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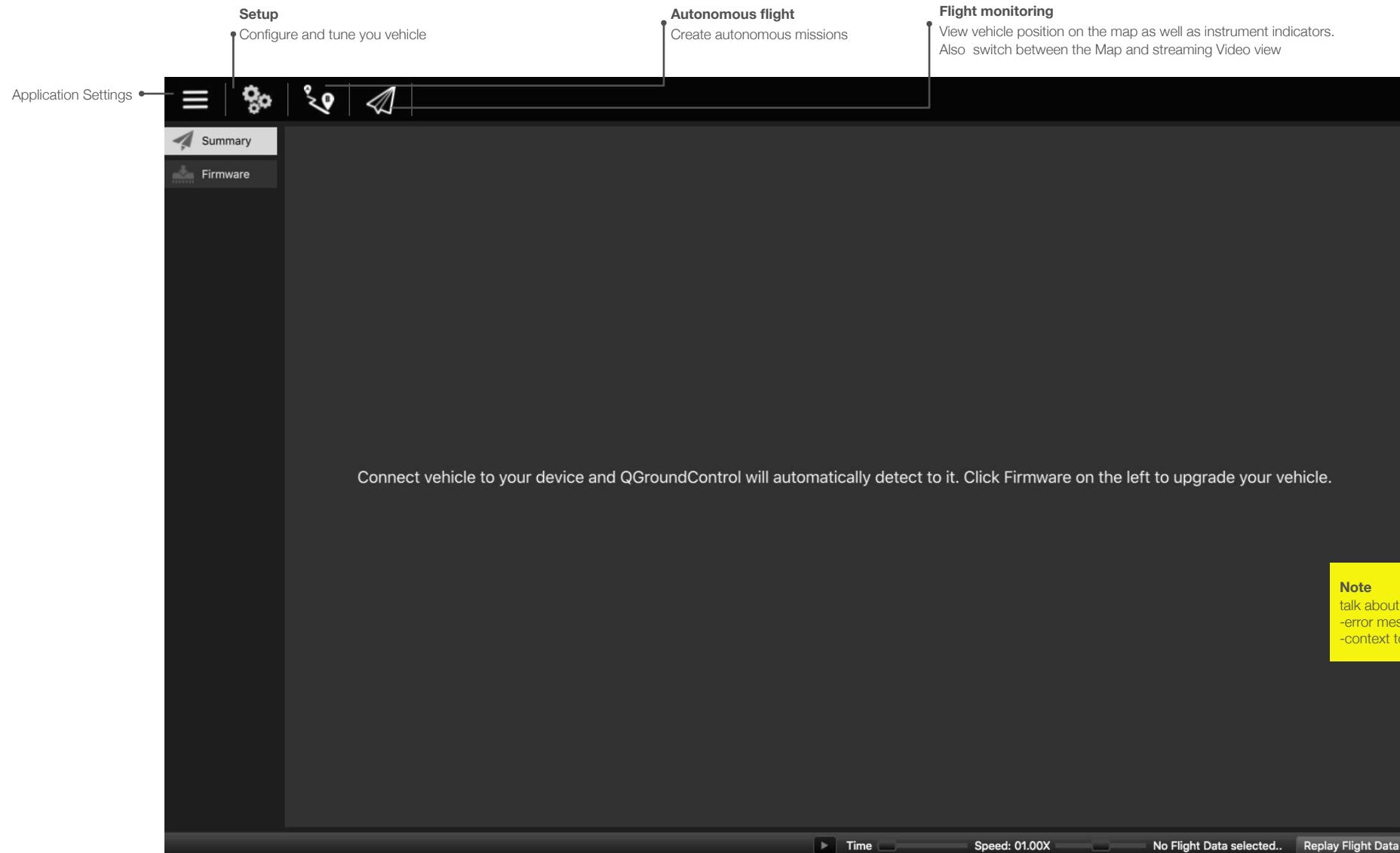
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This is QGroundControl

The first step is to [download](#) and install it. On its first screen you can access the main functionalities, like setup your drone, plan and monitor your flight.



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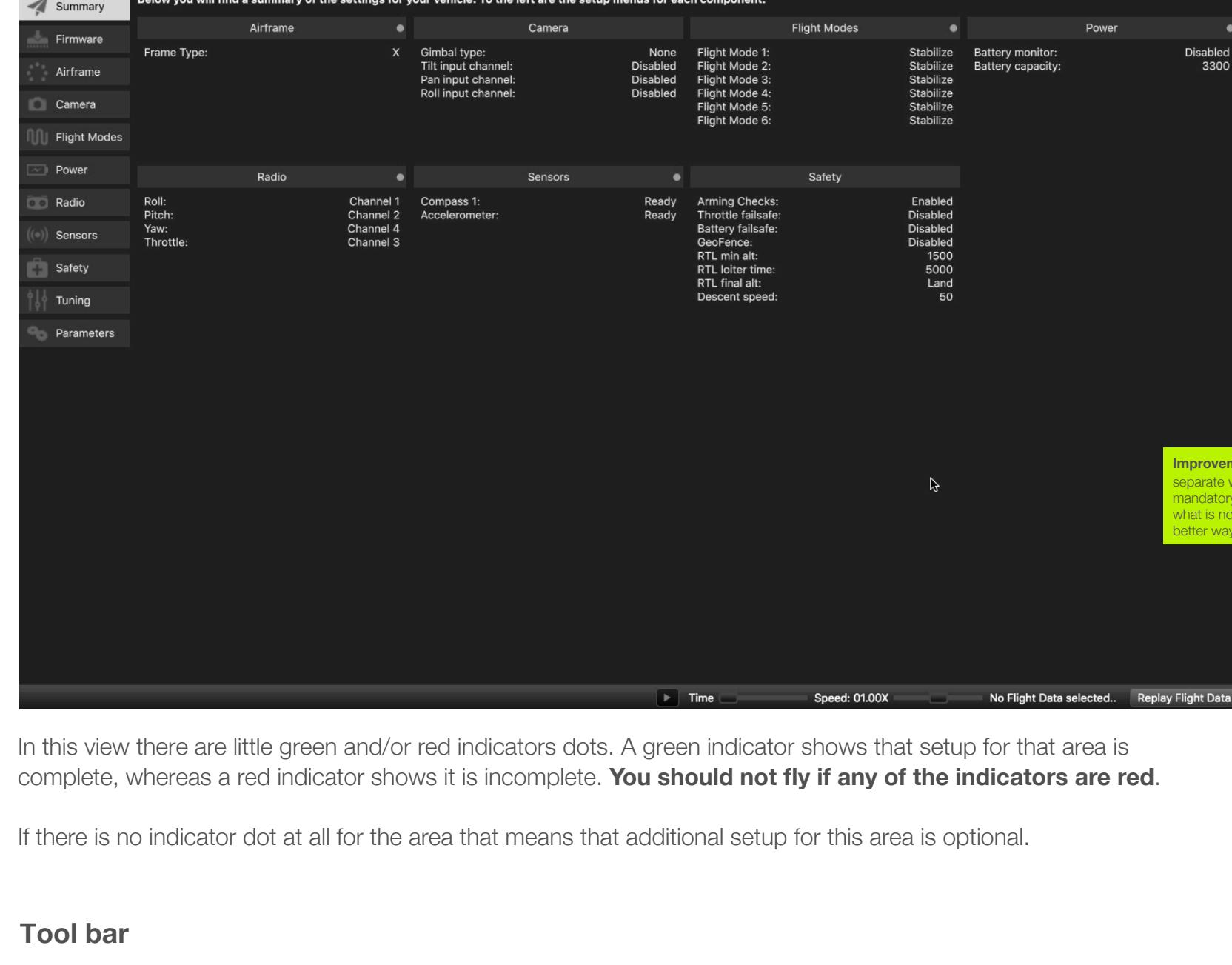
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Connecting the drone

In most cases if you have connected to your vehicle directly via USB, through a telemetry radio or over WiFi you should not need to take any additional steps. QGroundControl should detect your vehicle and connect it automatically.

Here is how QGroundControl looks like when your vehicle is connected.

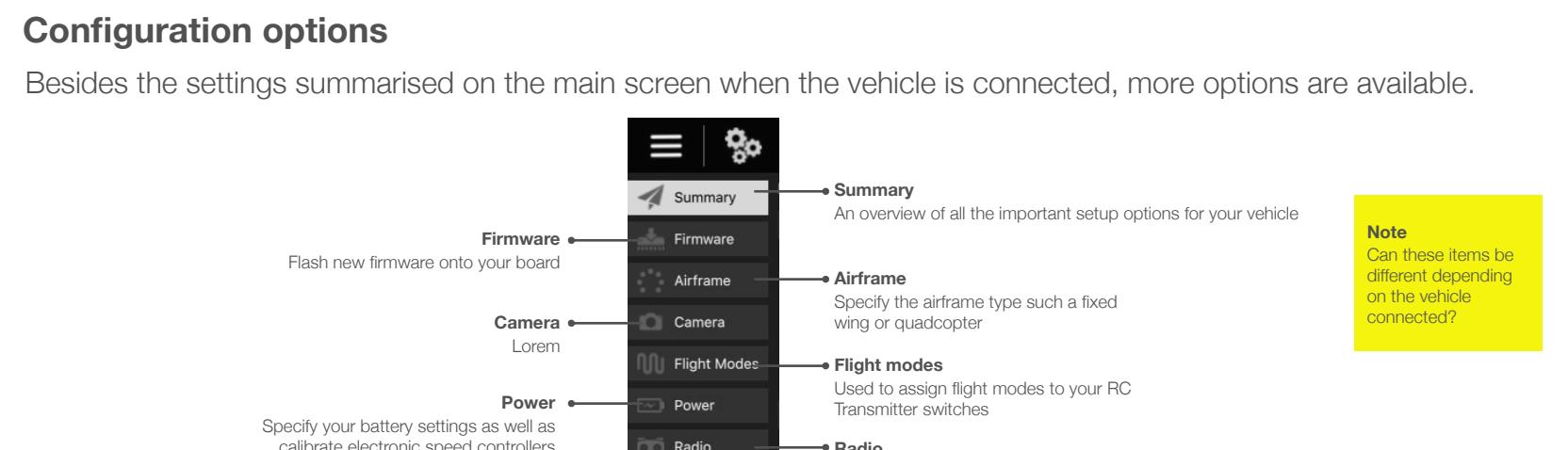


In this view there are little green and/or red indicators dots. A green indicator shows that setup for that area is complete, whereas a red indicator shows it is incomplete. **You should not fly if any of the indicators are red.**

If there is no indicator dot at all for the area that means that additional setup for this area is optional.

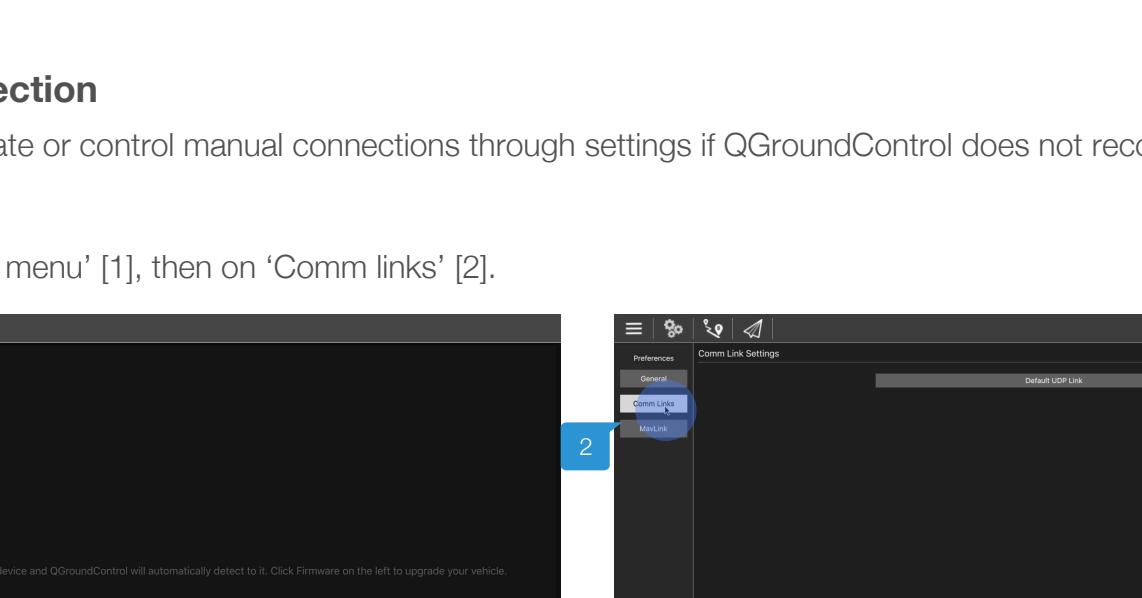
Tool bar

You will notice that the toolbar contains additional information when it is connected. By clicking on any of these items you can see the status of each sensor.



Configuration options

Besides the settings summarised on the main screen when the vehicle is connected, more options are available.



Manual connection

You can also create or control manual connections through settings if QGroundControl does not recognise your device.

Click on 'settings menu' [1], then on 'Comm links' [2].



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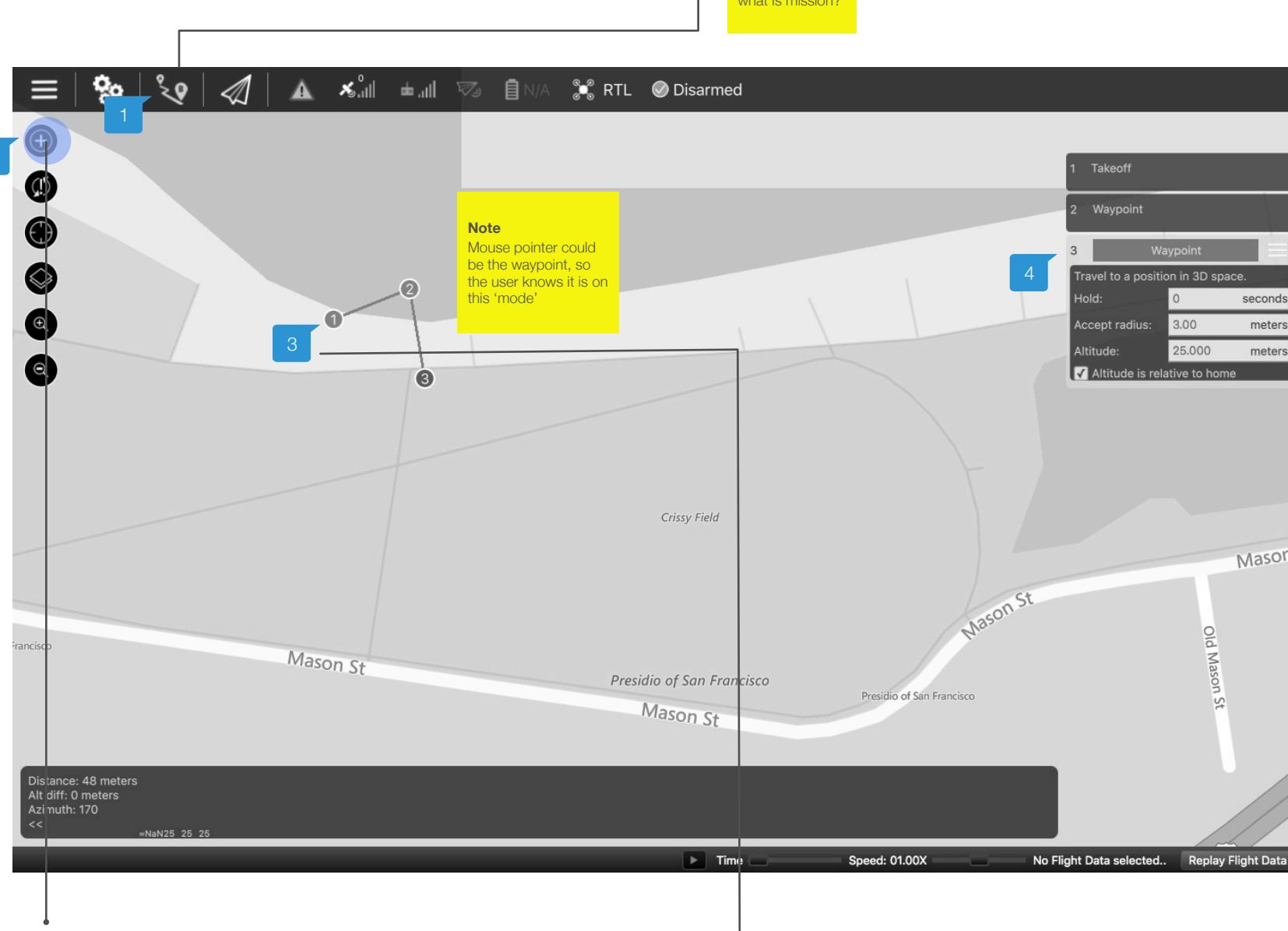
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Autonomous flight

1. Switch to the autonomous flight tab to plan a new mission.

Note
what is mission?



