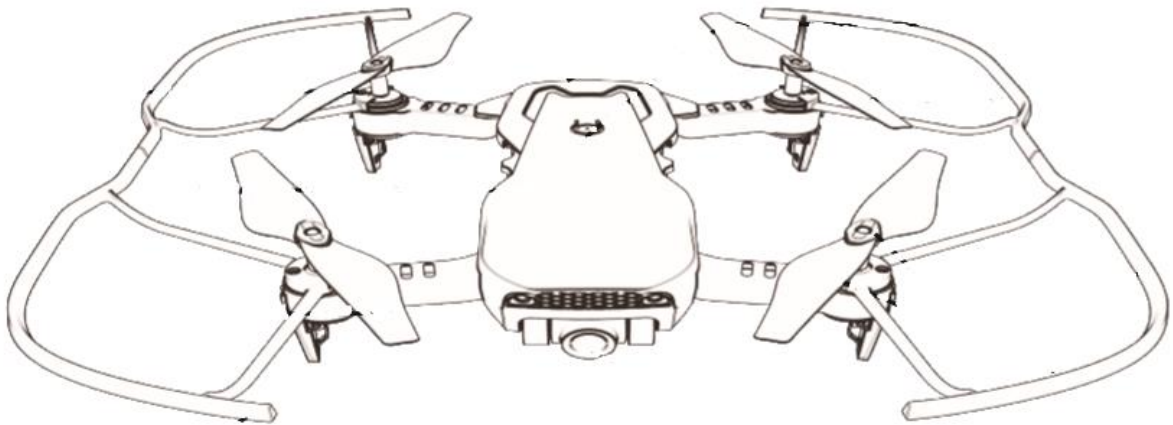




## USER MANUAL



# MAVERICK AIR

PFBD200

Thank you for choosing ProFlight.

Please read this user manual before using this drone  
and keep it safe for future reference.

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## SAFETY WARNINGS

Read the entire instruction manual and familiarise yourself with the product and all its features before operating. Failure to operate the product correctly can result in damage to the product, surroundings or even serious injury. This product is not a toy and must be operated with caution and common sense. It requires some basic mechanical knowledge. This product is not intended for use by children without direct adult supervision. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in this manual prior to assembly, setup or use in order to operate correctly and avoid damage or serious injury.

- Not intended for use by children under 14 years of age. This is not a toy.
- Always operate your drone in open spaces away from vehicles, buildings, traffic and people.
- Always keep out of reach of children.
- Avoid exposure to water as moisture can cause damage to the electronics.
- Never operate your drone with low transmitter batteries.

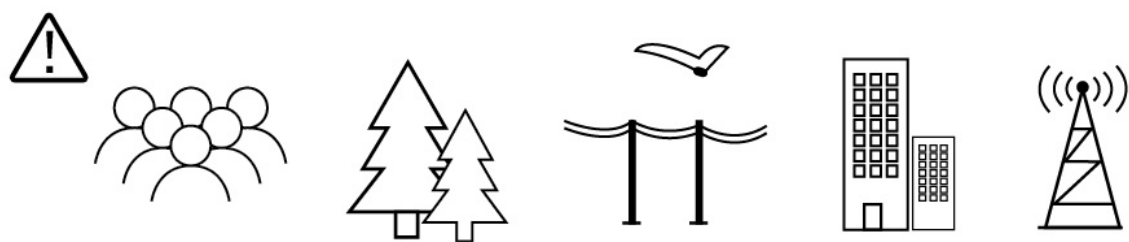
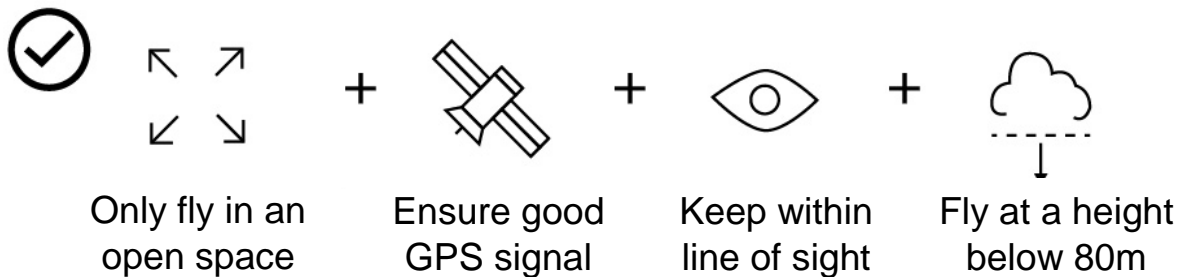


The battery charger included with the drone has been designed to safely charge the Li-Po battery.

