

More than 40 years of experience



Introducing: MSS 7000 - Airborne ISR Multi Mission Management System



ST Airborne Systems has more than 40 years of experience in integrating airborne maritime surveillance systems and an impressive record of references in more than 20 countries. Today we work together with Bromma Air Maintenance in joint projects for providing special mission aircraft for our customers. Our systems are in daily use by coastguard organizations around the world, as a key element in their capability to control and protect national waters.

Bromma Air Maintenance (BAM) is operating since more than 40 years from its main base at Bromma airport, Stockholm, Sweden and provides aviation services such as equipping special mission aircraft, base and line maintenance, repair and overhaul services for turboprop, single and multiengine piston, jet aircraft and helicopters. BAM is Part 145 and 21 certified and holds the EASA STC for the MSS 7000 installation on Textron B300 aircraft.

Together and in co-operation with the Swedish Export Credit Agency we can also offer very attractive financing solutions. Please contact us to find out how we can help you obtain the airborne ISR solution you require!
If you have questions, please send an e-mail to info@airbornesystems.se or to info@bam.aero

MSS 7000
Excellence Expertise Efficiency
- your best choice for successful
surveillance missions!

www.airbornesystem.se

BAM 350 **EAGLE EYE**
An outstanding tool for the
Airborne ISR mission!

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ST Airborne Systems, July 2018

MSS 7000 is the latest generation airborne surveillance systems from ST Airborne Systems and constitutes a significant step from maritime surveillance to a truly multi-mission ISR.

The MSS 7000 is a completely new system based on operational experience from Coast Guard organizations around the world using earlier versions of our systems, most notably the very successful MSS 6000.

Estonia is the first country to get the new MSS 7000 system, after operating the MSS 6000 for more than 10 years. The new MSS 7000 system for Estonia is installed on board a new Beech King Air 350ER aircraft.

Bromma Air Maintenance (BAM) has performed the installation of the system along with a number of modifications to make the aircraft very well suited for its role as an effective and easy to operate surveillance aircraft.



The MSS 7000 equipped aircraft provides a superior working environment. Ergonomic seats are installed for two system operators and two observers. Two identical consoles allow the two operators full flexibility in sharing the work load between themselves.

An advanced Digital Voice Control System (DVCS) with access to the full radio communications suite ensures effective communication between system operators, observers and pilots as well as real-time coordination with mission command on the ground and cooperating units at all times.

To ensure that the whole crew shares the same situational awareness the pilots and observers have tablet computers showing the tactical map and sensor data including EO/IR video and the ship image database.

Operation of the system is very intuitive using a smartphone-like Human Machine Interface (HMI) with all important actions no more than two operations away.



Each operator console has two large 23" multi-touch screens with several new features to facilitate ease of operation and superior situational overview. Sensor data, maps and reports are presented in pre-assigned windows on the screen. Dedicated window layouts or "profiles" are optimised for specific mission types. The operator can at any time switch between the mission types and/or save a personalized configuration to always be ready to meet the current mission objectives.



The search radar, EO/IR sensor and IR/UV scanner are housed in a radome under the belly of the aircraft. The EO/IR sensor is mounted on a hoist mechanism for maximum field of view in flight and maximum protection during take off and landing.

All sensor data is correlated, recorded and overlaid on the digital map. New features include an integrated ship data base for target correlation and filtering as well as a media centre for facilitating analysis and handling of video clips and camera snapshots. The complete mission data set is digitally recorded and may be retrieved from the on-board mission system to be further analysed and disseminated in a ground segment, either by a MSS 7000 Ground Station or the more comprehensive MSS 7000 Mission Command Center. The ground segment may also be integrated in an existing IT environment offering secure web access to live or stored mission data to relevant stakeholders.



The MSS 7000 for the Estonian Police and Border Guard seamlessly integrates an extensive suite of sensors and communication equipment to make the aircraft an excellent tool for a wide range of surveillance tasks.

A truly scalable system architecture allows us to offer cost effective solutions for small or large rotary and fixed wing applications. Our offered solutions may range from a simplified work station with one large multi touch screen suitable for a single operator in a small fixed or rotary wing aircraft to larger systems with up to three operator consoles, each with two large multi touch screens plus one or more portable work stations for observers/liaison officer/mission commander.

The MSS 7000 may also be delivered with additional integrated communication systems, such as a LOS high speed video/data downlink and tactical communication systems. As a world class system integrator ST Airborne Systems are able and willing to offer the sensor suite best suited to meet your requirement providing best price/performance ratio and also including/integrating legacy sensors or communication equipment as required.



"You never walk alone!" All our system deliveries include training for pilots, operators and maintenance engineers.

We also offer a comprehensive suite of services ranging from full telephone technical support, on call on site assistance, yearly system maintenance, system upgrades and operator refresher training packages ensuring an efficient and reliable operation throughout the life of the system. We can also offer complete service packages meeting availability requirements as well as dry or wet lease options.