2. Click here to create a waypoint.

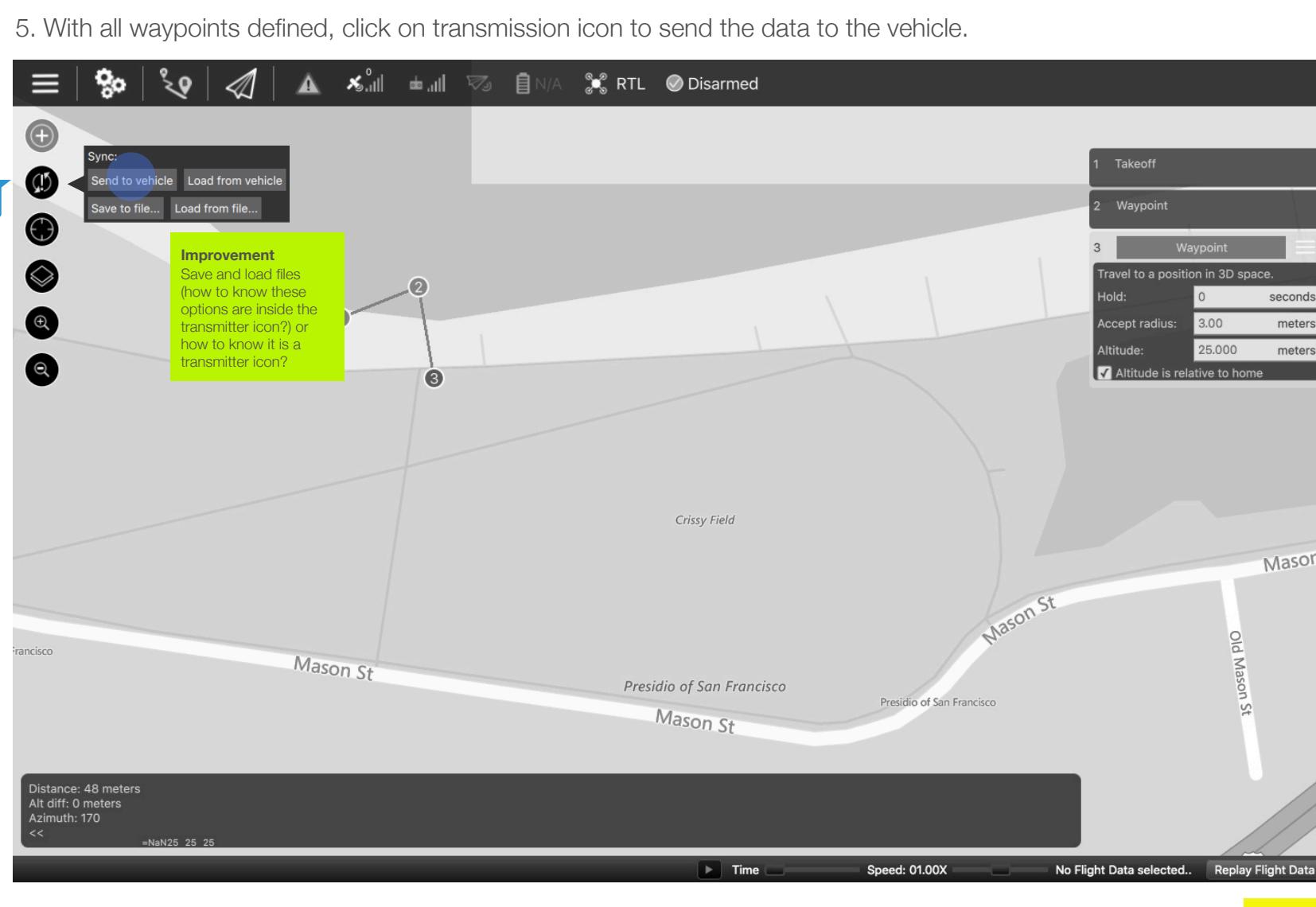
3. Then click on the map to position it. Repeat until you complete the entire mission route.

Note
what is waypoint?

4. If necessary, edit the waypoints through this dialogs.

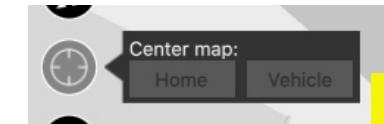


5. With all waypoints defined, click on transmission icon to send the data to the vehicle.



Through this option you can also load a mission from the vehicle or from a file and save to file to load in another interface or vehicle.

Other configurations on this view are to change the map view or the map center.



Note
Feedback the mission was uploaded successfully

Note
How to know where is home or how to edit it?

Note
How to run the mission?

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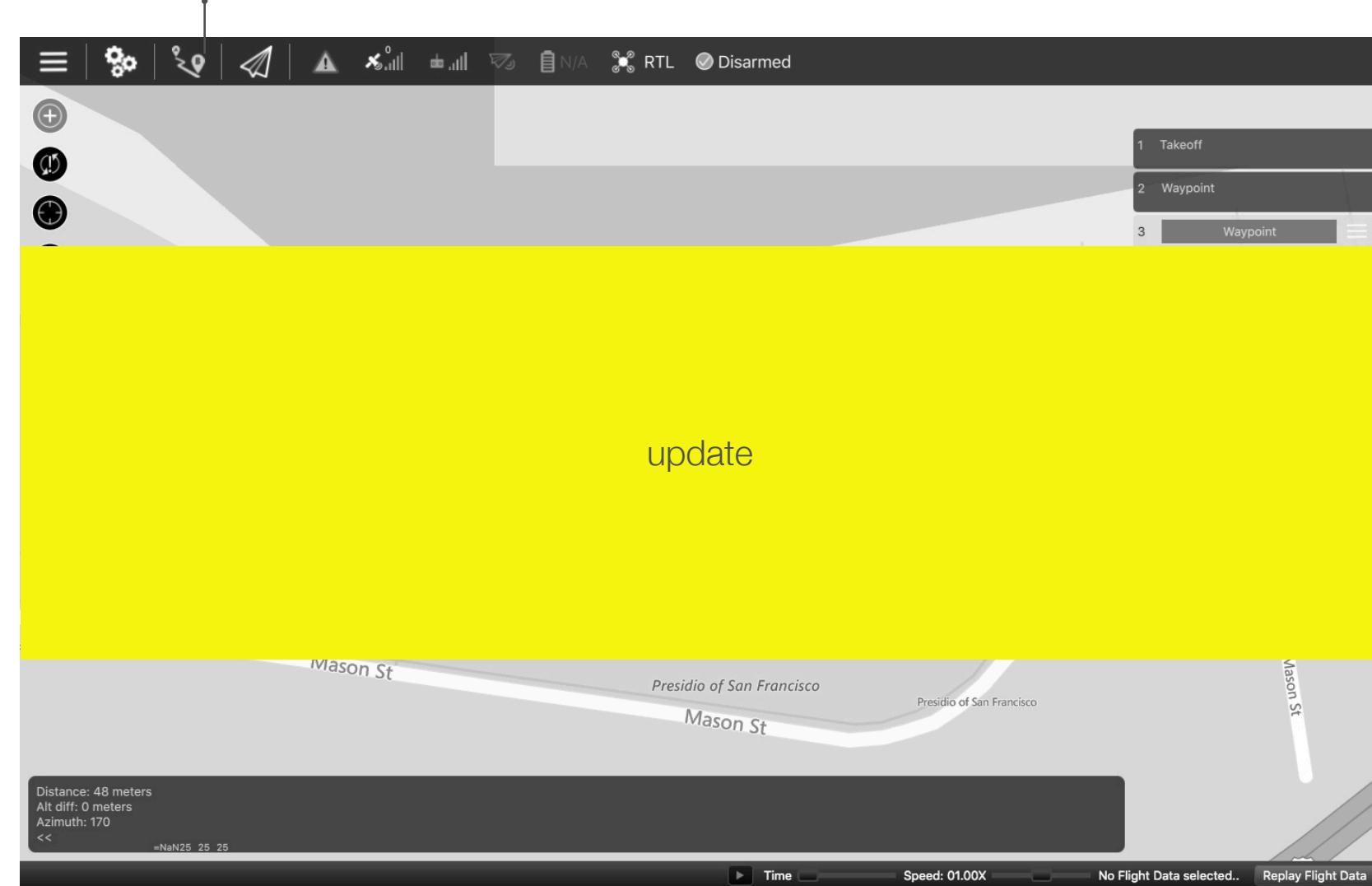
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Flight monitor

[wip]

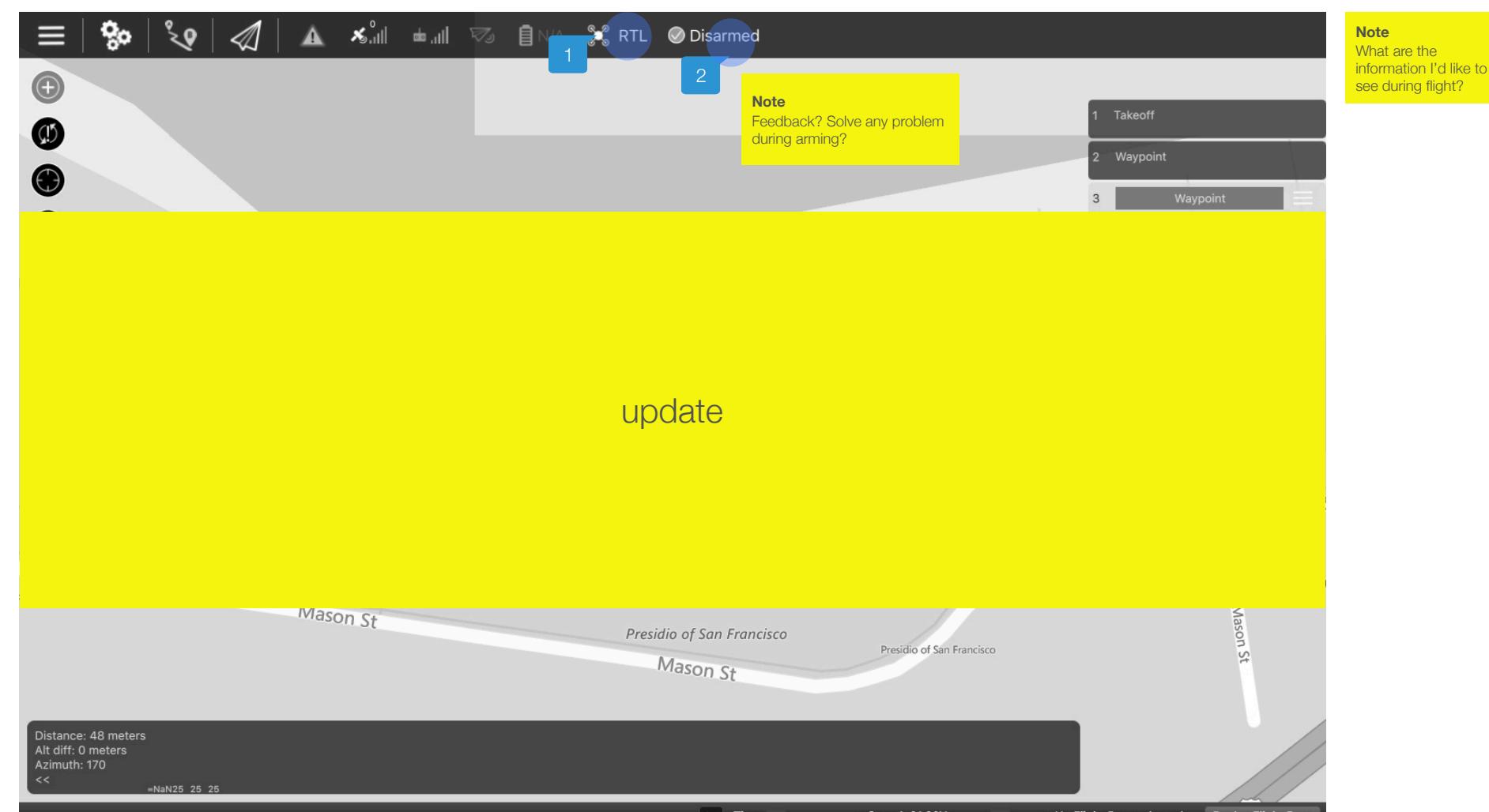
Switch to the flying tab. The mission should be visible on the map.



update



Click on the current flight mode to change it to MISSION [1] and click on DISARMED to arm the vehicle [2].



update

Changing mission in flight

If the vehicle is already in flight it will fly to the first leg of the mission and then follow it.

Note
Is it possible to change the mission with drone in flight?

Note
If the vehicle is already in flight, what is the action to say to drone it should follow the mission?

