

SATS2

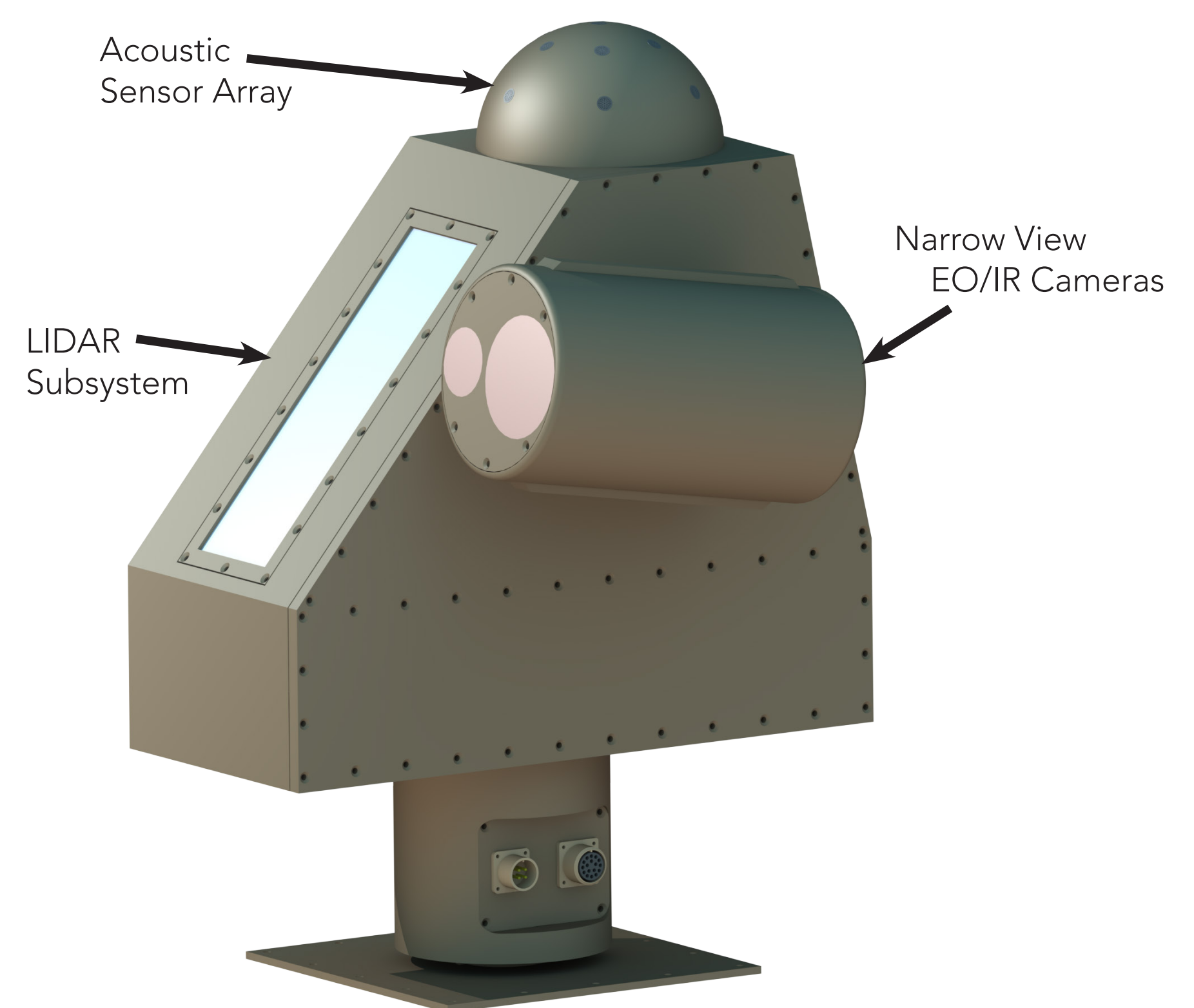
Small Aerial Threat Surveillance System

ADSYS
CONTROLS INC.

The CUAS SATS2 System designed to fill critical gaps in mobile aerial surveillance, blending cutting-edge optical and acoustic sensing technologies, SATS2 bridges the gap between RADAR and LIDAR to deliver fast and accurate detection.

Key Performance Parameters

- » Hemispherical Coverage
- » Detection Slant Range
 - » Small Quad 1410 m
 - » Fixed Wing 2050 m
 - » Extend Range Modes > 5x range
- » Refresh rates < 15 seconds
- » Target Range Accuracy = 0.52 m
- » Target Angle Accuracy < 1.4 mrad
- » Small Form Factor 24" x 30" x 24"



A Whole New Type of LIDAR. Optimized for acquisition speed and accuracy, SATS2 combines fast optical scanning with acoustic cueing to provide detection of low observable threats at ranges of up to 20km in a matter of seconds.

Detection Is Only the Beginning. Once SATS2 has detected a threat, the system provides precise threat location with better than one meter accuracy. The threat's position is continually updated as it moves, and the system is capable of providing precise location information for multiple threats simultaneously.

Multiple Threats – One Solution. The SATS2 system provides reliable detection and tracking of a variety of larger traditional targets, including commercial, small, private and rotary wing aircraft; as well as untraditional low observable targets like UAVs, remote control airplanes, ultralights, paragliders and hang-gliders.

Safely Providing Security. SATS2 utilizes eye-safe lasers enabling practical installation in densely populated areas (e.g. airports/airfields, military bases, command centers etc.).

Rugged and Mobile. Each ruggedized system is easily transportable allowing for fast setup time and for multiple stations to be used in unison for extended range.

SPECIFICATIONS

- » Range Capability: Up to 10 km for small unmanned threats; beyond 20 km for larger manned/unmanned aircraft
- » Laser Eyesafe
- » Dimensions: Approx. 3' x 3' x 5' (LWH)
- » Range Measurement Accuracy: < 1 m
- » Angle Measurement Accuracy: < 0.25 degrees
- » Setup Time: < 2 hours

APPLICATIONS

- » Force Protection
- » Early Warning
- » Weapon Cueing
- » UAV Sense and Avoid
- » Counter-UAV
- » Border Air Surveillance
- » Local Airspace Management
- » Critical Infrastructure Protection

Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.