

SODERN UNVEILS AUTONOMOUS NAVIGATION SOLUTION FOR NAVAL PLATFORMS

- Sodern introduces a new navigation solution designed specifically for naval platforms.
- Built around Astradia™, a star tracker that operates around the clock, this solution delivers robust, spoof-resistant navigation.
- Visitors to Euronaval can explore the technology firsthand through a demonstration at the ArianeGroup-Sodern booth (H87).

Paris, October 28, 2026 — Sodern, a defense and space equipment manufacturer, announces a new navigation solution designed specifically for naval platforms. The solution helps naval forces maintain operational resilience in complex environments where GNSS signals are vulnerable to interference. It draws on the proven technology of its Astradia™ daytime star tracker and enables accurate, autonomous, and spoof-resistant navigation around the clock.

Sodern will showcase the system's capabilities through a digital demonstration at the ArianeGroup-Sodern booth. Visitors will be able to explore the technology and test its effectiveness in realistic civilian and military scenarios.

Maintaining navigation capabilities

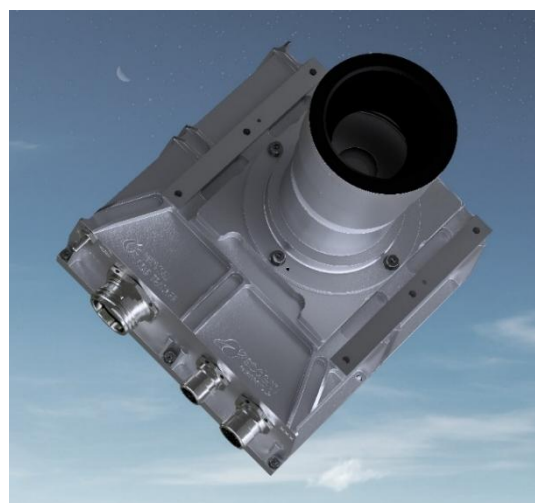
With technological sovereignty and infrastructure resilience now major priorities, protecting navigation capabilities against threats to satellite-based systems is more important than ever. Sodern offers a reliable, secure alternative to GNSS-based navigation systems. Unlike satellite-based geolocation systems, this standalone solution developed from Astradia™ does not rely on external signals. This makes it highly reliable and resistant to jamming and spoofing attempts.

"In high-risk environments, where ships often have to limit their time on station, this solution makes their navigation systems more resilient and improves their operational capabilities," said Sandra Feilles, Head of Innovation and Programs.

The system also emits no signals, allowing vessels to operate discreetly in sensitive areas, unlike radar- and sonar-based positioning systems.

A demonstrator available in Summer 2027

Starting in summer 2027, Sodern will make a demonstrator available to shipowners and shipbuilders for operational trials on their vessels. The solution also provides an added measure of security for shipowners and their insurers in an increasingly contested maritime environment.



"This new application reflects Sodern's long-standing commitment to helping armed forces adopt cutting-edge technologies to meet the demands of increasingly complex and challenging missions," added Sandra Feilles, Head of Innovation and Programs.

Technical performance tailored to maritime navigation

- Star tracker pointing accuracy: X/Y: 3 arcsec (1σ), Z: 30 arcsec (1σ).
- Positioning accuracy: A few hundred meters (1σ).
- Availability: Around the clock, anywhere on Earth.
- Operating environment: Suitable for marine environments.
- Interface: 220 V power supply, Ethernet communication.

About Astradia™: proven technology and unique expertise

Astradia™ combines Sodern's expertise with cutting-edge technology. It draws on the flight heritage of several thousand star trackers already operating in space, as well as a proven star catalog and detection algorithms.

The Astradia™ star tracker can detect stars in daylight by filtering out light scattered by the atmosphere. When combined with an inertial navigation system (INS), Astradia™ provides positioning accuracy to within a few hundred meters, counteracting the natural drift of inertial navigation systems. Its built-in star catalog covers the entire sky, ensuring continuous availability without the need for maps or updates.

ABOUT SODERN:

Sodern is an equipment manufacturer that combines commitment with expertise. Its French and international customers work in the fields of defense, space and raw materials mining.

Drawing on more than 60 years of innovation, Sodern designs and builds reliable, competitive and high value-added solutions to help its customers meet today's local and global challenges. Sodern provides optronics equipment (star trackers, cameras, etc.) for satellites and spacecraft and for all types of missions: telecommunications, observation, scientific programs, etc., as well as being active in the fields of national sovereignty and security. Sodern is also a pioneer in neutron analysis instruments, used by the mining industry to explore and analyze sub-soils.

Sodern is a subsidiary of the European leader in access to space, ArianeGroup, and employs 450+ highly qualified people. Its 2025 turnover exceeds €83M. Sodern is located in Limeil-Brevannes (94), in France.