

QGroundControl



QGroundControl

DOWNLOADING

-

INSTALLATION

The software can be download on Windows or Ubuntu Linux.

- Windows :

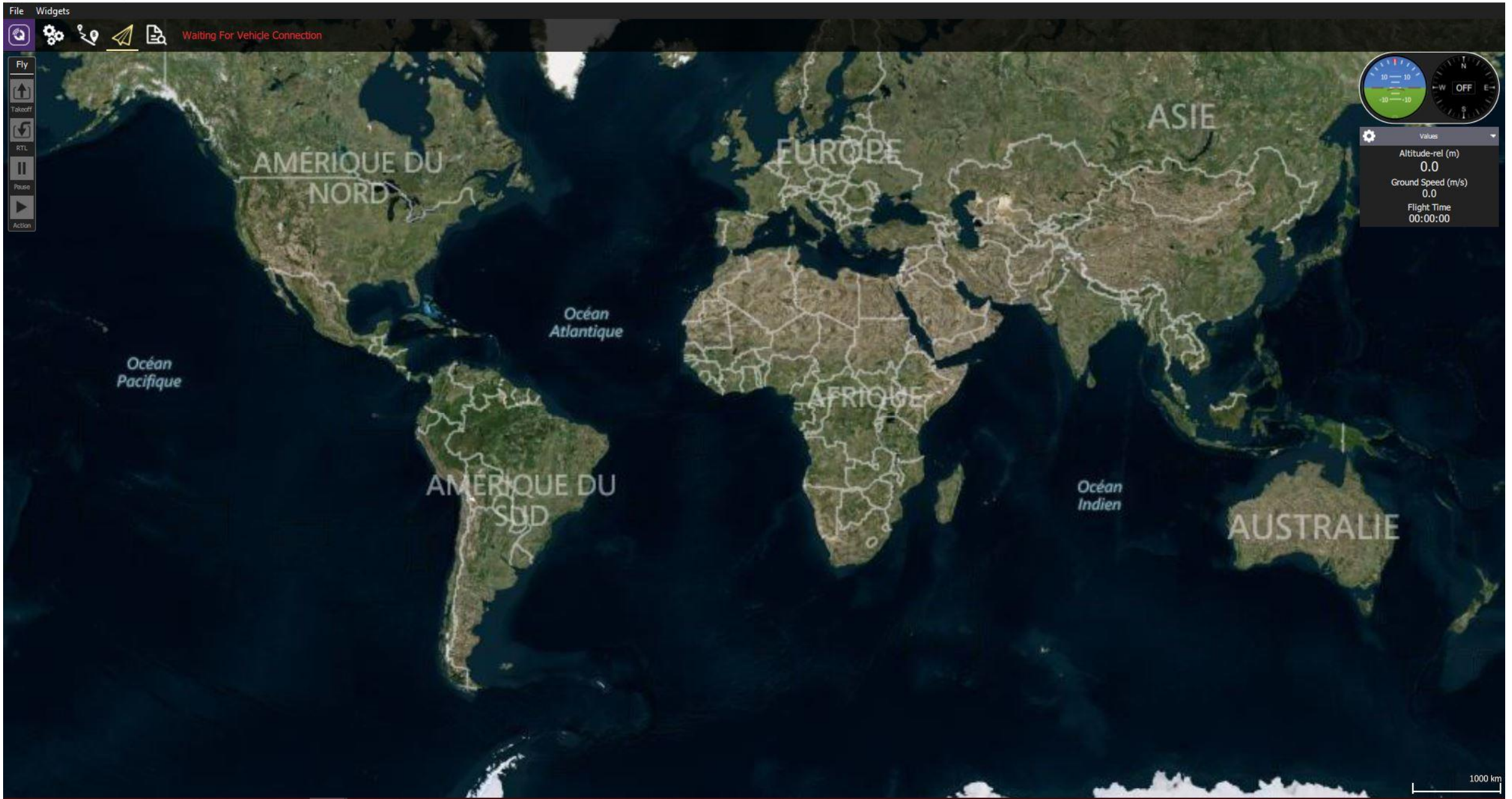
- 1) Download the file .exe (QGroundControl-installer.exe)
- 2) Double click to launch the installer

- Ubuntu Linux:

- 1) Download QGroundControl.AppImage
- 2) Install it by using the following commands :

```
chmod +x ./QGroundControl.AppImage
```

```
./QGroundControl.AppImage (or double click)
```

