



TRANSPORTABLE RADARS BUILT FOR DYNAMIC SPACE AND MISSILE DEFENSE MISSIONS

- ▶ LeoLabs Scout enables persistent sensing across a range of missions. Its transportable, modular design supports rapid deployment at scale, allowing systems to be fielded, repositioned, and reconstituted wherever the mission demands.

SCOUT-S

▶ OPTIMIZED FOR SPACE DOMAIN AWARENESS (SDA)



Scout-S enables operators to find, fix, and track cued and uncued objects in Low Earth Orbit (LEO) and very Low Earth Orbit (VLEO) to maintain persistent custody of orbital threats. The zenith-facing design provides broad orbital coverage, and its search-to-track and track-while-scan modes enable dynamic detection and tracking.

SCOUT-X

▶ OPTIMIZED FOR MISSILE DEFENSE FROM TERRESTRIAL LOCATIONS



Scout-X enables early warning and tracking of missiles and hypersonic weapons. Its advanced algorithms and canted array allow for early detection of threats emerging from the horizon. Operators can easily integrate Scout-X into tipping-and-cueing networks to transmit and receive tipping and cueing information.

SCOUT-M

▶ OPTIMIZED FOR MISSILE DEFENSE FROM MARITIME LOCATIONS



Scout-M leverages additional features, such as motion-compensated tracking, to extend Scout-X's capabilities to the maritime domain. While it supports the same mission sets as Scout-X, Scout-M offers a unique advantage by enabling tracking at sea to ensure persistent coverage.

MISSION READY CAPABILITIES



Advanced Sensing Design

Features 3D pulse-Doppler planar direct radiating array (DRA) technology, operating in S-band



Rapid Deployment

Standard 20-foot ISO container enables fast transport and fielding across land and maritime environments



Mobility for Expanded Coverage

Extends coverage to regions where fixed-site sensing is limited (e.g., at lower altitudes and in dynamic theaters), and includes 50–1000 km slant range



Multi-Mission Flexibility

Operators can configure Scout variants to support a range of missions as a single unit or in sparse networks



Operational Integration

Interoperable with LeoLabs Global Radar Network, the U.S. Unified Data Library, and other sovereign command-and-control and data-link architectures

THE LEOLABS ADVANTAGE

Our radar systems represent a decade of in-house engineering development leveraging proprietary designs, technology, and unmatched technical expertise. They feature world-class digital signal processing software with a field-deployed, in-house developed software-defined radio back end. We also leverage artificial intelligence (AI) to optimize radar scheduling and continuously upgrade our radar hardware and software components to meet customer requirements and evolving mission needs. These systems operate 24/7 in all-weather conditions for up to 20 years.



DEPLOY WHERE THE MISSION DEMANDS.

