



ASIO

AIRBORNE SURVEILLANCE, INTELLIGENCE
AND OBSERVATION SOLUTION



BIRD
AEROSYSTEMS



EVER VIGILANT

NO MATTER WHAT YOUR ISR
MISSION MAY BE, ASIO HAS YOU
FULLY COVERED

With the ever-growing threats to national security, increasing ISR (Intelligence, Surveillance and Reconnaissance) requirements, and the need to respond to the rising global demand for more comprehensive environmental monitoring, the need for a truly comprehensive, end-to-end, yet cost effective airborne surveillance, intelligence and observation solution couldn't be clearer.

To meet all these demands, we, at BIRD Aerosystems, have developed the ASIO (Airborne Surveillance, Intelligence and Observation) solution, a combat proven and reliable ISR system that is ideal for maritime and ground surveillance, search and rescue, patrol and monitoring.

ASIO is an extremely powerful, comprehensive and highly flexible ISR solution that is individually tailored to the specific requirements of our customers, making each ASIO system unique.



BIRD's ASIO solution provides you with an integrated, end-to-end, real-time situational awareness solution that is specifically tailored to your specific requirements. Our extensive operational C4ISR experience enables us to deliver a customized, affordable solution that easily integrates into your existing ISR processes. The types of missions we support include:

- ENVIRONMENTAL MONITORING**
- Fire/disaster relief
 - Power/oil/pipeline inspection
 - Fisheries inspection

- HOMELAND SECURITY**
- Border surveillance
 - Foiling smuggling
 - EEZ monitoring

- ISR MISSIONS**
- Maritime and coastal patrol
 - Protection of strategic assets
 - ELINT & COMINT

WHAT YOU NEED, WHEN YOU NEED IT



ASIO - THE SOLUTION BEST
TAILORED TO YOUR MISSION
REQUIREMENT

Based on your operational requirements and existing in-country capabilities such as aircraft and command & control centers, BIRD provides an ASIO solution that works best for you. Elements available include: airborne platforms, sensors, communication systems, mission management, ground command and control and mobile deployable terminals. As BIRD's ASIO solution is platform independent, it can be easily integrated into your existing aircraft or alternatively, the solution can include an aircraft for either purchase or lease. Based on our proven experience, BIRD is able to deliver a complete ASIO program ready for use under an aggressive delivery schedule.

KEEPING YOU FULLY INFORMED

The ASIO solution is a complete system that integrates state-of-the-art, all-weather surveillance and monitoring sensors with BIRD's Multi Sensor Integration System (MSIS).

Based on your operational requirements, BIRD's customized ASIO solution will include a variety of state-of-the-art sensors needed to capture every object or situation of interest to keep you informed and enable you to take action.

Engineered using open architecture, the ASIO solution provides you with the flexibility to integrate additional sensors with the ASIO, enabling you to easily upgrade to more advanced sensors as new developments become available or as your operational needs evolve over time.

Once the mission data is collected, video, data and voice are then securely communicated to your ground C&C station in real-time over either satellite links or direct line-of-sight data links, creating a unified and common situational overview. This mission data can also be disseminated in real-time to other ground centers or users of your choice in order to provide you with maximum operational advantage to effectively respond to threats.

MSIS - Mission management system that provides a unified, real-time situational awareness overview along with a complete Order of Battle



Airborne Missile Protection System (AMPS) - Protects the aircraft from ground-to-air missile threats



DATA LINK and SATCOM - Transfer real-time video, voice and data to headquarters, ground troops and naval forces



Electronic Intelligence Payload (ELINT) - Detection, identification and geo-location of electronic signals of interest



Multi-Mode Radar - Long range, all-weather observation and surveillance radar supporting SAR, ISAR, RP, Air-2-Air, MTI, weather mode and more



Communication Intelligence Payload (COMINT) - Detection, classification/recognition, direction finding, position fixing and exploitation of RF signals



Electro-Optical and Infrared (EO/IR) - High resolution day and night imagery combined with laser range finder and pointer





The ASIO solution is designed to achieve maximum mission effectiveness through BIRD's advanced Multi Sensor Integration System (MSIS) that manages the complete mission profile (Briefings, Operational and Debriefings/Analysis).

BIRD's experience in operational C4ISR missions has provided the insights necessary to build an industry-leading MSIS, providing you with a comprehensive, unified, real-time situational awareness overview.

BIRD's MSIS is the heart of the system as it collects and processes large amounts of data gathered from all onboard sensors. The information is then automatically classified and then clearly displayed using state-of-the-art data fusion algorithms with an intuitive, easy-to-use human machine interface.

MSIS reduces mission crew workload by displaying important aspects of the mission at any given time, enabling the crew to efficiently complete detection and classification of only the relevant targets.

MSIS is also integrated with the Pilot's Mission displays, enabling the pilot to efficiently respond to a variety of mission needs, such as following or changing the flight plan, avoiding No Fly Zones, programming the Flight Management System or other issues that demand his attention. Real-time mission data is displayed to the pilot enabling him to respond to changing situations both on the ground and in the air.

Finally, the MSIS offers total interoperability with other C&C systems and real-time secure data exchanges between the ground and airborne operators. This enables the sending and receiving of orders from higher command or other units and to rapidly update additional users with real-time situational updates.

PIECING TOGETHER THE PUZZLE

BIRD'S MSIS PROVIDES
YOU WITH THE ACTIONABLE
INTELLIGENCE YOU NEED,
WHEN YOU NEED IT

UNMATCHED REAL-WORLD EXPERIENCE



BIRD's ASIO solution was designed and built by a highly experienced team with decades of active operational C4ISR flight experience.

We're pilots, operators and engineers, having flown thousands of missions in some of the world's most challenging regions. The ASIO solution was designed and built with a clear focus - to provide our customers with a fully customized and operationally flexible C4ISR solution.

The ASIO solution has been delivered to the satisfaction of highly demanding customers all over the world. We look forward to bringing it to you.





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