Assembling

Visit www.tinyurl.com/PLUTOTUTORIALS or Scan QR code

Connect to your Smartphone

Downloading the App
Visit the App Store or Google Play and download the *PLUTO CONTROLLER.*
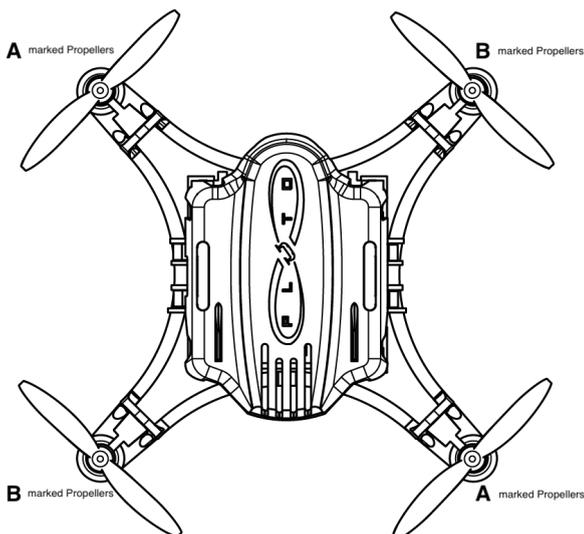

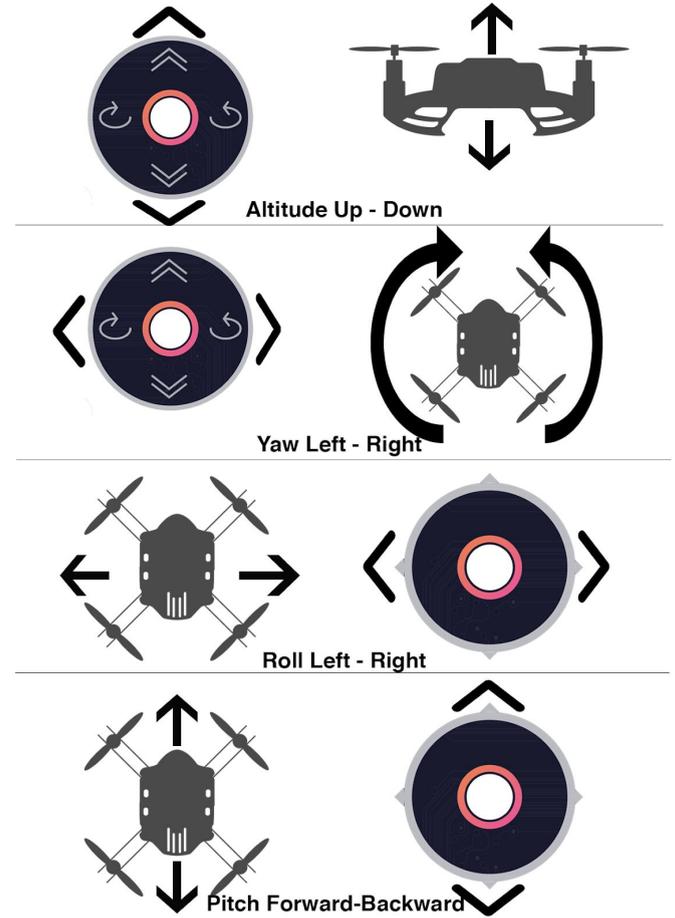Android App   iOS App

- Switch on the Pluto- A green LED will glow at the bottom-back of Pluto board.
- Switch on the Wi-Fi on your smartphone / Tablet and Pair with Pluto Wi-Fi ID provided using the given password.
- Start the Pluto Controller App and tap the connect button

Pre-flight Check

Propeller Configuration

Controls

Altitude Up - Down

Yaw Left - Right

Roll Left - Right

Pitch Forward-Backward

Let the bird Fly

- *Place Pluto on level ground in such a way that the arrow mark on the Flight Controller is away from the Pilot.* The arrow mark denotes the direction of forward motion of Pluto.
- Tap the *Arm switch* to switch it on and Tap *Take off*
- Use the joystick controls to fly it.
- Tap *Land*
  Enjoy the self learning experience as you see PLUTO fly as you control its flight.

Trim the controls of your Pluto
Trim is like offset control input you need to give to stop the drifts of your Pluto and make it stable. Conventionally pitch forward is positive pitch and roll right is positive roll. Go in Controller Settings, and put values accordingly

Drift in direction	Set input
Forward	Negative Pitch
Backward	Positive Pitch
Right	Negative Roll
Left	Positive Roll

Charging the battery
1. Connect a micro USB charger to the port on the PCB of pluto (while ensuring that the Pluto is off and battery is connected)

2. The charging RED LED glows bright to show the charging is in process. The battery takes 50 minutes to charge completely.
When fully charged LED will go off.

COMMON PROBLEMS

Problem	Cause	Solution
Not able to find wifi of your Pluto	Pluto is off/ Battery is not connected	Connect battery and Switch on Pluto. A green LED should glow at bottom-back of Pluto board
Tapping on connect sign in App but not able to connect	Your device is not paired with Pluto Wi-Fi	Pair with your Pluto Wi-Fi
Not Arming / motors are not rotating	Sensors got mess up after crash	Calibrate Accelerometer
Motors are rotating but Pluto not able to lift up or just tilting in one direction	Propellers are attached in wrong manner	Attach propellers in the specific manner as mentioned above.
	Battery is low 3.3V	Charge your battery and then try.
Red-white-blue LED is blinking continuously simultaneously and not arming	Magnetometer Calibration Required	Calibrate magnetometer by pressing MagCalibration in App
Everything is good but when I am flying it is drifting in one of the direction.	Some random faults while building and assembling.	Trim your controls using Trim function as described above
PLUTO is not directed as per my instructions through the App.	You might have not accounted for Front of Pluto.	Arrow on the PCB indicates Front. It should be always away from you.
One/two of the motor is not rotating when you arm.	Propeller might stuck with motor.	Use Prop tool and remove and re-attach the propeller
	Motor shaft is bent. That is case when your Pluto crashed badly.	You would need to change the motor.

DOs and DON'Ts
DOs
- *Fly your Pluto first time in a secluded open space*
- *Always check your inspect your surroundings before flying your Pluto*
- *Make sure your Pluto is at safe distance from other people, especially children*

Dont's
- *DO NOT try to touch the propellers when in operation.*
- *DO NOT touch the metal parts on the PCB while charging the battery.*
- *DO NOT fly PLUTO in Drone prohibited areas.*
- *DO NOT allow the board and the battery to come in contact with water or moisture.*

Play Safe With Your Battery
- Don't short the terminal of battery, which could be hazardous. Could cause fire
- Don't pierce anything in battery
- Don't forcefully connect battery in wrong method otherwise that could burst the brain of your Pluto
- Do not charge batteries near flammable items or liquids.

Disclaimer
*Drona Aviation will not be held responsible for any kind of misuse of **Pluto** and/or its components.*

Contact
For other queries not listed in the manual, please contact us my mailing your query at *support@dronaaviation.com*

Scan for more FAQs