



TRACER

User Manual



Model: PFBD97

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

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.



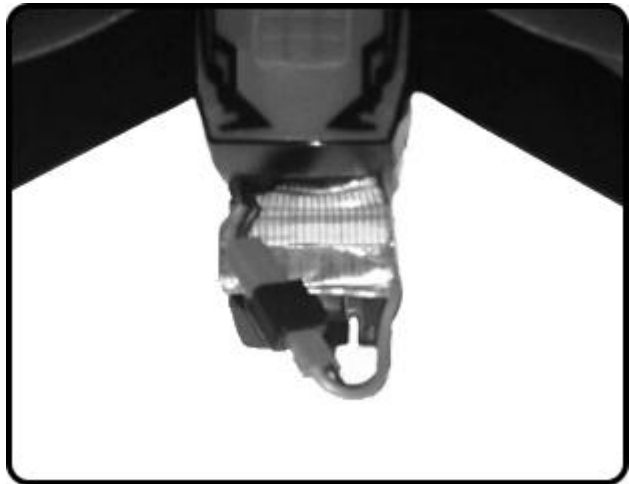
The battery charger included with the drone has been designed to safely charge the Li-Po battery.

- 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.

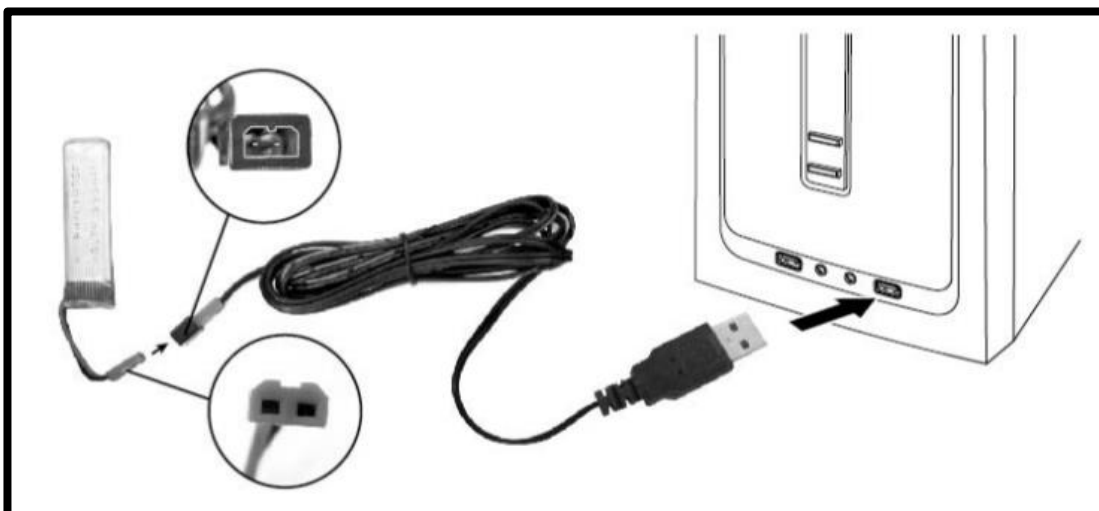
- Do not store battery or drone in a car or direct sunlight. If stored in a hot environment, the battery can be damaged or even catch fire.
- Never use any other type of battery charger other than the one supplied with the drone. Failure to charge the battery with a compatible charger may cause fire 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.

Battery Charging

Remove the battery from the battery compartment at the rear of the aircraft, by opening the flap, easing the wire and connector out of the space above the battery. Unplug the connector by pulling it apart, and slide the battery out of the drone.



