



ARGOSIA Mission System

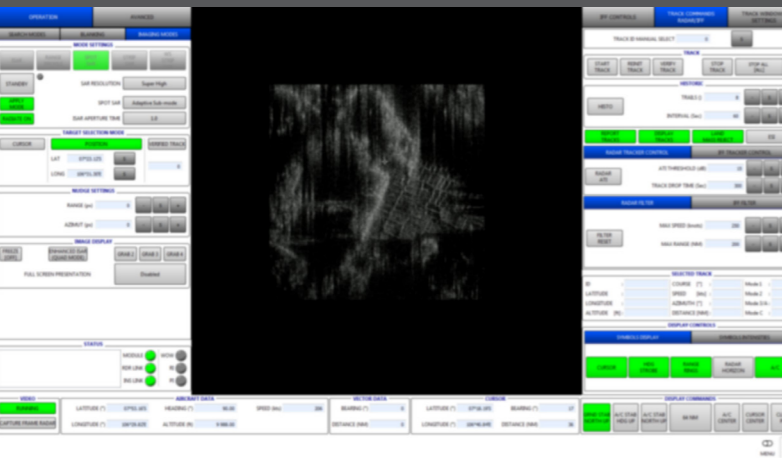
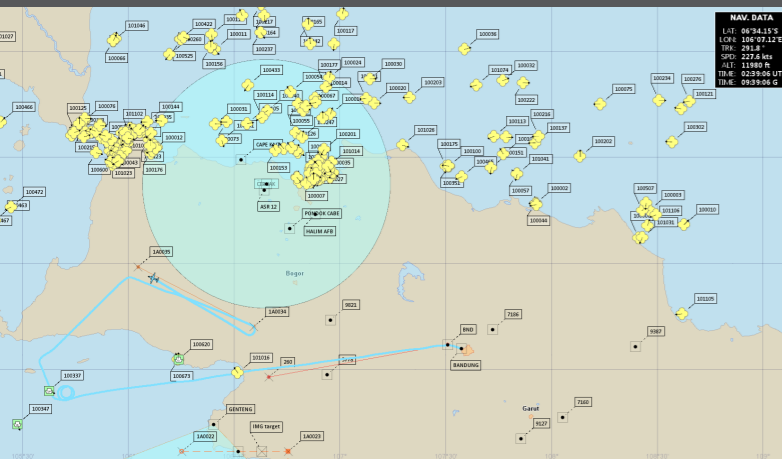
Embarked Solutions for Airborne
Surveillance and Intelligence

Contact

Argosia

The protection of national interests is a major concern for any sovereign country. This naturally implies the control of borders as well as maritime, air and land spaces, where national sovereignty is daily challenged by multiple threats. To ensure this strategic mission, armed forces, intelligence and security agencies require efficient surveillance solutions to quickly establish and report a clear tactical situation of their areas of interest.

In order to comply with these requirements, NEXEYA developed a range of AIRBORNE ISR solutions based on its ARGOSIA Mission Management System. Together with battle-proofed sensors and equipment selected for their reliability and performances, ARGOSIA proposes many system configurations meeting the needs of Maritime and Overland Surveillance, as well as IMINT and SIGINT missions.



Product presentation

The ARGOSIA Mission Management System is a versatile, customizable, multi-sensor and multi-console solution tailored for AIRBORNE surveillance missions, OVERLAND or at SEA.

ARGOSIA functionalities cover:

- Mission planning and pre-flight processing on a dedicated ground station
- Multi-Sensor detection: integration of EO/IR tracking system, Maritime or Ground search Radar, AIS transceiver, IFF interrogator, interception systems such as ESM or COMINT, etc
- Sensors control and display through dedicated HMI
- Real-time Tactical picture compilation resulting from sensor-generated data fusion, mission software decision-support tools and mission planning resources
- Graphic User Interface with moving map and standardized NATO warfighting symbology
- Mission data and multimedia recordings for in-flight back-up and post-flight replay and analysis
- Back-up modes
- Communications management: Intercommunications system, HF and V/UHF COMSEC voice radios, LOS Datalink (L/S/C bands), SATCOM, Tactical Datalink

ARGOSIA allows aircrews to share a Consolidated Common Tactical Picture in real time with remote authorities or other units at land or at sea.

Multiple configurations

ARGOSIA is a scalable solution ranging from a lightweight configuration for small platforms, up to fully capable solutions for Multirole, ISR-dedicated aircraft.

ARGOSIA 100:

Single-workstation solution for light ISR platforms, able to integrate on request:

- Rugged mission computers and HD touch-screens, keyboard and trackball, or lightweight laptop-based configuration
- Multifunctional RADAR: Maritime search, ISAR, MMTI/GMTI, SART and Weather modes
- AIS receiver
- Day and night Electro-optic tracking system

ARGOSIA 100 is designed for light aircraft with limited carrying capacities (C212, BE350, DHC-6...)

ARGOSIA 200:

Multi-console (2+) capabilities combining active and passive sensors and full COMMS suite:

- Wide array of C4ISR-oriented sensors upon request
- HF and V/UHF secure Voice
- Extended Data Link solutions (LOS, BLOS, TDL)
- Advanced SIGINT systems: ESM, COMINT

ARGOSIA 200 is designed for heavier platforms (CN235, C295, C130, C160...) with higher power supply capabilities, in renewal or upgrade programs.

Adapting to needs

Hardware choice and software design were paramount to combine performance, reliability and ergonomics for users, accessibility for maintainers, and safety of personnel.

- Compliance with most required common standards (MIL-STD-461 / 471 / 810 / 1472 / 2525 / 38999, DO160, etc.)
- Open architecture adaptable to current and future requirements.

ARGOSIA 100 and 200 can be designed for permanent integration or as a palletized « Roll-in / Roll-out » solution, allowing to maintain basic aircraft versatility.