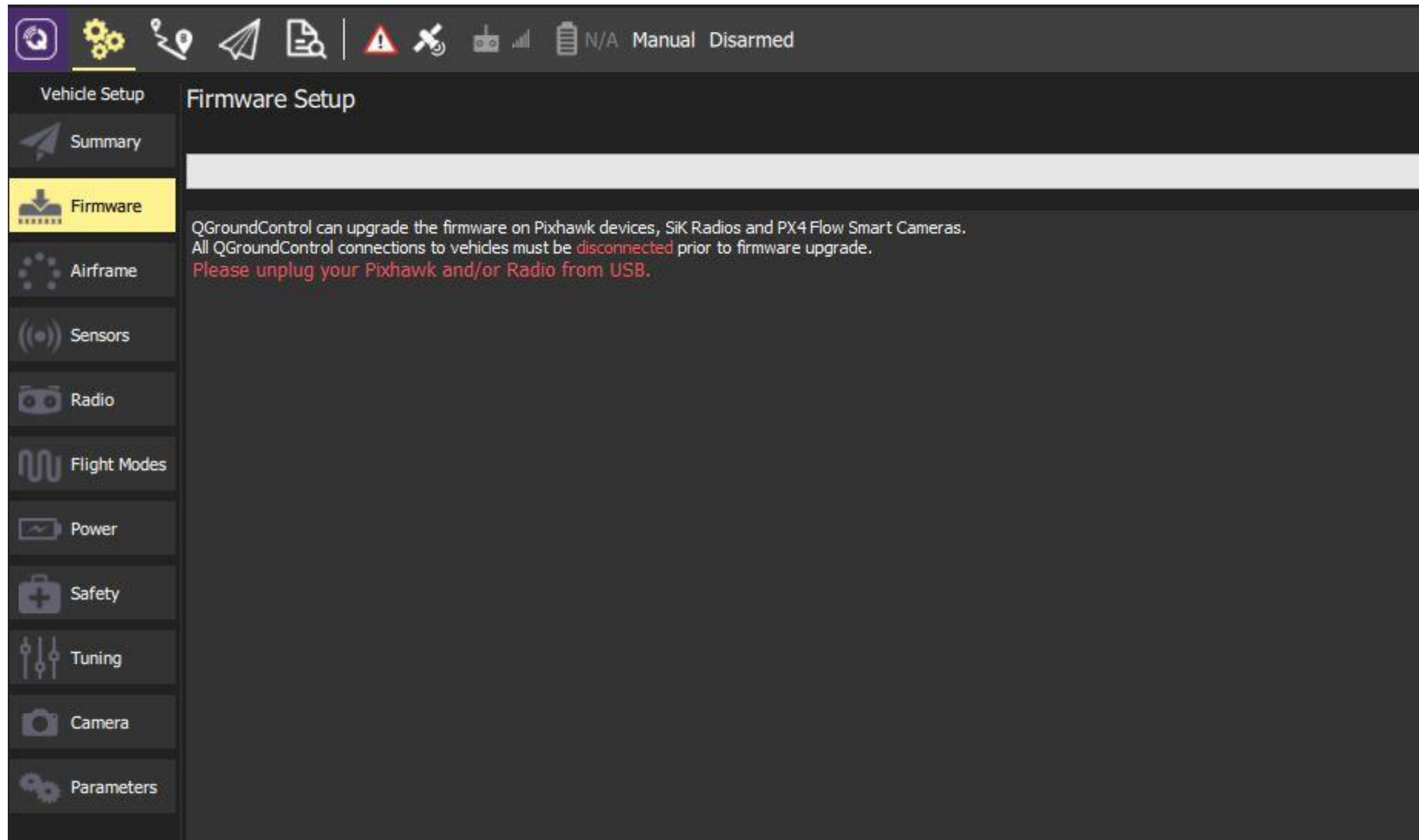


QGroundControl launched

CONFIGURATION

Firmware

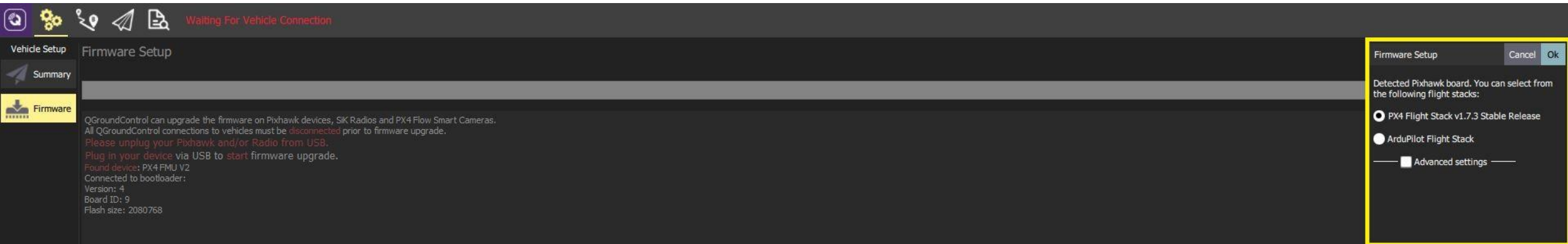
- 1) Launch QGround Control with the pixhawk plugged into the computer
- 2) Select the '*Vehicle setup*' icon and then the '*Firmware*' in the sidebar
- 3) Unplug the pixhawk