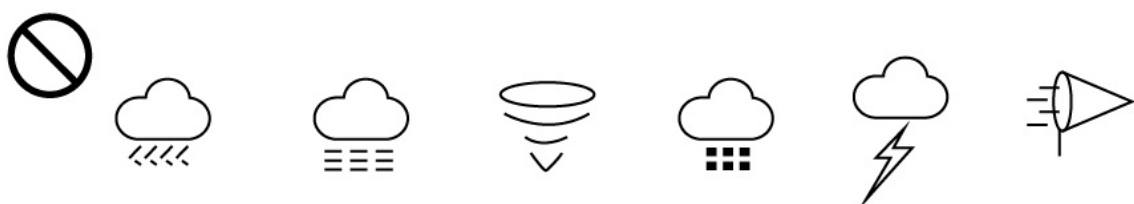
- Mishandling of Li-Po batteries can result in a fire, personal injury, and /or property damage.
- By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Do not store battery or drone in a car or direct sunlight. If stored in a hot environment, the battery can be damaged or even catch fire.

- Never use any other type of battery charger other than the one supplied with the drone. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
- Never exceed the recommended charge rate.
- When a Li-Po battery is discharged below 3.7V, the battery may be damaged and may no longer accept a charge. The drone will automatically land and become inactive when the battery reaches this level, this is to protect the battery.

## SAFETY PRECAUTIONS



When flying ensure that the drone is kept away from other people, trees, electric wires, buildings, airports or signal transmitting tower etc.



Ensure that the weather conditions are suitable for flying. Do not fly the drone during snow, rain, fog, thunder or in windy conditions.

DO NOT touch the rotating blades during operation. They can cause injury or damage to property

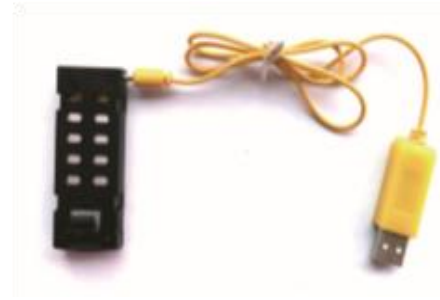
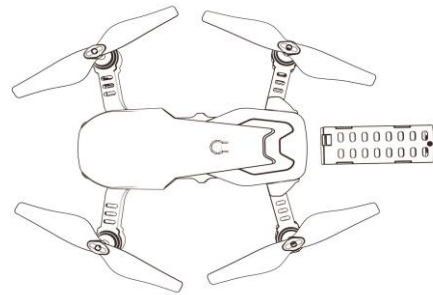
No-fly zones must be observed. It is the user's responsibility to ensure that the drone is operated legally and safely.

## BATTERY CHARGING

Use only the supplied USB Li-Po charger to charge your battery.

Remove the battery from the battery compartment on the rear of the aircraft. Press down the release button and slide the battery out.

Plug the charger into a USB socket before attaching the battery. When the battery is charging the LED on the charger will be off. When the battery is fully charged the LED will be illuminated. Charging should take around 120-150 minutes. **DO NOT** leave the battery unattended whilst charging.



### WARNINGS:

- **DO NOT** use other USB cables. They may lead to incorrect charging, and could cause damage or present a safety risk.
- When reinserting the battery, ensure that the triangle is on the top and make sure it is secure and fully clicks into place.