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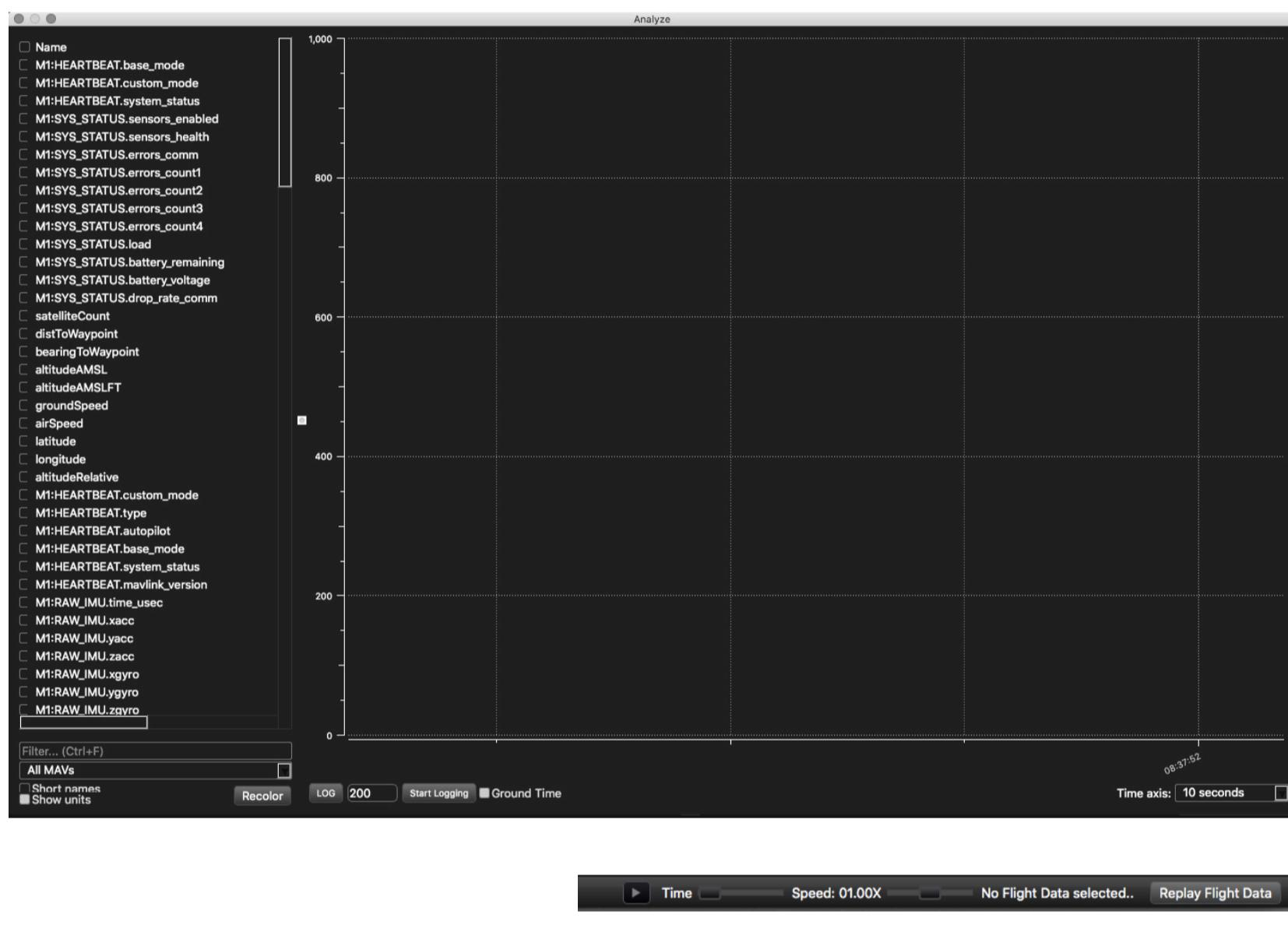
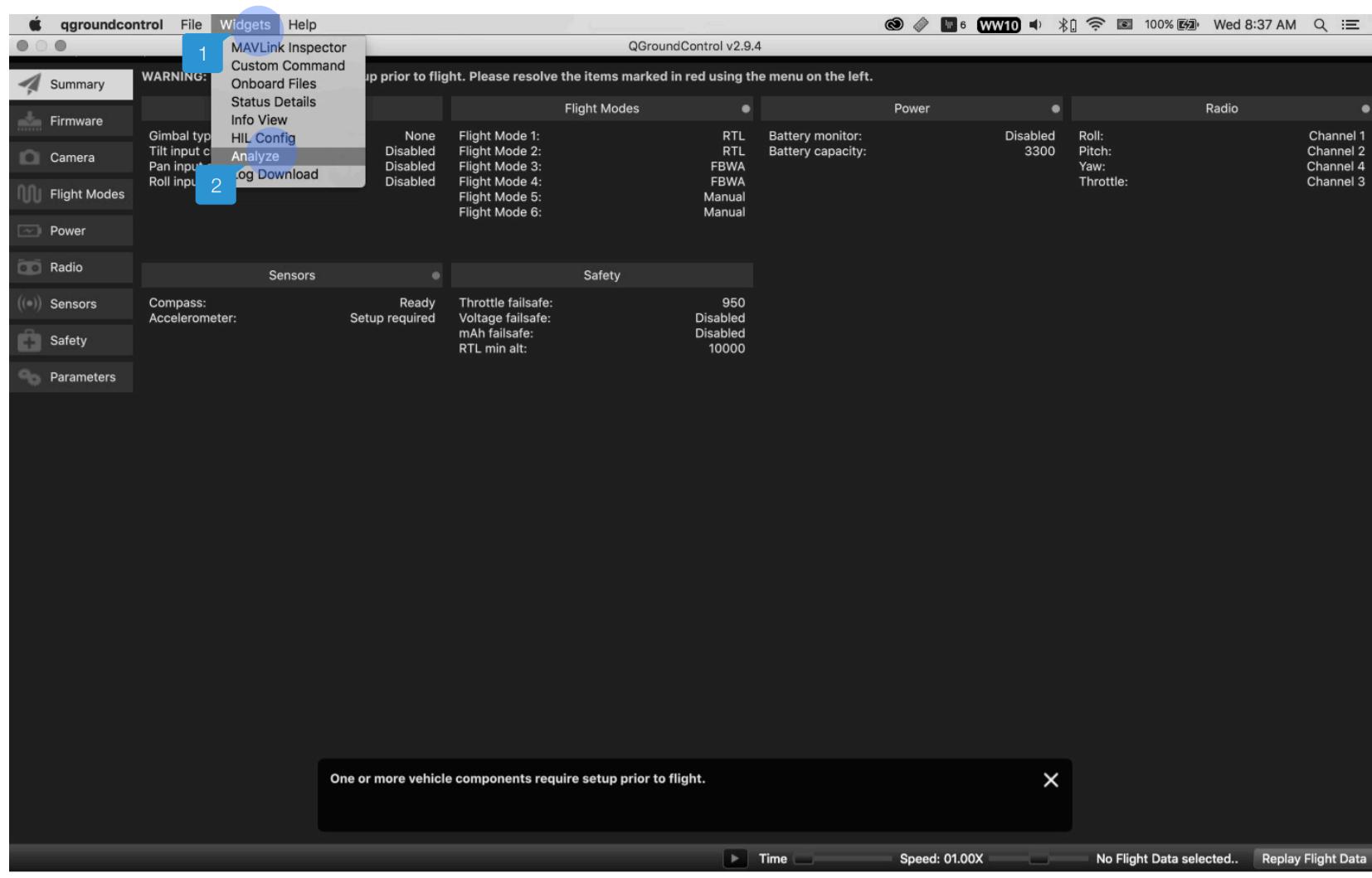
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Log Analysis [wip]

To access the data logged, click on 'widgets' [1] then on 'Analyse' [2].



Log download

Log Download			
ID	Date	Size	Status
			Refresh
			Download
			Erase All
			Cancel

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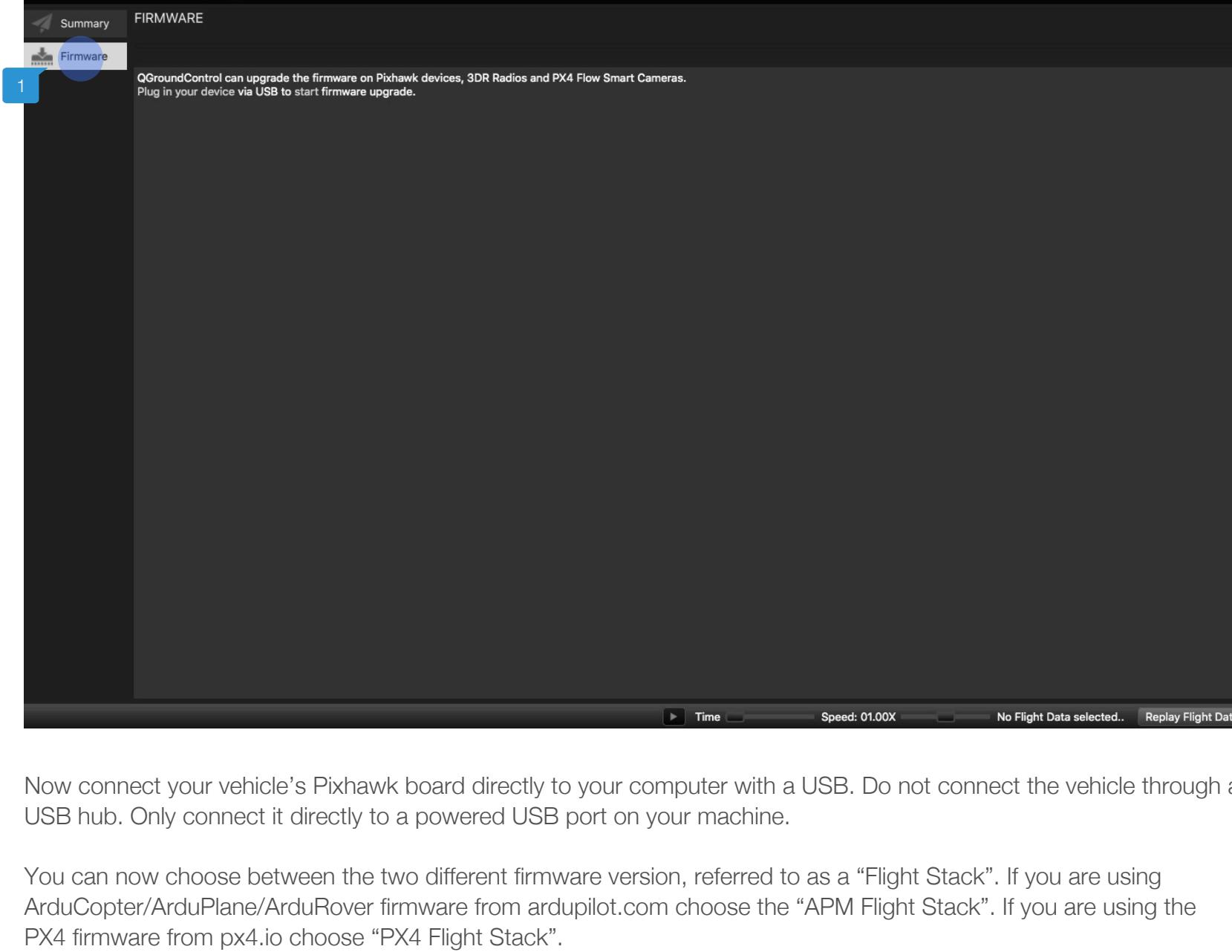
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Loading firmware

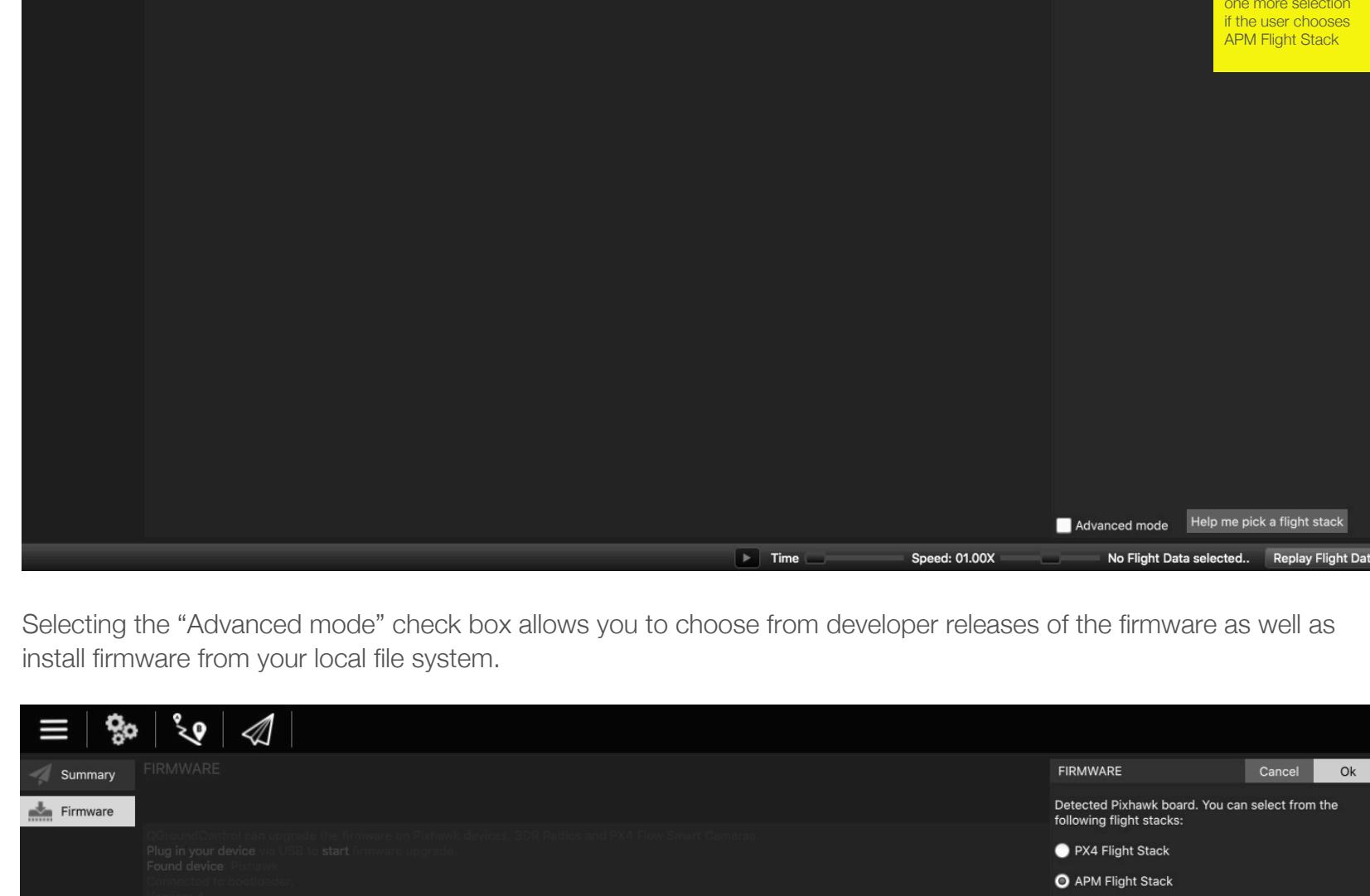
Firmware is what makes your vehicle run and have all of its great capabilities. Using QGroundControl you can install the latest versions of the firmware of your choice.

Before you can install firmware onto your vehicle all USB connections to your vehicle, either direct or through a telemetry radio must be disconnected. Also the vehicle must not be powered by battery. Firmware Upgrade is found in the Setup View, then click the Firmware button [1].