Firmware section

4) Select the firmware to download. Choose '*PX4 Flight Stack v.X.X.X Stable Release*' and no need to check the advanced settings

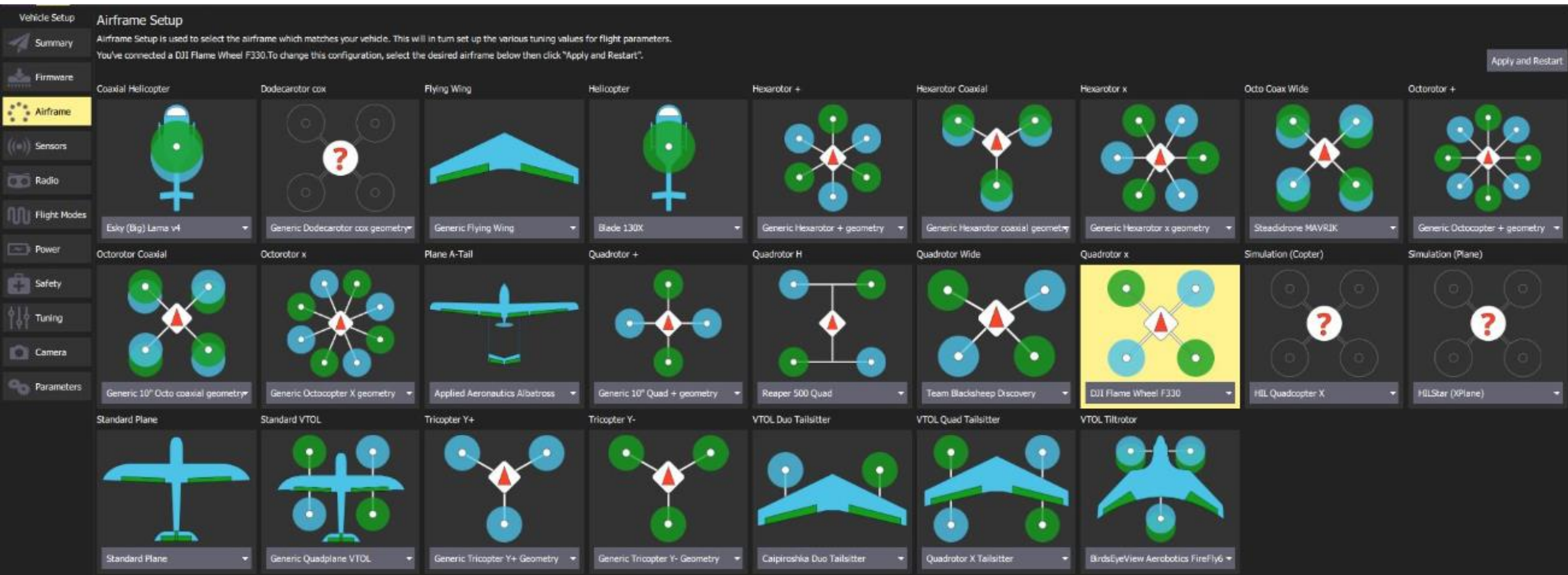
5) Click on '*Ok*'



6) Once the update done, reboot and reconnect the pixhawk.
Now you will select the airframe

