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AeroScout Multi-Sensor Airborne System

Imaging Group

APPLICATIONS:

- Aerial Observation & Reconnaissance
- Border Patrol & Surveillance
- Site Security & Assessment
- Covert Intelligence



The AeroScout Multi-Sensor Airborne System provides fixed wing aircraft, helicopters and unmanned air vehicles (UAVs) unsurpassed night/day surveillance and observation capabilities. A four-axis gyro-stabilization system facilitates maximum sensor performance and complete aircraft lower hemispheric coverage, making AeroScout perfect for surveillance, reconnaissance and intelligence missions that support homeland security and national defense.

In addition to a high performance midwave thermal imager that incorporates a three field-of-view telescope and advanced image processing electronics, AeroScout Multi-Sensor Airborne System includes a complementary broadcast-grade three-CCD day TV sensor with 10x zoom range. The integral, eye safe laser rangefinder provides accurate measurement to target while the laser diode pointer covertly highlights a selected target for aircrew and ground personnel equipped with night vision devices. When coupled to the airborne platform's on-board navigation system, AeroScout displays UTM grid or latitude/longitude coordinates with impressive accuracies.

Currently in use in demanding environments around the world, the ruggedized AeroScout Multi-Sensor Airborne System demonstrates superb observation and surveillance performance at an attractive price.



Rotary-wing Aircraft



Optionally-Piloted and Unmanned Air Vehicles (UAVs)



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AeroScout Multi-Sensor Airborne System

AeroScout Turret

Turret Characteristics

Field-of-Regard	<i>Azimuth Elevation</i>
Source Voltage	
Total System	<i>Nominal Transient</i>
Operating Temperature	

Thermal Imaging Camera

Spectral Band	
Detector	
Cooling	
Optics:	<i>Narrow FOV Medium FOV Wide FOV</i>

Visible Imaging Camera

Format
Resolution
Sensitivity
Lens

Lasers

Diode Pointer
Eyesafe Rangefinder

Dimensions

Turret Unit
Auxiliary Control Unit
Laptop Control Console

Small / Steady / Robust

4 Axis - Gyro Stabilized
Digital Servo Control System
360° - continuous
+20° to -90°
28 VDC
200 W
350W

-30°C to +50°C

MidWave Infrared

3 -5 Micron
320 X 240 Indium Antimonide (InSb)
Closed Cycle Cryogenic
3 - FOV Telescope, 4X Microscanning
1.2° Horizontal x 0.9° Vertical
4.8° Horizontal x 3.6° Vertical
21.3° Horizontal x 16° Vertical

High Resolution Color

1/3" - 3 CCD Color (NTSC, Y-C, or RGB)
750 Lines - Horizontal
f/8.0 @ 2000 lux
10X motorized zoom, 1.2° to 12°

Target Location

830 nanometers - 100mW
1.54 micron - 20km range

Size (W x H x D)

Weight

14.5 x 15.1 x 20.7 in (37 x 38 x 53 cm)	72 lbs (33 kg)
19.25 x 7.5 x 19 in (49 x 19 x 48 cm)	33 lbs (15 kg)
15.5 x 9.75 x 5.5 in (39 x 25 x 14 cm)	5 lbs (2 kg)

Specifications subject to change without notice (04/04)

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