



ADVANCED CENTRIC SYSTEMS B.V

**AIRBORNE LONG-RANGE MULTIPLE-SENSOR
DAY/NIGHT SURVEILLANCE PAYLOAD**

Product brochure



THE PROBLEM

Airborne surveillance is required in situations where a permanent ground-based surveillance layout is nonexistent, disabled or unable to provide effective coverage, when the territory that has to be covered is out of range, or when the operational circumstances demand enhanced or specialized coverage. Examples: sea search and rescue operations, out-of-area operations or operations behind enemy lines, long-range interdiction missions and so forth.

Mission aircraft, including dedicated surveillance aircraft, are complex and highly elaborate airborne platforms designed, developed and built for specific purposes. These platforms are normally costly and the specialized systems they carry require specifically trained operators and on-going, specialized technical and logistic support.

In many cases, military organizations and government agencies do not require (or cannot afford) a permanent fleet of mission aircraft. When such users seek an airborne surveillance solution, a more cost-effective option is required – like converting a standard aircraft into an airborne surveillance platform.

THE SOLUTION

ACS presents ALRMS-DNSP – Airborne Long-Range Multiple-Sensor Day/Night Surveillance Payload.

ALRMS-DNSP is an imaging system designed and encapsulated in a stabilized turret that may be fitted to various fixed-wing and rotary-wing platforms for the purpose of performing long-range intelligence gathering, surveillance and reconnaissance (ISR) missions.

The stabilized turret of the ALRMS-DNSP contains a thermal imager, a daytime color CCD zoom camera, a black and white CCD spotting sensor, ICCD camera and a Laser rangefinder. The turret is fitted to the aerial platform along with a dedicated workstation that controls the payload while the carrying platform is airborne.

A mobile ground station rounds off the setup by enabling the airborne platform to downlink the video and imagery data picked up by the payload in real time.

This setup offers a high-performance, cutting-edge airborne surveillance solution at the fraction of the cost of a dedicated surveillance platform.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Multiple-sensor imaging payload for long-range airborne surveillance
- Extensive range of applications – from military ISR through HLS to environmental monitoring
- Stabilized turret
- State-of-the-art electro-optical sensors
- Automatic target tracking
- Cutting-edge image processing
- An airborne workstation/mobile ground station combination enables long-range, real-time operation
- Specifications:
 - Turret weight: 85kg
 - Power source: 28 VDC
 - Power consumption: less than 700W

