



Challenger

User Manual



Model: PFBD92

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.
- Do not try and recharge non-rechargeable batteries.

Battery Charging

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

Remove the battery from the battery compartment on the rear of the aircraft.

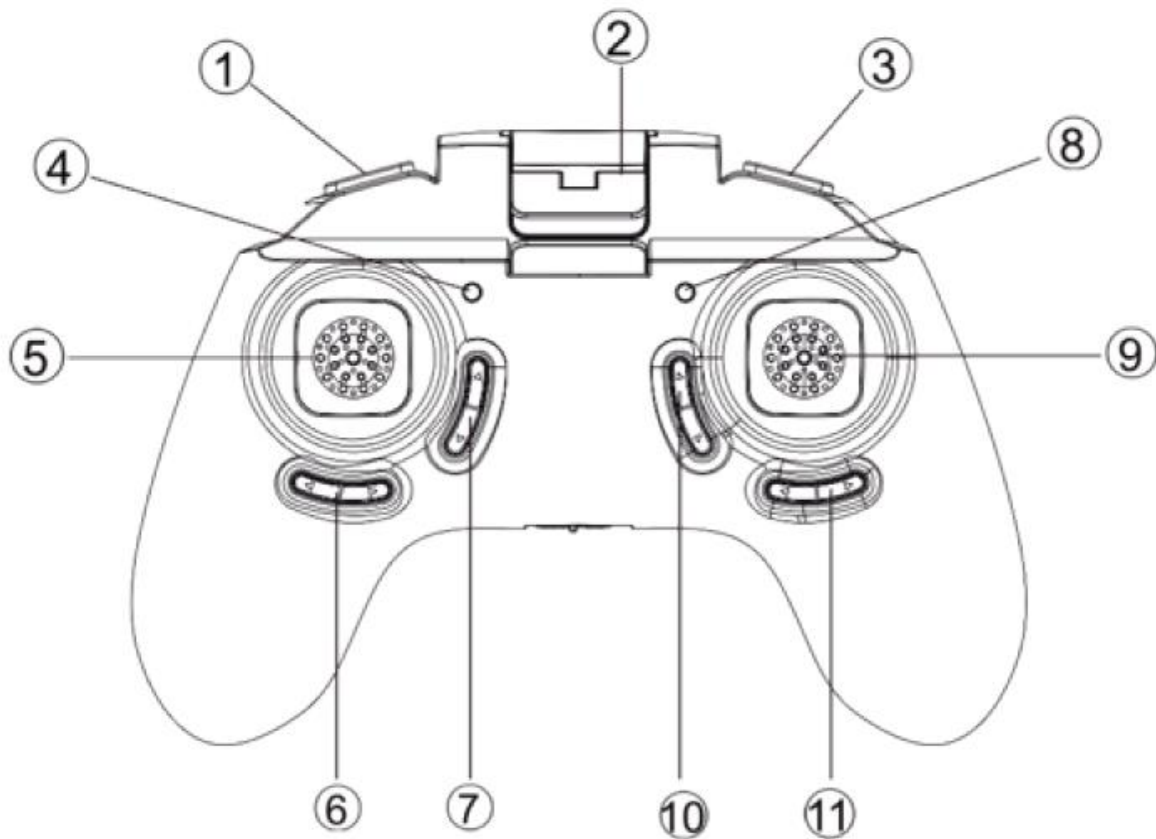


Use only the supplied charger to charge the 3.5V/450mAh battery.

Attach the battery to the USB charger and the LED will turn red. Once charging is complete the LED will turn off.

Charging time will depend on the outlet power (in Amps) of the USB port. Assuming a 1A output, the battery should charge in around 30 minutes.

Transmitter Diagram



- | | |
|-----------------------|---|
| 1. Speed selector | 7. Manual Trim B |
| 2. Smartphone holder | 8. Camera LED |
| 3. Camera button | 9. Right control stick / Flip & Roll Button |
| 4. Power LED | 10. Manual Trim C |
| 5. Left control stick | 11. Manual Trim D |
| 6. Manual Trim A | |

