



# Flight Log Viewer

Version 2.2.2

Instructions

Welcome to the Flight log viewer for the Potensic Atom line of drones. This open-source project has been developed to assist users in getting the most out of their aircraft by allowing you to replay a flight. This help document will continue to evolve with each version of the application. It is provided “as-is” with no warranties expressed or implied.

### **Getting Started: How to load your log files**

To use your log files in this application you need to do the following:

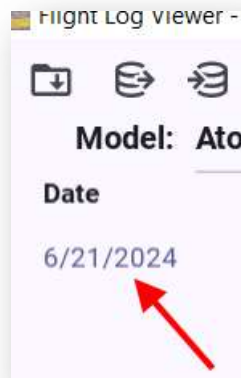
### **The Main Interface**

When you start the flight log viewer you will be brought to the main interface. It shows you all the flight logs which you have loaded into the viewer which are available for replay:



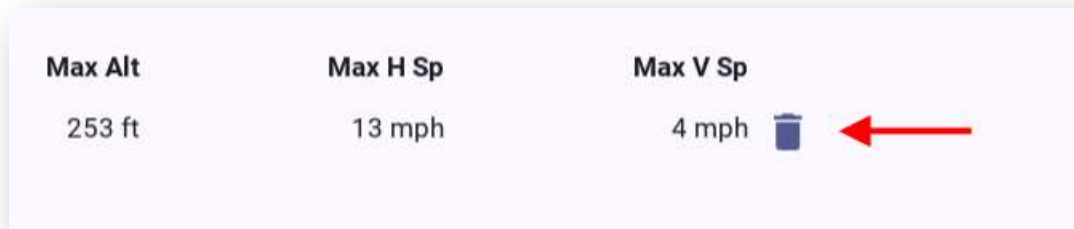
### **Selecting a Flight for Replay**

On this screen you can either select a flight to replay or you can delete it. To select a flight, click on the date of the flight entry:



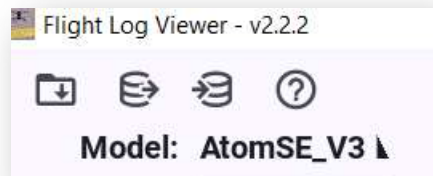
## Deleting a Flight Log

To delete a flight log, click on the trash can button to the right of the flight log entry:



## Main Interface Controls

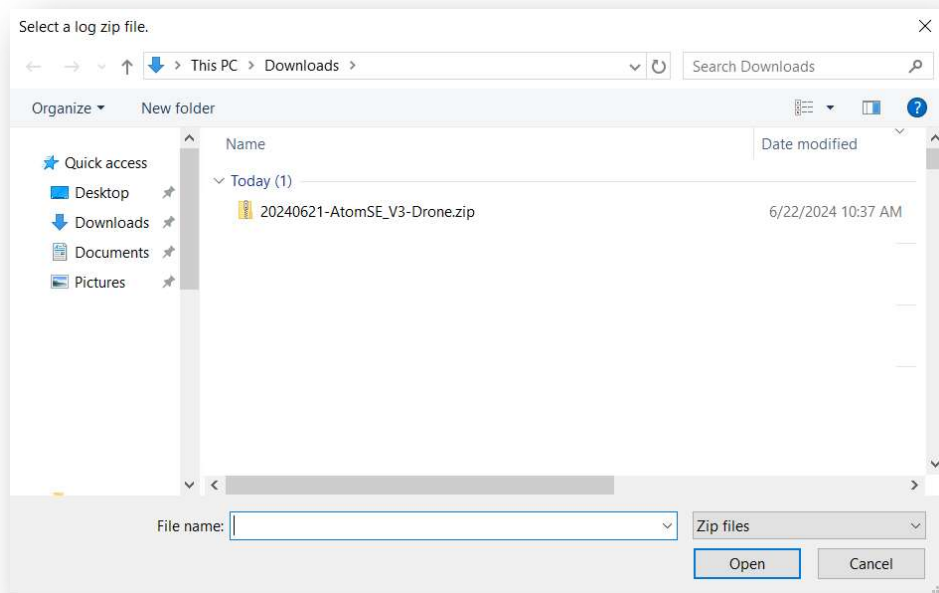
The main interface has four buttons at the top left of the screen:



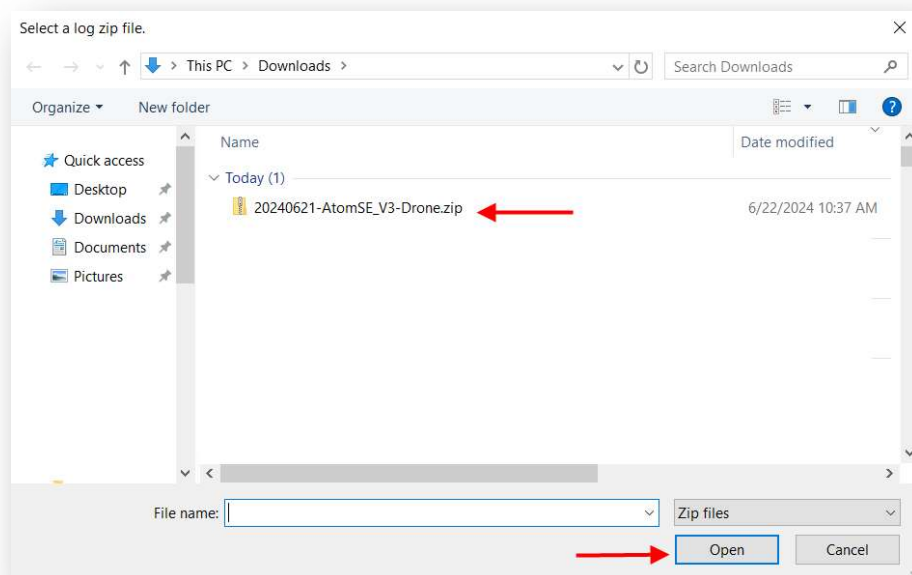


### Load a Flight Log Button

This button will allow you to load your Potensic flight log. When you select it it brings up the window which will allow you to select the log zip file created by the Potensic application.



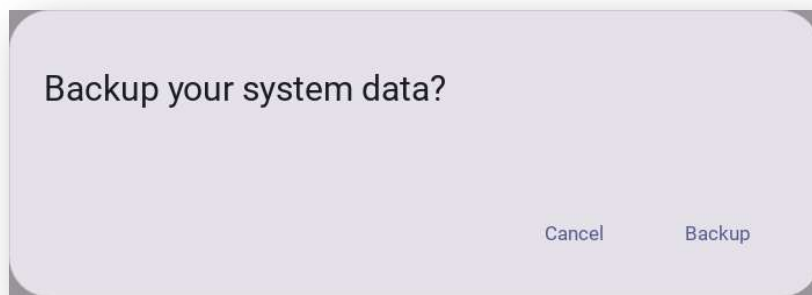
To load a log select it and click on the “Open” button:



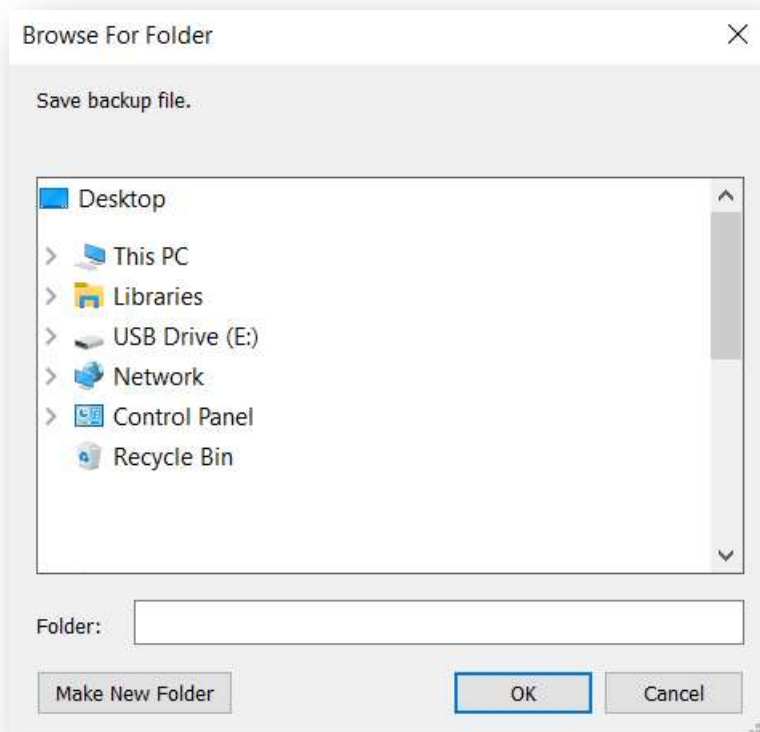


### Backup System Button

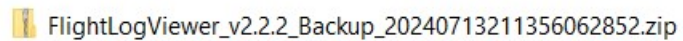
This button will allow backup all the data you have loaded into the Flight Log Viewer. When you click the button, it will bring up a window which will ask you if you want to back up the system.



If you click on "Backup" a window will appear asking you where you wish the backup created.



Once you select a location, click on the “OK” button and a backup file will be created, such as this one:



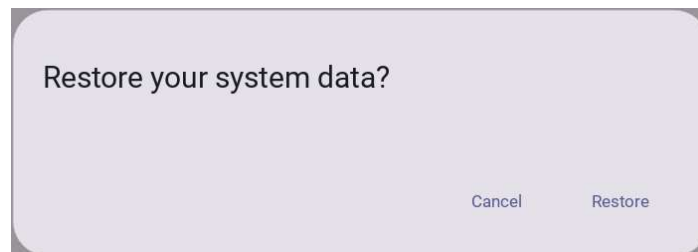
FlightLogViewer\_v2.2.2\_Backup\_20240713211356062852.zip

This file can be used to restore your system using the restore feature.

