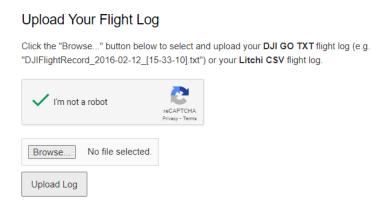
User guide to run the GUI

This guide covers two parts the first part will cover the extraction of data before using the GUI software the second part will be the operation of the software.

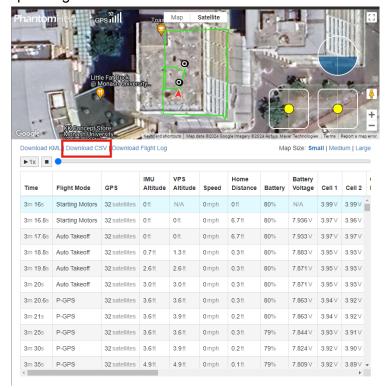
Extraction data

Assuming the user has already flown the drawn and collected the flight path data.

 Load Flight Record to convert the flight path record TXT file (e.g: DJIFlightRecord_2024-06-20_[09-22-37].txt) to CSV (e.g: DJIFlightRecord_2024-06-20_[09-22-37].csv) data using tools like PhantomHelp log viewer (https://www.phantomhelp.com/LogViewer/upload/).

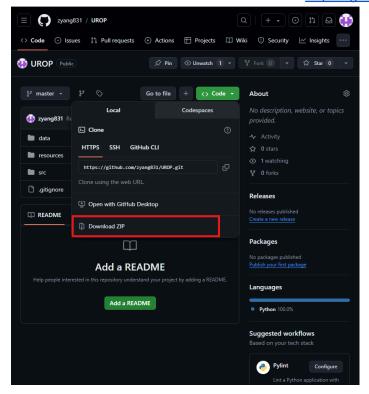


2. Download the CSV file and store it in an appropriate folder to be accessed when operating the GUI software.

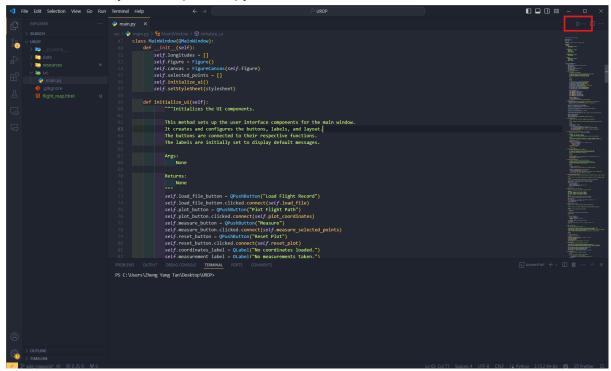


Operating the GUI software

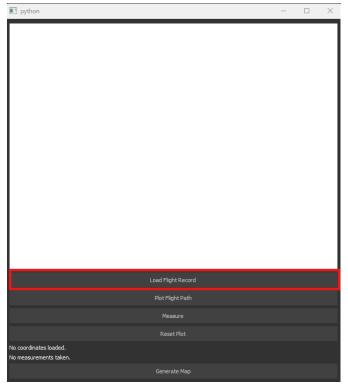
The GUI software files can be accessed from https://github.com/zyang831/UROP.



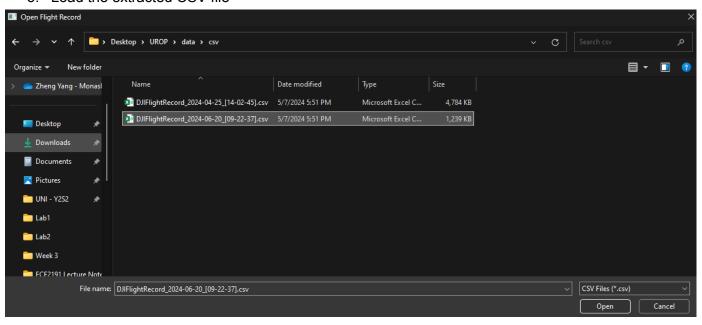
1. Run the Python Script main.py



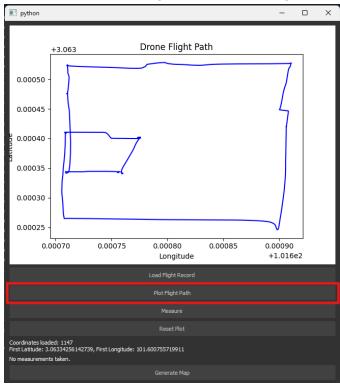
2. Click on the "Load Flight Record" button and input



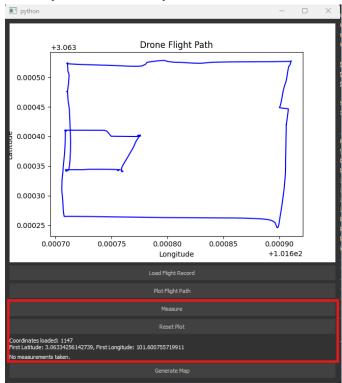
3. Load the extracted CSV file



4. Click on "Plot Flight Path" and the flight path will be shown on the main window



5. Click on "Measure" and select the area you wish to measure. Click on "Reset Plot" if you wish to redo your measurements.



6. After you have selected the area, click on "Measure" again to get the area an side measurements

