



Sky Fighters Twin Pack

User Manual



Model: PFBD101

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.

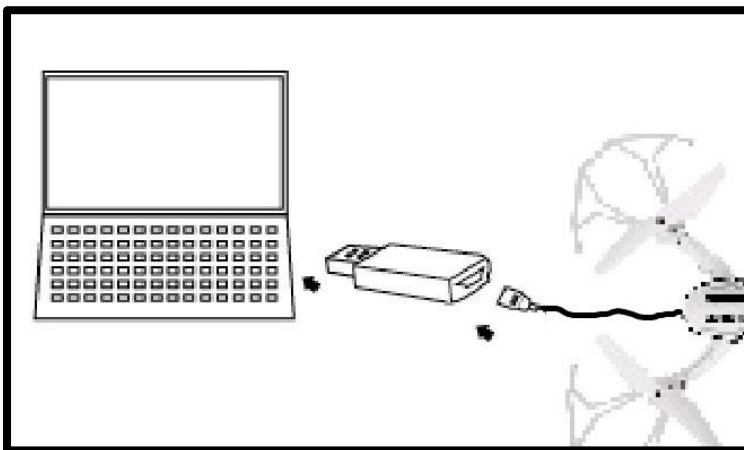


The battery charger included with the drone has been designed to safely charge the Li-Po battery.

- 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

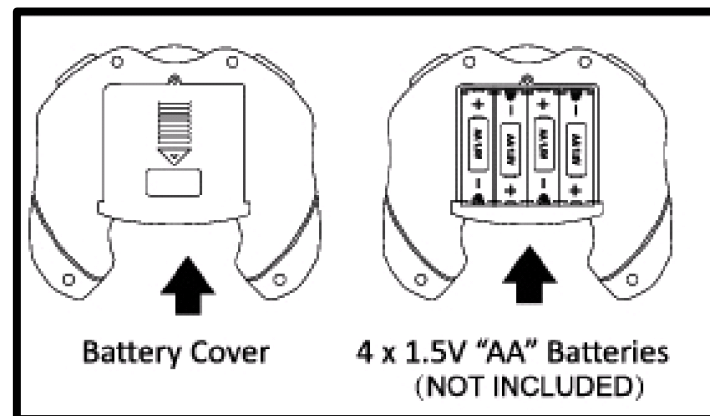


Unplug the battery cable from the socket in the back of the drone, and connect the cable to the supplied USB charging adaptor. The adaptor should then be plugged into a usb socket to charge

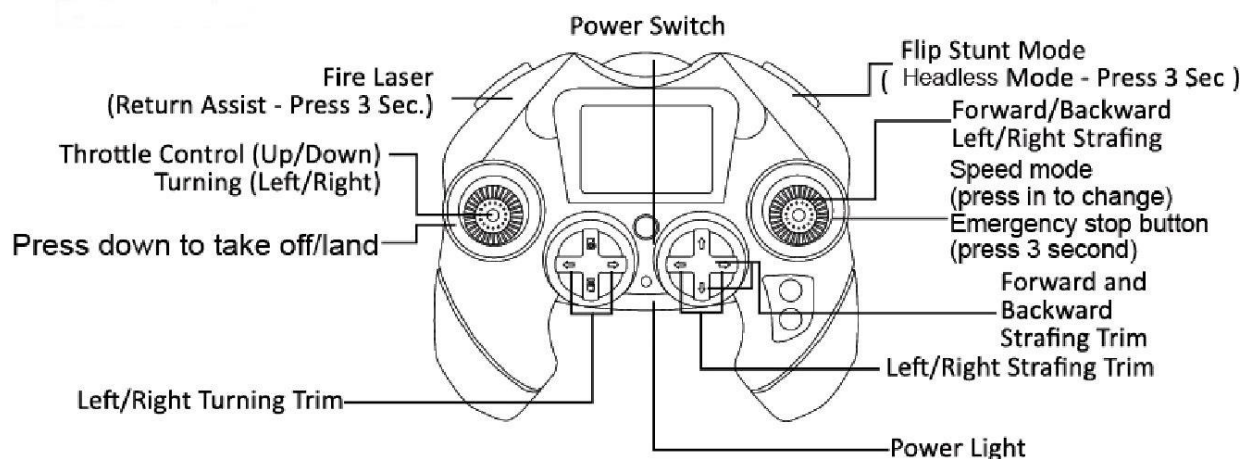
When the charger is plugged into a USB slot, the charging the LED will illuminate RED. When the battery is fully charged the LED will go out. Charging should take around 60-70 minutes. DO NOT leave the battery unattended whilst charging.