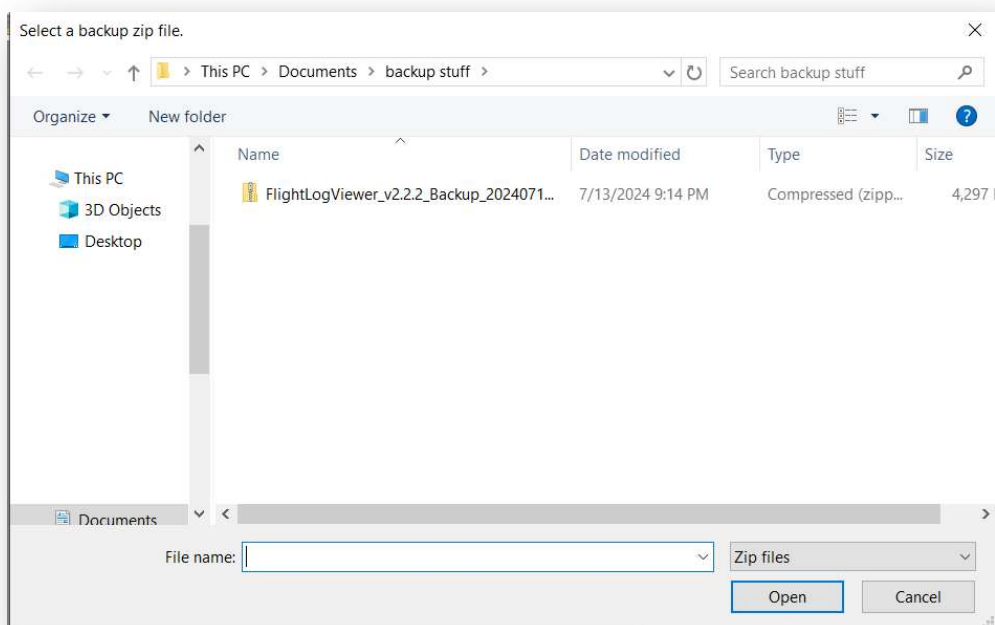


### Restore System Button

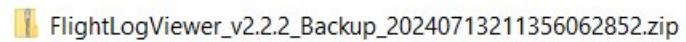
This button will allow you to restore all the data you have loaded into the Flight Log Viewer from a backup (if you created one using the backup system feature). When you click the button, it will bring up a window which will ask you if you want to restore the system from a previous backup.



To restore the system backup, click the Restore button. This will bring up a window asking you to select a system backup file to restore.



Select a backup such as this one, then click on the “Open” button to restore your system:



### **System Help Button**

This button will allow you to display the system help you are reading. It will bring up the help file in your default browser.

## The Flight Log Viewer Map

When you have selected a flight log for viewing it will bring up the Flight Log Viewer Map screen:



The screen will show your flights route along with some statical information on the left side of the screen. The playback control buttons available to you on this screen will be explained.

### **Log Playback Control Buttons**

The playback buttons which allow you to replay your flight are shown at the bottom of the Flight Log Viewer Map screen:



**Playback Button**

This button will start the replay of your flight. Click on the button to start the replay.



**Return to Start of Playback Button**



This button will return your replay of your flight to the beginning of the log. Clicking on the button will stop the replay playback. If you have more than one flight log loaded into the Flight Log Viewer application and click on the button a second time it will switch replays to the previous flight from the one you have currently selected.



#### **Move to End of Playback Button**

This button will advance your replay of your flight to the end of the log. Clicking on the button will stop the replay playback. If you have more than one flight log loaded into the Flight Log Viewer application and click on the button a second time it will switch replays to the next flight from the one you have currently selected.



#### **Playback Speed Button**

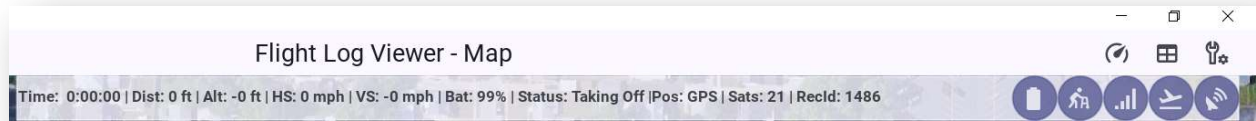
This button will change the rate of your playback. It defaults to standard playback speed (1). Each time you click on the button it will increase the playback speed. Available selections are 1,2,4 and 8. When you reach the highest speed it will cycle back to 1.



#### **Center Map Button**

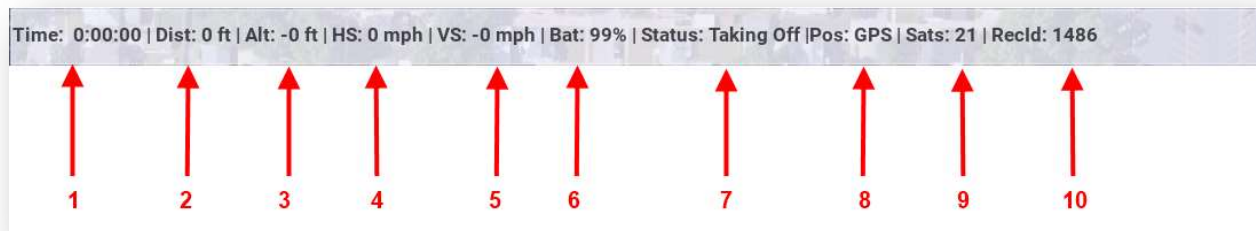
This button will recenter your map on your flight playback.

