTO
UART6	115200		Disabled AUTO



b. Channel Map Setting

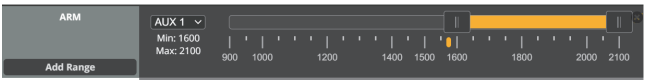
Receiver Channel Map Setting: "AETR1234" Mode 1 Throttle, "TAER1234" Mode 2 Throttle



c. Mode Switch

The default mode is Angle, and customers can also switch to other modes.

ARM: ARM/DISARM channel switch for arm and disarm the aircraft, default factory setting is AUX1, low range for disarm, high range for arm, When the icon is lit, it indicates arm. A grey icon indicates disarm.

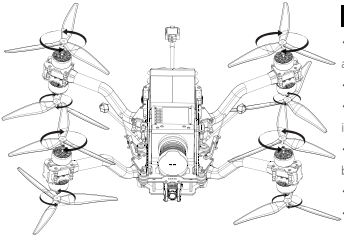


ANGLE: Angle channel switch is used to turn on the Angle flight mode, the default factory setting is AUX 2, this mode remains on throughout the flight. When the icon is lit, Angle mode is active. A grey icon indicates that angle mode is off.



VI. Propellers Installation Diagram

Identify CW & CCW propellers and install them correctly on the aircraft. CW Propellers without the letter "R" , CCW Propellers with the letter "R".



⚠ Note

◆Before installing the propellers, please make sure the aircraft is powered off.

◆Handle propellers carefully to avoid accidental cuts.

◆Propellers are consumables; inspect and replace them if worn, damaged, or deformed.

◆Ensure propellers are installed correctly and securely before each flight.

◆Avoid close contact with rotating propellers and motors.

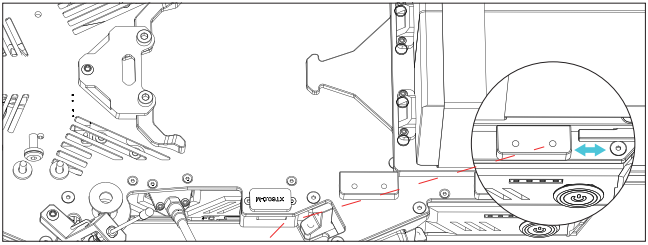
◆This product is not intended for children.

VII. Pre-Flight Check

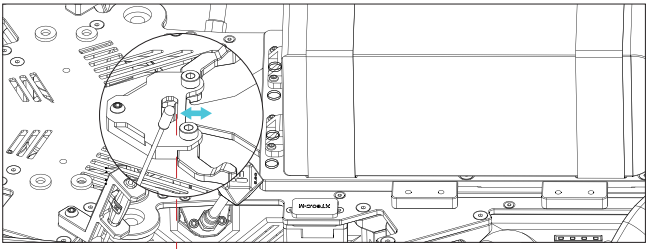
1. Make sure the aircraft batteries are fully charged and there is no obvious damage, deformation or leakage in the battery.
2. Make sure the battery model is compatible with the aircraft and the voltage specification is correct (e.g. for 8S battery, it should be about 33.6V). The voltage difference between any two battery cells shouldn't exceed 0.1V.
3. Make sure the aircraft battery is properly connected and secure, there is no looseness, dirt or damage.
4. Make sure the transmitter is powered on and linked to the aircraft, and make sure the receiver indicator light flashes normally or shows connected.
5. Make sure the motor rotates in the right direction, take off the propellers and connect the aircraft to Betaflight Configurator, then push the throttle to confirm the rotation on the motor page.
6. Make sure propellers are in good condition and mounted onto the motors correctly and securely.
7. Make sure the takeoff area is clear of obstacles, away from crowds and valuable items, to prevent any accidental losses from losing control.
8. If it is the first flight or after a major upgrade, it is recommended to conduct a ground test first to make sure all functions are normal before flying in the air. These preventive inspections can effectively reduce flight accidents caused by negligence and ensure the safe operation of FPV drones.

VIII. Quick Release Battery System Instruction

Diagram showing how to attach the battery quick release plate to the aircraft.



Align the quick release plate with the slot on the frame and gently push it into the rail.



Insert the front section of the quick release plate into the locking structure to complete the assembly.