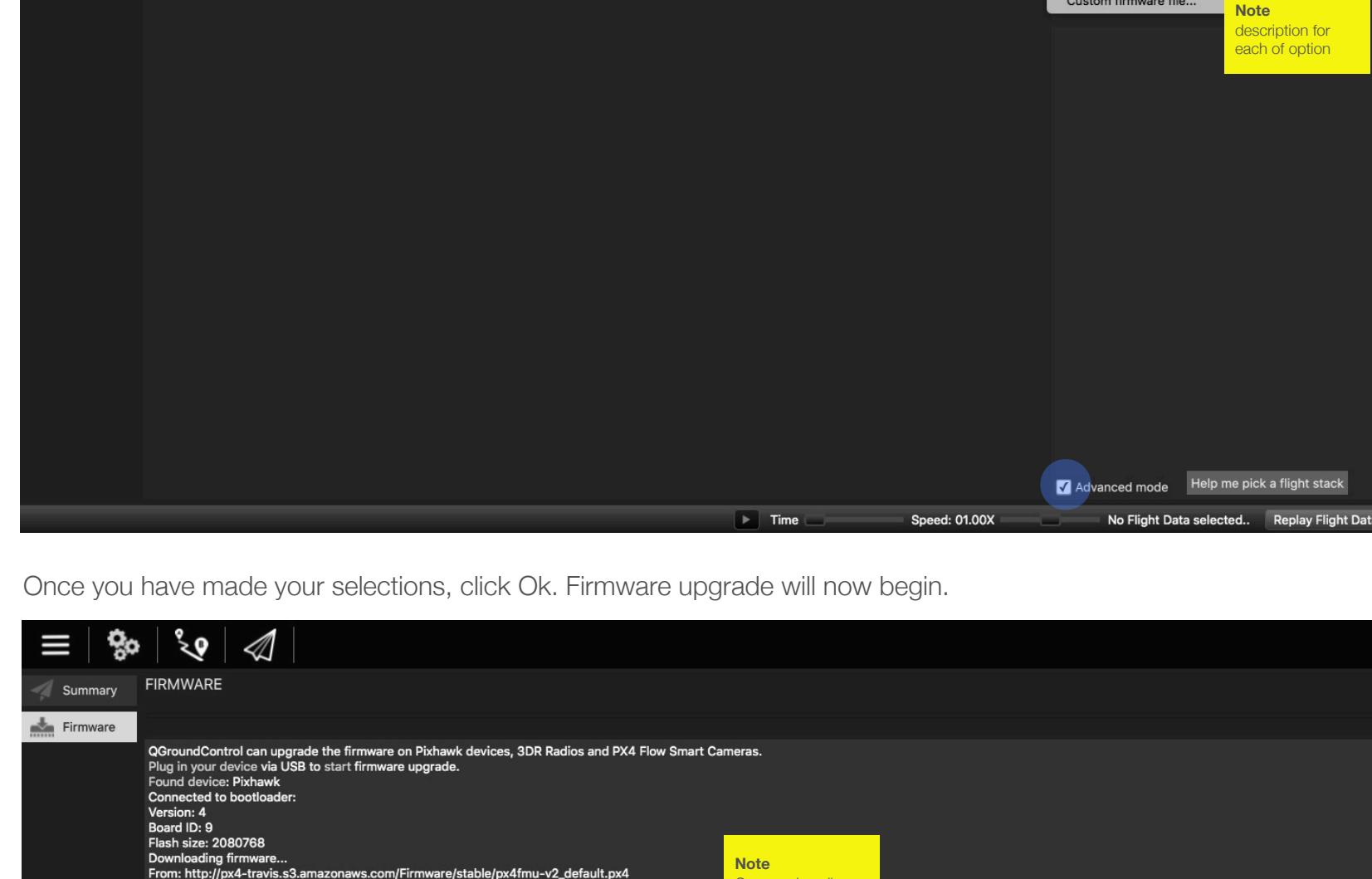


Now connect your vehicle's Pixhawk board directly to your computer with a USB. Do not connect the vehicle through a USB hub. Only connect it directly to a powered USB port on your machine.

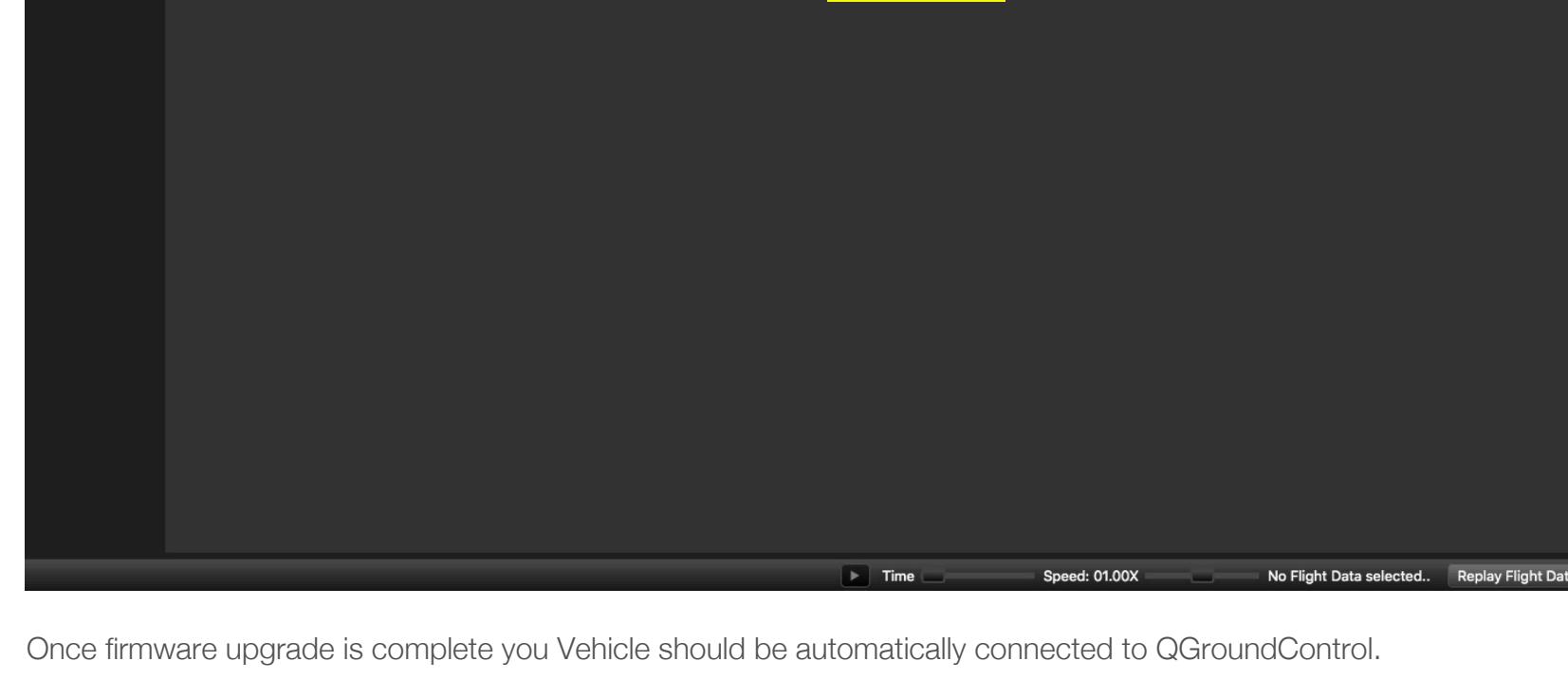
You can now choose between the two different firmware version, referred to as a "Flight Stack". If you are using ArduCopter/ArduPlane/ArduRover firmware from ardupilot.com choose the "APM Flight Stack". If you are using the PX4 firmware from px4.io choose "PX4 Flight Stack".



Selecting the "Advanced mode" check box allows you to choose from developer releases of the firmware as well as install firmware from your local file system.



Once you have made your selections, click Ok. Firmware upgrade will now begin.



Once firmware upgrade is complete your vehicle should be automatically connected to QGroundControl.

Note: Support for loading Firmware is currently not available on tablet versions of QGroundControl.



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Airframe

[wip]





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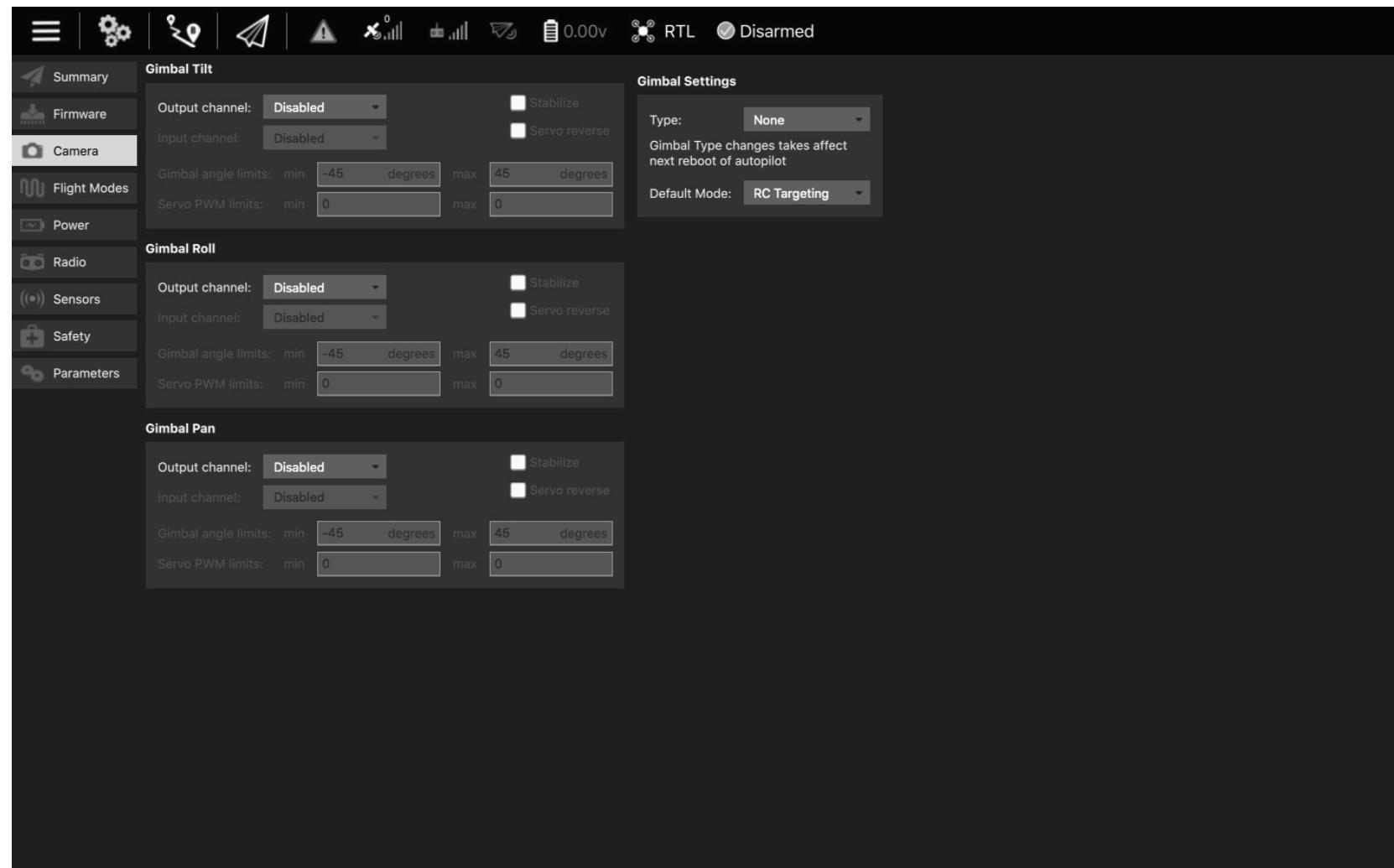
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Camera

[wip]





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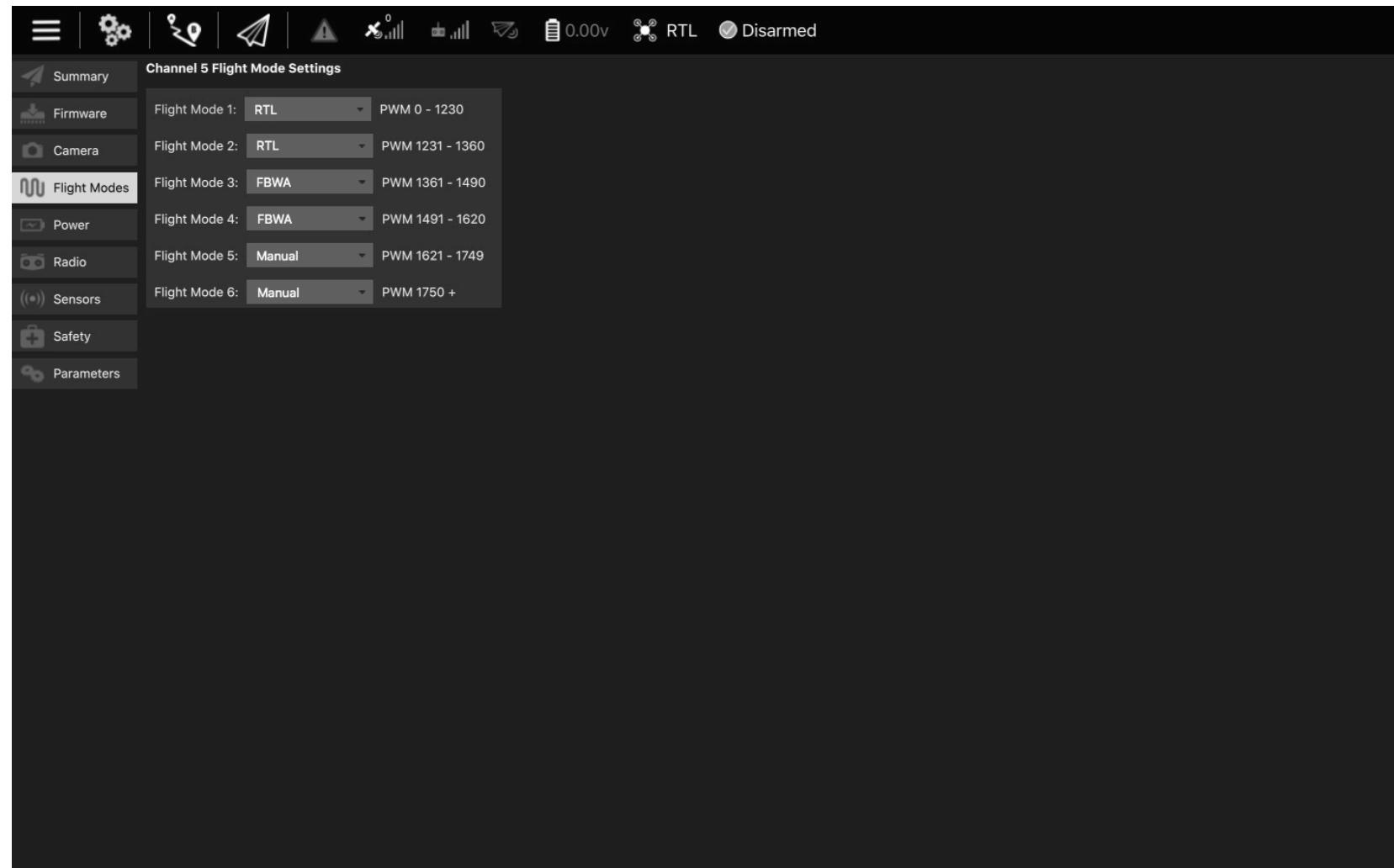
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Flight modes

[wip]





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Power

[wip]