## Top Status Information Bar



The Flight Log Viewer has a detail status bar along the top of the Map window. The information represented on the strip is shown as both text and some information is displayed as icons as well on the right side of the strip itself. The details will be explained.

### Detail Status bar Text Information:



1. **Elapsed Time** - Current elapsed time of your selected flight as it occurred.
2. **Distance** – Distance from your home point of launch.
3. **Current Altitude** – Current altitude of your flight.
4. **Horizontal Speed** – The horizontal speed of the drone.
5. **Vertical Speed** – The vertical speed of the drone
6. **Battery Level** – The current battery level of the drone
7. **Status** – The status of the drone, such as “taking off, in flight, landing”
8. **Positioning in use** – The positioning system being used by the drone, such as GPS, ATTI.
9. **Satellites** – The number of satellites seen by the drone.
10. **Record number** – The current record number element of the flight playback being displayed.

### Detail Status Bar Icon Information:



1. **Battery Level** - Current level of your drone's flight battery
2. **Flight Mode** -The flight mode the drone is in (Video, Normal, Sport)
3. **Signal Level** -Current signal level
4. **Flight Status** -Drone's flight status (In flight, etc)
5. **Satellite** - Navigation mode (GPS,OPTI,ATTI)

The above icons will change like the detailed status bar information as your flight progresses.

## The Flight Log Viewer Map – Right hand side controls

Located at the upper right hand side of the Flight Log Viewer window are a number of controls.



Each of these controls will be explained.



### **Show/Hide Side Detail Button**

This button will show or hide the side flight detail area of the Flight Log Viewer map section:





### Display Summary Screen Button

This button will take you to the flight log summary screen:



The screenshot shows a window titled "Flight Log Viewer - v2.2.2" with a subtitle "Flight Log Viewer - Flights". It contains a table with flight data for "Flight #1".

Flight	Duration	Dist Flown	Max Distance	Max Altitude	Max H Speed	Max V Speed
Flight #1	0:09:12	2,139 ft	462 ft	253 ft	13 mph	4 mph

This screen is where you can export a vast amount of flight information. This will be discussed in the next section.



### Display Preferences Screen Button


This button will take you to the Flight Log Viewer preferences screen.

### Exiting the Flight Log Viewer Map Screen

To exit the Flight Log Viewer Map screen, click on the "X" button at the upper left. This will take you back to the main Logs window where you can select another flight.



## Flight Log Viewer Summary Screen

The Flight Log Viewer Summary Screen can be reached after you load a flight log from the Map screen. If you click on the “Display summary” button  on the map screen it will display this screen:



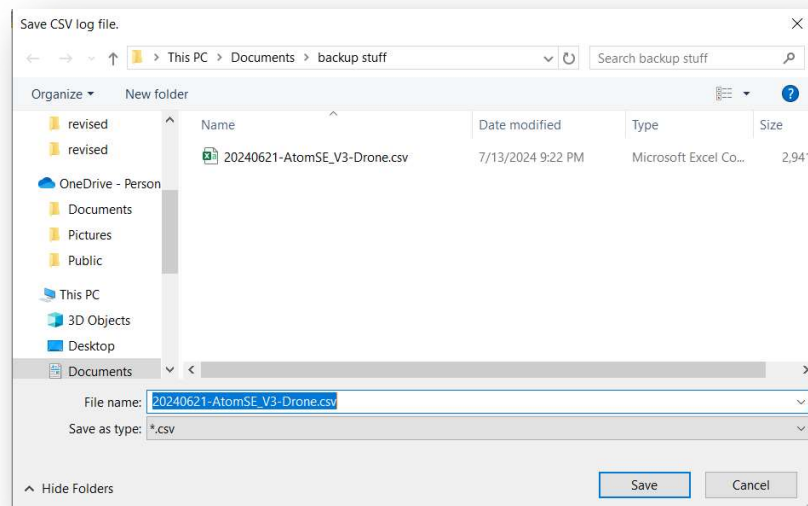
Flight	Duration	Dist Flown	Max Distance	Max Altitude	Max H Speed	Max V Speed
Flight #1	0:09:12	2,139 ft	462 ft	253 ft	13 mph	4 mph

This summary screen will allow you to export the full flight log information as a “CSV” style file. This file can be viewed in another application such as Microsoft Excel. There are two buttons on this screen in the upper right corner.