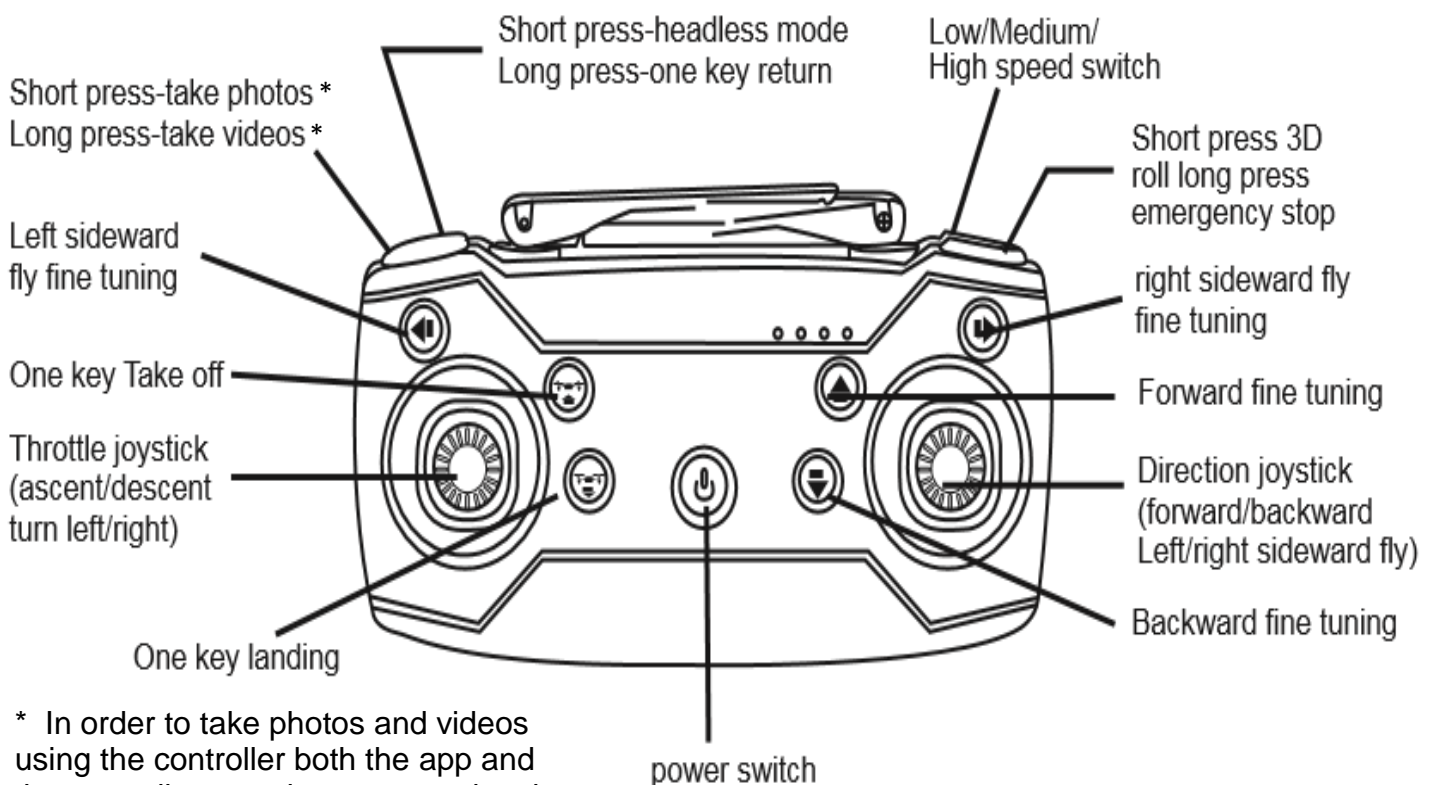
## PREPARING FOR FIRST FLIGHT

1. Fully read and understand the safety warnings, and precautions.
2. Make sure both the transmitter and aircraft batteries are sufficiently charged.
3. Find a suitable place to fly the aircraft, away from people, buildings and vehicles.
4. Make sure the throttle stick is centred before turning on the transmitter.

