C4-ISR EagleEye 350 Airborne Surveillance Platform Presentation
EagleEye 350

C4-ISR Multi-Mission
Maritime Patrol Aerial Surveillance Platform
International Surveillance Solutions, Inc. is an industry leader in providing turn-key Airborne Intelligence, Surveillance and Reconnaissance (C4-ISR) aircraft and services and is the manufacturer of the EagleEye 350 and 200 - the most advanced and capable Multi-Role, Special Missions, Aerial Surveillance Platforms available in the world.
AIRBORNE MOBILE COMMAND CENTER FOR ANTI-TERRORISM DETECTION, NATURAL DISASTER CONTROL, TROOP MOVEMENT AND OBSERVATION, AIRBORNE LAW ENFORCEMENT, BORDER AND MARITIME SECURITY.

- Aircraft are available On Demand and available for both short and long term lease, fully crewed and turn-key for all types of surveillance operations.
FORCE MULTIPLIER

Role equipped aircraft with state-of-the-art data collecting sensors with real-time imagery transmission capabilities.
Discrete, secure and cost effective surveillance capabilities suitable for many roles, including airborne law enforcement, drug interdiction, force protection, border and homeland security, port and maritime surveillance, anti-piracy and many other applications.

Full satellite (BLOS) and Line Of Site (LOS) encrypted streaming video down-link capability for real-time, long-range transmission to any location on earth.

Flexible, quick reaction C4-ISR capabilities worldwide with access to all airspace - civilian and military. Inconspicuous and discreet footprint with Normal FAA Registration.

Secure, encrypted air-to-ground communications.
C4-ISR CAPABILITIES INCLUDE:

- Force protection
- Air to ground surveillance and reconnaissance operations
- Airborne Relay Missions
- Maritime Surveillance, Anti-piracy and Pollution Control
- Illegal Immigration Detection and Border Protection
- Disaster Assessment and Damage Control
- Forest fire detection and command and control
- Oil Rig and Pipeline Security
- Pollution Control
- On demand customer defined operations
- Port Surveillance and Protection
- Large Event Security
- Anti Narcotics and Evidence Gathering with full Chain-Of-Custody controls
The human asset is composed of:

- Mission Qualified Aircraft Commanders
- Special Mission Sensor Operators
- Imagery Analysts and Mission Planning Specialists
- All personnel have a military or law enforcement background, security clearances and significant experience in ISR operations.
SURVEILLANCE CAPABILITIES:

- Highly specialized imagery provides our clients with fully recordable, geo-referenced and time-stamped imagery, transmittable in real-time to any ground location required and stored via on-board, solid state mission recording hardware.

- General Atomics CLAW moving map and sensor control software allows quick and efficient classification, analysis, and mission management, including pre- and post- mission planning and analysis.
General Atomics Lynx II Maritime Surveillance Radar

Maritime Wide-Area Search

GA-ASI Maritime Wide-Area Search (MWAS) for the Lynx® family of radars.

The MWAS mode utilizes advanced waveforms, Constant False Alarm Rate (CFAR) algorithms, and Signal processing techniques to provide the capability to search for, detect, and track maritime targets for maximum maritime surveillance capability.

Modes of Operation

Arc Scan for wide-area surveillance and target detection and tracking
Spot Scan for focused target detection and tracking over a specific area of interest
Planned Position Indicator (PPI)
B-Scope Display
Target Detection
Low False Alarm
AIS Integration
Target Cross-Cue & Dissemination
MISSION EQUIPMENT

FLIR Systems, Inc.
Star Safire 380HD.
True - High Definition, Highly Stabilized Electro-Optical - Infrared (EO/IR) Day/Night Camera

General Atomics CLAW moving map and mission control software with full pre and post mission planning.

Increased mission effectiveness by simultaneous tracking of aircraft and target position with real-time geo-pointing, geo-tracking and geo-location.

SCOTTY and EMS SatCom live BLOS streaming video over Inmarsat.
A wide variety of search and rescue/maritime surveillance radars are available as are several Synthetic Aperture Radars (SAR) with Ground Moving Target Indicator (GMTI) capabilities.
Optional Equipment for the *EagleEye 350* for other Special Applications (if desired)*:

Very High Resolution stabilized and geo-referenced, multi-spectral digital still camera for facial, vehicle and license plate recognition and Wide Area Surveillance.

