

QGroundControl Installation for Windows

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Section 1: QGroundControl Download

The flight software/graphical interface used for the operation of Pterosoar is QGroundControl (QGC). QGC supports two flight stacks namely PX4 and Ardupilot, for the purposes of Pterosoar, PX4 is currently being used however, both flight stacks are supported by the cube orange flight controller.

When initially running the newest version of the [QGC installer](#), Windows security doesn't recognize the publisher and tries to block the download, simply ignore the security message and run the installer. While installing the software various prompts asking to download missing drivers will appear, accept, and download all of these.

Once QGC is installed and opened test the drivers by connecting the drone via a USB port, if mission mode is automatically triggered there is no need to download any of the following software and QGC should be ready to function. If after waiting a few seconds QGC does not connect or an error message occurs stating the device is not recognized, unplug the drone and follow the steps in Section 2.

Section 2: Mission Planner Download

Mission Planner is a similar graphical interface that supports both Ardupilot and PX4 but is older than QGC. Mission Planner will in no way be used for the drone and is only being downloaded for the drivers it installs automatically. The [Mission Planner installer](#) will run similarly to the QGC installer and will also trigger the Windows security error. Accept all driver downloads when running the installer (this is the most important part), when the software is fully installed, completely close Mission Planner. Avoid opening Mission Planner while running QGC as the drone connection will be recognized by both software's.

To verify that the drone will now properly connect, close and reopen QGC. Connect the drone via USB cable once more and wait for it to boot up. After a few seconds QGC should recognize it and automatically connect. The software is now ready to be used.