## INSTALLING THE CONTROLLER BATTERIES

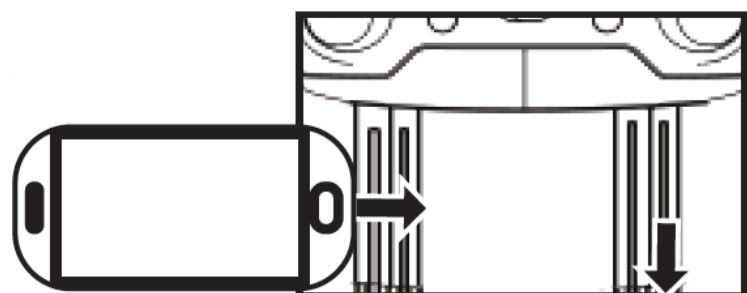
Unclip the battery cover from the rear of the controller and insert 3 x AA batteries, making sure the correct polarity is followed. Once the batteries are correctly installed, the battery cover must be re-fitted.

## CONTROLLER DIAGRAM

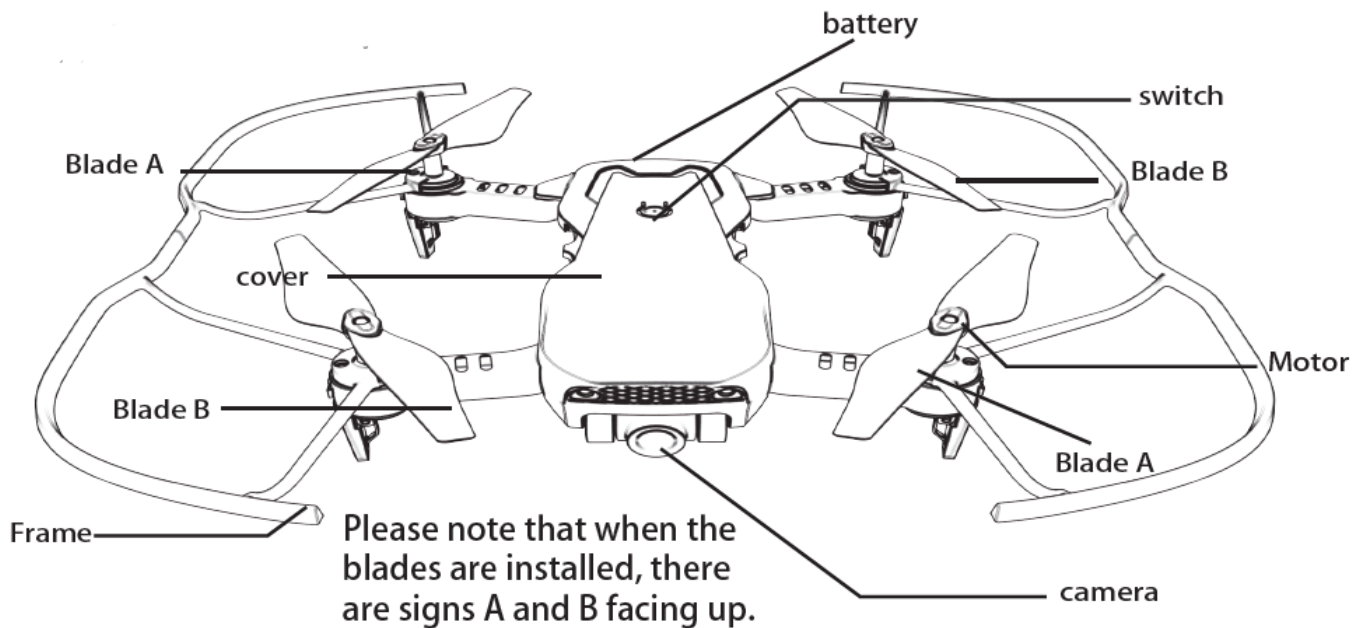


\* In order to take photos and videos using the controller both the app and the controller must be connected to the drone. The buttons on the controller can then be used to start recording / take a picture within the app. They are stored to the phone