Installation Instructions:

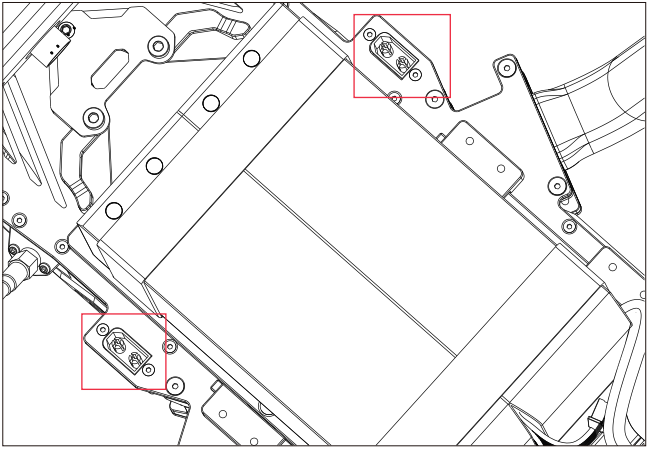
1. Place the two batteries onto the battery quick release plate, with the non-output end of the batteries facing forward against the TPU printed parts.
2. Secure the batteries tightly with two battery straps.
3. Align battery quick release plate groove with aircraft's slot, and gently push it into the slide rail.
4. Push the front latch of the quick release plate into the locking structure. When you hear a "click"the assembly is complete.

Note: Before inserting the battery, please check the battery voltage. The voltage difference between any two cells should not exceed 0.1V.

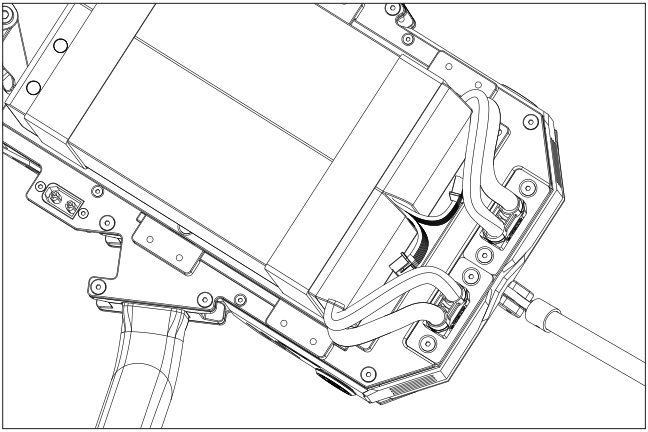
IX. Dual Power Switch Instruction

1. Dual Power Switch Function: The dual power switch separates the power switch for the aircraft and the power switch for the cinema camera, allowing independent power supply to the aircraft and the cinema camera. This design is beneficial for turning off the aircraft's power while viewing or setting up the cinema camera, preventing the internal equipment of the aircraft from overheating and avoiding potential safety hazards.
2. Camera Power Switch Usage Steps:

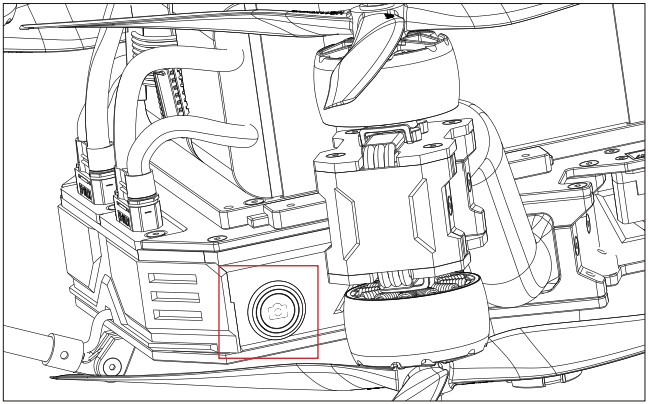
(1) First, plug in the XT60 power cable to the handheld gimbal or cinema camera.



(2) Connect the battery power cable to the main power port(XT90).