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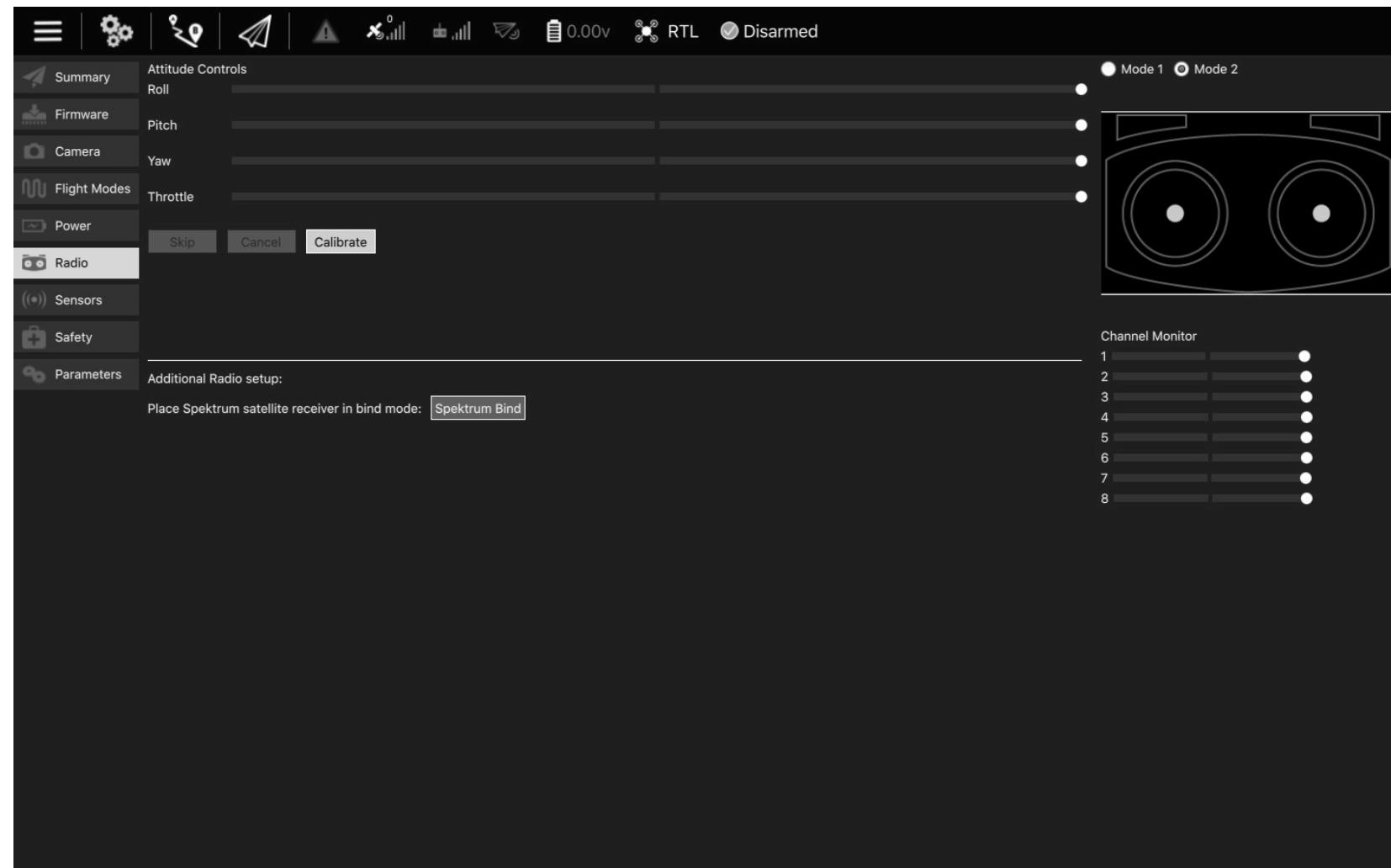
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Radio

[wip]





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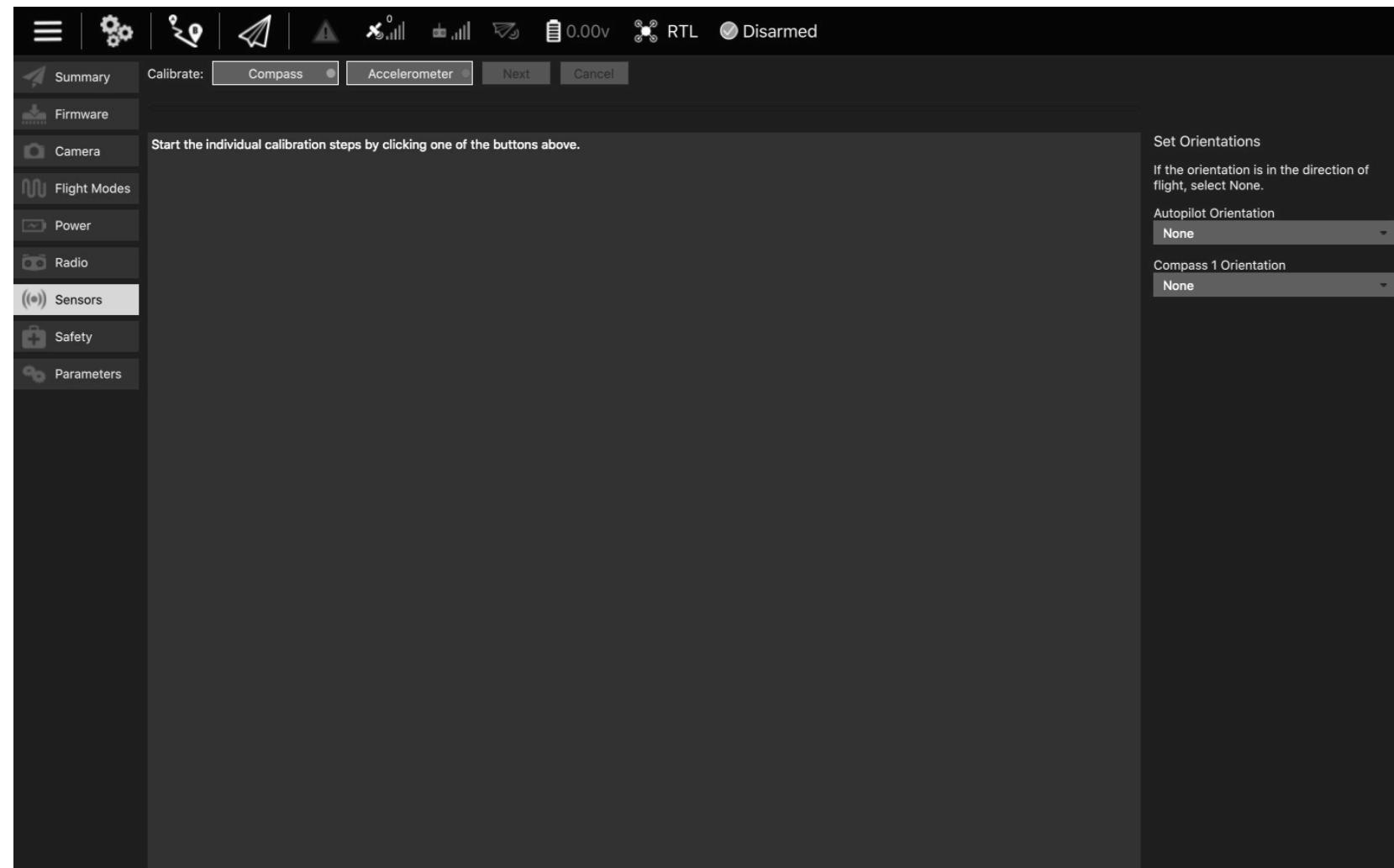
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Sensors

[wip]





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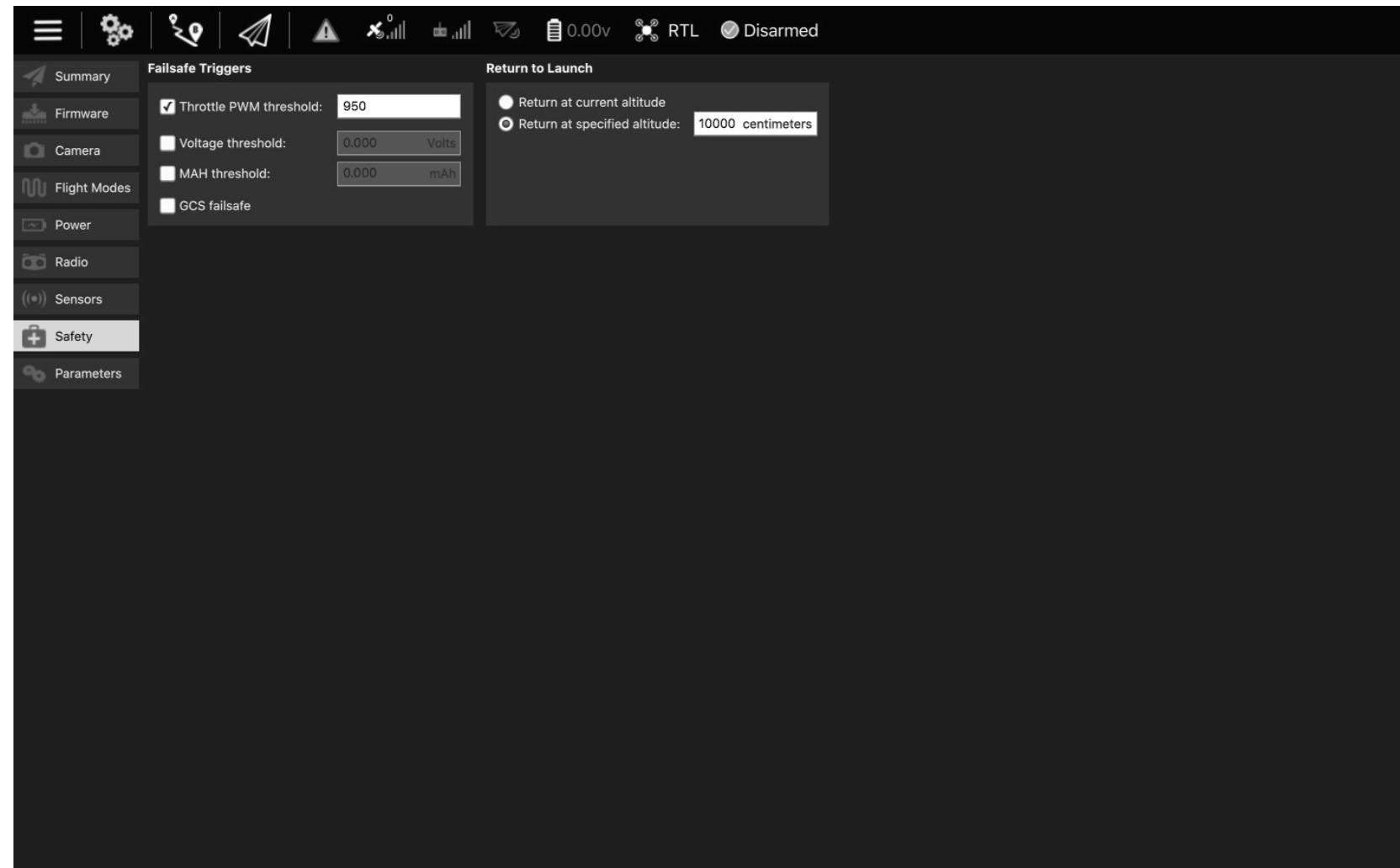
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Safety

[wip]



