



Aerial Surveillance Systems, Inc.

SkyEye 200 Airborne Law Enforcement Platform



Detect, Process, Evaluate, Resolve, Act, Exploit! - In Real-time!

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

15041 N. Airport Drive, Suite 107, Scottsdale, Arizona USA 85260

Specifications and Description

ASSI SkyEye 200 - Multi-Role / Special Missions - Aerial Surveillance Platform

MR/SM-ASP

The SkyEye 200 Provides Low Cost, Persistent, Multipurpose Tactical and Strategic Intelligence with the Added Benefit of On-board Human Review and Analysis.

The ability to make rapid and frequent changes in configuration parameters allows the SkyEye 200 to meet the challenges of various operational theaters and dense communications environments and to be used in a variety of roles, at the lowest cost of operation currently available.

* * * * *

The *SkyEye 200* is a unique, highly-capable Airborne Multi-Role, Multi-Sensor, Special Missions Surveillance and Reconnaissance Platform (MR/SM-ASP) which has been configured utilizing a low-time, completely refurbished, pre-owned Hawker Beechcraft Corporation (HBC) King Air Model 200 turboprop aircraft. Modifications custom tailored to the **Airborne Law Enforcement** role include:

- **FLIR Systems, Inc. Star SAFIRE HD** EO/IR, day-night Multi-Mission Optical Stabilized Payload (MMOSP) with Electro Optical and Infrared (FLIR) capabilities (or other customer-specific sensor payloads).
- a specially-designed Mission Control Operator Console with a custom Rosen Video Distribution Systems and onboard digital video recording capabilities and General Atomics CLAW mission and sensor control software with Moving Map and onboard mission storage capabilities
- a Laser Range-Finder/Pointer System
- an onboard Airborne Microwave Transmitter system with Portable Ground Receiver
- a COMINT Communications Intelligence Wide-Band, Multi-Frequency Receiver-Transmitter (Flexcom) sub-system with air-to-ground communication links
- a special missions cargo pod for installation of Sensor Suite and EO/IR Turret
- a sophisticated pilot/crew cabin intercom system

The *SkyEye 200* can also be configured with optional Search and Rescue or Synthetic Aperture Radar with Spot SAR/GMTI Capabilities and high speed, high bandwidth, fully encrypted, wideband Satellite Communications (SATCOM) and Satellite Data Link and other mission specific custom hardware.

The SkyEye 200 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:

Airborne Law Enforcement/ISR Platform

For:

Enemy Location	Anti-Terrorism	COMINT
Fisheries Patrol	Air Ambulance	Early Warning
News Gathering	Oil Spill Impact	Search & Rescue
Covert Operations	Maritime Patrol	Pollution Control
Anti-Piracy Patrol	Troop Movement	Pipeline Protection
Target Acquisition	Explosives Detection	Homeland Security
Signals Intelligence	Weapons Fire Control	Major Event Security
Border Surveillance	Narcotics Surveillance	Persistent Private Security
Forest Fire Spotting	Special Forces Insertion	Airborne Law Enforcement
Nuclear Material Detection	VIP-Executive Transport	Nuclear Facilities Protection

Other Applications Include:

Environmental Survey/Humanitarian Assistance Airborne Platform

For:

- Illegal - Logging, Mining, Pollution and Grazing - Survey, Monitoring and Control
- 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 and Control
- Manmade Disaster Detection and Control
- Radiation Emissions Detection (Nuclear Proliferation)
- Search and Rescue and Emergency Air Ambulance
- Famine and Genocide Population Displacement - Monitoring and Control

Custom ASSI Installed Modifications and Integrated Surveillance and Reconnaissance Systems:

FLIR Systems, Inc. Star SAFIRE HD High Definition Quad-or Five Sensor, Stabilized Imaging System optimized for the SkyEye 200 ISR application with the following Key Features:

- compact multi-sensor Gyro-Stabilized Gimbaled Turret-Mount with Modular Design
- combat proven surveillance capability with outstanding image quality and standoff range
- quad sensor with Infrared Thermal Imager (FLIR), color wide angle daylight camera, color daylight camera with zoom spotter lens (955mm), eye safe laser Rangefinder
- exceptional infrared optics with 15mm aperture
- DLTV Spotter with full 90mm aperture with Plug and Play SmartLink Interface
- Turret Vibration Isolation and Active Gyro Stabilization with full day/night capabilities enabling the detection and recognition of people, objects and vehicles over long distances (5-10 nautical miles and 10,000-15,000 AGL)
- manufactured to Military Specifications for maximum reliability and low maintenance requirements
- custom operator input device (control unit for Mission Control Console)
- night vision compatibility
- automatic video tracking with digital output
- high quality video feed for digital viewing, onboard storage and/or remote transmission.

The EO/IR Turret is installed with a retractable mount in a highly modified Special Missions Cargo Pod. The cabin-mounted specially designed Mission Control Console has 2-22 inch custom Rosen LCD/HD video monitors, dedicated GPS receiver, Moving Map Display, Onboard Digital Video Recorder with 10+ hour storage capability, Microwave Transmitter Unit with Ground Station and Air-to-Ground signal transmission capability, Iridium Satellite Telephone System, Laser Rangefinder with SmartLink Interface and cabin control and intercom system.

The installation and modification is fully FAA certified and approved for export to most countries, subject to State Department, U.S. Customs and ITAR Regulations.

The onboard General Atomics CLAW sensor and systems control software with full moving map (or UtiChart LE-5000) with its dedicated GPS receiver allows the system to:

- cue the Skyball to a geographic location and then geo-track targets regardless of position
- display the geographic location of the turret line-of-site and target
- display the field of view footprint
- geo-point the turret and geo-locate the target location using laser rangefinder

The entire system is installed to enable rapid removal / replacement for easy configuration changes in two hours or less. There is absolutely **NO** permanent modification to the original airframe.

This installation allows aircraft to serve multiple roles needing ***persistent*** aerial capabilities such as Search and Rescue, ISR, forest fire spotting, airborne law enforcement, air ambulance, environmental resource management, border protection and traditional executive or corporate passenger carriage.

Customer Available Options (depending on specific Country Export Requirements):

- Dual (second) Mission Control Consoles with dual EO/IR Turrets
- Night vision compatible cockpit and cabin
- Search and Rescue or Ground Tracking Radar (SAR) with Ground Moving Target Indicator (GMTI)
- Air Ambulance quick change interior; utility interior; or eight passenger executive VIP interior
- Missile detection warning and avoidance systems (MWS)
- Laser target designator (not available for export to most countries)
- Long range fuel tanks (for more than eight hours of loiter time)
- Multi-frequency encrypted communications suite
- Survival equipment external drop capability
- External or internal fixed camera ports
- Wing stores hard points
- Satellite uplink and downlink for transmission of sensor information to any point on Earth.

Additional customer desired options can be accommodated.

Standard List Price as Equipped:

\$5,950,000.00 USD

THE MOST CAPABLE, MULTI- PURPOSE, LOWEST ACQUISITION COST, LOWEST DIRECT HOURLY OPERATIONAL COST OF ANY AERIAL SURVEILLANCE PLATFORM FOR THE I.S.R ROLE! ANYWHERE.....

..... PERIOD!!



U. S. Military King Air C-12R - Aerial Surveillance Platform