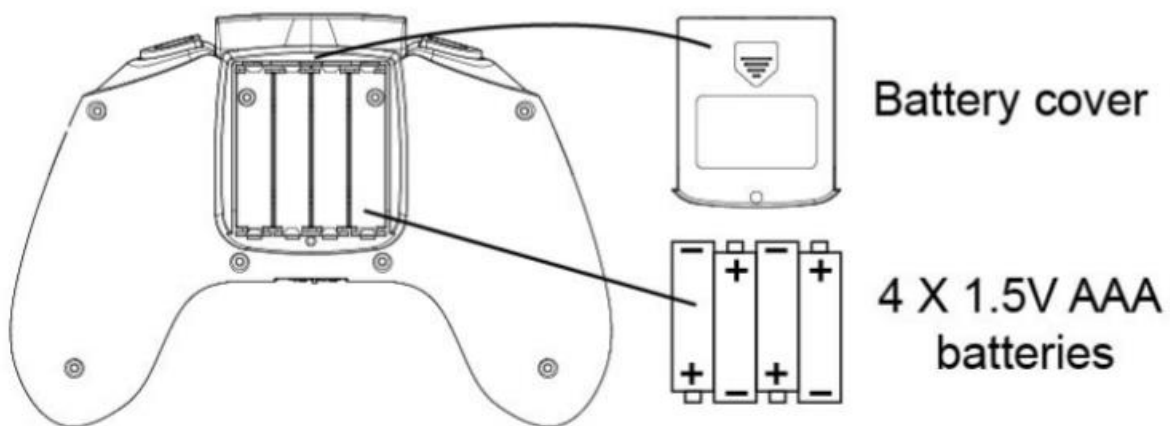
Plug the charger into the USB socket before connecting the battery. Use only the enclosed USB Li-Po charger to charge your battery.



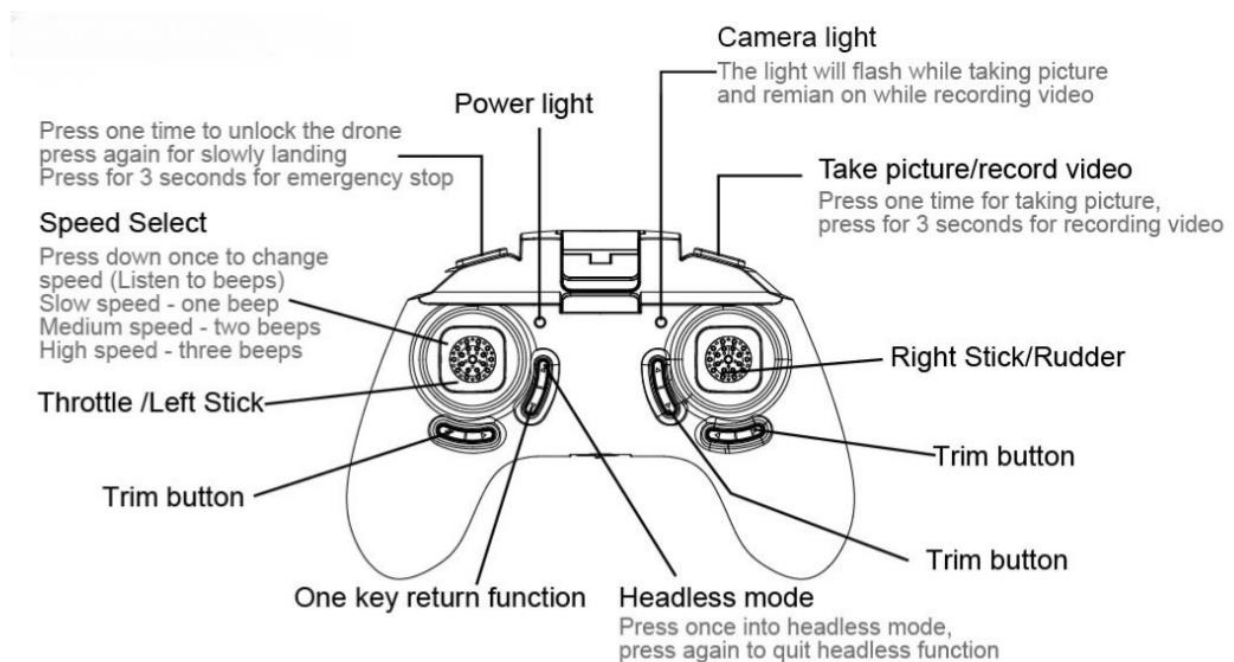
When the charger is plugged into the USB slot (with the battery attached), and the battery is charging, the LED will illuminate RED. When the battery is fully charged the light will go out. Charging should take around 90 minutes. DO NOT leave the battery unattended whilst charging.