## MOBILE PHONE HOLDER

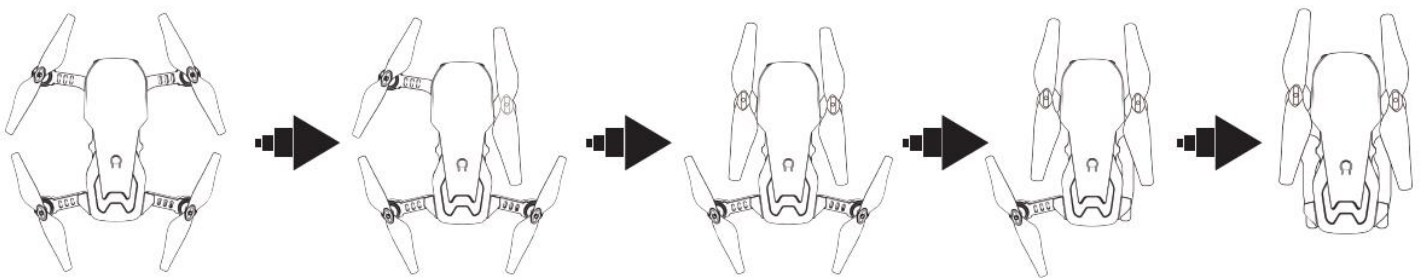


## DRONE DIAGRAM



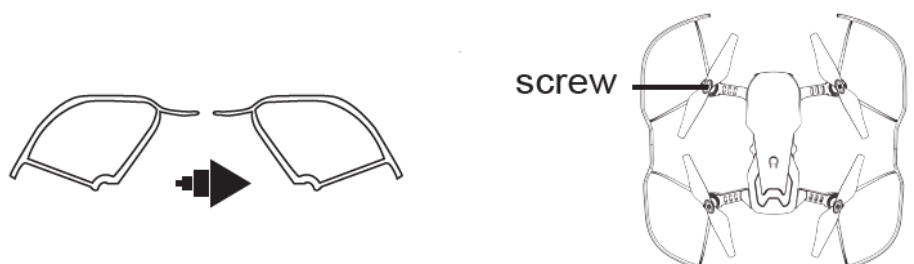
## FOLDING THE ARMS

1. Fold the front arms backwards until they sit close to the body of the drone.
2. Rotate the rear arm down 180 degrees until close to the body  
DO NOT FORCE THE ARMS IN A DIRECTION DIFFERENT TO ABOVE,  
AS THIS MAY RESULT IN DAMAGE.



## FITTING THE BLADE GUARDS

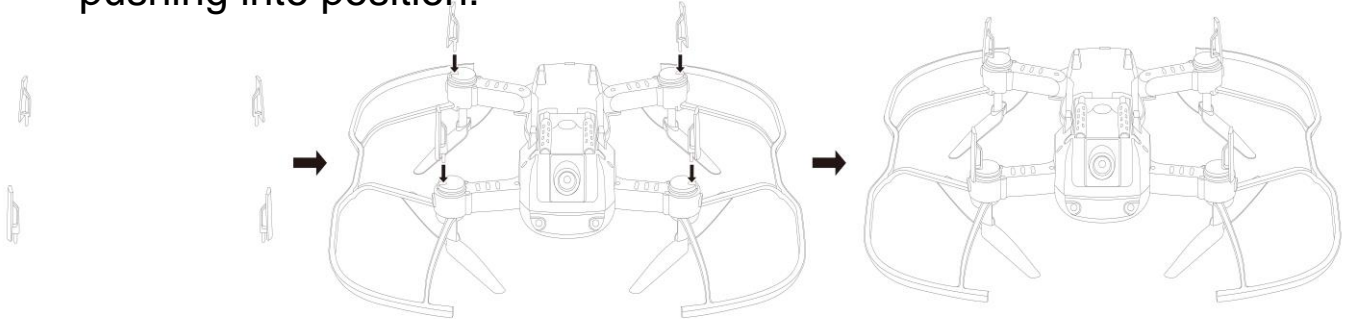
Press the blade guards into position, before fixing into position with a screw.





## ATTACHING THE LANDING GEAR

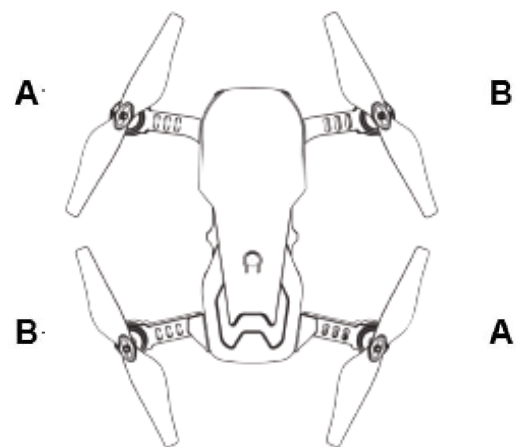
The landing gear is attached to the base of each of the four motors as shown in the diagram below. They are fixed by pushing into position.