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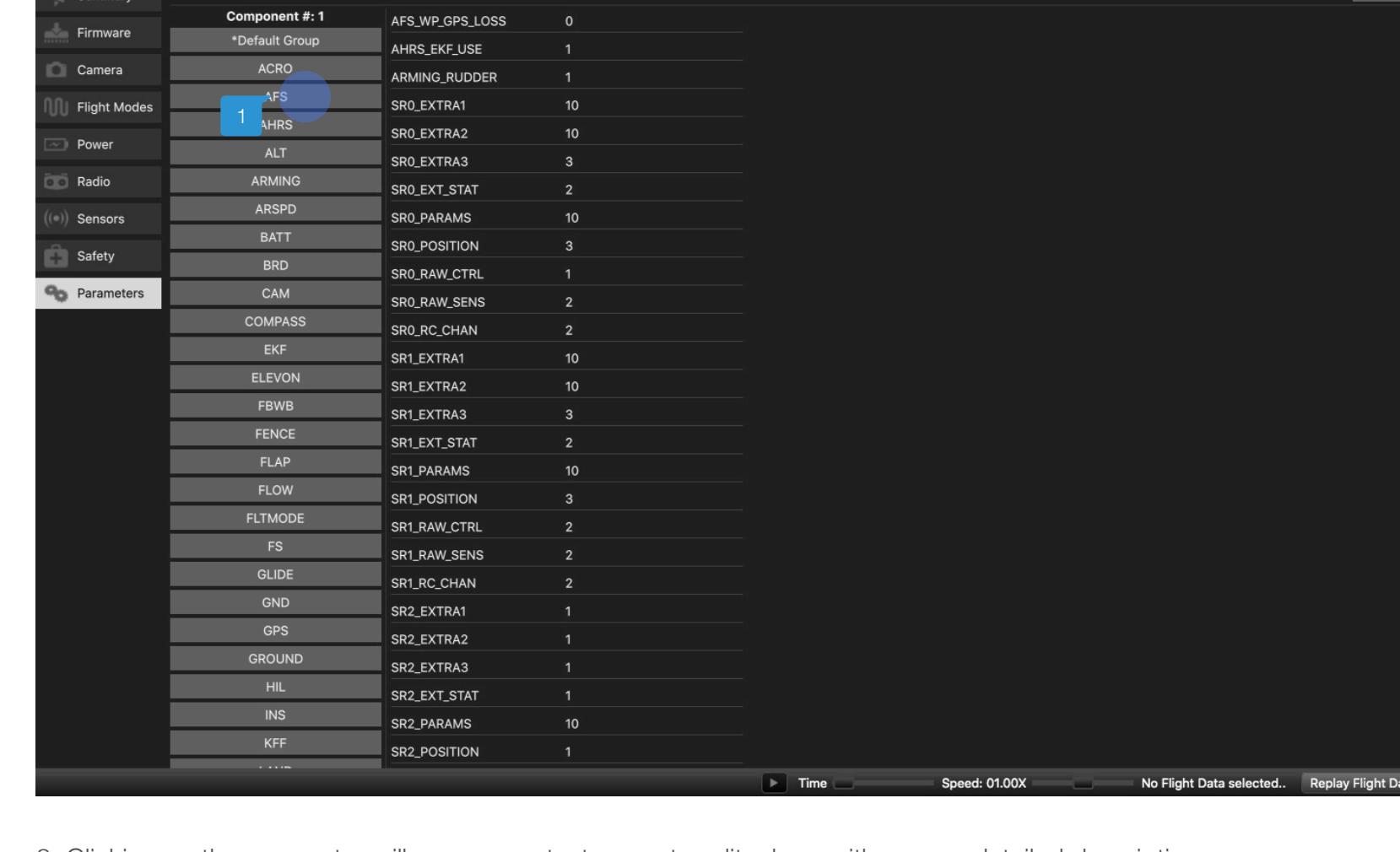
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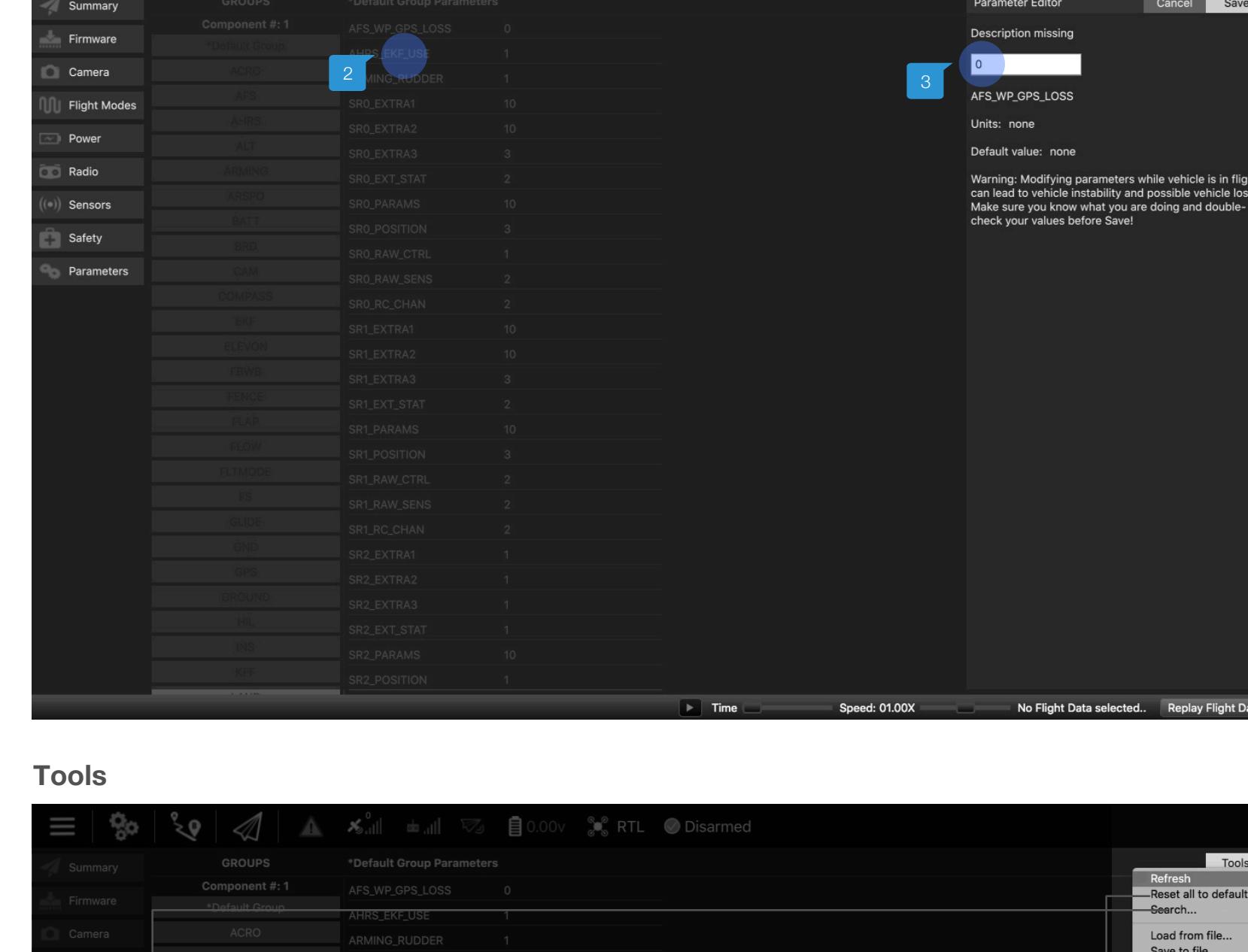
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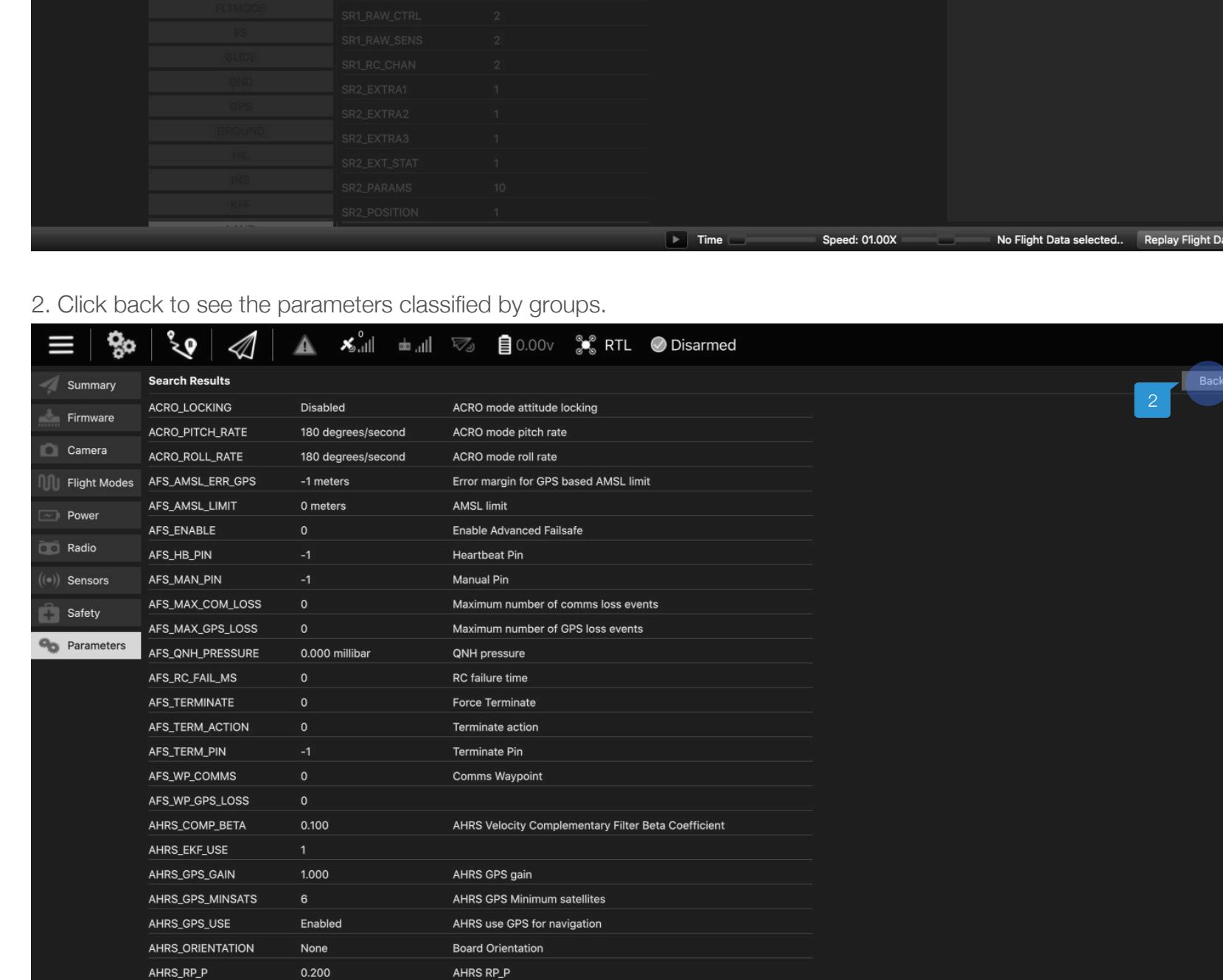
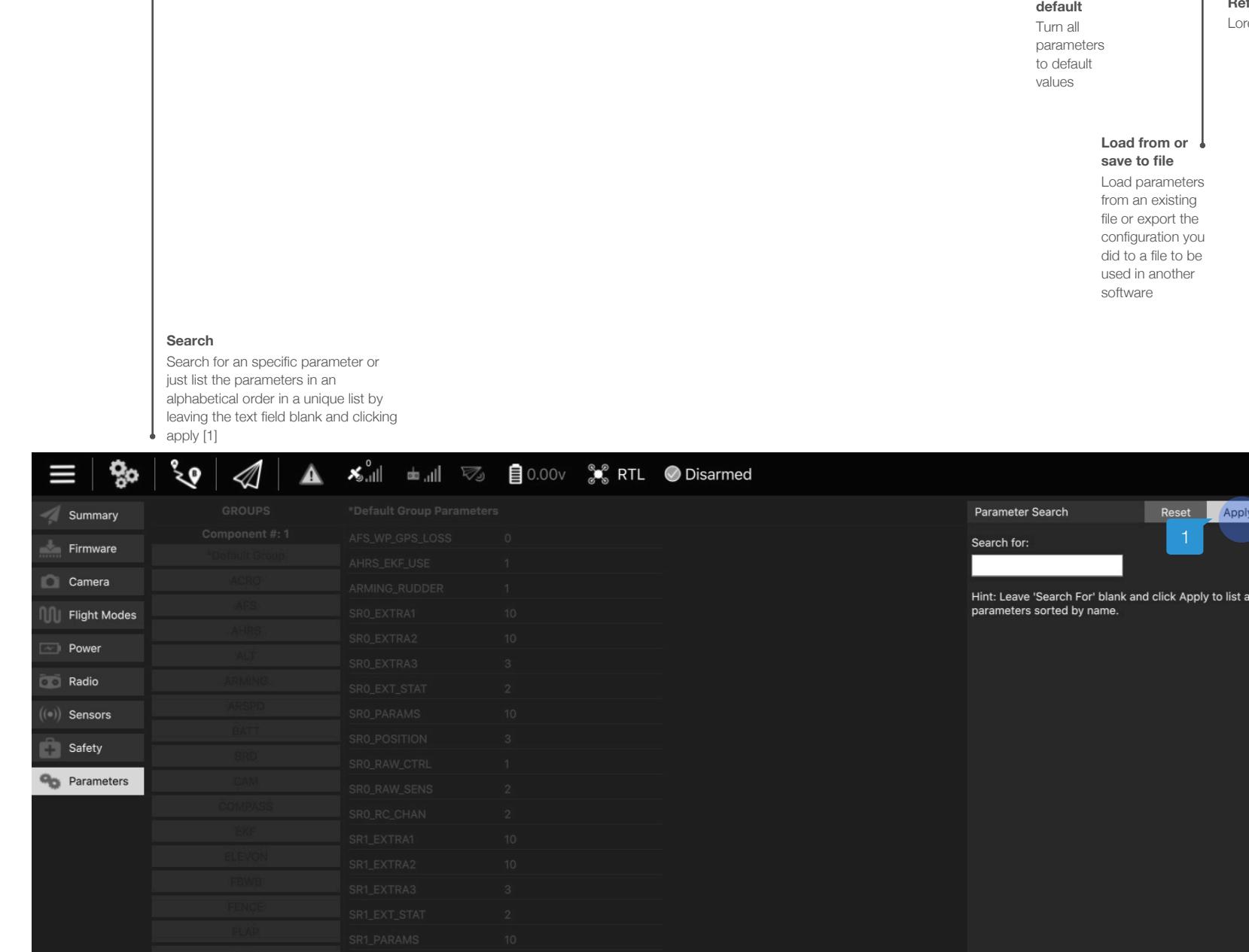
On the setup tab you will see the default parameters already listed when you access that. Click on any other group to see the respective parameter list [1] or on any parameter to change it or on .



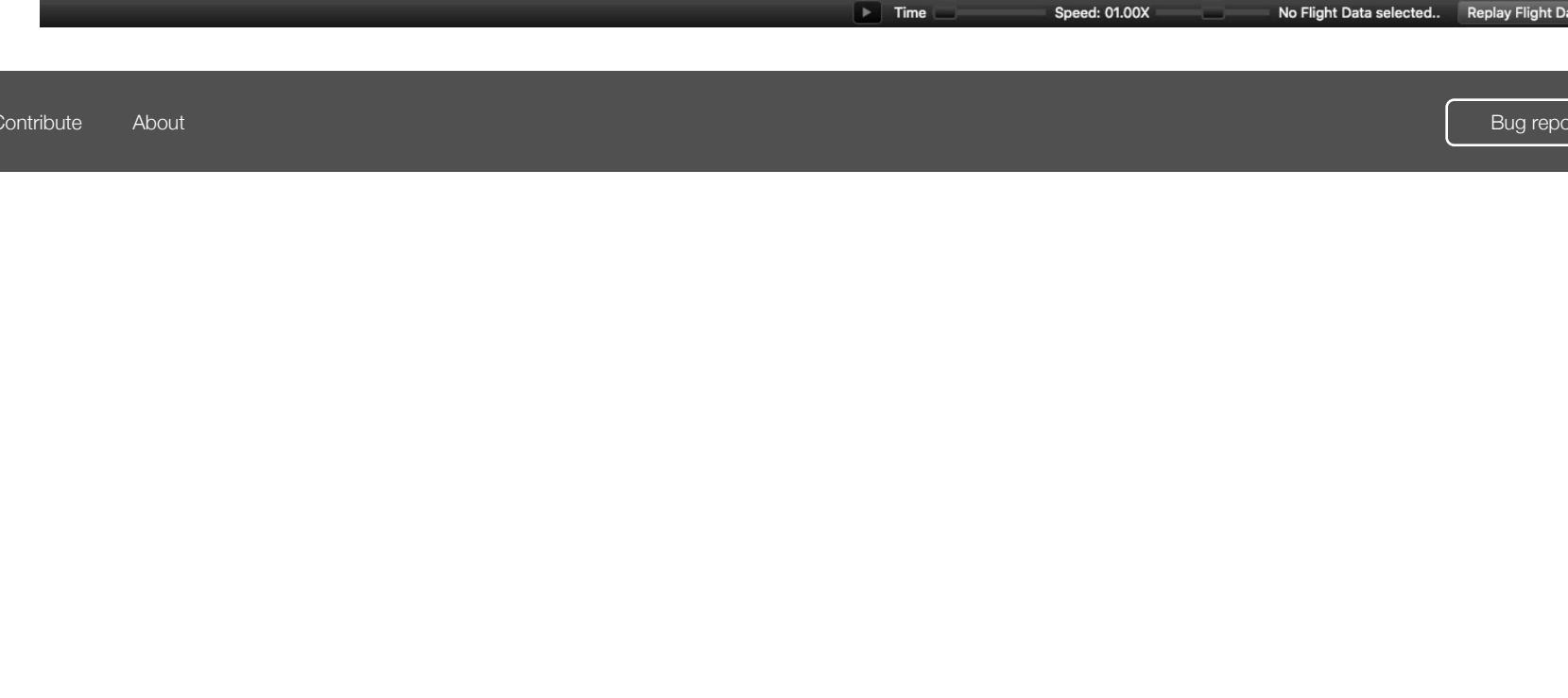
2. Clicking on the parameter will open a context menu to edit, along with a more detailed description.



Tools



2. Click back to see the parameters classified by groups.





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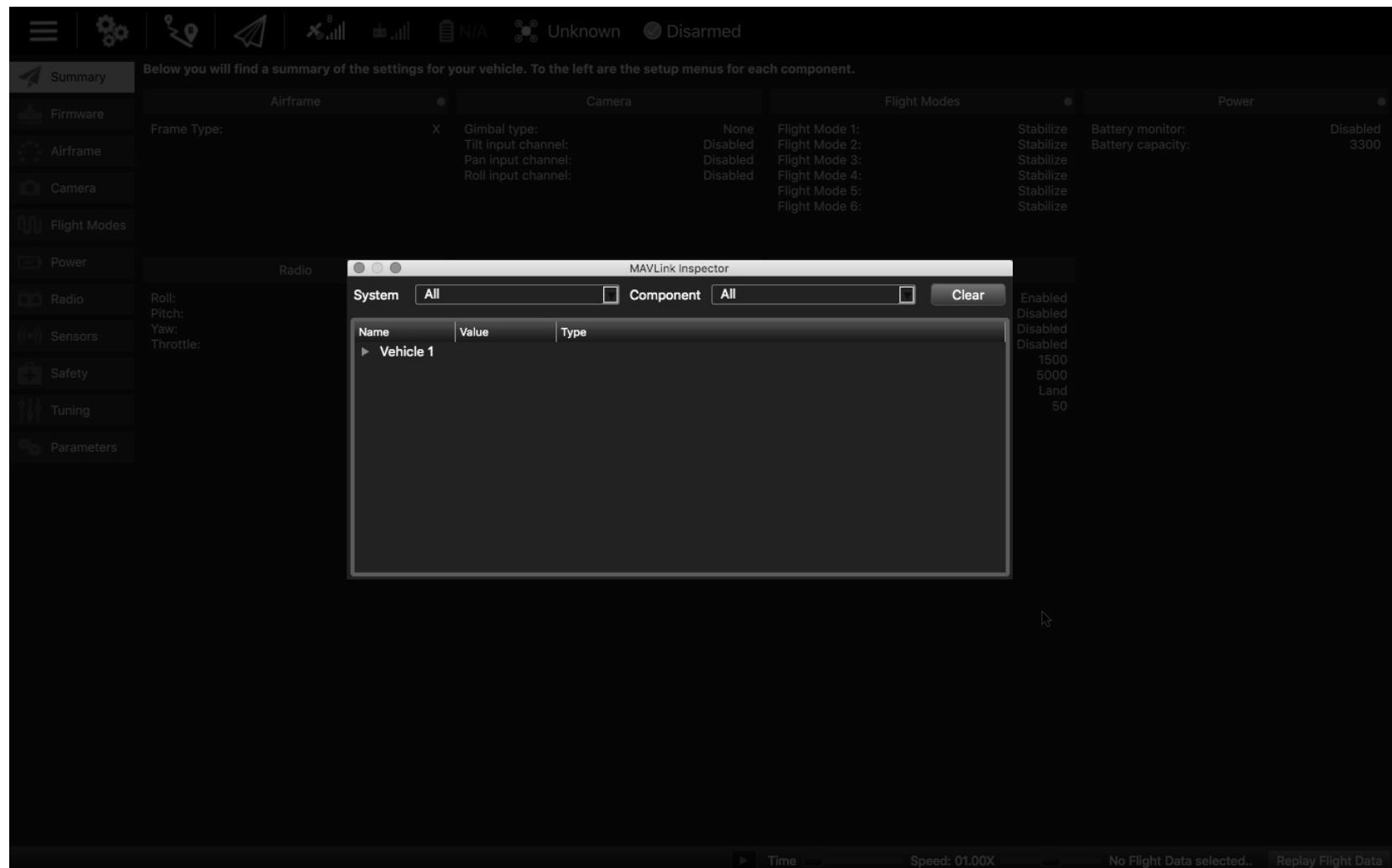
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MAVLink Insp