Fitting the Controller Batteries

To install the batteries in the controller slide open the battery cover and insert 4 x 1.5V AAA batteries (Not Included), ensuring that they are inserted with the correct polarity. Do not mix different types or old and new batteries.

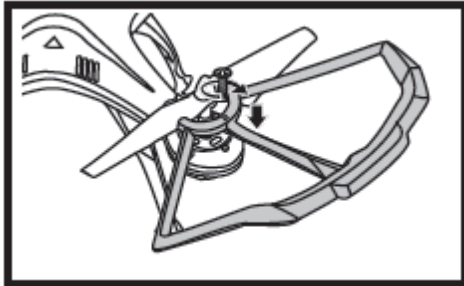


Transmitter Diagram



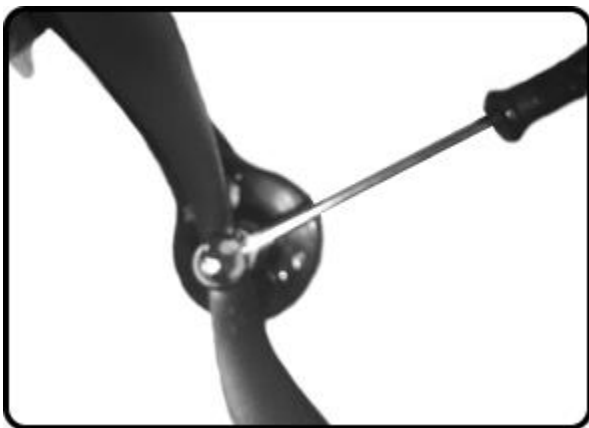
Fitting Propeller Guards

It is recommended that until you are fully comfortable with the controls and handling of the aircraft that you install the propeller guards. These will protect the propellers and aircraft in the event of a crash or hard landing.



Place the propeller guard over the outside of the propeller and attach by locating the 2 pins on the guard into the holes in the arm next to the propeller and pressing together.

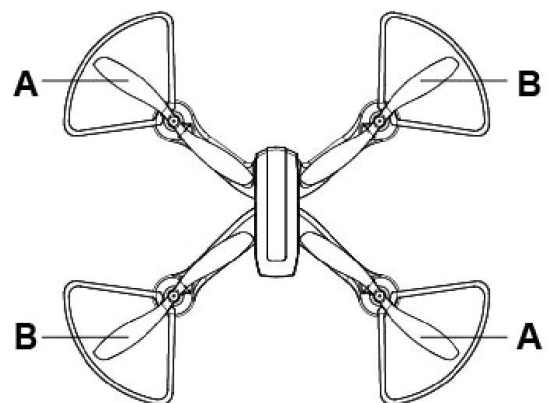
Propeller Installation



To replace a propeller untighten the screw and remove propeller.

Insert the new propeller over the motor spindle and tighten the screw on the side of the propeller.

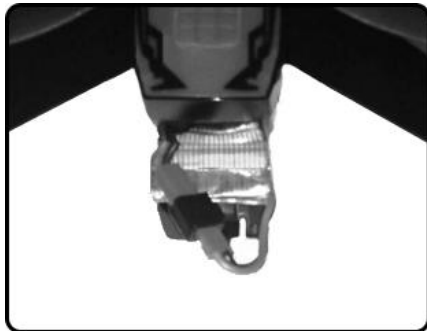
It is important for the correct blade to be placed on the correct motor or the aircraft will not fly correctly. Each blade is marked with an A or B to indicate which motor it corresponds to.



