



WAM-V 22

Wave Adaptive Modular Vessel



WAM-V®: The Future of Unmanned Naval Defense

The Versatile USV Utility Platform for Advanced Naval Operations

1. Utility Platform of Choice

Articulating pontoons for Unmatched Stability - The WAM-V's articulating pontoons are ingeniously designed to ride the waves, ensuring stability that's unparalleled in the USV category. This feature allows the WAM-V to provide ultra stability to its payloads, navigating through rough waters with ease.

Open Frame Architecture: The Enabler of Versatility - With its open frame architecture, the WAM-V facilitates simple and rapid integration of various payloads. This versatility has positioned the WAM-V as a preferred platform for tailored maritime operations, embodying efficiency and adaptability in one package.

Scalability - USV platform is available in standard sizes of 8ft, 16ft, and 22ft depending on the operation. Larger and bespoke systems are available upon request.



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2. Features

Payload Options

- > Single Beam Echosounder
- > Multibeam Echosounder
- > Sub-bottom Profiler
- > Side-scan
- > Magnetometer
- > LiDAR
- > HD Thermal Camera
- > Profiling SVP
- > Smart Profiling SVP
- > Unmanned Aerial Vehicle
- > UXO
- > Radar
- > AIS

Communications

- > Radio
- > WiFi
- > 5G
- > SatCOM
- > Starlink



3. Specialized Operational Capabilities

Mine Countermeasures (MCM) - Featuring a complete Detect to Engage offering, the WAM-V is equipped with full sonar capabilities and AI for effective detection. It supports the deployment of AUVs, such as the MK18, extending operational ranges, and remote ROVs, like the VideoRay Defender, ensuring safety and precision in mine countermeasure operations.

Hydrography & Infrastructure - The WAM-V shines in hydrography and infrastructure tasks, utilizing its stable platform for detailed data collection and analysis. Its capabilities are rooted in advanced specifications designed for accurate and efficient maritime surveys.

ISR & Maritime Domain Awareness - Elevating maritime domain awareness, the WAM-V provides surveillance capabilities, extending its reach over the horizon and below the waterline. It can act as an expeditionary communication node in contested environments, enhancing the strategic oversight of maritime domains.



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Systems of Systems - Proven as a mothership, the WAM-V can deploy and recover a variety of unmanned assets, including gliders, AUVs, ROVs, and UAS. Its ability to operate over the horizon by wire extends its utility, safeguarding warfighters by removing them from direct engagement zones.

Interceptor - Capable of burst speeds up to 25 knots, the WAM-V can swiftly interrogate, deter, or intercept threats. Its operation in teams or swarms enhances predictable response behavior, demonstrating its strategic value in maritime security operations.



4. Strategic Advantages of WAM-V® Integration

Enhanced Situational Awareness - The WAM-V® significantly amplifies operational intelligence by facilitating simultaneous multi-domain monitoring—above, on, and below the sea surface—through integrated UAV and ROV support, ensuring a full spectrum of situational awareness.

Modular and Agile Configuration - Equipped with state-of-the-art quick-connect systems, the WAM-V® allows for rapid configuration changes to adapt to diverse mission requirements, showcasing unmatched flexibility and readiness.

Precision Maneuverability for Optimal Deployment - The WAM-V®'s design enables precise positioning and maneuverability, critical for the effective deployment and recovery of both UAVs for aerial surveillance and ROVs for sub-surface exploration.

Scalable to Mission Scope - Adaptable for a wide array of operational contexts, from littoral reconnaissance to open ocean surveillance, the WAM-V®'s scalable design ensures it meets the specific demands of any mission, enhancing force capability across all maritime domains.

Comprehensive Domain Coverage - By integrating UAVs for aerial reconnaissance and ROVs for underwater inspection or research, the WAM-V® extends the operational reach of maritime forces, providing a 360-degree view of the operational theatre, thus enabling superior decision-making and strategic advantage.



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5. Specifications

Length	25ft (7.6m)
Beam	12ft (3.66m)
Draft	22in (0.56m)
Top Speed	20 kts
Propulsion	Gasoline
Payload Capacity	600 lbs. (270kg)



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