The Phantom® H-1750 USV is a powerful, 1.75m, remotely controlled, battery-powered, catamaran-style unmanned surface vehicle designed and manufactured by Deep Ocean Engineering to conduct measurements of currents, bathymetry, discharge and surveys in a variety of environments.

The advanced technology of the Phantom® H-1750 USV can be equipped with GPS, depth sounder, sonar and a variety of sensors, and is hand-built with a rugged, lightweight hull constructed of aluminum.

The standard Phantom® H-1750 USV utilizes two DC outdrives and is capable of achieving speeds up to 5m/s (11mph), and it has a range of up to 2km distance. The electronics compartment is spacious and accessible, and the vessel is portable and easily deployable.

The Phantom® H-1750 USV includes a one-year manufacturer’s warranty.

APPLICATIONS OF THE PHANTOM® H-1750 USV

The Phantom® H-1750 USV is designed for use in numerous applications on the surface of waterways, including water quality, bathymetry, discharge, port security, river and shallow water surveys. It can be integrated with third party sampling options for data acquisition.

THE DEEP OCEAN ENGINEERING ADVANTAGE

Deep Ocean Engineering, Inc. is a USA based manufacturer of powerful, expandable, rugged underwater and surface drone vehicles, headquartered in the technology capital of the world, Silicon Valley, California. Its legendary Phantom ® lines of ROVs and USVs, many of which have been in use around the world for decades, are integrated with the latest digital technology and the highest quality components available in the market today, including thrusters, cables, sonar, cameras, lighting, navigation software and power.
<table>
<thead>
<tr>
<th>VEHICLE SPECIFICATIONS*</th>
<th>ELECTRICAL SPECIFICATIONS*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>1750mm (5.74ft)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>1000mm (3.28ft)</td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>Non-Corroding Aluminum Alloy Stainless Steel Hardware Foam filled - Unsinkable</td>
</tr>
<tr>
<td><strong>Payload</strong></td>
<td>60kg (130 lbs)</td>
</tr>
<tr>
<td><strong>Top Speed</strong></td>
<td>5m/s (11mph)</td>
</tr>
<tr>
<td><strong>Survey Speed</strong></td>
<td>2m/s (4.5mph)</td>
</tr>
<tr>
<td><strong>Range (in proper conditions)</strong></td>
<td>Up to 2km (1.24mi.)</td>
</tr>
<tr>
<td><strong>Battery Life @ Top Speed</strong></td>
<td>1 hr</td>
</tr>
<tr>
<td><strong>Battery Life @ Survey Speed</strong></td>
<td>4 hrs</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>Omni-directional</td>
</tr>
<tr>
<td><strong>Radio Frequency</strong></td>
<td>2.4 GHz</td>
</tr>
<tr>
<td><strong>Remote Control Command &amp; Data Link</strong></td>
<td>WiFi in 2km range</td>
</tr>
<tr>
<td><strong>Instrument Power</strong></td>
<td>NiMH</td>
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<td>Real time HD Video Fwd Looking Camera</td>
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<td>On-board data logging</td>
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<td>Real time Telemetry</td>
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<td>Online line following QC and Control</td>
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<td>On-site quick assembly and disassembly by one person</td>
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<td>LED Flashing Beacon</td>
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<td>Scientific Research</td>
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<tr>
<td>Rigil LIDAR Integration</td>
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<td>ADCP Integration</td>
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<tr>
<td>Sub-bottom Profiler Integration</td>
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<tr>
<td>Multibeam Echosounder integrated with motion sensor and dual GPS heading</td>
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<tr>
<td>Automated Multibeam sonar deployment with RC control</td>
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<tr>
<td>Automated SVP Cast with remote controlled winch</td>
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<tr>
<td>Scaled up Models</td>
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* Specifications subject to change