

Visionair GCS Software

Overview





Intuitive and reliable



All-in-one tool



Enhanced Situational Awareness



Advanced Flight Plan Editor



Referenced Navigation

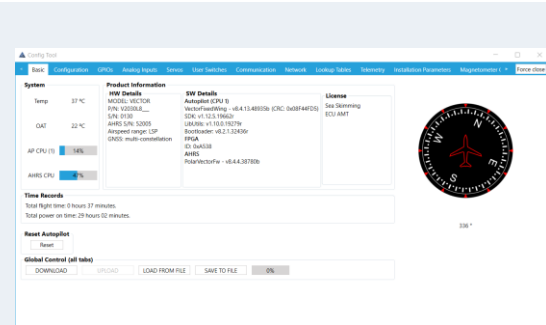


Flexible and Customizable

Visionair is the all-in-one UAV Navigation's standard Ground Control Station (GCS) software for configuring, planning and executing UAV missions.

Configuration:

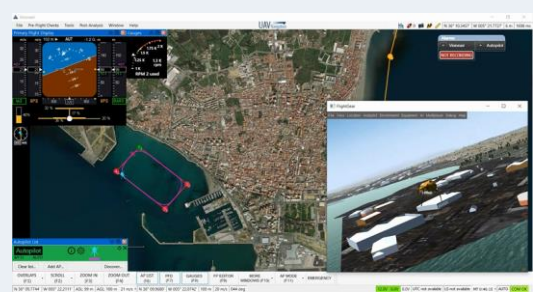
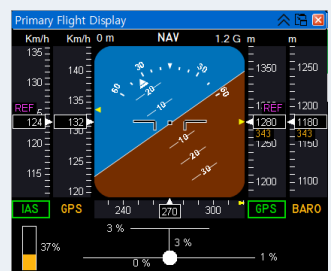
Visionair Configuration Tools is the configuration utility provided by UAV Navigation in order to configure autopilots and AHRS-INS units.



Operation:

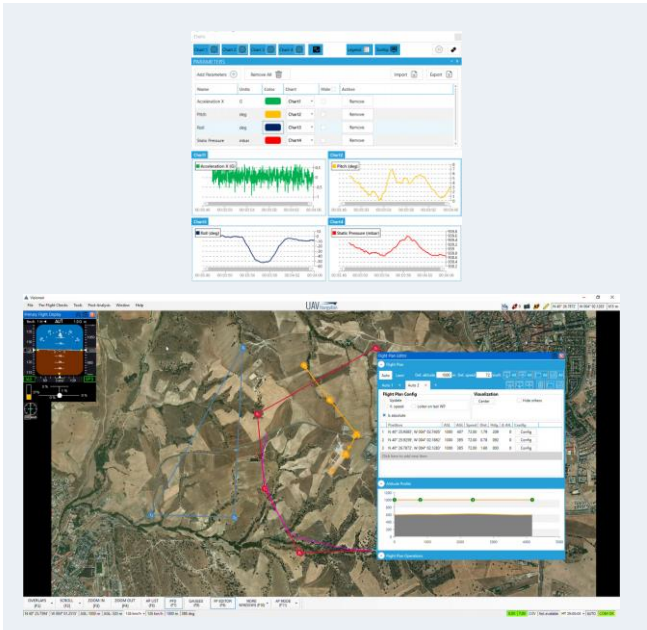
Visionair is UAV Navigation's standard Ground Control Station (GCS) software for planning and executing UAV missions. It is compatible with all UAV Navigation autopilots.

- ✔ Mission-oriented interface.
- ✔ UAV mission planning and execution application, with GUI.
- ✔ Compatible with all kinds of digital mapping.
- ✔ Platform: PC/laptop Windows 10.
- ✔ Advanced Flight Plan Editor:
 - ✔ Multiple Flight Plans.
 - ✔ Alternative Landing Sites.
 - ✔ Automatic Actions on Waypoints.
 - ✔ Autogrid Flight Plan Generator.
 - ✔ Edition and Modification during the operation.
- ✔ Referenced Navigation.
- ✔ Predictive Paths.
- ✔ Sense and Avoidance (ACAS I).
- ✔ Sea-Skimming.
- ✔ 3D synthetic video representation in Flight Gear.
- ✔ Flight Plan export to Google Earth for visualization purposes.
- ✔ Advanced Primary Flight Display.



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Operation:



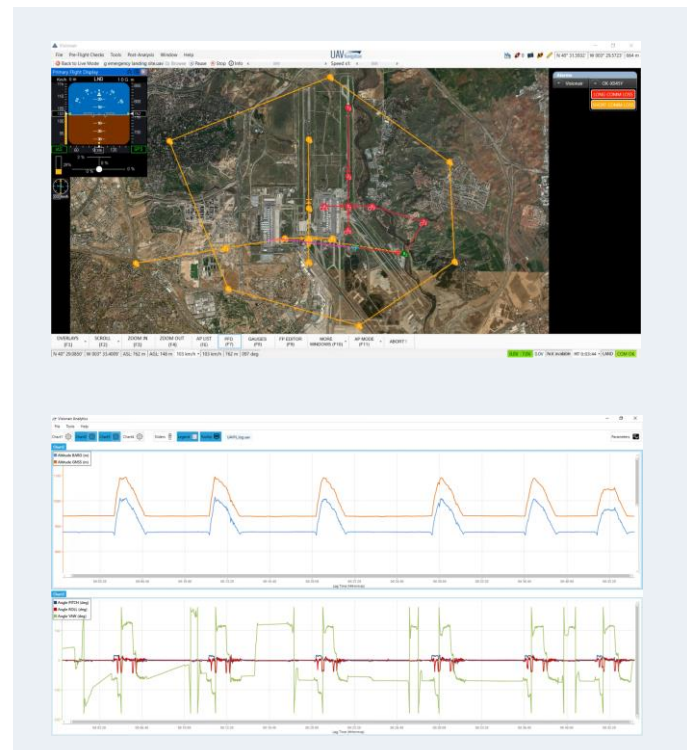
- ✔ Visionair Charts for real time telemetry visualization.
- ✔ Integrated payload control:
 - ✔ Camera Control Modes such as Camera Guided.
 - ✔ DGPS configuration to enhance accuracy.
 - ✔ Transponder Control and Configuration (e.g. Sagetech).
 - ✔ Visionair is compatible with RTK systems (e.g. Trimble BD920).
- ✔ Multi-UAV Operations.
- ✔ Connect two or more GCS, each running Visionair, to control or monitor a single UAV flight.
- ✔ Visionair can output the GPS track of a platform's position in NMEA format.
- ✔ Waypoints: 100 max.
- ✔ Full DEM support.
- ✔ Rulers.
- ✔ Configurable alarms, gauges and tags.
- ✔ Fly/No-fly Zones.

Post-Analysis:

Visionair Analytics is the official software application provided to customers in order to **analyze telemetry** data from the UAV Navigation Flight Control Solution.

Additionally, **Visionair allows the reproduction of the log file**, which contains the exact visual data that was seen by the flight operator. That allows for the detailed investigation of the mission, which may be performed by using this tool.

- ✔ Easy telemetry visualization thanks to the user-friendly interface.
- ✔ Representation of complex mathematical operations between flight data variables.
- ✔ Interactive graphs.
- ✔ Configure your interface and save it for future use.
- ✔ Multiple parameter representation.
- ✔ Multiple tools for a deep post-analysis.
- ✔ Create notes.
- ✔ Customizable.



A **Software Development Kit (SDK)** version is available for developers wanting to modified or create their own application.