

EXPERIMENT NO.: 5

Name of the experiment: To study the steps for installation of Pluto X Controller and methodology for activation of settings

Theory:

Step I: You have to download Pluto X Controller from Google Play Store or any other site. Install the app. Open the application.

Step II: Open the application and complete with the registration process then go to the control settings.

Step III: After going to control settings you will have swap control options at that stage select the control settings you're suitable with. My personal favourite was Attitude mode and Joystick mode.

Step IV: At the main console of the application you will have different kinds of settings such as developer mode, flip, flight status, flight time etc.

Step V: Connect to your drone:

Pluto X generates its own wifi hotspot. Using wifi settings on your smart-phone, you will discover Pluto X-xxx wifi hotspot.

Connect to the hotspot using the password provided on the Box.

Open the Pluto Controller app click on the Connect button.

Step VI: Make sure that the prop guards are attached securely. Check the battery voltage in the Pluto application, Battery voltage should be above 3.8V. This ensures good flight.

Step VII: Perform motor test using "Pluto Controller" apk.

Go to Menu > Drone Setting > Motor Test

Tap on "Spin all".

Verify that all the propellers are rotating.

Step VIII: Perform Magnetometer Calibration:

This calibration accounts for stray magnetic fields. This is essential to achieve good stability.

In the app, go to

Menu > Drone Setting > Mag. Calibration.

Perform Acceleration Calibration:

This calibration accounts for misalignment of the flight controller and frame.

Place Pluto X on a perfect level surface.

In the app goto

Menu > Drone Setting > Acc. Calibration

Step IX: Fly it.

Click on ARM button, make sure you have space in device.

Click on the take-off button. Pluto X should take off to a height of about 3 feet.

To land the drone, press the Land Button.

Summary: We have learnt about the installation process of Pluto X application and drone.