Airframe

- 1) Select the '*Firmware*' in the sidebar
- 2) Choose the vehicle. In this case, it's the **Quadrotor x**



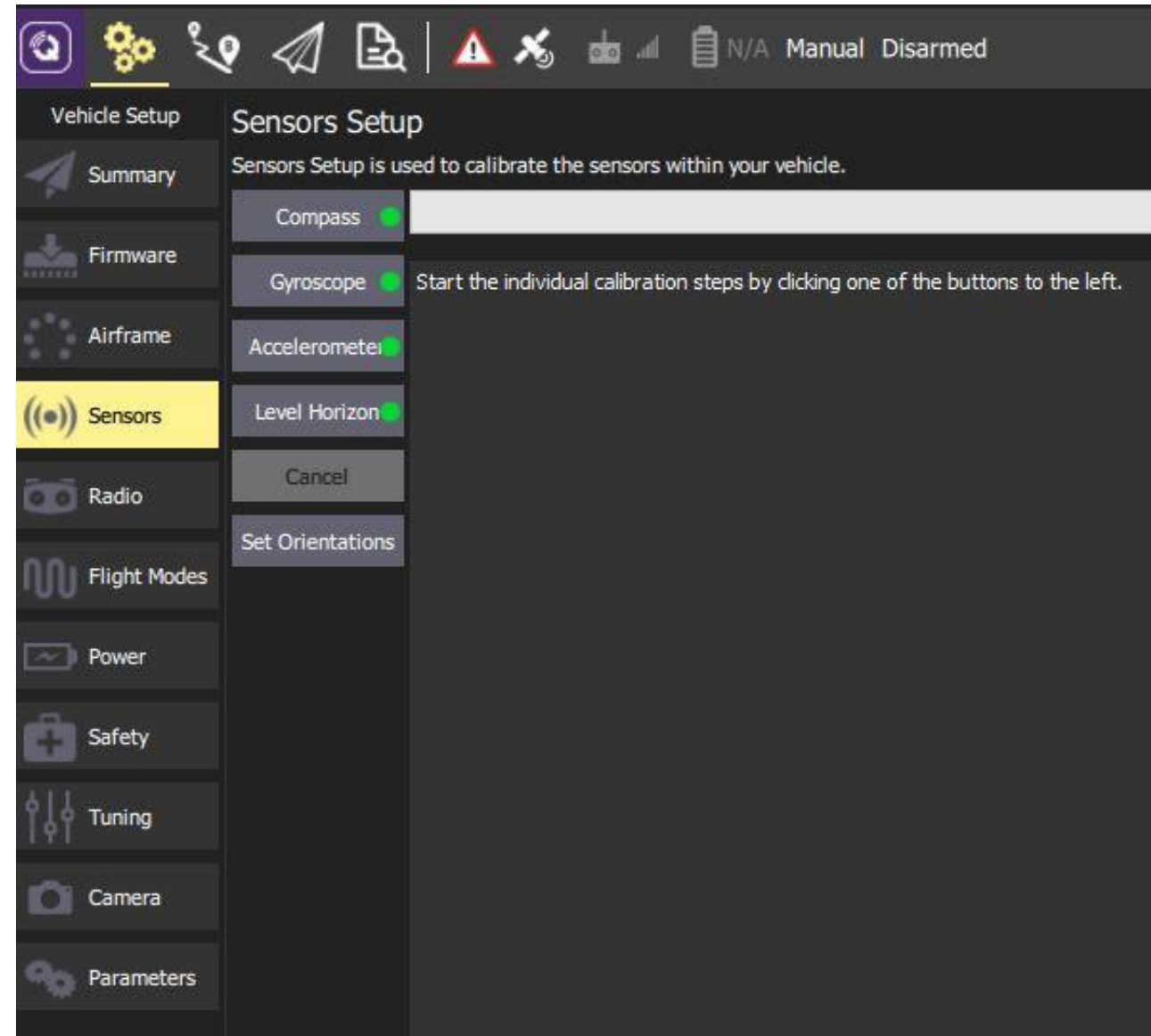
Airframe section

3) Click on *'Apply and Restart'*

Next you will configure the sensors

Sensors

- 1) Select the '*sensors*' in the sidebar
- 2) Now you have to configure all the sensors



