

## PHANTOM® H-1750 USV

## POWERFUL • EXPANDABLE • RUGGED

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.

## VEHICLE SPECIFICATIONS\*

Length	1750mm (5.74ft)
Width	1000mm (3.28ft)
Chassis	Non-Corroding Aluminum Alloy Stainless Steel Hardware Foam filled - Unsinkable
Payload	60kg (130 lbs)
Top Speed	5m/s (11mph)
Survey Speed	2m/s (4.5mph)

## STANDARD FEATURES

Real time HD Video Fwd Looking Camera
On-board data logging
Real time Telemetry
Online line following QC and Control
On-site quick assembly and disassembly by one person
LED Flashing Beacon

## APPLICATIONS

Port Security
Harbor Inspections
Lake and River Surveys
Bathymetry
Scientific Research
Water Quality Surveys
Discharge

## ELECTRICAL SPECIFICATIONS\*

Range (in proper conditions)	Up to 2km (1.24mi.)
Battery Life @ Top Speed	1 hr
Battery Life @ Survey Speed	4 hrs
Antenna	Omni-directional
Radio Frequency	2.4 GHz
Remote Control Command & Data Link	WiFi in 2km range
Instrument Power	NiMH

## INTEGRATION OPTIONS

Side Scan Sonar Integration
Rigid LIDAR Integration
ADCP Integration
Sub-bottom Profiler Integration
Multibeam Echosounder integrated with motion sensor and dual GPS heading
Automated Multibeam sonar deployment with RC control
Automated SVP Cast with remote controlled winch
Scaled up Models

\* Specifications subject to change