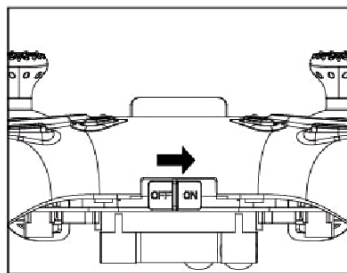
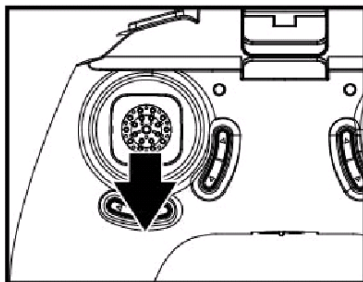
Preparing for First Flight

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

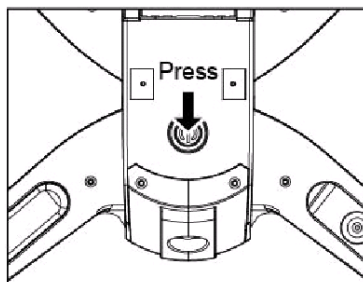
Binding of Radio Transmitter & Receiver



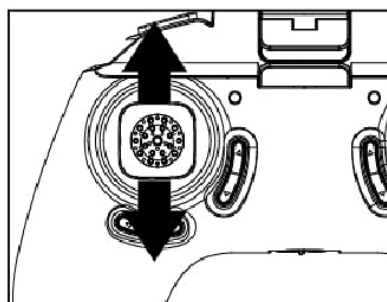
1. Place the aircraft on a flat surface and insert the battery into the aircraft, and connect it to the lead from the drone. Tuck the wire into the space above the battery, and close the flap.



2. Pull the left throttle lever down and turn on the controller



3. Turn on the drone by pressing the button on the underside. Then place it on a level surface



4. Push the throttle lever up, and then down. The controller will bleep, and the lights on the drone will stop flashing, and will be lit.

5. The aircraft is now ready to fly.

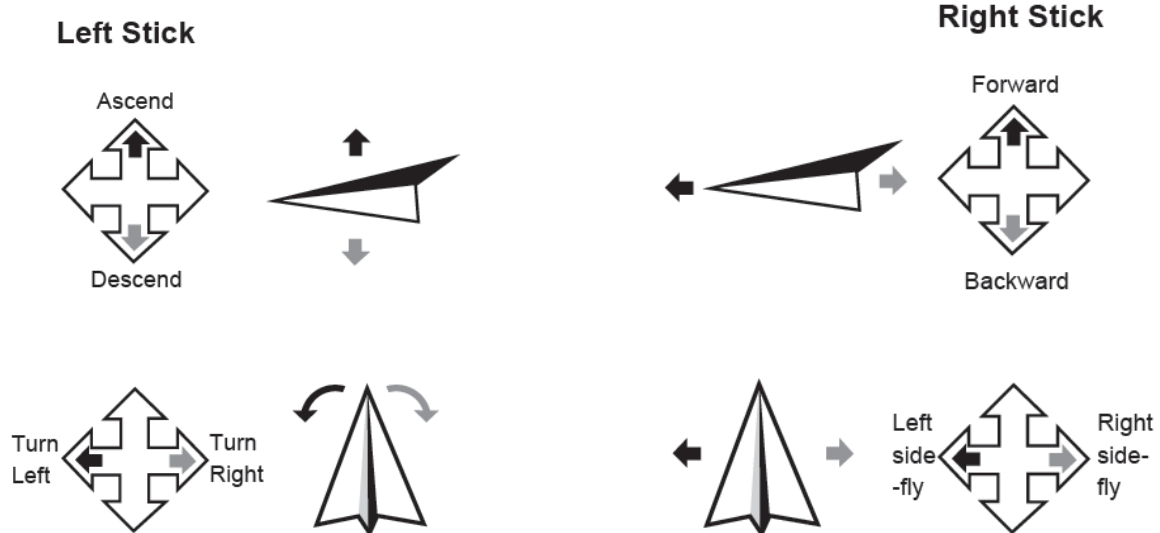
The aircraft can be flown using either the radio control supplied or by using the App on a smart device. For details on flying with the App, see page 14.

