



Poseidon's Forge Launches DarkWake™ AUV

An Adaptable, AI-Driven Platform Enabling Scalable Autonomous Operations

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Poseidon's Forge today announced the official launch of the **DarkWake™ Autonomous Underwater Vehicle (AUV)** at Oceanology International (March 10–12) in their booth A203. Designed for adaptable autonomy and operational agility at scale, [DarkWake™](#) introduces a flexible, mission-configurable platform engineered to evolve alongside defense, commercial, and scientific objectives.

DarkWake™ reshapes the AUV landscape by combining modular hardware, integrated AI-driven autonomy, and multi-vehicle connectivity into a unified ecosystem built for fleet-scale deployment.

Advanced Autonomy. Operational Agility at Scale.

At its core, DarkWake™ features a mission-configurable architecture with rapid-swap payloads and upgradeable subsystems. Operators can tailor vehicles to specific mission requirements while preserving future upgrade paths, reducing obsolescence and lifecycle cost.



KEY CAPABILITIES INCLUDE:

Mission-Configurable Architecture

Rapid-swap payload integration and adaptable subsystems support evolving defense, commercial, and scientific missions.

Multi-Vehicle Mesh Networking

Seamless acoustic, RF, cellular, and satellite connectivity enables collaborative operations across distributed autonomous fleets.

Reduced Lifecycle Cost and Complexity

Plug-and-play upgrades, simplified logistics, and scalable fleet management minimize operational overhead.

Powered by the Forge Software Ecosystem

DarkWake™ is built on Poseidon's Forge's integrated autonomy framework:

- **Forge Helios**– Advanced autonomy, mission optimization, and vehicle control
- **Forge Orion** – Objective-based mission planning and command-and-control software
- **Forge M4P** – Communications middleware layer enabling resilient multi-vehicle mesh networking
- **Forge Base Cloud** – Centralized mission data hub and analytics platform
- **Additional Tools** – DarkWake™ Optimizer and Intelligent Universal API

Together, these systems deliver a seamless connection between mission design, deployment, communications, and data exploitation across individual vehicles or fleets.

Designed for the Future of Undersea Operations

Engineered with a flooded architecture to reduce mechanical complexity, DarkWake™ supports streamlined maintenance and enhanced scalability. The platform is the first AUV to offer the option of an integrated solid-state battery technology outside a pressure tolerant housing, delivering improved safety using a solid electrolyte and higher energy density while contributing to overall system simplification and performance

“DarkWake™ represents a new approach to autonomous undersea systems, one that prioritizes adaptability and scalability,” said Daryl Slocum, Poseidon's Forge Founder & CEO. “We designed DarkWake™ to reduce complexity while giving operators the flexibility to meet evolving mission demands.”

Visitors to Oceanology International are invited to see DarkWake™ on display in booth A203 and meet the Poseidon's Forge team to explore how the platform is enabling advanced autonomous undersea operations.



About Poseidon's Forge

Poseidon's Forge is a U.S.-based developer delivering build-to-suit AUVs that adapt as missions evolve. Powered by AI-driven optimization and backed by over a century of combined expertise, the company enables flexible, high-performance solutions for commercial, scientific and defense use.

www.poseidonsforge.com

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