



NRI Ground Control Station (GCS) – The key to successful mission planning

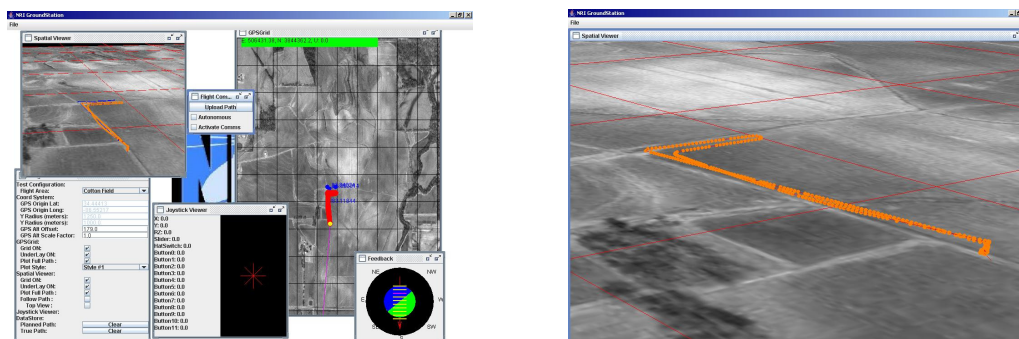


The optional NRI Ground Control Station (GCS) is a self-contained Windows-based application that unlocks the power of fully autonomous flight for the AutoCopter. The GCS enables mission planning in 2D using stored satellite images. Flight plans are uploaded to the AutoCopter via wireless data link and enable the aircraft to takeoff, fly its programmed route, and land fully autonomously. During flight the aircraft state data (aircraft attitude, altitude, speed, and other parameters) are relayed to the GCS via wireless data links and displayed in real time on the GCS screen in 2D and 3D.

The joystick control enables the user to interrupt the planned flight and take control of the AutoCopter anytime during the autonomous mission. The joystick can be used to maneuver the AutoCopter for any of the basic flight modes, including landing. After assuming control of the AutoCopter with the joystick, the user may re-engage the fully autonomous mode and the aircraft will resume its programmed flight. Additionally, the GCS enables the user to save flight plans, export flight plans, obtain feedback for analysis, and import previously constructed flight plans.

The GCS range is limited only by the data link capabilities. NRI uses 900 MHz data links that are capable of 40+ miles with (Line-of-Sight) when configured with Yagi antennas.

The GCS includes NRI's proprietary software, notebook computer, joystick, wireless modems for the computer and the AutoCopter, all cables and antennas, plus the operators manual.

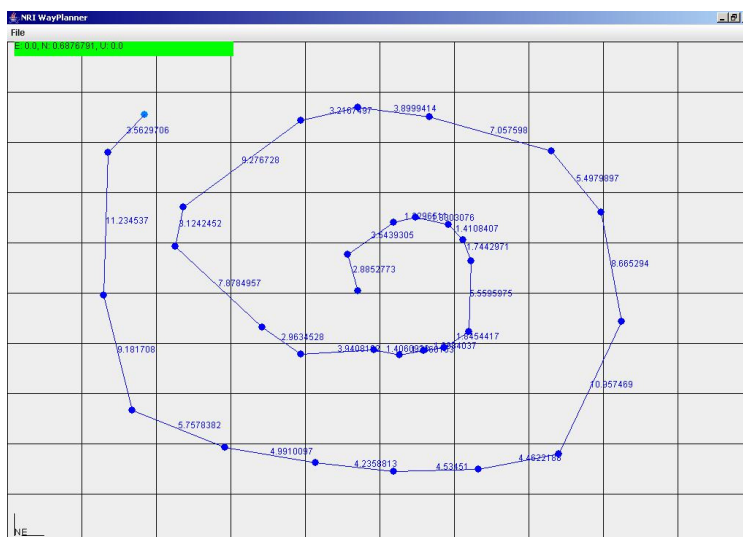


Screen shots of the Ground Control Station (GCS)

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WayPlanner – The affordable approach to autonomous flight



The WayPlanner flight planning program is included with all AutoCopters. It is a self-contained Windows-based application that enables basic flight planning and autonomous flight. WayPlanner allows the user to create a series of GPS waypoints on a 2D grid using a mouse. The flight plan is uploaded to the AutoCopter via a serial cable and stored in the memory of the flight computer. Once the flight plan is loaded, the AutoCopter can be commanded by the pilot to take off autonomously. The aircraft will fly its programmed route and land without further intervention. The pilot can interrupt the autonomous flight and take over all flight operations by using the handheld remote control transmitter.

WayPlanner software is provided on CD with each AutoCopter. The software can be loaded on any Windows-based PC or notebook computer. A serial cable is required to connect the computer to the AutoCopter. WayPlanner allows the user to save and export flight plans as well as import previously constructed flight plans.