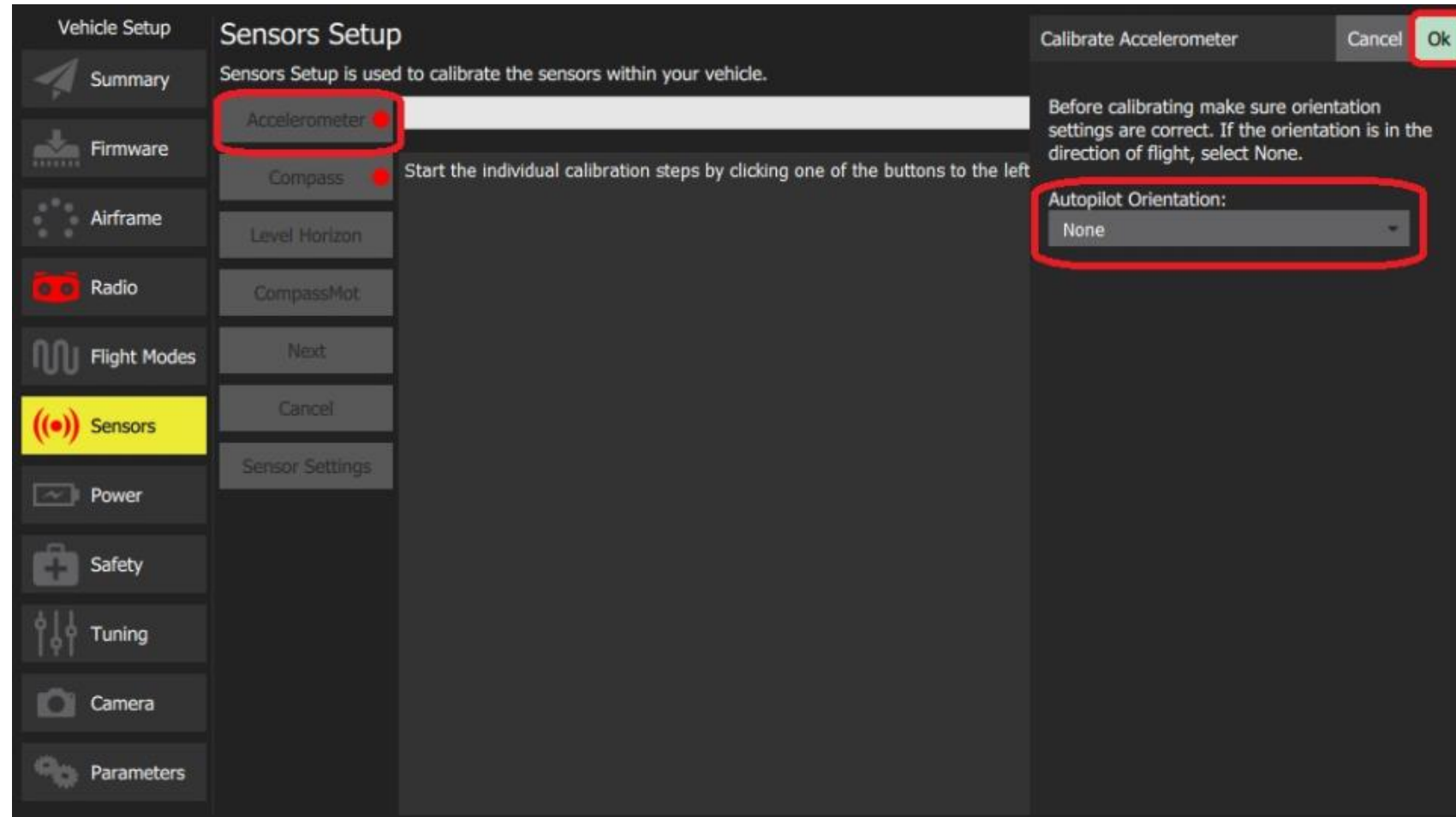
Sensors section

Sensors

Accelerometer

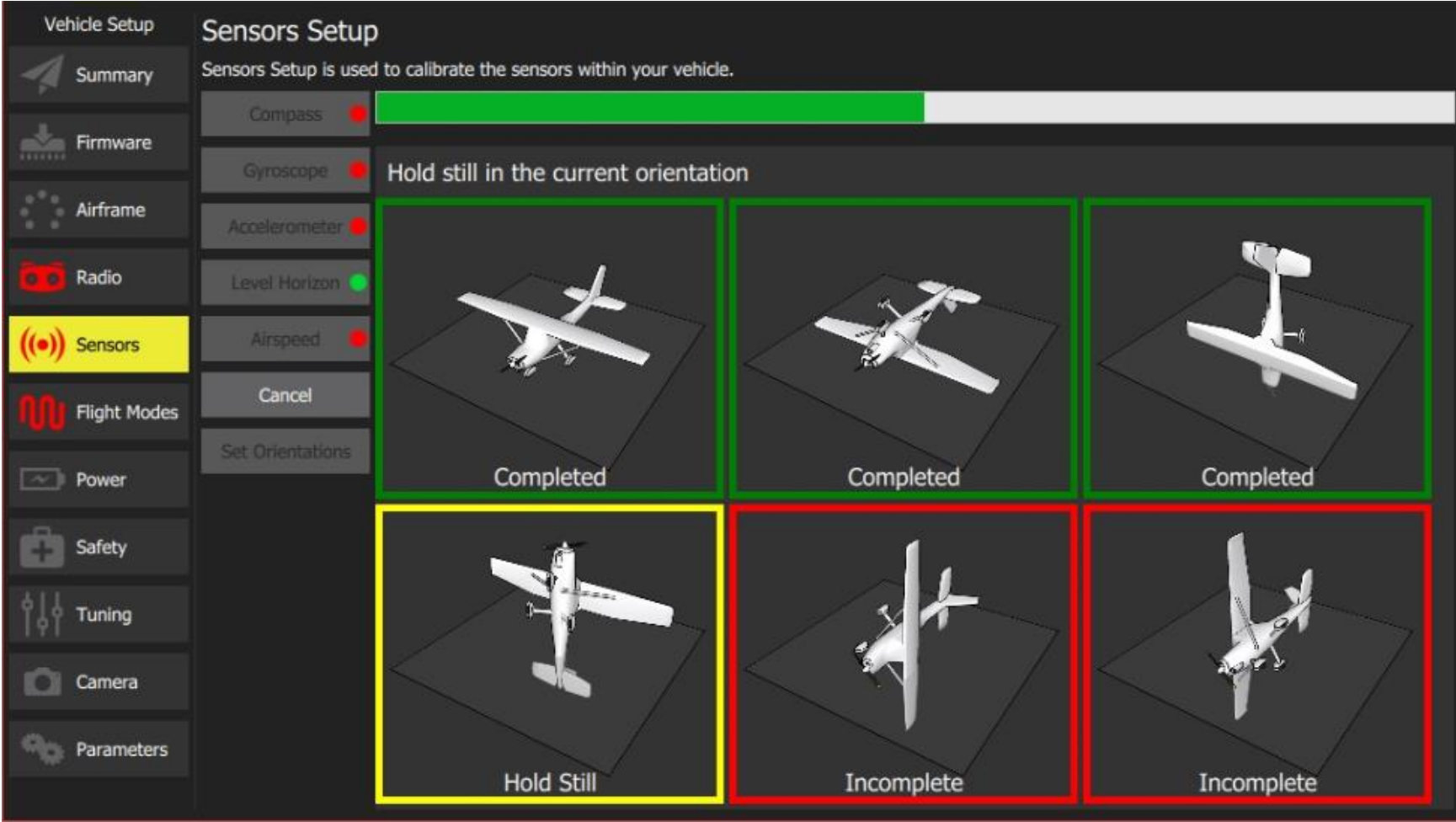
1) Select the accelerometer

2) Click on Ok



Accelerometer

3) Follow the software by positionning the vehicle as indicated



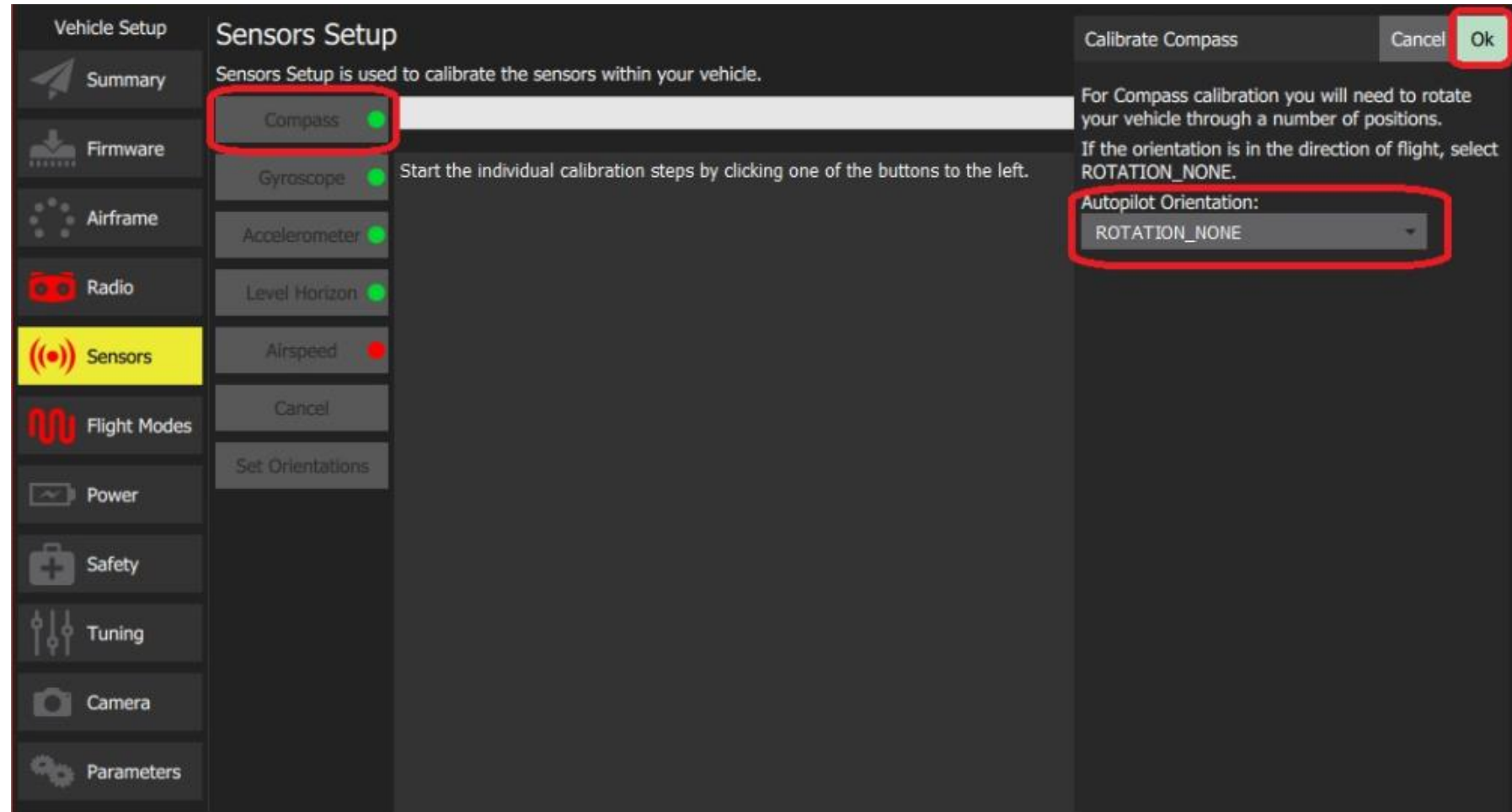
Calibration of the accelerometer

Sensors

Compass

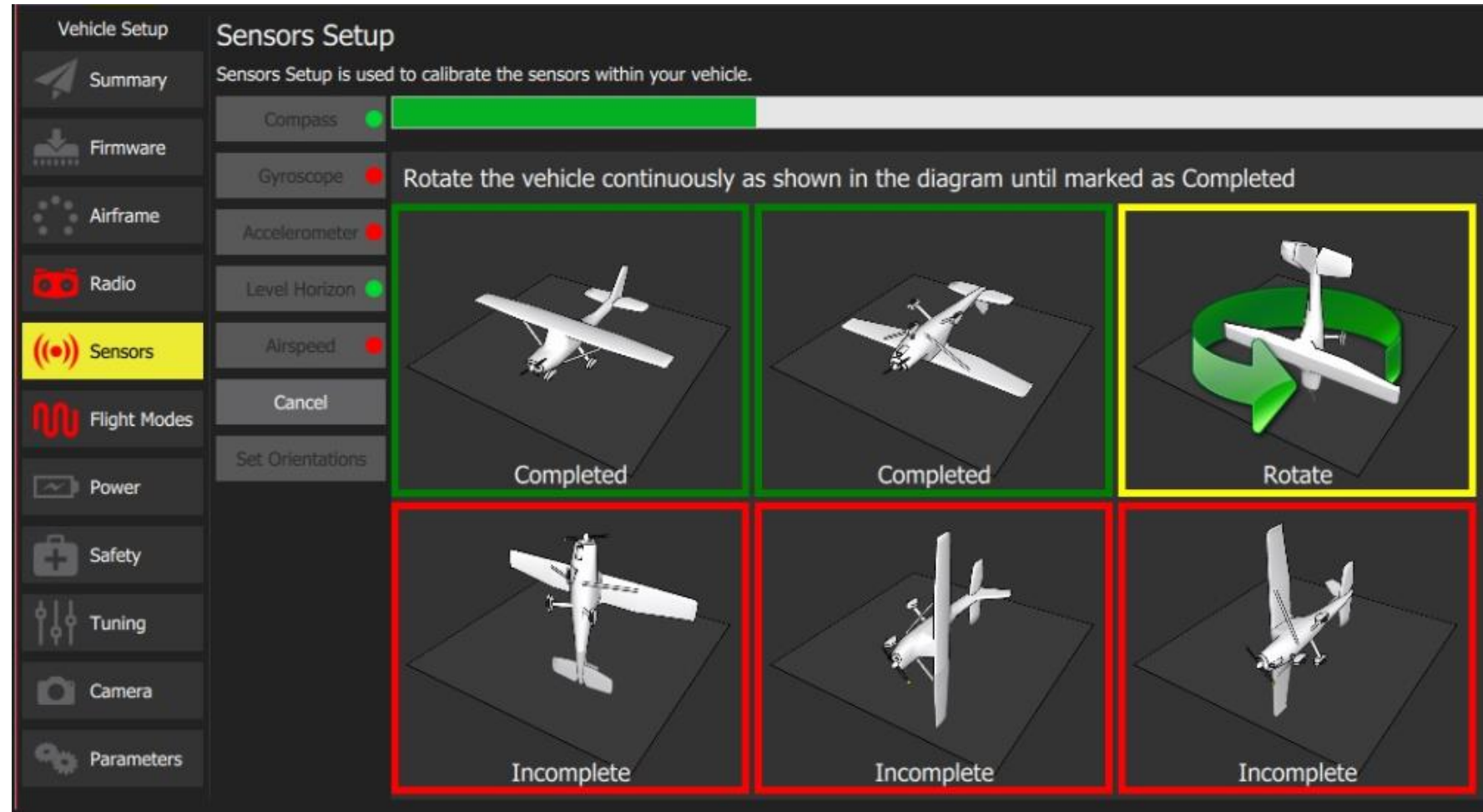
1) Select the compass

2) Click on Ok



Compass

3) Follow the software by positionning the vehicle as indicated