Flight Instructions

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

Left Joystick – Throttle & Rudder

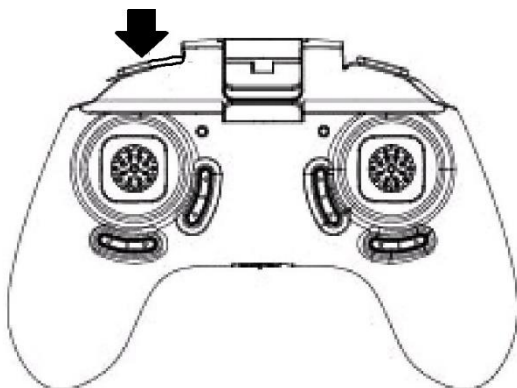
Right Joystick – Elevator & Aileron



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.

The aircraft can only take off and land by pressing the take off / land button (click once to take off and once to land). Once the aircraft is airborne it will hold a steady hover, you are now in control of the aircraft and can use the left and right sticks to control it.

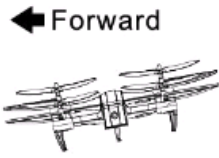
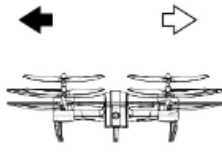
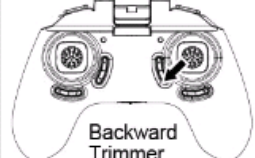
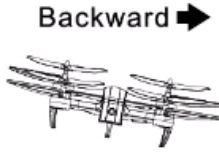
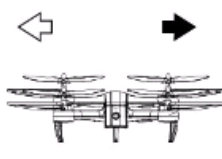
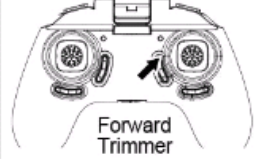
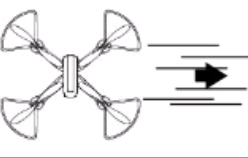
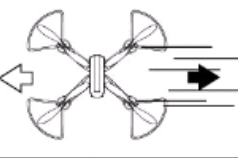
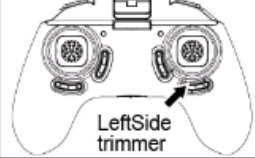
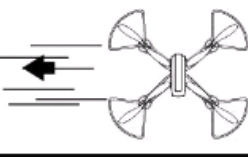
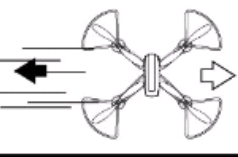
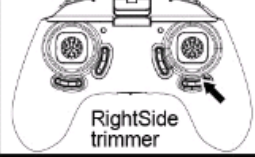

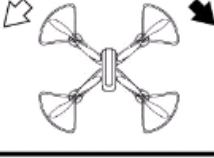
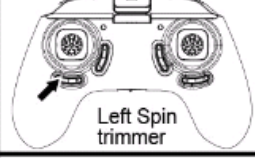

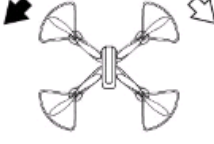
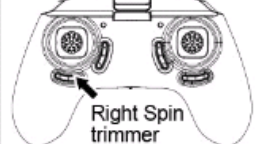
Note: Should the aircraft be left for a while with no control inputs it will go to sleep, simply press and hold the take off/land button to reactivate the aircraft.