## REPLACEMENT OF THE PROPELLERS

Should one of the fitted propellers become damaged, it can be replaced, by removing the screw from the side of the propeller before sliding the propeller off the motor shaft. Refitting is the reversal of removal.

It is important for the correct blade to be placed on the correct motor or the aircraft will not fly correctly. Each blade is marked with an A or B on the top to indicate which motor it corresponds to.



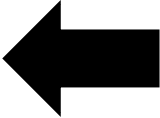
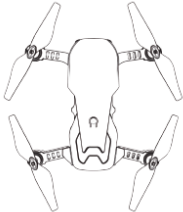
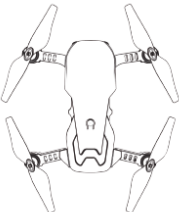
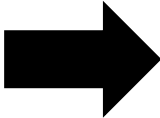
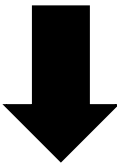
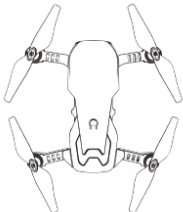
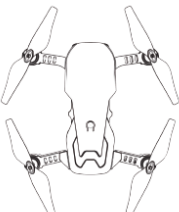
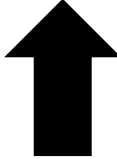
## BINDING OF CONTROLLER & RECEIVER

1. Place the aircraft on a flat surface in an open area and insert the battery in before turning on. The lights on the underside of the drone will flash.
2. Press the left joystick back to its furthest position and hold in place.
3. Turn on the controller.
4. Move the left joystick forward to its furthest position, until the controller beeps.
5. Press the left joystick back again until the controller beeps..



## FLIGHT ADJUSTMENT

When you lift the Drone into the air, if the aircraft drifts in a particular direction you can trim the controls using the trim buttons. Select the trim key opposite the direction of drift. Trimming is always needed before your first flight.

		If your drone banks to the Left, keep pressing the “Right Sideward fly fine tuning” button until the drone stops banking
		If your drone banks to the Right, keep pressing the “Left Sideward fly fine tuning” button until the drone stops banking
		If your drone flies backwards, keep pressing the “Forward fine tuning” button until the drone stops moving
		If your drone flies forwards, keep pressing the “Backward fine tuning” button until the drone stops moving

## Auto Trim

To recover the drone back to the original factory settings for trim. Press and hold the left joystick to the bottom left corner and the right joystick to the bottom right corner for a few seconds. The lights on the drone will start to flash to confirm this has completed.

# TAKE OFF

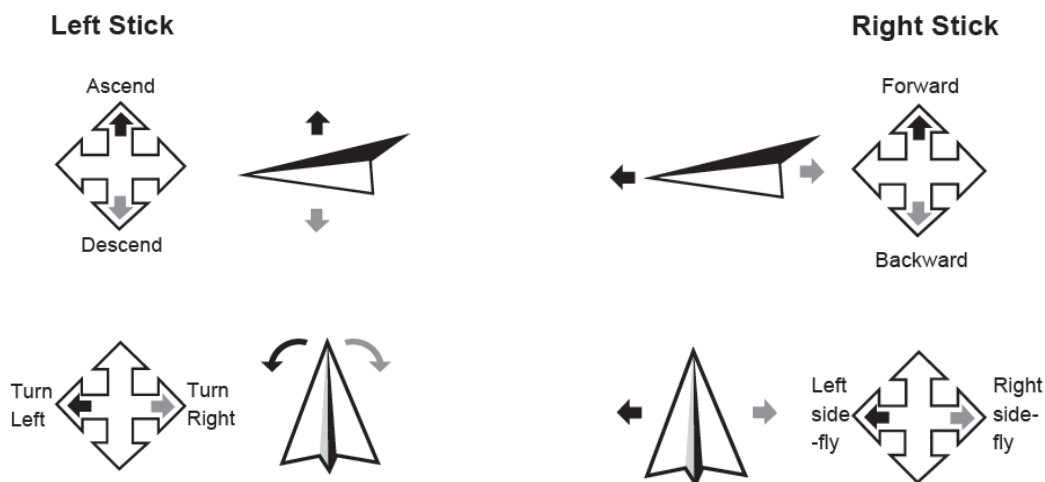
There are two options for take-off. It can be triggered by using the take-off button which will result in the drone hovering at a set height above the ground. Alternatively push the left joystick to the bottom right corner, and the right joystick to the bottom left corner to engage the motors, before pushing the left joystick forward to take off.