*additional cost*
COMINT and SIGINT Suites available to suit customer's needs and requirements.
SIGINT Interception equipment for DF tracking and listening to cell phones, push-to-talk, VHF handheld radios and other types of communication devices.

SIGINT Intercept & Location Technology

Lightweight low-power digital receiver systems which can be installed onboard the EagleEye 350. The new low SWaP Spectra Scout systems are specifically designed to provide the user with priority based spectral survey with mission planning and actionable energy alarms based on signal criteria. These systems combine spectral search and detection with emitter location using T/FDOA and Phased Interferometer direction finding techniques, algorithms, and unique antennas – making them ideal for tactical SIGINT collection and threat warning packages.

Key Features

- 200 MHz to 6000 MHz Frequency Coverage
- 20 MHz BW and 400 MHz/sec scan rate
- Dual Channel Coherent Digital Receiver or Dual independently programmable digital receiver
- Spectral stare, scan, with priority based search
- Environmental Threshold detection
- Accurate signal parameter measurement of Frequency, Amplitude, BW, SNR, Time
- I/Q recording with AM/FM Demod
- Up to 24 User Defined Software Channels
- Integrated GPS and time-tagging for Precision Geolocation T/FDOA with DF
- LPI Algorithms FMCW and Pulsed FMCW
- 24 Channel WB/NB
- BW 20 MHz to 50 kHz
- Priority Target List
- Signal data recording on targeted SOI’s
- Easy to use User GUI and display
- Windows® XP OS
Exclusive Economic Zone (EEZ) Maritime Patrol – EagleEye 350

Modern Maritime Patrol Aircraft carry two dedicated mission subsystems for the two mission categories:
PROACTIVE

EEZ, OUTER CONTINENTAL SHELF (OCS) and LITTORAL WATERS

MULTI-MISSION Maritime Surveillance to accomplish the following:

* (EEZ) and (OCS) Patrol and Protection
* Illegal Immigration, Drug Interdiction, Anti-terrorism, Anti-smuggling.
* Search and Rescue (SAR) and Coastal Protection (Coast Guard) (CG).
* Surface Waters Security via Surveillance, Vessel Monitoring and Tracking.
* Overwater Air-to-Air Threats and Incursions.
* Port security.
* Protection, Security and Sovereignty of Shipping Lanes and Commerce.
* Surface and Littoral Waters Warfare Operations.
* Oil Spill Monitoring and Response.
* Fisheries Patrol.
* Pollution Control and Prosecution. Illegal Ship Discharges. Illegal Dumping.
* Command and Control for Natural and Man-made Disasters.
* Evidentiary and Chain-of-Custody Documentation for Prosecution Purposes.
Search and Rescue
Direction Finding
AIS Tracking

Smuggling
and
Illegal Entry
PROACTIVE
Offshore/Onshore Security Protection Against:
Terrorist Attacks, Sabotage, Kidnappings
Maritime Surveillance, Synthetic Aperture Radar with AIS Target Indicator provides all weather capabilities integrated with the mission software and FLIR.
The *EagleEye 350* can be fully integrated into any existing Government/Military network structure.
Vision

International Surveillance Solutions, Inc. was formed to fill the need for a responsive, focused and customer-oriented company to expertly, rapidly and reliably handle all facets of Airborne I.S.R. and Aerial Surveillance and Reconnaissance Project Development and Completion. We are entrepreneurial, aggressive and customer-driven. We stand ready to provide world-class service and attention to detail to achieve the stated mission-goals and requirements of our customers in every way possible.
*International Surveillance Solutions, Inc.* is a leader in cutting-edge technology for Maritime Surveillance.

The *EagleEye 350* is the culmination of more than three years of research and development work.

It is a fully certified Commercial Off The Shelf (COTS), Turn-key ISR Solution with short delivery lead time and is fully FAA Normal Category certified.
Summary

Maritime Patrol

Emergency Management

Natural and Man-made Disasters

Oil Spill Monitoring

Positive Public Relations

Command and Control

Oil Spill Response and Clean Up

Security and Protection
The *EagleEye 350* is the most capable, multi-role, C4-ISR Maritime Surveillance Platform in the World at its cost point. *Period!*