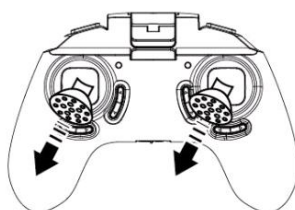
The left hard button can be used to arm the drone for take off, pressing it will also land the drone. If this button is held for 3 seconds the unit will perform an emergency stop.

Flight Adjustment

When you lift the Drone into the air, If the aircraft drifts or turns in a particular direction you can trim the controls using the trim buttons. Press the corresponding button as below to adjust the trim . Trimming is always needed before your first flight.

Backward Trim	  
Forward Trim	  
Leftside Trim	  
Rightside Trim	  
Left spin Trim	  
Right spin Trim	  

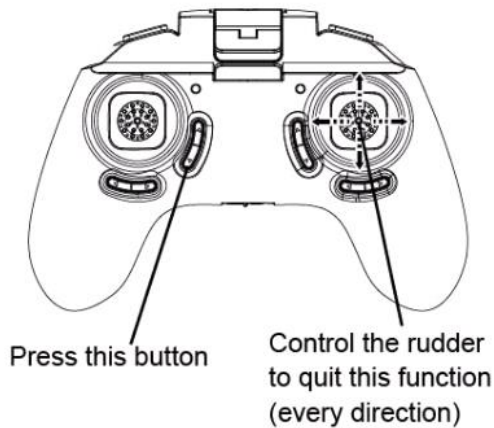
Auto Trim



To recover the drone back to the original factory settings for trim. Press and hold the two levers in the direction shown on the diagram for around 10 seconds. The lights on the drone will start to flash and when the light remains on, the process has completed.

Aircraft Functions and Features

One Key Return

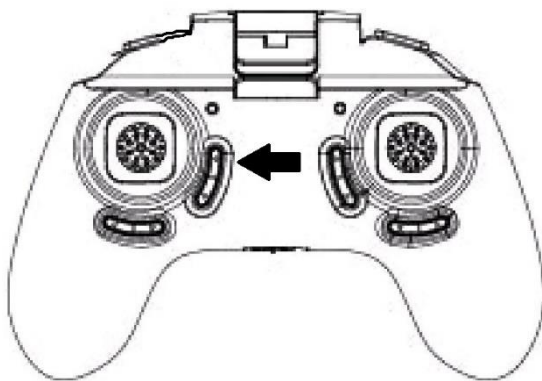


The aircraft can be made to return in a fixed direction by pressing and the return button. When the aircraft is turned on it will remember the direction it is oriented and upon activation of the One Key Return feature it will fly back in that direction.

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 right control sticks. The aircraft will not return to where it started, it will simply move in the direction it was orientated when turned on.

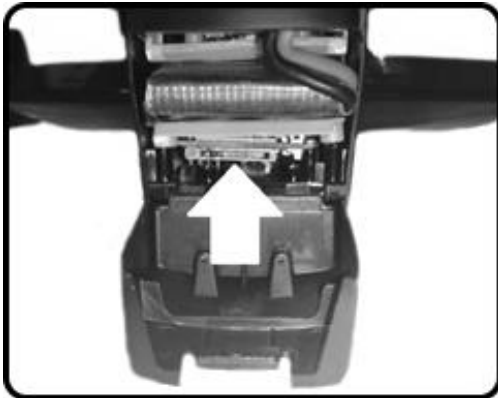
Headless Flight



The aircraft can be made to fly in Headless Flight 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. To calibrate the aircraft for headless flight, place it on a flat surface with the front facing away from the operator. Then press the Headless function button as labelled on the diagram above.

Camera



Insert a micro SD card (Not Supplied) into the slot which is located below the battery.

The camera will record video while flying onto the smart device and SD card (optional).

When the flight is complete, the SD card can be removed and the video reviewed on a suitable media player.

