

## PHANTOM® S-SERIES

## POWERFUL • EXPANDABLE • RUGGED

The Phantom® S6 is a portable high performance ROV that combines superior power, telemetry, and payload with ease of use, ruggedness and reliability. It delivers a powerful overall performance envelope and versatility compared to other vehicles of its class.

The advanced technology of the Phantom® S6 ROV platform offers powerful maneuverability and lift, incorporates an open architecture to integrate a wide variety of sensors, and is hand-built on a rugged, resilient, non-corroding polypropylene chassis that can accommodate heavier payloads.

The Phantom® S6 is designed with six magnetically-coupled brushless Tecnadyne thrusters, which provide significant control and propulsion in current as well as aggressive lift capabilities at depths up to 1,000m.

The standard Phantom® S6 includes an HD camera, LED lighting, auto heading, auto depth, console control and power unit, and a fiber umbilical. Options include upgraded umbilicals, cameras, lights, multi-beam and scanning sonars, manipulators, GPS, INS, DVL, and navigational software.

The Phantom® S-Series includes a one-year manufacturer's warranty.



## APPLICATIONS OF THE PHANTOM® S6 ROV

The Phantom® S6 is an inspection-class underwater remotely operated vehicle, designed for use in numerous applications across a spectrum of industries, including dam and hydroelectric plant inspections, search and recovery, offshore oil and gas, scientific research, underwater filming, and military and law enforcement. (for details, please visit our website at [www.deeptune.com](http://www.deeptune.com)).

## 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.

PHANTOM® S6	
Length	1360mm (50.0in)
Width	860mm (31.5in)
Height	740mm (30.0in)
Depth Rating	1000m
Chassis	Black Polypropylene Frame, non-conductive / non-corroding
Options	Hydraulic / electric manipulator packages Vehicle skid for additional tooling

THRUSTERS/PERFORMANCE*	
Weight	158.8 kg (350 lbs)
Speed	3.5 kts
Power	17 KVA
Configuration	4 vectored horizontal, 2 vertical
Thrusters	Magnetically-coupled brushless Tecnydyne thrusters
Thrust	Forward: 134.7 kgf (297 lbs) Lateral: 134.7 kgf (297 lbs) Vertical: 89.4 kgf (197 lbs)

CAMERA	
Resolution	1920x1080 Sony HD camera (rear/auxiliary camera optional)
Zoom	30x optical zoom; 12x digital zoom with image stabilization Horizontal field of view: 65°
Illumination	Lux: 0.1
Camera Tilt	Front mounted on mechanical tilt unit (+/-90°), tilts with lights
Effects	White balance and advanced image adjustments

UMBILICAL	
Length	1000m standard (upgradeable)
Fiber	0.5" diameter 115 lbs / 1,000 ft 2 single-mode fibers Neutrally buoyant in freshwa- ter, slightly buoyant in saltwater Breaking strength: 2,100 lbs Minimum bend radius: 4.5"

LIGHTING	
Lights	2 LED
Lumens	30,000 Lumens on fully dimmable circuits
Depth Rating	1000m

NAVIGATION	
Precision tilt compensated three axis digital magnetometer 0.05° RMS repeatability, 20Hz update rate	
Yaw rate gyro for rock solid auto heading and vehicle stabilization pilot assist	
Optional: Autonomous Systems, Inertial Navigation System (INS), Doppler Velocity Log (DVL), GPS, Acoustic USBL Tracking, Multibeam Sonar, and many others	

*\*Values based on full power data, specifications subject to change 08152019*