

Aeroscout Advanced GCS

Advanced Ground Control Station For The Scout B1-100 UAV Helicopter



GENERAL The Aeroscout Advanced Ground Control Station (AGCS) with its touch screen provides all capabilities in order to operate the Aeroscout unmanned autonomous helicopter systems, in particular the Scout B1-100 UAV helicopter. This includes mission planning, mission control, display of UAV status information, and UAV performance monitoring.

FEATURES The Aeroscout AGCS features include easy transportability required for outdoor operations, a single source power supply (110...220V), two sunlight readable displays, one touch screen for main UAV commands selection, the computer display or video display mode, a water-resistant keyboard, and two intelligent joysticks. The AGCS also provides stabilized voltages for field operation, e.g. for system startup or for the AGCS data link modules.

OPERATION The Aeroscout AGCS allows both assisted flight mode (velocity control by joystick input) and fully autonomous GPS waypoint mode (position input). The ruggedized computer keyboard allows all mission planning and modifications on the field. In addition, several USB ports are available for mission download or data upload. The main screen shows all UAV status information, while the second touch screen allows the selection of major UAV commands such as take-off, landing, or engine shutdown.

INFORMATION For further information please contact Aeroscout GmbH, Switzerland.



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TECHNICAL DATA

Operating system	Windows XP/7
Main monitor	sunlight readable 14" TFT
Touch screen monitor	sunlight readable 8" TFT
Number of joysticks	2
Keyboard	water-proof keyboard
Mouse	optical USB mouse
Interfaces	USB Hub, RS-232
Network	Ethernet (optional)
Video (computer/video selector)	Video In/Out
Stabilized voltages	5V and 12V (standard)
Temperature range	0 ... 40 °C
Weight (approx.)	19 kg
Dimension (length x width x height)	0.58 x 0.44 x 0.35 m
Power supply	110 – 220 V

MISSION CONTROL DATA

<ul style="list-style-type: none"> • Startup features • FCS control • Data link modules 	<p>automatic UAV mode standard weGCS interface 2x RS232 available</p>
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BENEFITS

- Easy transportability
- Standard FCS software packages (communication with onboard flight control system)
- Customized software installations
- Customized hard disk selection
- Assisted flight mode and GPS waypoint mode
- RS-232 data communication for UAV data communication
- RS-232 UAV data downloading (e.g. black box data logger)
- Computer display or video display (e.g. onboard camera view) mode selector
- Dust and spray water protected active air cooling system
- Free-programmable joystick buttons, e.g. onboard photo triggering
- Built-in locks for secured storage and transportation
- Durable materials