



Aerial Surveillance Systems, Inc.

2011 PRODUCT INFORMATION SHEET

SkyEye 350 Multi-Role, Special Missions Aerial Surveillance Platform



The **SkyEye 350** is a unique, highly-capable Airborne Multi-Role, Multi-Sensor, Special Missions - Intelligence, Surveillance and Reconnaissance Platform (MR/SM-ASP) which has been fully configured for all C4-ISR and Maritime Surveillance/Exclusive Economic Zone (EEZ)/Oil Spill Monitoring and Security applications utilizing a new or low-time, completely refurbished, pre-owned **Hawker Beechcraft Corporation (HBC) King Air Model 350** Turbo-Prop Aircraft which has been specially modified with an installed **FLIR Systems, Inc. StarSAFIRE HD**, true High Definition (or other system depending on the customer's specific needs), day-night, Multi-Mission Optical Stabilized Payload (MMOSP) with Electro Optical

Multi-Role, Special Missions I.S.R. Aircraft ⚡ SkyEye 350 Aerial Surveillance Platform

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and Infrared (EO-IR) FLIR capabilities and a Laser Range-Finder/Pointer System; a Specially-designed Mission Control Operator Console with a High Performance Central Mission Computer with Hot-swap Hard Drives and onboard Digital Video Recording capabilities as well as a custom designed, dual 19 inch HD Mission Monitor display system with two additional HDTV displays in the cabin and one HDTV display in the cockpit to display sensor suite and tactical information to all operator and pilot locations; an on-board **BMS** Line-of-Sight (LOS) Airborne Microwave Transmitter system with two-way data link and Portable Ground Receivers; a COMINT Communications Intelligence Wideband, Multi-Frequency Tactical Radio Receiver-Transmitter (**Cobham FlexCom**) sub-system with encrypted, secure Air-to-Ground Communication links; a Special Missions Cargo Pod for installation of Sensor Suite and EO/IR Turret; a highly upgraded avionics suite including a **Universal Avionics** Flight Management system with triple GPS WASS-enabled, Lateral Vertical Profile (LPV)-3D RNAV low visibility approach capabilities to any runway in the world; RVSM and TCAS-II with enhanced and elementary surveillance transponders; a sophisticated **Cobham** pilot/crew cabin intercom system; an integrated Mission Control Software Suite from **General Atomics or Force X** with Mission Moving Map display for geo-location of any spot on Earth allowing synchronization and control of all sensors onboard the aircraft; a Class A Enhanced Ground Proximity Warning System;; a High Frequency Radio (HF) with SelCal, a four (4) channel **EMS eNfusion® HSD-400** Satcom system which can support two (2) simultaneous **Inmarsat** Swift 64 channels, or a single (1) SwiftBroadband (BGAN) channel interfaced with the **eNfusion® AMT-3800** intermediate-gain electronically steered antenna to receive and transmit video, voice and data to-and-from the aircraft via Inmarsat's world-wide satellite network. The HSD-400 accesses SwiftBroadband services over Inmarsat's I-4 satellite network and the unit can fall-back on Swift 64 services over the I-3 satellite network, for ultimate reliability over SwiftBroadband's Standard IP (up to 432kbps, nominally 300-150kbps) or Streaming IP (QoS service).The **EMS Satcom** system is installed and interfaced with the **SCOTTY Group** airborne, beyond line-of-sight (BLOS) video surveillance and communications suite which supports transmission of high resolution, live streaming video, allows voice calls, enables the aircraft to hold in-flight full duplex video conferences, send and receive moving map data, access the Internet, send faxes, still pictures, and transfer recorded video files in "real-time" to/from anywhere in the world over a link which is compatible to all military-standard encryption devices, and an **EMS Aviation FORTÉ** Iridium Satellite telephone system from **EMS Sky Connect** and is fully provisioned for 3 each **Harris PRC-117** military radio systems with interface to the aircraft Special Mission Audio system with 2 each installed "batwing" Satcom antennas and one Line of Sight (LOS) UHF antenna, all with US and NATO Blue Force Tracker interface, antenna and provisioning.

The **SkyEye 350** is maximized to cope with numerous challenges in difficult operational theatres and dense communications environments with rapid and frequent changes in configuration parameters and provides **persistent** tactical and strategic intelligence by

surveillance and identification of targets utilizing its day-and-night stabilized electro-optical sensors with highly gyro-stabilized tracking capabilities and by utilizing its communications and onboard computer processing capabilities for searching, intercepting, measuring, locating, monitoring and analyzing targets and communication transmissions of interest. It can also be configured with optional Maritime Surveillance or Synthetic Aperture Radar with Spot SAR/Ground Moving Target Indicator (GMTI) capabilities and high-speed, high bandwidth, fully encrypted, Ku-band Satellite Communications (SATCOM) system and Satellite Data Links as well as being fully customer configurable for requested additional subsystems such as SIGINT and COMINT or other specialized sensors such as the **Optimare Oil Spill Monitoring MEDUSA** system.

The SkyEye 350 Offers Several, One-of-a-Kind, Flexible, Multi-Mission Capabilities in a Single, Low-Cost, Commercial Off-The-Shelf (COTS) Aerial Surveillance Platform (ASP) with the Following, Persistent, Quick-Change Multi-Role Applications:

C4-ISR Intelligence, Surveillance and Reconnaissance (ISR) Platform for:

- Fisheries Patrol
- News Gathering
- Covert Operations
- Anti-Piracy Patrol
- Target Acquisition and Designation
- Signals Intelligence
- Border Surveillance
- Forest Fire Spotting
- Nuclear Materials Detection
- Anti-Terrorism
- Air Ambulance
- Enemy Location and Tracking
- Oil Spill Monitoring and Response
- Offshore Facilities Security
- Maritime Patrol and EEZ Protection
- Troop Movement and Tracking
- Explosives Detection
- Weapons Fire Control
- Narcotics Surveillance
- Special Forces Insertion
- VIP-Executive Transport
- COMINT/SIGINT
- Early Warning
- Nuclear Proliferation
- Search & Rescue
- Pollution Control
- Pipeline Protection and Patrol
- Homeland Security
- Major Event Security
- Persistent VVIP Private Security
- Airborne Law Enforcement
- Nuclear Facilities Protection
- Illegal Logging, Mining, Pollution and Grazing
- Wildlife Survey for Illegal Poaching and Big Game Population Control
- Maritime Patrol and Fisheries Protection
- Natural Disaster Survey and Relief: Flooding, Forest Fire, Volcanic Monitoring
- Manmade Disaster Detection and Control
- Radiation Emissions Detection
- Search and Rescue
- Famine and Genocide Population Displacement — Monitoring and Control

The SkyEye 350 is the most capable, Commercial Off The Shelf (COTS), rapidly deliverable, fully FAA certified, lowest cost C4-ISR Multi-purpose, Multi-mission Aerial Surveillance Platform in the world -- PERIOD!

