



ODYSSEY ADVANCED AUTONOMY SOLUTIONS®

Advanced, intelligent autonomy solutions for platforms in any domain

HII's Odyssey suite transforms any vehicle into an intelligent robotic platform. Delivered from a variety of vehicle, module and algorithm-level implementations across platforms, sensors, payloads and missions, Odyssey enables multi-vehicle collaborative autonomy, sensor fusion and advanced perception.

Mission Application

Odyssey can integrate on USVs, UUVs, UGVs, UAVs or any manned platform in any domain to increase autonomy and enhance distributed operations.



Odyssey is currently integrated on naval prototypes under development and has been fielded for more than 6,000 hours on 23 vessel types.

Advantages

- **Adaptability:** Scalable from human-assisted operations to full AI-enabled independence.
- **Intelligent Transformation:** Converts platforms into intelligent robotic systems capable of advanced autonomy and multi-vehicle collaboration.
- **Seamless Integration:** Supports smooth operation on both crewed and uncrewed platforms with intuitive mission planning interfaces.
- **Field-Proven Reliability:** Backed by more than 20 years of development and rigorous testing for robust, trusted performance.

Features

- Full sensor, navigation, propulsion, vehicle control and payload management.
- Operates in limited or no bandwidth multi-domain environments.
- Intuitive user interface for mission planning and monitoring.
- Enhanced situational awareness and health monitoring options.
- Robust, reliable COLREGS compliant navigation.
- Wide-ranging library of single and multi-agent mission behaviors for complex mission scenario creation.
- Data management for secure storage and real-time or post-mission analysis.
- Open architecture, modular design compatible with customer or third-party sensors, payloads, algorithms and interfaces.
- Adheres to open architecture standards, including Unmanned Maritime Autonomy Architecture (UMAA), Robot Operating System (ROS), and Data Distribution Service (DDS).



HII is a global, all-domain defense provider. HII's mission is to deliver the world's most powerful ships and all-domain solutions in service of the nation, creating the advantage for our customers to protect peace and freedom around the world. As the nation's largest military shipbuilder, and with a more than 135-year history of advancing U.S. national security, HII delivers critical capabilities extending from ships to unmanned systems, cyber, ISR, AI/ML and synthetic training. Headquartered in Virginia, HII's workforce is 44,000 strong. For more information, visit: hii.com.



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