Installing the Controller Batteries

Unscrew the battery cover and insert 4 x AA Batteries in each controller, making sure the correct polarity is followed, before reattaching the battery cover



Transmitter Diagram

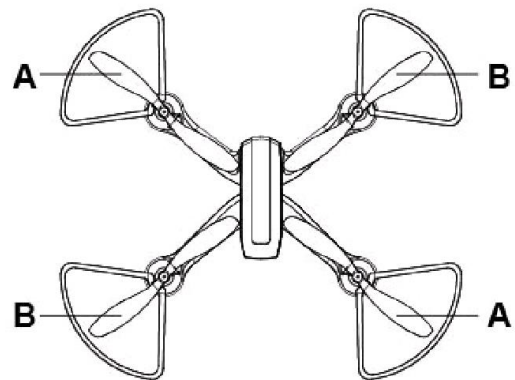


How to change the propellers



Using a screwdriver, untighten the screw holding the propeller in place and remove the propeller. Insert the new propeller over the motor spindle and use a screwdriver to tighten the screw.

It is important for the correct blade to be placed on the correct motor or the aircraft will not fly correctly. There is one spare blade of each colour and direction supplied with the kit.



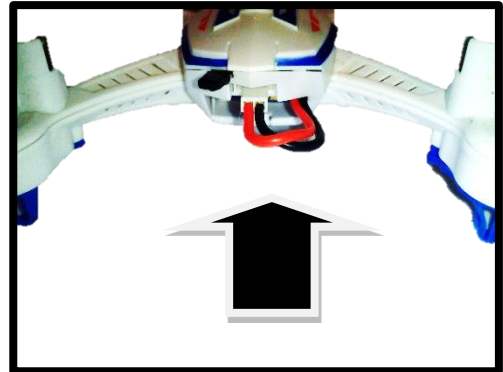
Preparing for First Flight

1. Make sure the transmitters and aircraft batteries for both drones 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

When pairing up, the below procedure should be followed one drone at a time. Do not turn on the second drone, until the first has been paired.

1. Place the aircraft on a flat surface and insert the lead from the battery into the socket on the rear of the drone.
2. Turn on the controller.
3. The controller will beep twice, and the red LED will flash. Pair it to the drone by pushing the throttle stick to the top, it will beep, and then pull the throttle stick to the bottom.
4. The long bleep indicates it is paired, the process can then be repeated for the second drone, and you are then ready to fly.

