

## Safran Federal Systems Unveils Blacknaute™, A Next-Generation Inertial Navigation System for GPS-Denied Environments, at AUSA 2025

Washington, D.C., October 14, 2025

Safran Federal Systems today announced the U.S. launch of the Blacknaute™ Inertial Navigation System, a next-generation solution engineered to deliver precision navigation in GPS-denied and Electronic Warfare-contested environments, at the 2025 Association of the United States Army (AUSA) Annual Meeting & Exposition.



Purpose-built for the U.S. DoD community, Blacknaute™ is powered by Safran's patented HRG Dual Core™ technology, which is field-proven and trusted across mission-critical applications worldwide. The system is designed to support current platforms and other emerging DoD platforms requiring resilient positioning, navigation, and timing (PNT).

"Blacknaute™ represents a leap forward in GPS-denied inertial navigation," said **Jon Leombrone**, Executive Vice President of Navigation Systems at Safran Federal Systems. "With high performance capabilities, modular architecture, and an open-systems design, Blacknaute™ is built to meet the evolving demands of next-generation defense platforms."

### Key Features:

- **Precision Inertial Performance:** Achieves better than 0.4 nmi/hour drift, enabling sustained accuracy in GPS-contested or denied environments.
- **HRG Dual Core™ Technology:** Patented hemispherical resonator gyro platform with decades of proven military and space-grade performance.
- **M-Code Ready GNSS Receiver:** Integrated multi-constellation receiver with M-Code support for secure military satellite navigation.
- **Ultra-Stable Atomic Clock:** Delivers precise timing with drift of less than 1 second per 30,000 years, enhancing system integrity and synchronization.
- **EW-Resilient with IDM Technology:** Proprietary Interference Detection and Mitigation (IDM) supports jamming/spoofing resistance and threat awareness.
- **SWaP-Optimized for Tactical Platforms:** Lightweight (<16 lbs.), modular, and ruggedized for fixed-wing, rotary, and autonomous systems.
- **Standards-Based Integration:** MIL-STD interfaces and TSO-C220 compliance; fully aligned with open mission systems architecture.

### Trusted by the Defense Community

Safran Federal Systems delivers advanced navigation and PNT solutions as part of Safran Defense and Space, Inc.'s expanding portfolio supporting U.S. defense and government operations. The Blacknaute™ system enhances DSI's suite of classified PNT, geospatial intelligence, and space capabilities. Backed by over 50 years of expertise across air, land, sea, and space, Safran brings proven inertial navigation technologies to meet the demands of tomorrow's operational environments.

**Visit Us at AUSA 2025**

Safran Federal Systems will showcase Blacknaute™ at the **Association of the United States Army (AUSA) Annual Meeting & Exposition**, Booth 3425, co-located with **Safran DSI**.

Attendees are invited to explore interactive product demos and speak directly with engineers and solution architects.

For more details, visit: [safranfederalsystems.com/blacknaute](https://safranfederalsystems.com/blacknaute)

***Safran Federal Systems** is a trusted DoD mission partner and industry leader in Assured Positioning, Navigation and Timing (A-PNT), providing cross-cutting and cost-effective solutions bred through innovation. Our expertise in simulation, NAVWAR, and open systems architecture enables rapid delivery of emerging technologies to the warfighter across all domains, from the lab to the field.*

***Safran Defense & Space, Inc.** is a leading provider of cutting-edge solutions designed to address the evolving challenges of U.S. national defense and advanced space missions across air, land, sea and space domains. Safran DSI is a U.S. subsidiary of Safran, an international high-technology group, operating in the aviation (propulsion, equipment and interiors), defense and space markets. Safran has a global presence, with 100,000 employees and sales of \$28.8 billion in 2024, and holds, alone or in partnership, world or regional leadership positions in its core markets.*

**For more information:**

[www.safranfederalsystems.com](https://www.safranfederalsystems.com)

**Press Contacts:**

Rachael Smith: [rachael.smith@safranFS.com](mailto:rachael.smith@safranFS.com) / +1 (585) 747-6131

Charles Jones: [charles.jones@safran-dsi.com](mailto:charles.jones@safran-dsi.com) / +1 (603) 289-3743

 [SafranFedSys](#)

 [Safran Federal Systems](#)

 [Safran Federal Systems](#)

 [safranfederalsystems](#)