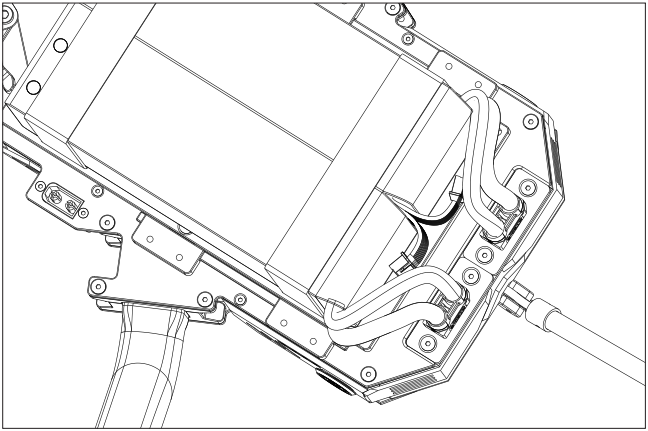


(3) Find the camera BEC power switch on the right side of the aircraft's tail. Short press once, then long press for 3 seconds to turn the power on or off.

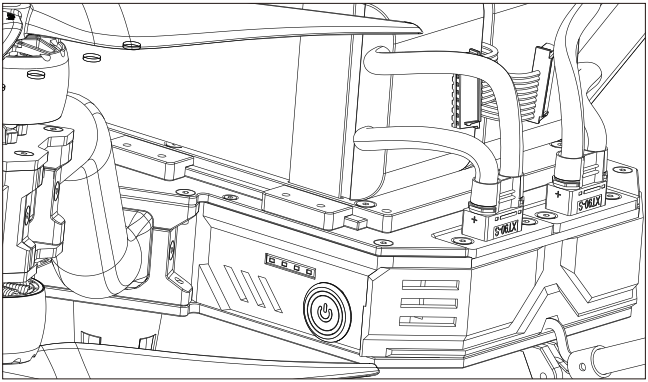


3. ESC Power Switch Usage Steps:

(1) Connect the battery power cable to the main power port(XT90).



(2) Find the ESC power switch on the left side of the aircraft's tail. Short press once, then long press for 3 seconds to turn the power on or off (battery power indicator next to the power switch, Four lights on indicate sufficient battery power).



X. Takeoff/Landing Procedure

Takeoff Procedure:

Start by pushing the throttle to the lowest position, then gradually increase it to lift the aircraft approximately 10-20 cm off the ground. Once the aircraft's attitude is stable, throttle down and disarm the remote controller. Put on FPV goggles or face the monitor (such as a handheld monitor), arm the remote controller and slowly increase the throttle to smoothly ascend.

Landing Procedures:

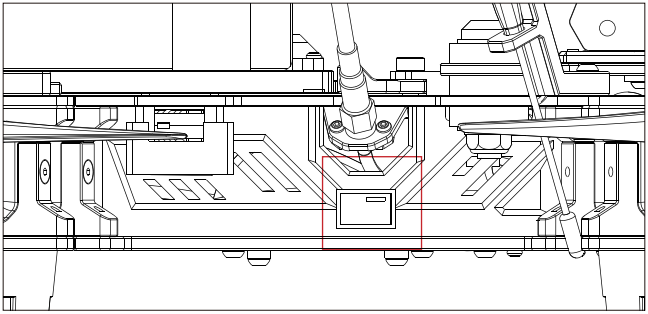
1. Decrease altitude, before landing, gradually lower the aircraft to an appropriate altitude, maintaining a stable flight speed and attitude.
2. Approach landing spot, control the aircraft to slowly approach the pre-selected landing area, preferably using a gliding approach to better control the distance.
3. Reduce throttle, slowly decrease throttle output to allow the aircraft to land slowly.
4. Disarm the aircraft when it touches the ground or is 5-10 cm away from the ground, be careful to avoid hard landings that could cause damage.
5. After the drone lands, it can be powered off by operating the ESC Power Switch.

Precautions:

· Monitor battery level, You can check the remaining battery power by checking the OSD information in the FPV goggles or the monitor during flight. You need to judge the remaining flight time and leave enough redundancy for safe landing. When the voltage of a single battery cell approaches 3.7v, you need to pay attention to return and land. Over-discharge will cause irreversible damage to the battery.
· Observe surroundings, Before landing, double-check the surrounding environment for safety, ensuring no people or animals are in the landing area.
· Disconnect battery, After landing, it is important to first power off the aircraft to avoid accidentally triggering the remote control switch to arm it again, thereby avoiding accidents and personal injury.