Calibration of the compass

Sensors

- The other sensors are very easy to calibrate
- Once the sensors calibrated, you have to link the remote to the pixhawk

Remote

- 1) Select the '*radio*' in the sidebar
- 2) Choose the '*Spektrum Bind*' and click on '*DSMX (7 channels or less)*'
- 3) Click on '*Ok*'

Vehicle Setup

Summary

Firmware

Airframe

Radio

Sensors

Flight Modes

Power

Safety

Tuning

Radio Setup

Radio Setup is used to calibrate your transmitter. It also assign channels for Roll, Pitch, Yaw and whether they are reversed.

Attitude Controls

Roll

Not Mapped

Pitch

Not Mapped

Yaw

Not Mapped

Throttle

Not Mapped

Skip

Cancel

Calibrate

Additional Radio setup:

Spektrum Bind

Radio

Cancel

Ok

Click Ok to place your Spektrum receiver in the bind mode. Select the specific receiver type below:

☐ DSM2 Mode

☐ DSMX (7 channels or less)

☒ DSMX (8 channels or more)

Remote

4) Turn on the Spektrum remote and hold down the bind button

5) The remote is linked to the pixhawk

Now you can fly the drone

FLIGHT

1) Plug the battery to the drone



2) Press the button lit until you hear a sound



3) Switch on the remote



4) Because of the security, the remote is not connected to the drone. So, put the left joystick at the bottom right to connect the remote to the drone.

Now you can fly with the drone





5) When you've finished, put the left joystick at the bottom left to disconnect the remote to the drone.