[wip]





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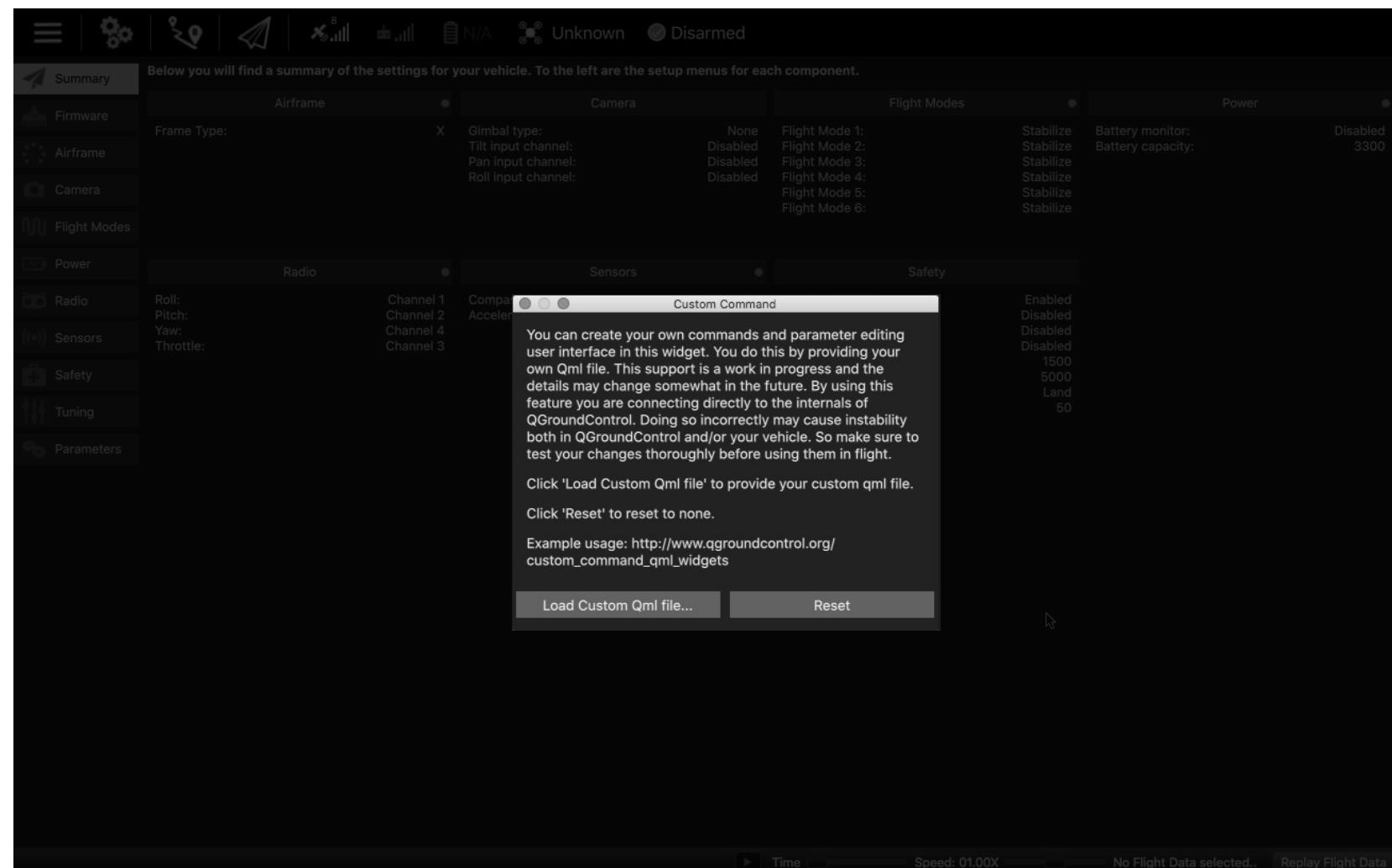
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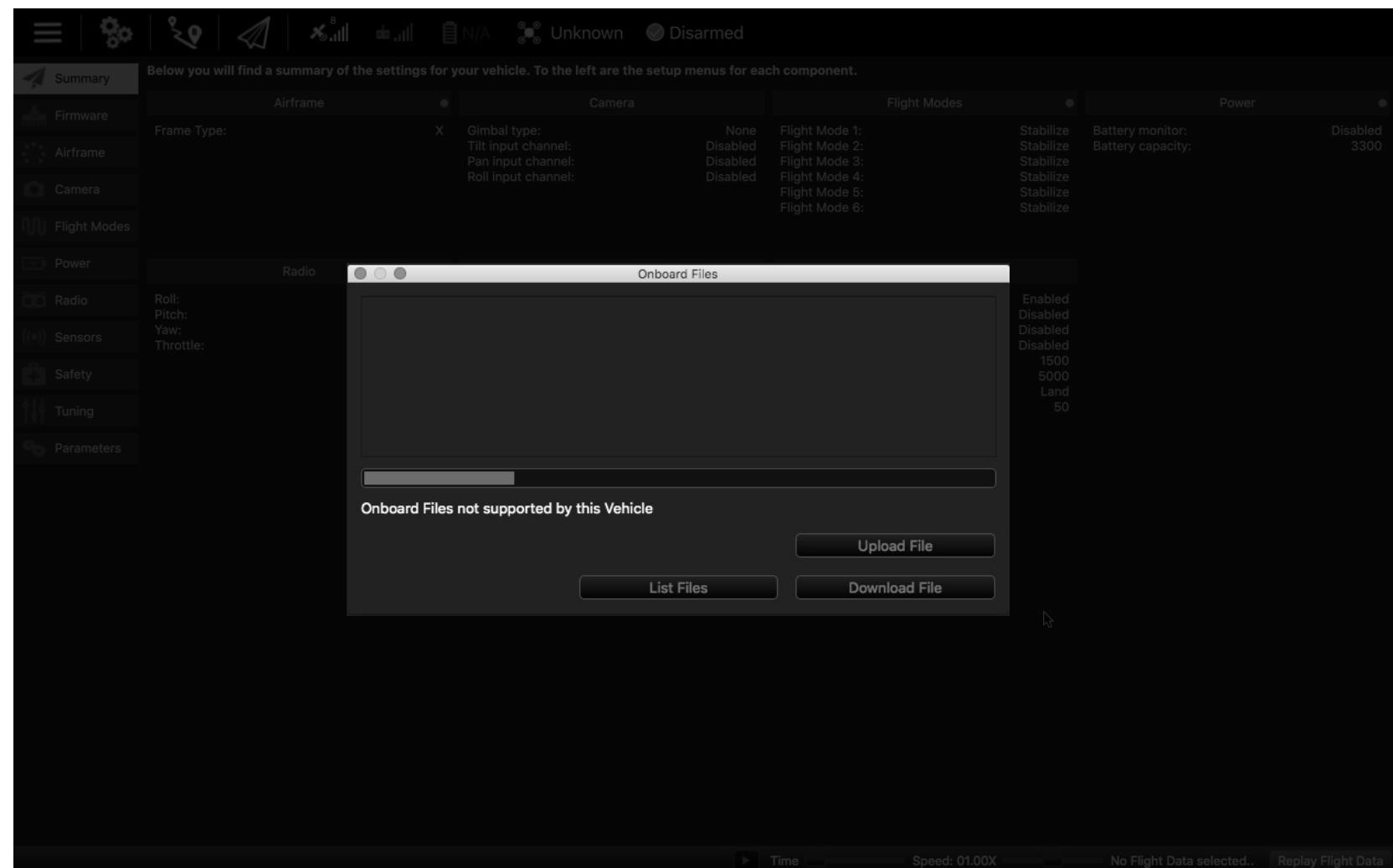
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Onboard files

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Status details

[wip]

The screenshot shows the 'Status details' tab in the QGroundControl interface. At the top, there's a summary bar with icons for battery, signal strength, and other status indicators. Below it, a message says: "Below you will find a summary of the settings for your vehicle. To the left are the setup menus for each component." The main area is divided into several sections:

- Airframe:** Frame Type: X, Gimbal type: None, Tilt input channel: Disabled, Pan input channel: Disabled, Roll input channel: Disabled.
- Flight Modes:** Flight Mode 1: Flight Mode 2: Flight Mode 3: Flight Mode 4: Flight Mode 5: Flight Mode 6: Stabilize.
- Power:** Battery monitor: Disabled, Battery capacity: 3300.
- Radio:** Roll: Channel 1, Pitch: Channel 2, Yaw: Channel 4, Throttle: Channel 3.
- Sensors:** Compass 1: Accelerometer, Ready: Pending, Arming Checks: Enabled.
- Safety:** Throttle failsafe: Disabled, Altitude limit: 1500, Takeoff time: 5000, Land alt: Land, Safe speed: 50.

In the center, a modal window titled "Status Details" displays real-time sensor data:

Parameter	Value	Unit
Battery	0.00 V	0%
MAV RX Loss	0.00 %	0%
MAV TX Loss	0.00 %	0%
MCU Load	13.90 %	13%
CPU Load	13.90 %	13%

At the bottom of the screen, there are buttons for "Time", "Speed: 01.00X", "No Flight Data selected...", and "Replay Flight Data". A large right-pointing arrow is located on the right side of the interface.





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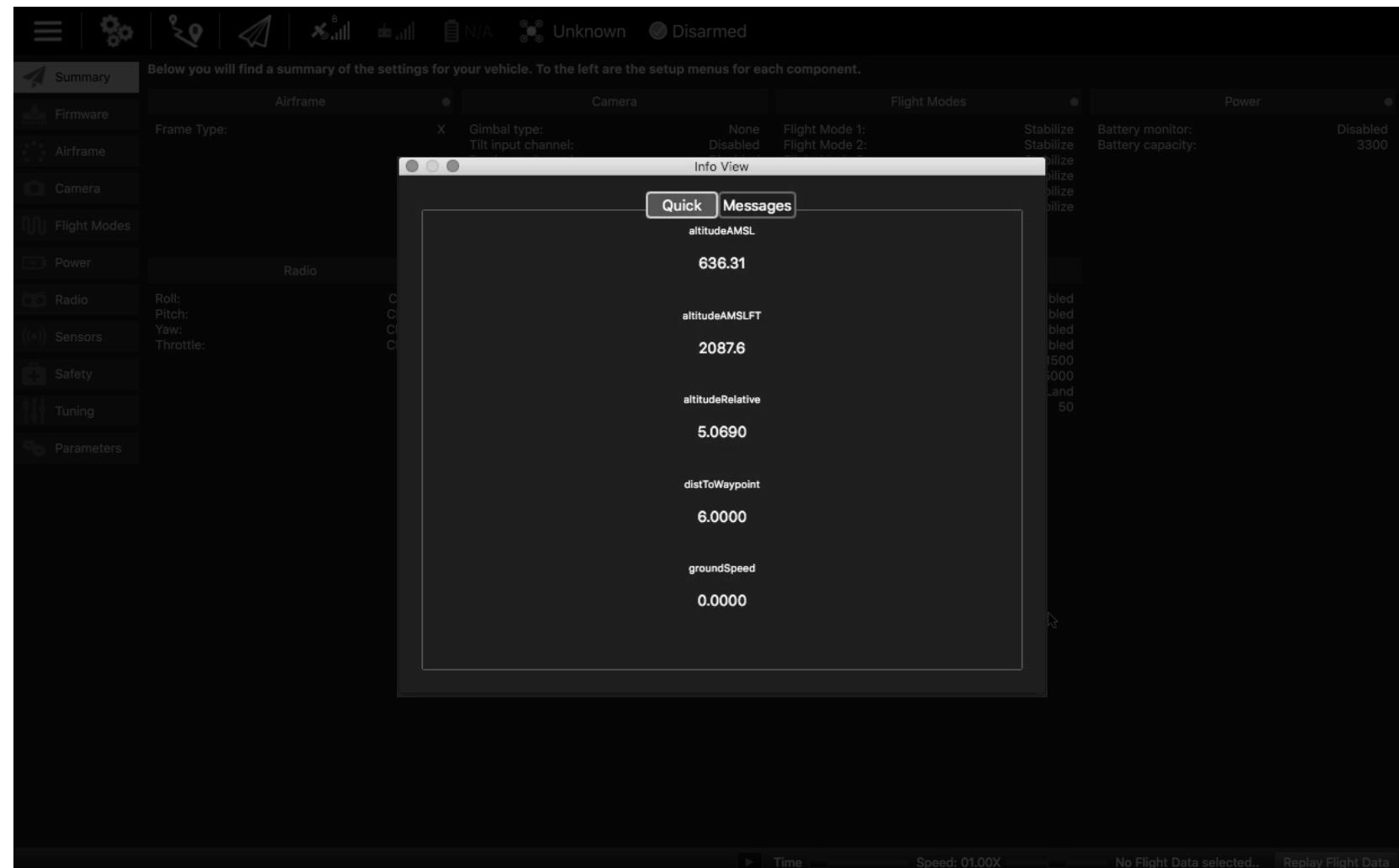
3. Advanced
3.1. MAVLink Inspector
3.2. Custom command
3.3. Onboard files
3.4. Status details

3.5. Info view
3.6. HIL config

4. Settings
4.1. General settings
4.2. Comm links
4.3. Offline maps
4.4. MavLink
4.5. Preferences

Info view

[wip]