## FLIGHT INSTRUCTIONS

Before your first flight make sure you are familiar with the controls of the aircraft.

Left Joystick – Throttle & Rudder

Right Joystick – Elevator & Aileron



**Note:** Should the aircraft be left for a while with no control inputs it will go to sleep, simply press and hold the take-off/land button to reactivate the aircraft.

# AIRCRAFT FUNCTIONS AND FEATURES

## HEADLESS MODE

The aircraft can be made to fly in Headless mode by pressing the headless flight button. This will make the aircraft fly without a front or rear. It will fly in the orientation of the pilot. If you move the right joystick right, the aircraft will fly right. Move the joystick left and it will fly left. Move the joystick forwards and the aircraft will fly away from you and pull it back to make it fly towards you. It does not matter which direction the drone is facing in headless mode.

## SPEED CONTROL

The drone has 3 speed settings. It will initially be set at 30%. By pressing the speed button the speed of the drone can be adjusted. The controller will bleep to indicate the speed it is set at after the button has been pressed.

30% - 1 Bleep,      60% - 2 Bleeps      100% - 3 Bleeps

## AUTO RETURN

The aircraft can be made to return in a fixed direction by pressing and holding the return button. When the aircraft is turned on it will remember the direction it is oriented and upon activation of the Smart Return feature it will fly back in that direction.

**NOTE:** Be careful to orientate the aircraft with the rear tail facing towards you if you want the aircraft to fly back towards you using the smart return mode. You can retake full control of the aircraft at any time by moving the control sticks. The aircraft will not return to where it started, it will simply move in the direction it was orientated when turned on.

## 3D ROLL

Before attempting a roll, please make sure the drone is at least 2 meters above the floor and 2 metres below a ceiling.

Press the 3D roll button on the controller, then press the right lever in the direction you want the drone to roll. Due to the design of the drone it can only roll left or right and cannot roll forwards or backwards. For the best performance use this within the first 5 minutes of flight.

## APP

The camera App can be downloaded by scanning the below QR code or search for HT-UFO in your App Store:



Android



iOS

To connect the aircraft to your mobile device: Turn on the aircraft, while ensuring your controller is turned off. Go to the settings on your mobile device. Open the WiFi settings and search for a device starting with “HTS-\*\*\*\*”. Select it and wait for it to connect. Open the HT-UFO App and press the “Main Screen” button at the bottom of the screen. This will lead you to the control screen and show the view of the camera.