APP

The camera App can be downloaded by scanning the below QR code, or searching for Helicute 720P FPV in your app store:



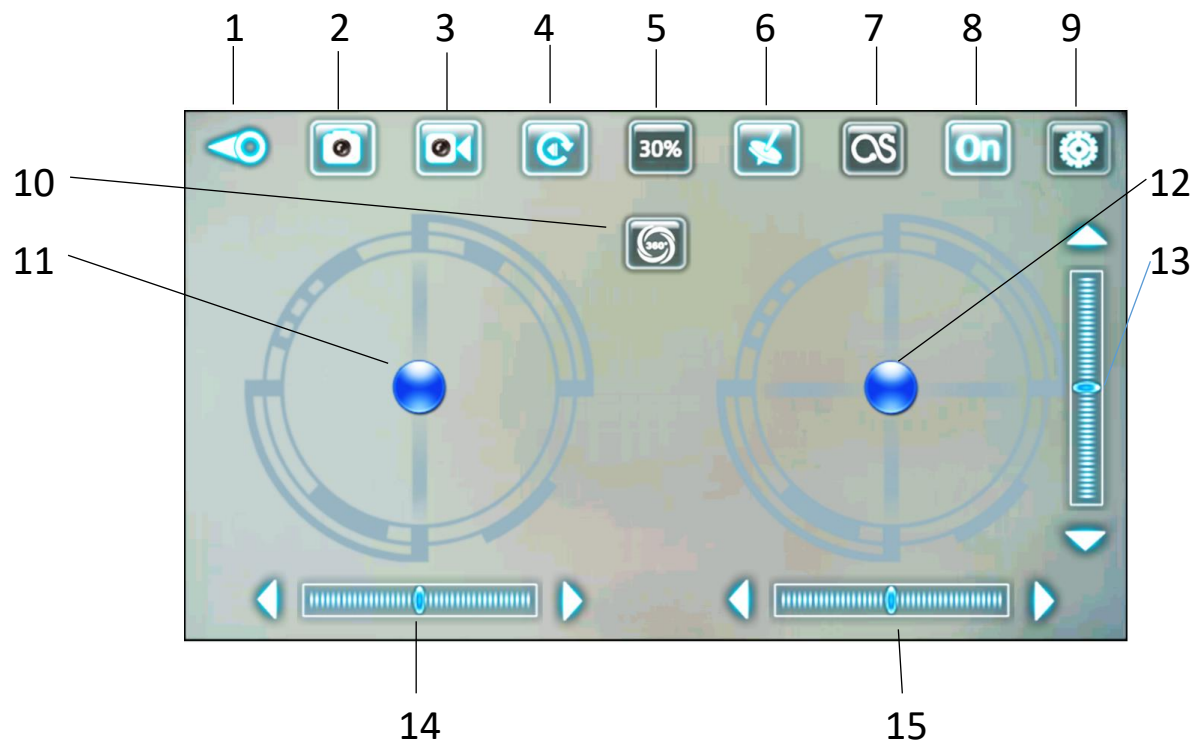
Android



iOS

To connect the aircraft to your mobile device: turn on the aircraft and go to settings on your mobile device. Open the WiFi settings and search for a device starting with Helicute 720P. Select it and wait for it to connect. Open the Helicute App and click "Play". This will lead you to the control screen and show

the view of the camera. You can either use the on screen controls or the controller to control all aspects of the aircraft.



- | | |
|--|-------------------------|
| 1. Exit | 10. Not Used |
| 2. Take photo | 11. Left Control Stick |
| 3. Start / Stop Recording Video | 12. Right control stick |
| 4. Video / Photo Playback | 13. Pitch Trim |
| 5. Speed Settings | 14. Yaw Trim |
| 6. Use phones gyroscope for control | 15. Roll Trim |
| 7. Maintain altitude, and control using left lever | |
| 9. Settings | |

Note: The supplied remote control is still required for take off and landing.

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 15 2. Reconnect using the instructions on page 15 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. 2. Camera module has come loose.	1. Reconnect using the instructions on page 15 2. Check camera module is firmly installed in body of aircraft.



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

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