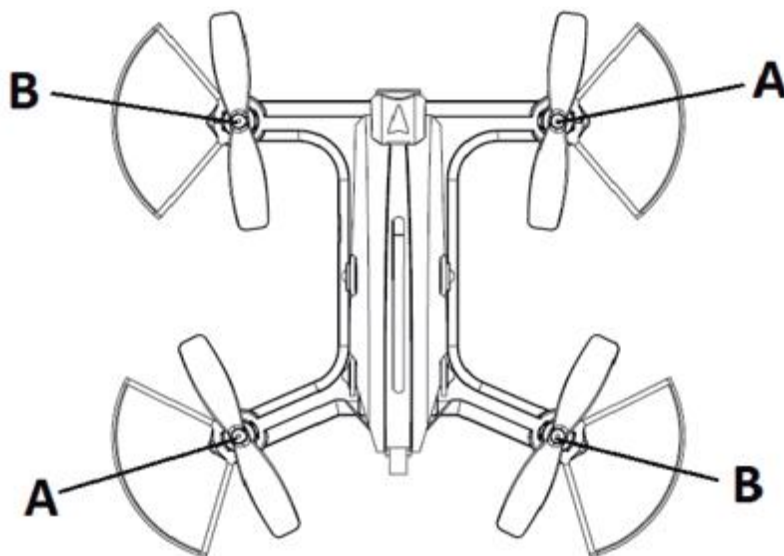
The transmitter requires 4 x 1.5V "AAA" batteries (not included)

Signal type: 2.4 GHz.

Binding the Transmitter to the Aircraft

1. Connect the battery to the aircraft, the lights on the aircraft will illuminate.
2. Set the left control stick all the way down and then turn on the controller, it will beep and the lights will illuminate.
3. Slowly move the left control stick up, the controller will beep and the camera LED will go out. Return the left control stick to the bottom.
4. The controller is now connected

Propeller Installation



Should you need to replace the propellers you must make sure that you replace them in the correct orientation or the aircraft will not fly. Use the above diagram to assist when replacing propellers.

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 (left) stick is fully down before turning on the transmitter.

Sensitivity

The aircraft has 4 speed settings. The aircraft must be turned on and connected to the controller to change modes.

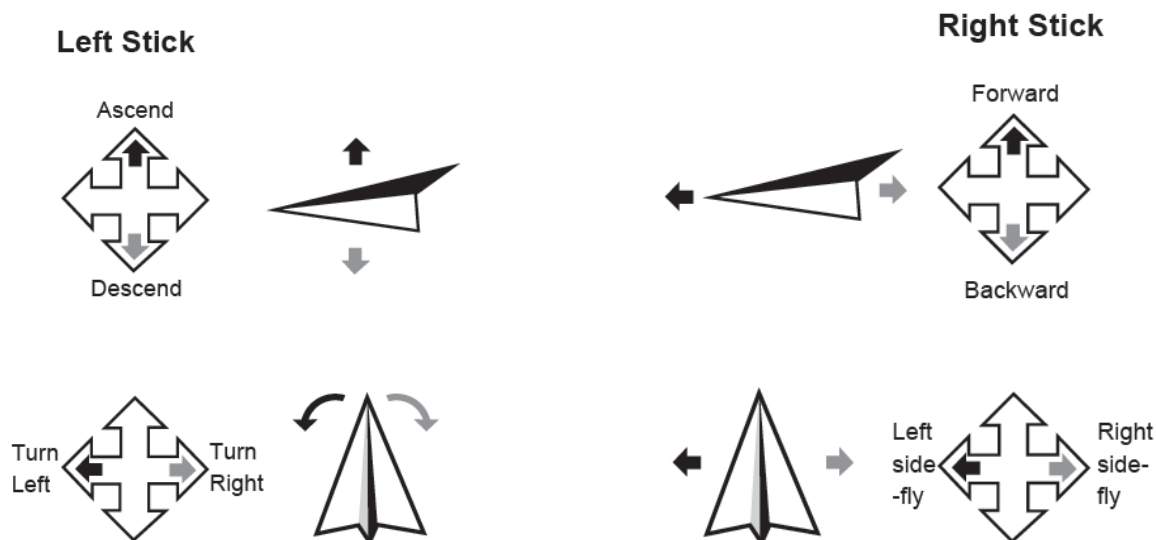
Press the speed selector button to change the speed setting. The number of beeps it makes represents the speed mode. When it makes a continuous beeping, it is in fast/acrobatic speed mode.

Flight Instructions

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

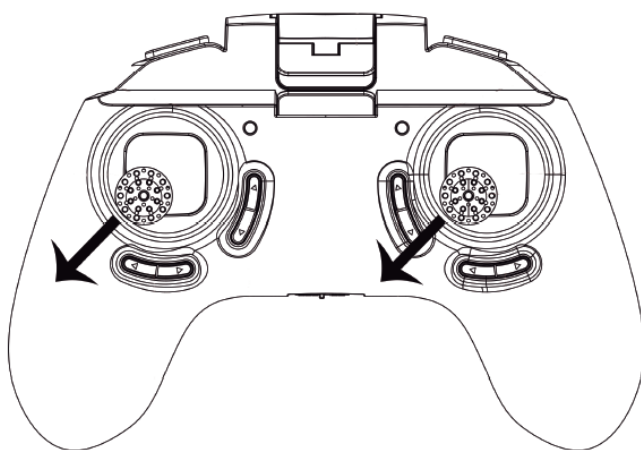
Left Joystick – Throttle & Rudder

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.