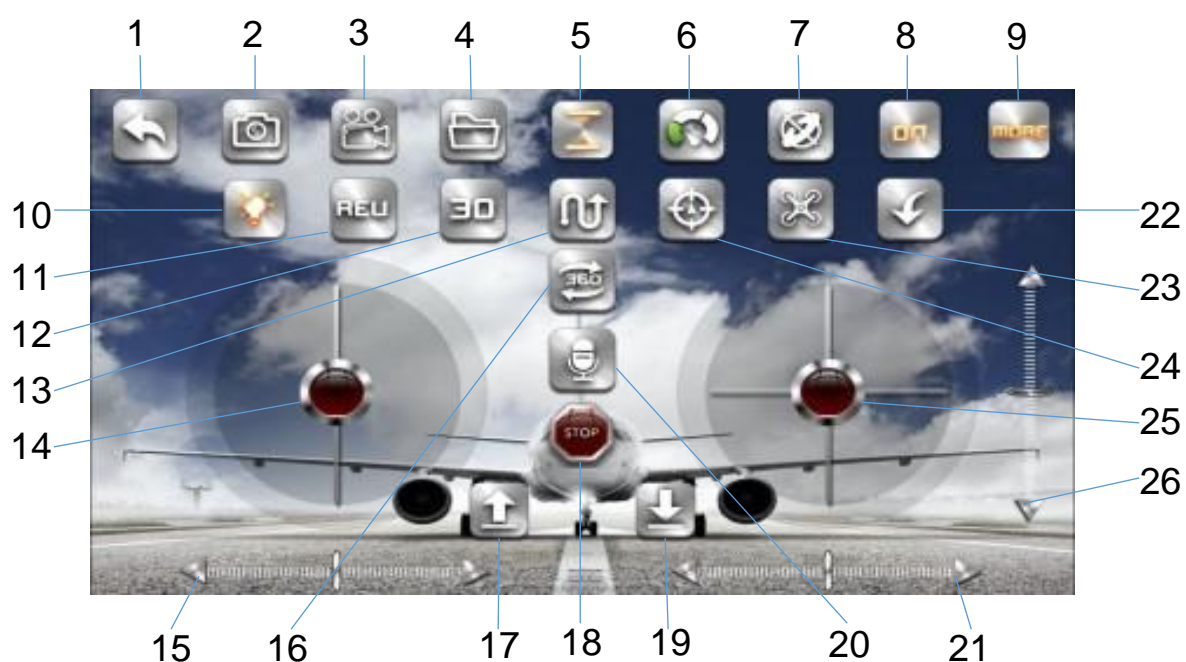


Setup Instructions

Main Screen

Settings

## MAIN SCREEN



1	Return to opening screen	14	Left Joystick
2	Take photo	15	Right and left turn trim
3	Record video	16	3D Roll
4	Photo and video playback	17	Take Off
5	Altitude hold	18	Emergency stop
6	Change speed (Low med or high)	19	Landing
7	Gravity sensor mode	20	Microphone
8	Show / hide control interface	21	Right and left trim
9	Show extra control buttons	22	One button Return
10	Lighting control	23	Headless Mode
11	Reverse camera	24	Calibrate Gyro
12	3D view	25	Right Joystick
13	Flight path	26	Forwards and Backwards Trim

Please note: The information above relates to the operation of the app. Some of the functions may not be compatible with your drone.

## WARNINGS:

- Always calibrate the drone before controlling using the APP.
- Ensure you understand the operating instructions provided before attempting to fly.
- Android device operating system must be 5.0 or higher.
- If you experience problems with the image, the drone is either too far away or there is too much interference in the area. Try moving to a place with less interference.
- Ensure all safety warnings in the front of the manual are adhered to.

# TROUBLESHOOTING

	Problem	Cause	Solution
1	The lights on the aircraft are flashing but it does not respond to the control	1. The aircraft and transmitter are not connected. 2. Insufficient battery power.	1. Repeat the connection procedure. 2. Recharge the battery.
2	The aircraft blades turn but it will not take off	1. Insufficient battery power. 2. The blades are distorted. 3. Take off button not pressed.	1. Recharge the battery. 2. Replace the blades. 3. Press the take off button.
3	The aircraft shakes in flight	The blades are damaged/distorted	Replace the blades.
4	The aircraft won't fly using the App.	1. Aircraft not connected to App. 2. Connection not done in correct order. 3. Main controller is turned on.	1. Reconnect using the instructions on page 14 2. Reconnect using the instructions on page 14 3. Aircraft can not fly on App when main controller is turned on. Turn off controller, reset aircraft, app and WiFi to reconnect to App
5	Camera not working in App	1. Aircraft not connected to App.	1. Reconnect using the instructions on page 14



**Disposal:** Do not dispose this product as unsorted municipal waste. Collection of such waste must be handled separately as special treatment is necessary

Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to participating civic amenity sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please contact the local council for details of your local household waste recycling centres.

# UK Support

<http://www.proflightuk.co.uk/support/>

If you have been through the troubleshooting, and the unit is failing to operate, our service line can be contacted on: 0871 971 3141

Office hours: 9AM - 5PM Monday to Friday

[www.prolightuk.co.uk](http://www.prolightuk.co.uk)

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