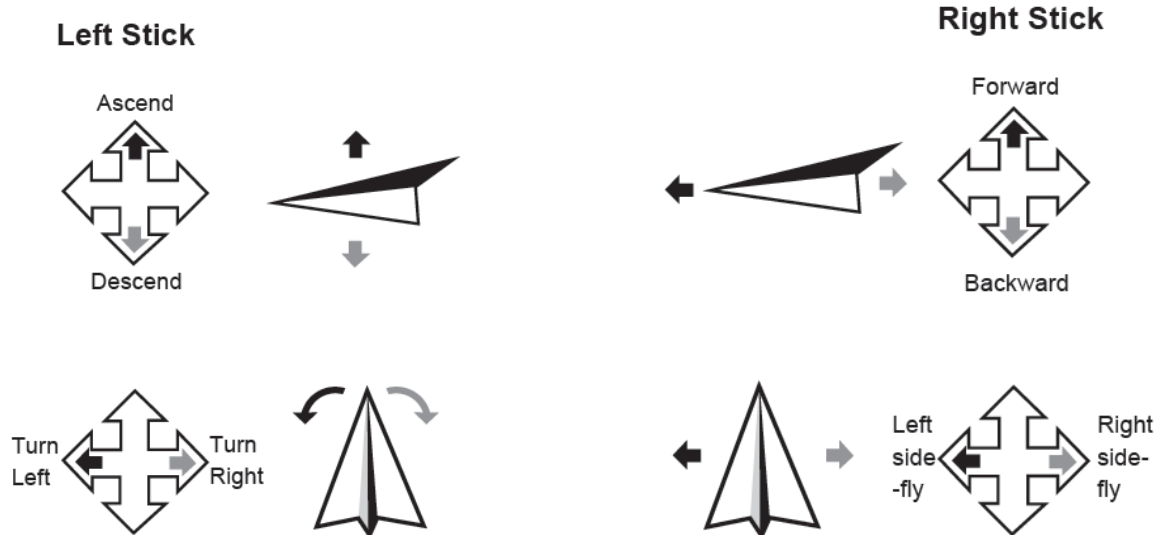


Flight Instructions

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

Left Joystick – Throttle & Rudder

Right Joystick – Elevator & Aileron



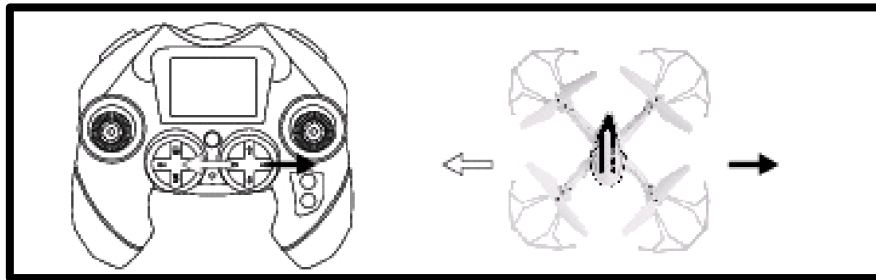
The aircraft can only take off and land by pressing the take off / land button (click once to take off and once to land). Once the aircraft is airborne it will hold a steady hover, you are now in control of the aircraft and can use the left and right sticks to control it.

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.

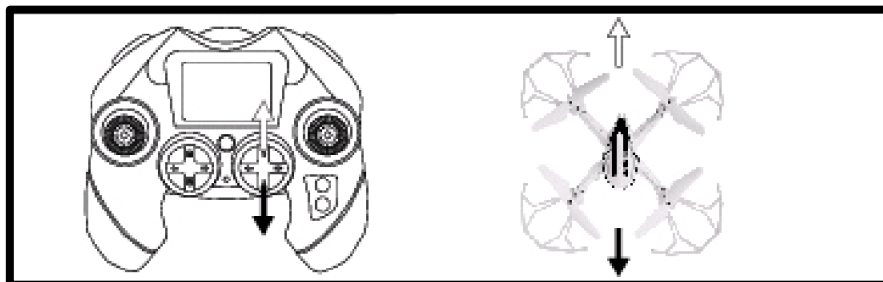
Flight Adjustment

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.

On the Right Directional Pad:

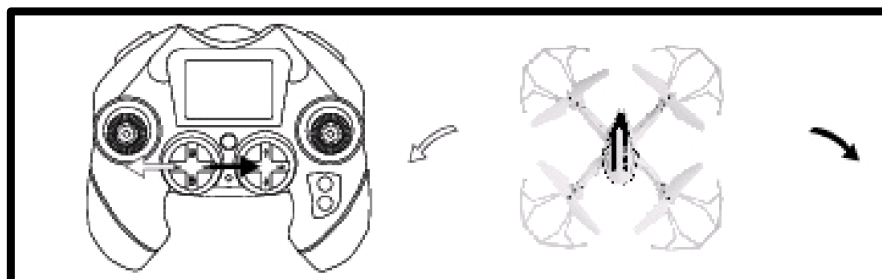


If the drone drifts left, tap the Right Directional Trim button until the drifting stops. If it drifts right, the Left Directional Trim Button should be pressed until drifting stops



If the drone drifts forward, tap the Down Directional Trim button until the drifting stops. If it drifts backwards, the Up Directional Trim Button should be pressed until drifting stops

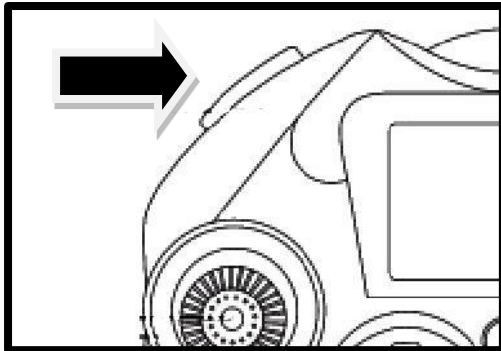
On the Left Directional Pad:



If the drone spins anti clockwise, tap the Right Directional Trim button until the drifting stops. If it spins clockwise, the Left Directional Trim Button should be pressed until drifting stops

Aircraft Functions and Features

One Key Return

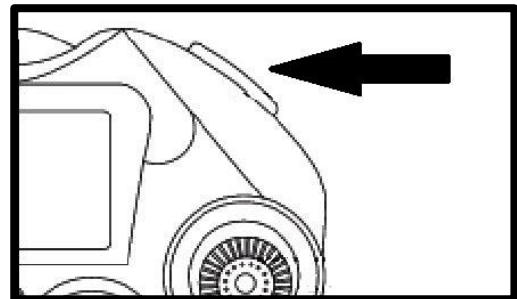


The aircraft can be made to return in a fixed direction by pressing and holding the return button for 3 seconds. When the aircraft is turned on it will remember the direction it is oriented and upon activation of the Smart Return feature it will fly back in that direction.

