Delivery of the 4th HeliFIS

HeliFIS Operator Computer

The Helicopter Flight Inspection System series of Aerodata was expanded by a small portable system, which is completely independent of any primary interfaces.

The AD-HeliFIS-0300 is battery powered and receives its satellite data from a quick-release, window-mountable GNSS antenna. It is suited for any type of helicopter and can be installed within several minutes. For the inspection of Area Navigation data it contains a multi-channel GNSS receiver and an Inertial Measurement Unit (IMU).

The approved Aerodata Flight Inspection Software, using the new Graphical User Interface layout on a ruggedized computer, controls the system. An additional Portable Cockpit Information Display (PCID) can provide procedure information, which normally is not available in standard helicopters.

New AeroMission Capabilities

During the past 18 months, Aerodata has added various new capabilities to its mission management system AeroMission®. The majority of the new features will make the mission management system more versatile.

Full Integration of Leonardo Seaspray Radar

AeroMission provides a full integration of the Leonardo Seaspray radar. This integration includes:

- Overlay of radar information on moving map;
- Radar control through AeroMission functions.

The radar overlay supports the operator to correlate radar contacts with contacts from other sensors and the integration with the automatic sensor fusion process.
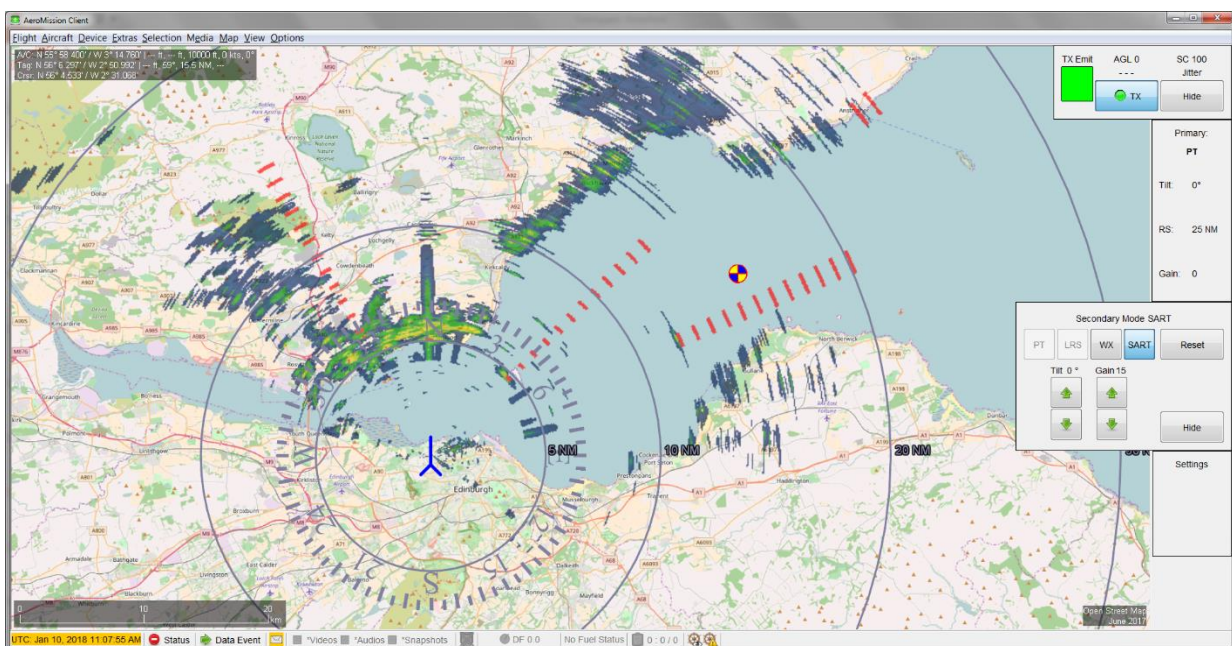
AeroMission map with radar overlay, SART beacon display and radar control

In combination with the radar control now available on the same screen, the operator can immediately view the effect of radar mode changes.

The radar software includes the tracking of airborne targets in addition to the maritime targets.

Also, the direction of radar SART beacons is provided on the map.

Rights Management

AeroMission is using a server/client concept and enables the use of multiple work stations. Monitoring of data is possible on all work stations; each operator can select his own set of data. The new feature is the possibility to assign rights individually to a client for the control of sensors or subsystems; e.g. EO/IR, radar, ESM/ELINT systems, flight planning, etc. While rights are initially configured upon delivery of AeroMission, assignment of rights are possible during flight to minimize the workload for different operators depending on the mission scenario.

MIL-STD-2525 Symbology

For military customers, AeroMission can be configured to use MIL-STD-2525 symbols. In particular, this new capability enables the operator to distinguish easily between friendly, neutral, and hostile targets.

Integration of Anti Submarine Warfare

AeroMission now includes multiple functions related to anti submarine warfare:

- The mission software is able to generate sonobuoy patterns and optimized flight patterns to drop sonar buoys at the pre-defined locations. In combination with a stores management system, the sonobuoys can be dropped semi-automatically.

- Further, an acoustic processing subsystem is integrated. Thus, targets located by the acoustic system will be displayed as an additional layer on the AeroMission moving map to provide situational awareness to the operator(s).

Integration of Electronic Support Measures

Similar to the acoustic processing subsystem, AeroMission now integrates subsystems for Electronic Support Measures (ESM). In addition to an indication on a cockpit display, AeroMission processes the location of emissions and direction of radar emissions for display on the moving map and for correlation with other sensors. This target information can be used as any other target information (e.g. radar or AIS) and enables to automatically point the EO/IR sensor to the radar emission for further investigation.

Integration of Tactical Datalink

AeroMission's communication capabilities have been further enhanced to support data transfer via standard tactical datalinks for reporting, intelligence information exchange, contact correlation and commanding.

Larger Size Work Station

As an element of AeroMission, larger size work stations can be provided. These work stations are equipped with 21" screens and DZUS panels on both sides for the integration of control elements.

ILA – Berlin Air Show 2018

Aerodata and OPTIMARE will exhibit at ILA Berlin Air Show from April 25 – 29, 2018. Please visit us at our stand in the German Pavilion, Hall 2, Booth 205.

IFIS 2018

April 16 – 20, 2018, Monterey, California
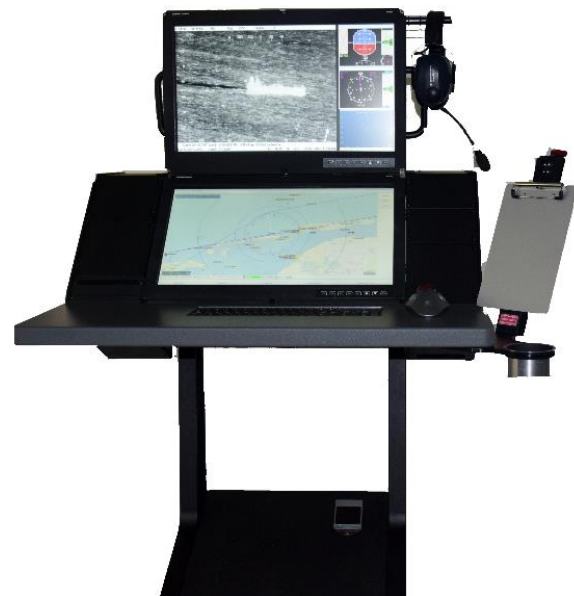
AeroMission Work Station with 21" screens

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