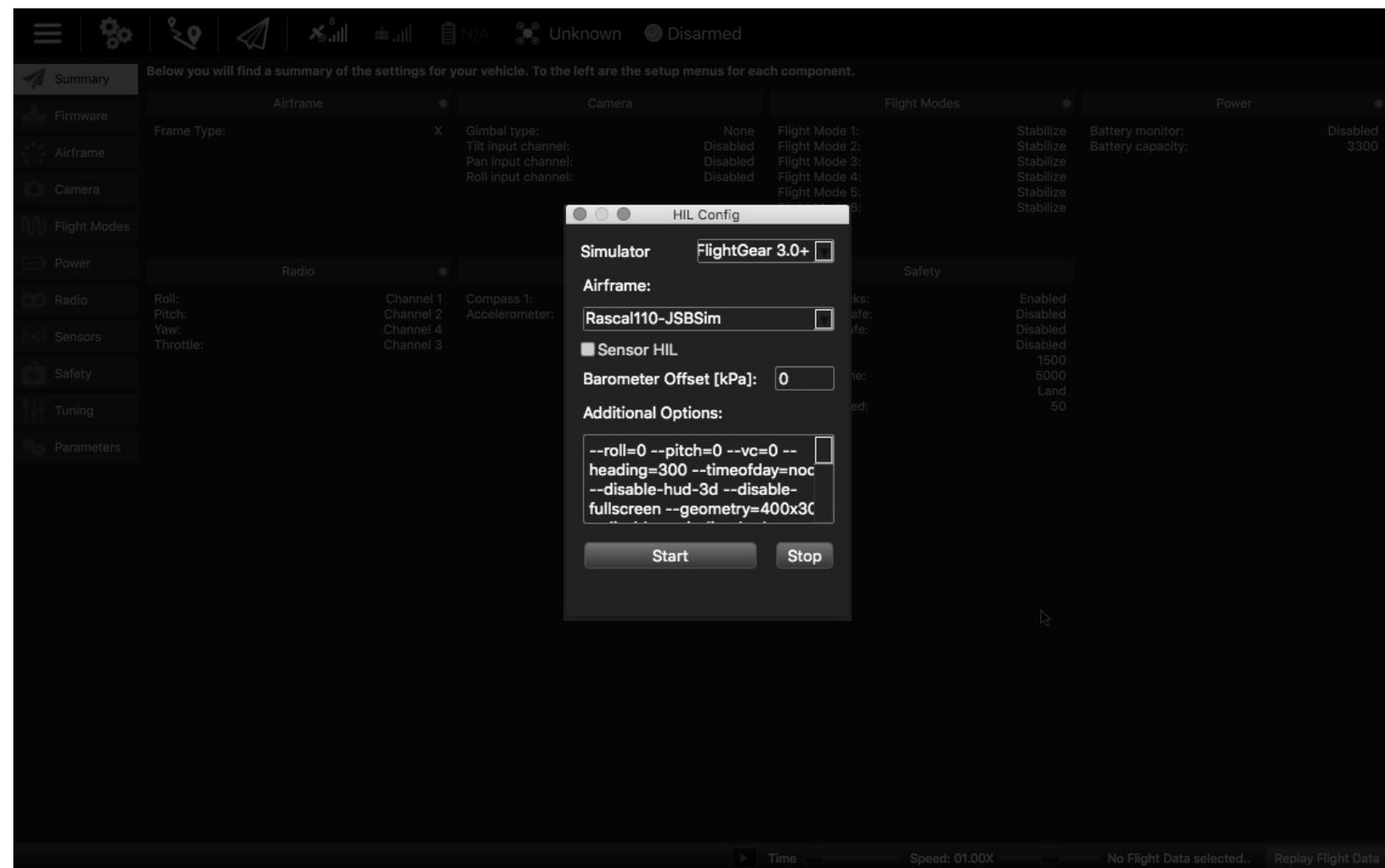




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HIL config

[wip]





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General settings

[wip]

General Settings

Mute all audio output

Prompt to save Flight Data Log after each flight

Prompt to save Flight Data Log even if vehicle was not armed

Clear all settings on next start

Map Providers: Bing

Style: Dark

Autoconnect to the following devices:

Pixhawk 3DR Radio PX4 Flow UDP

Virtual Joystick

Offline mission editing vehicle type: ArduPilot Flight Stack

Experimental Survey [WIP - no bugs reports please]





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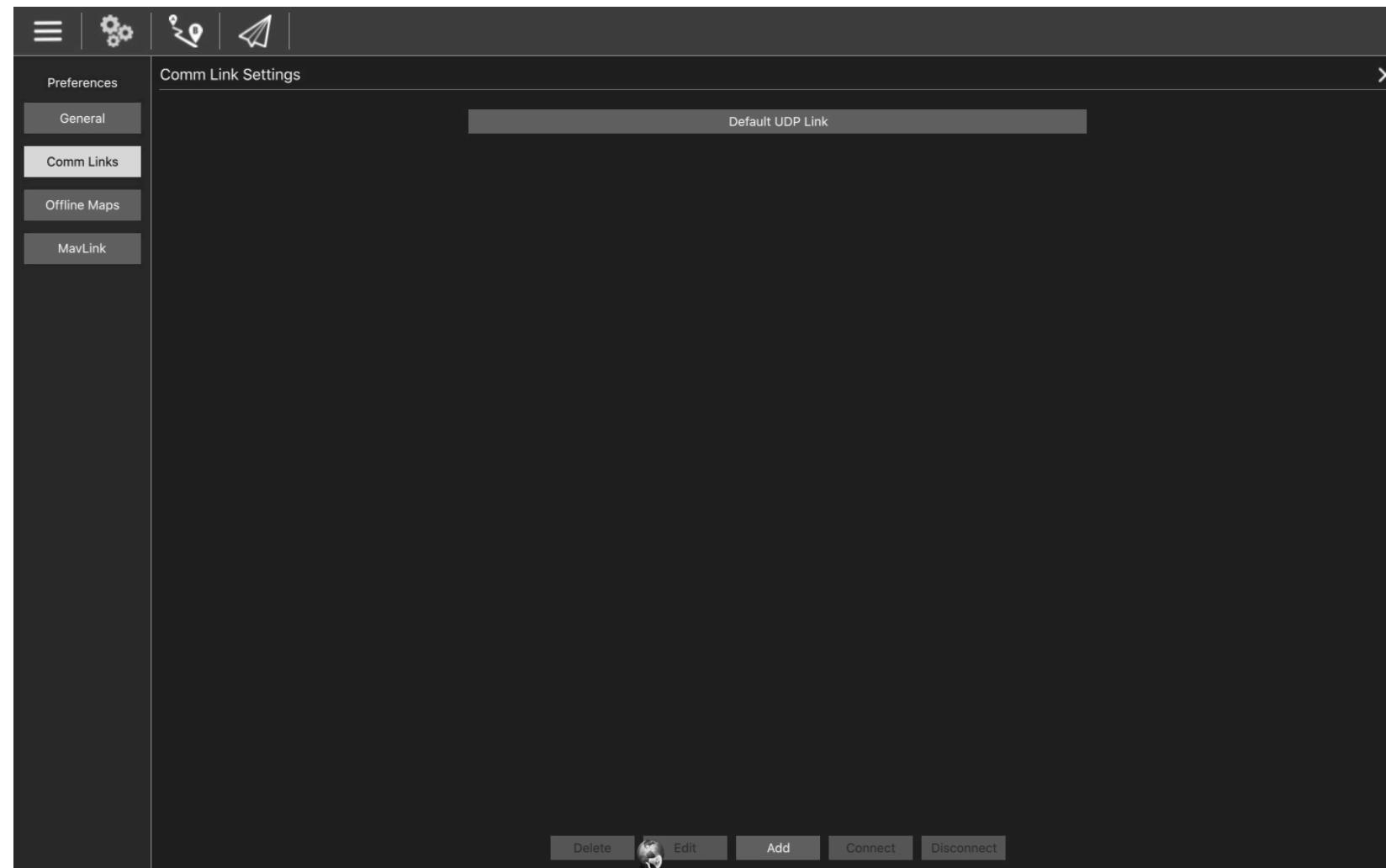
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Comm links

[wip]





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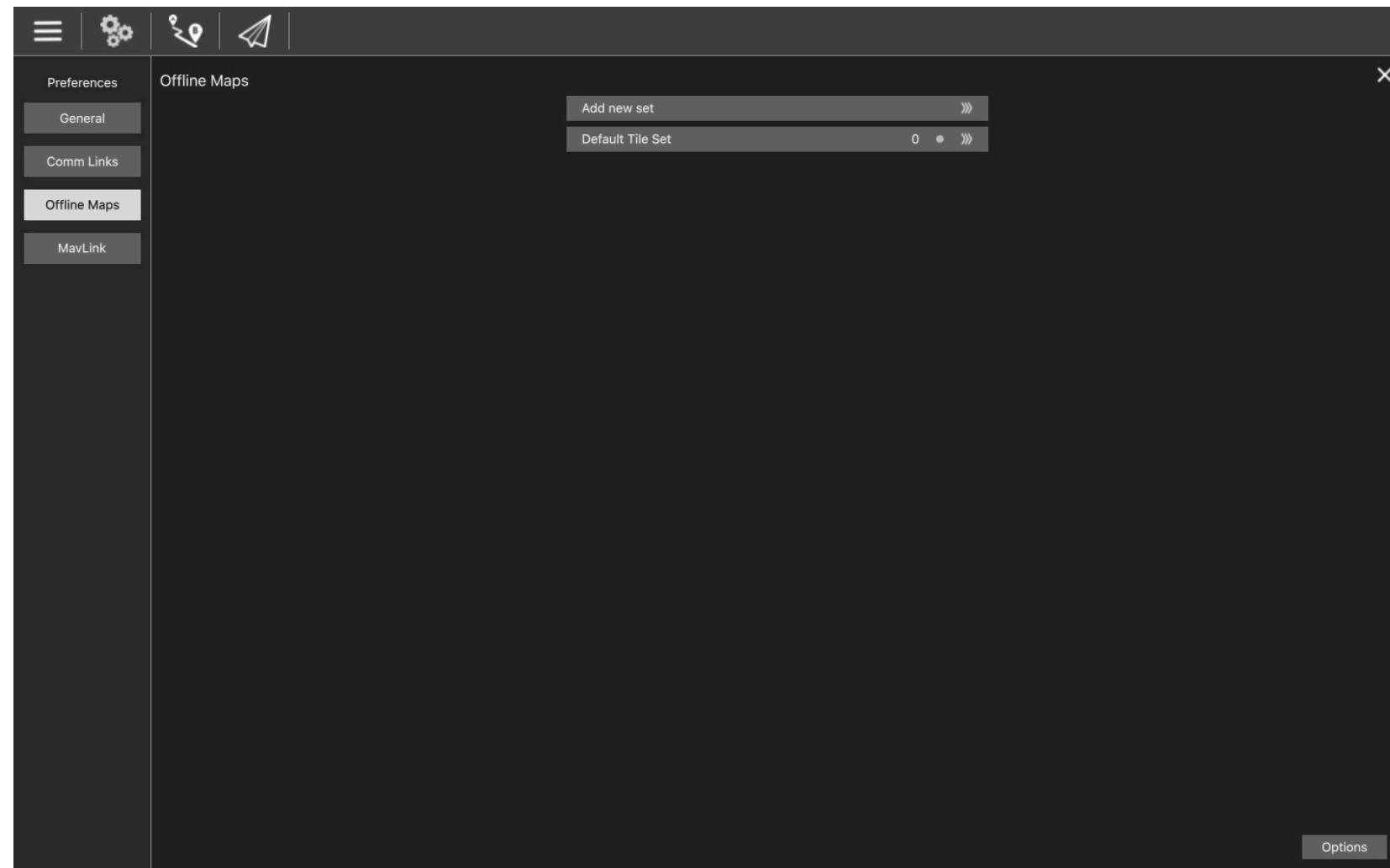
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Offline maps

[wip]





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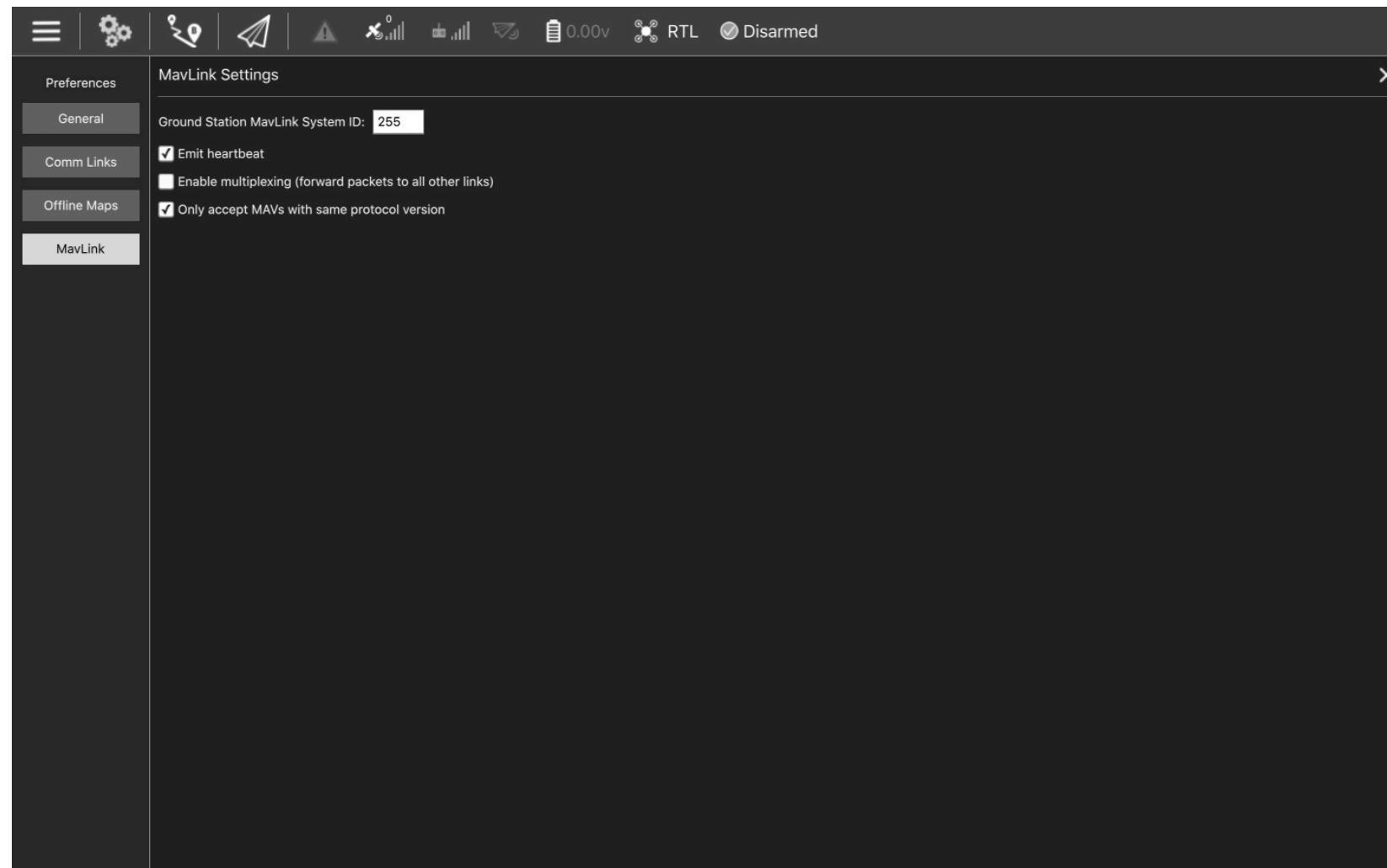
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MavLink

[wip]





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Preferences

[wip]

The screenshot shows a dark-themed user interface for a MAVLink configuration dialog. At the top right is a yellow bar with the text '[wip]'. The main area contains a modal window titled 'MAVLink'.

Groundstation MAVLink System ID: 255

Enable Multiplexing: Forward packets to all other links
 Only accept MAVs with same protocol version

MAVLINK_VERSION: 3

Enable retransmission of parameter read/write requests
Read request retransmission timeout: 350 ms
Write request retransmission timeout: 500 ms

Enable retransmission of actions / commands

Forward MAVLink packets of all links to the host below

XXXXXXXXXXXXXXXXXXXXXX
dronelink.io:14555

OK

Connect vehicle to your device

Firmware on the left to upgrade your vehicle.