Should you need to reset the drone after an impact for example, set the aircraft on a level surface and with the transmitter and aircraft turned on and connected, move both control sticks to the bottom left and hold for 10 seconds. The lights on the aircraft will flash until the reset is complete. This will return the trim settings back to default.



Aircraft Functions and Features

360° Flips

To perform a flip or roll, click the right control stick and then move the right control stick in the direction you want to perform the flip or roll.

If the aircraft is in fast/acrobatic speed setting, you do not need to click the right control stick. Simply move the right control stick quickly in the direction you wish to perform the flip or roll.

NOTE: 360° Flips require a large amount of space. Do not attempt them inside or in areas with obstacles nearby.

Return to Home

To activate return to home function, press and hold the Trim B button and the aircraft will fly backwards. To stop a return to home simply add an input to the right control stick.

NOTE: The home point is not designated by GPS and the aircraft will only return move backwards, irrespective of orientation to where it too off from.

Camera

The camera App can be downloaded by scanning the below QR code:



Android



iOS

Or found in the app store by searching “TOY LAB FPV HD”.

Follow the in app instructions to connect to your aircraft.

A Micro SD card can be inserted into the underside of the aircraft (near the antenna).

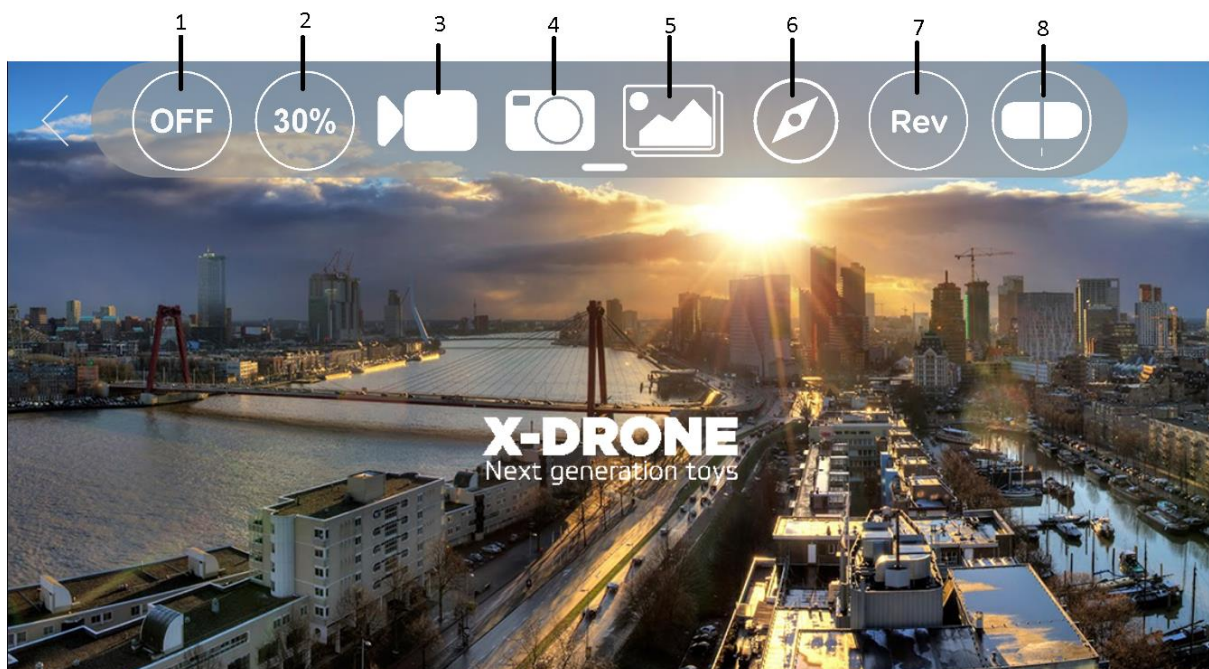
To take a still image, click the camera button. The camera LED will flash.

To start recording video, press and hold the camera button for 3 seconds. The camera LED will start to blink continuously as long as the camera is recording.

To stop recording video, press and hold the camera button for 3 seconds. The camera LED will stop flashing.

Still images will be saved as JPEG files, videos as AVI files.

APP



1. Turn on/off the on screen controls (controller must be switched off to use on screen controls).
2. Flight speed mode
3. Video camera
4. Stills camera
5. Access photos and videos previously taken
6. Control right stick using the phone's gyroscope (tilt to control direction)
7. Invert the camera image
8. Split screen for use with goggles.

NOTE: The Wifi module on the aircraft can be turned on/off using the small switch on the left hand side of the body of the aircraft. With the switch forwards the Wifi will be turned off (and will not connect to the app), with it switch backwards it will be turned on (and visible to your mobile device).



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.