

SONAR ARIEL

Innovative & Cost-Effective
Unmanned Surface Vehicle



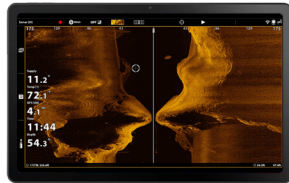
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Innovative & Cost-Effective Unmanned Surface Vehicle

The SONAR Ariel is an affordably priced and cutting-edge Unmanned Surface Vehicle (USV) designed to enhance access and insights into underwater reconnaissance and information gathering. It stands out for its ability to provide high-quality underwater imagery. Featuring live sonar feed streaming and the capability to record mission data, it serves as a comprehensive tool for in-depth analysis after maritime operations.

Specs:

- Width: 14 in
- Length: 49 in
- Height: 14 in
- Weight: 22 lbs
- APEX series high-resolution Side Imaging and Down Imaging, controlled via phone or tablet through smart app.
- AutoChart Live with depth, vegetation and bottom hardness mapping.
- Humminbird Basemap Cartography (built-in)
- MEGA Side Imaging, MEGA Down Imaging, CHIRP Digital Sonar, DualBeam Plus CHIRP (Compressed High Intensity Radar Pulse)
- Side and Down Imaging Frequencies 455 kHz (420 - 520 kHz), 800 kHz (790 - 850 kHz) MEGA 1.2 MHz (1.125 - 1.300 MHz)
- 2D Frequencies 175 and 225 kHz
- Sonar maximum depth 3450 ft
- GPS and chart/map to assist day and night navigation.
- 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



HYDRONALIX

Hydronalix, Inc.
520.203.8351

www.hydronalix.com