

ARIEL

Innovative & Cost-Effective
Unmanned Surface Vehicle



HYDRONALIX

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The Ariel is an innovative and cost-effective Unmanned Surface Vehicle (USV). Ariel combines a lightweight, affordable design and a small footprint with rapid manufacturing capabilities within the USA. Its versatility shines as it serves multiple roles: from a swarming USV to a payload delivery vehicle, a sensor platform, or even a training asset Ariel's standout feature is 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 discreetly without emitting radio signals, ensuring flexibility and stealth across diverse operations.

Specs:

- Width: 14 in
- Length: 49 in
- Height: 7 in
- Weight: 14 lbs
- 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.
- 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



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