XI. Landing Light

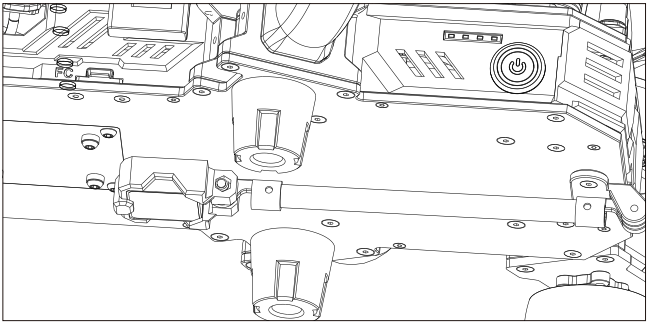
The landing light switch is located on the right side of the aircraft's midsection.



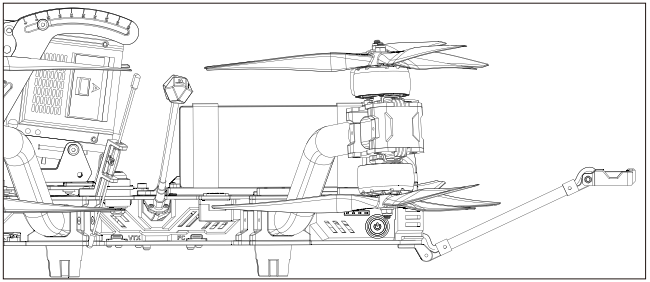
XII. GPS Rescue Mode

1. The GPS mount can be unfolded and folded as shown in the diagram.

Folded



Unfolded



When setting up GPS, please connect the aircraft battery to ensure that GPS can be set up properly in Betaflight[1]

1. The GPS is preset on this aircraft. Refer to the [GPS Rescue Mode Precautions]for settings.
2. Rescue Operation:
① If GPS rescue mode is triggered automatically, take control by moving either stick, not by toggling the GPS rescue switch.
② When the drone returns due to the manual activation of the GPS rescue switch and comes back within the controllable range, the rescue switch must be operated again to regain control.

If the GPS rescue mode is automatically triggered and the remote controller successfully takes over, manually toggling the switch will reactivate GPS rescue mode. If the rescue conditions are not met, this will cause the drone to disarm and fall.

Warning: Read all precautions in the [GPS Rescue Mode Precautions] before enabling GPS rescue mode and operating the aircraft.

XIII. Troubleshooting Guide

1. Issue:

GPS Rescue Mode not Triggering.

Possible reason:

Flight distance has not exceeded 100 meters.

Solution:

Fly in a straight line for at least 100 meters past your descent distance, make sure the home arrow is pointing at your direction to confirm GPS functionality.

2. Issue:

Aircraft Rolls Over Immediately on Takeoff or Cannot Take Off.

Possible reason:

Propellers installed incorrectly.

Solution:

Ensure that the propeller direction matches the motor direction.

3. Issue:

Unusual Noise from Motors After Takeoff.

Possible reason:

① Propellers are loose. ② Propeller shaft is damaged

Solution:

① Tighten the propellers. ② Replace the propeller.

4. Issue:

The aircraft does not respond to the remote control stick input.

Possible reason:

① Receiver protocol settings do not match the actual configuration.

② Mode settings conflict causing failure to arm.

③ Receiver channel presets do not match the transmitter channel presets.

④ Aircraft is at a tilted angle.

⑤ Throttle channel is too high.

⑥ GPS rescue mode configured but GPS the acquisition unsuccessful or insufficient satellites.

Solution:

① Check if the receiver protocol settings are consistent with the serial port to which the receiver is connected.

② Check if there are any conflicts or duplicates in the Betaflight Configurator mode settings.

③ Verify and configure receiver channel map setting to match the transmitter channel map setting.

④ Check the maximum arming angle setting on the Betaflight Configurator page.

⑤ Move the throttle stick to the lowest position or verify if the channel number is correct.

⑥ Wait for GPS fix or disable the GPS rescue mode.

Note:

*1: Betaflight is the flight controller software (firmware) used to configure your aircraft. Please download at this link: https://betaflight.com/download.

*2: DJI Assistant 2 (Consumer Drones Series) supports the consumer drones series products activation and firmware upgrade. Please download at this link: https://www.dji.com/av-ata/downloads.

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