

ASW SONOBUOY ARIEL

Innovative & Cost-Effective
Unmanned Surface Vehicle



ASW SONOBUOY ARIEL

Innovative & Cost-Effective Class-A Sonobuoy Launcher from USV

The Sonobuoy Launcher Ariel combines two lightweight Ariels into a pontoon platform that can deploy sonobuoys. This platform is affordable in design, has a small footprint, and has rapid manufacturing capabilities within the USA. The Sonobuoy Ariel supports Anti-Submarine Warfare (ASW) missions via deploying a single and re-loadable Class-A sonobuoy in critical choke point areas. The Ariel platform is extremely versatile with its interoperability and reconfigurability allowing for seamless integration with both new and existing radio, communications, and control options. Additionally, it offers the capability to operate discretely without emitting radio signals, ensuring flexibility and stealth across diverse operations.



Specs:

- Width: 28 in
- Length: 49 in
- Height: 13 in
- Doodle Labs Radio (1 watt)
- Compatible with MPU5 Military Radios
- Compatible with ATAK Software
- Weight: 45 lbs Empty, 77 lbs w/ Payload
- 20 Mile Range at slow Speeds: Maximizes operational coverage for thorough exploration.
- 16 MPH Maximum Speed: Enables swift movement and efficient area coverage.
- 12 Hour Loiter Time: Offers extended operational capability without the need for immediate retrieval.
- Seamless Manual and Autopilot Control Switching: Enhances usability and operational flexibility.
- Autopilot pre-programming or manual remote controlled launching functionality.
- Aerospace Composite Launcher for Single Class-A Sonobuoy Deployment.
- Interoperability: Features adaptable radio, communications, and control options for easy integration with existing systems.
- Reconfigurability: Provides the flexibility to switch between self-righting mode and catamaran stability mode, among other configurations, adapting to various operational needs.

Items have been developed in part under the assistance of multiple U.S. Federal SBIR/STTR contracts listed below:

N6833514G0039 Open BOA

N6833515C0138

N6833513C0281

DOCRA1333R14SE2877

DOCRA133R11CN0188

N0001410MO458

N0001411MO119

HR001112C0073

NSF-1722355-A

N6833518F0001

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942,

Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8,

Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439



HYDRONALIX

Hydronalix, Inc.

520.203.8351

www.hydronalix.com