### **Save CSV Log File Button**

This button will bring up a save window asking you where you wish to save the full flight log information file from this flight:



You can rename and save this file anywhere you wish. After you save the file, you can then go look at it in another application such as Microsoft Excel.

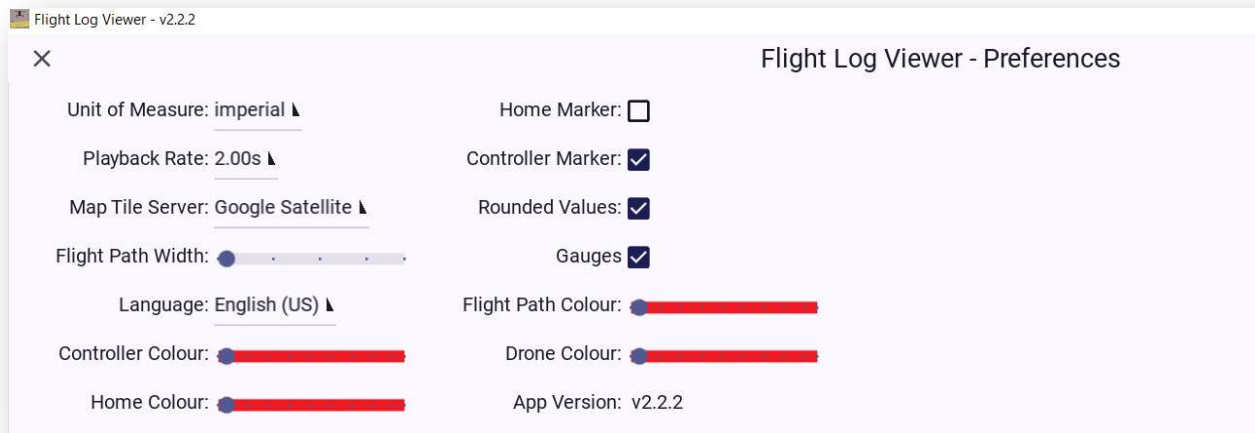


### Display Preferences Screen Button

This button will take you to the Flight Log Viewer preferences screen.

### Flight Log Viewer Preferences Screen

The preferences screen is where you can set several map options within the application.



### Unit of Measure

You can select between “Imperial” and “Metric”.

### Playback Rate

The playback rate can be adjusted between .5s and 2s. This value in combination with the map playback selection affects the overall speed of your playback.

### Map Tile Server

The map tile server selections can be selected here. Available options are OpenStreetMaps, Google (Standard or Satellite) and Open Topo.

### Flight Path Width

This slider controls the width of the line depicting your flightpath.

### Flight Path Color

This slider controls the color of the line of the flight path.

### **Drone Color**

This slider changes the color of the drone icon which travels along the path.

### **Home Marker**

A checkbox in this selection will show the home launch point marker on the map.

### **Controller Marker**

A checkbox in this selection will show the GPS location of your controller on the map.

### **Rounded Values**

A checkbox in this selection will round the log value for use in the map playback. Note: If you toggle this value you will need to go back out of the Map view and reselect the flight log you wish to playback.

### **Gauges**

A checkbox in this selection will display the analog gauges on the flight map.

### **Language Preference**

Sets the preferred displayed language. Note: You will need to restart the application for this setting to take effect.

### **Controller Color**

This slider changes the color of the controller icon on the map if it is being displayed.

### **Home Color**

This slider changes the color of the home launch point icon on the map if it is being displayed.