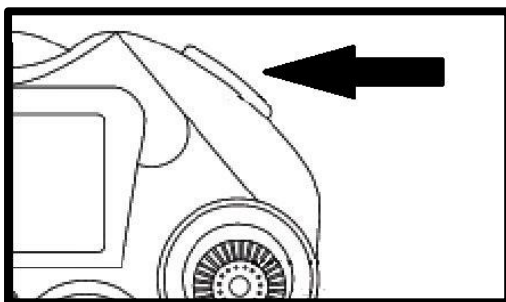
NOTE: Be careful to orientate the aircraft with the rear tail facing towards you if you want the aircraft to fly back towards you using the smart return mode. You can retake full control of the aircraft at any time by moving the control sticks. The aircraft will not return to where it started, it will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

Flip Stunt Mode

Press the Flip stunt button to activate the flip mode. The controller will bleep until a stunt has been selected using the right hand joystick, to select the direction of the flip.



Headless Flight



The aircraft can be made to fly in Headless Flight by holding the flip button for 3 seconds. 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.

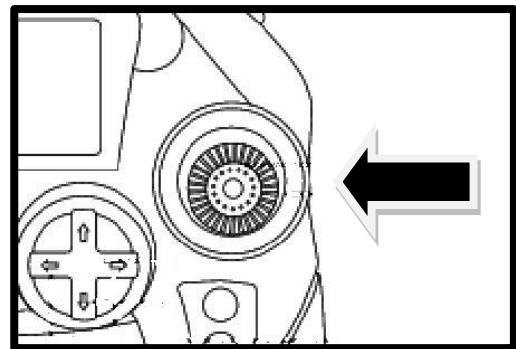
Move the joystick left and it will fly left. Move the joystick forwards and the aircraft will fly away from you and pull it back to make it fly towards you. It does not matter which direction the drone is facing in headless mode.

Speed Control

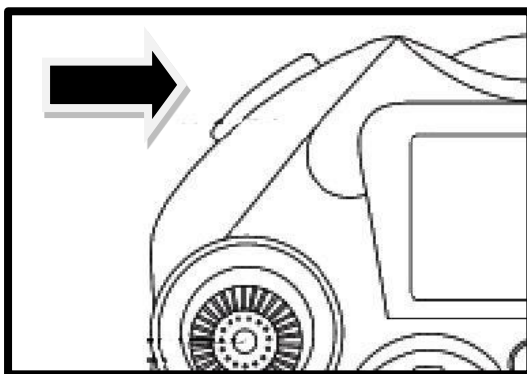
The drone has 3 speed settings. It will initially be set at 25%. By pressing the right joystick the speed of the drone can be adjusted. The controller will bleep to indicate the speed it is set at after the button has been pressed.

25% - 1 Bleep, 50% - 2 Bleeps

100% - 3 Bleeps



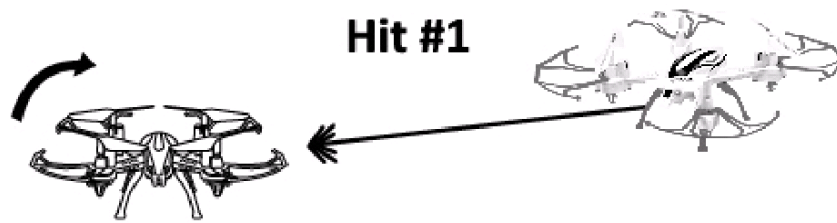
Drone Laser Battle



Both drones are equipped with IR Laser emitters which enables you to fire at your opponent while flying. The Laser can be fired by pressing the left Fire button. The range is around 10 feet, and shoots out at an angle of 45 degrees from the front of the drone.

Use the fire button to hit your opponent, while flying through the air, attempting to avoid getting hit by your opponent's laser.

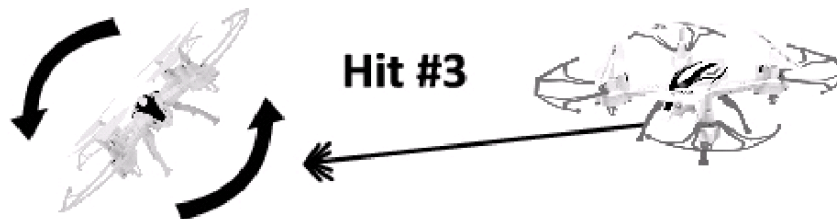
Each Drone can receive 4 hits before they land to recover for the next battle. After each hit your drone will perform a different action to show a successful hit



The First time your drone is hit, it will rotate clockwise 180 degrees before resuming normal function



The Second time your drone is hit, it will rotate anti-clockwise 180 degrees before resuming normal function



The Third time your drone is hit, it will perform a single flip, before resuming normal function



The Forth time your drone is hit, the battle is over, and the drone will rotate clockwise 180 degrees, before landing, ready for the next battle

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.



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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