



# ODYSSEY ADVANCED AUTONOMY SOLUTIONS®

## Advanced, Intelligent Autonomy Solutions For Platforms In Multiple Domains

HII's Odyssey Advanced Autonomy Solutions® transform 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 Advanced Autonomy Solutions® enable multi-vehicle collaborative autonomy, sensor fusion and advanced perception.

The solution is built on a robust, International Regulations for Preventing Collisions at Sea (COLREGS)-compliant autonomous navigation system and a modular, software-defined architecture that allows for rapid adoption to any platform or mission set and easily integrates third-party payloads, sensors and autonomy suites.

### Mission Application

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



**Odyssey Advanced Autonomy Solutions® is currently integrated on REMUS and ROMULUS platforms in 30 countries.**

### 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 manned and unmanned 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).



#### About HII

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](http://HII.com).

#### Contact:

**24-Hour Technical Support:** +1 508-685-9127  
[uxs.techsupport@hii.com](mailto:uxs.techsupport@hii.com)

**Customer/Sales Support:** +1 508-563-6565  
[uxs.customerservice@hii.com](mailto:uxs.customerservice@hii.com)