

PHANTOM® X-SERIES

POWERFUL • EXPANDABLE • RUGGED

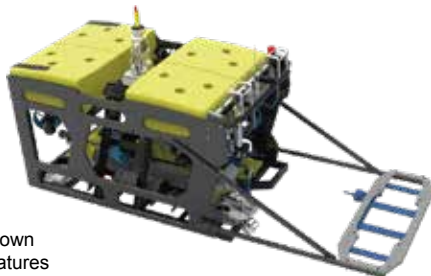
The Phantom® X8 is the next generation of proven, reliable underwater robotics pioneered by Deep Ocean Engineering in its manufacture of remotely operated vehicles (ROV), built in the USA for nearly four decades.

The advanced technology of the Phantom® X-Series ROV platform provides powerful maneuverability, incorporates an open architecture, integrates with a wide variety of sensors and is hand-built on a rugged, resilient, non-corroding polypropylene chassis that can accommodate heavier payloads.

The design of its six vectored horizontal and two vertical Tecnadyne thrusters provides significant control and propulsion in current, with abundant propulsive force to maneuver aggressively in all directions.

The standard Phantom® X8 includes high-performance, magnetically coupled thrusters, HD camera, LED lighting, control console and power unit, and a 900m fiber umbilical. Options available include upgraded umbilicals, cameras, lights, sonars, manipulators, control van, LARS, GPS, INS, DVL and navigational software.

The Phantom® X8 includes a one-year manufacturer's warranty.



*Phantom X8 shown with standard features



APPLICATIONS OF THE PHANTOM® X8 ROV

The Phantom® X8 is a light working-class underwater remotely operated vehicle, designed for use in numerous applications across a spectrum of industries, including military/homeland security, law enforcement, science, municipalities, oil and gas, surveying and alternative energy (for details, please visit our website at www.deepocean.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® X8	
Depth rating	850 m working depth
Length	2451 mm (96.5 in)
Width	1420 mm (55.9 in)
Height	1448 mm (57 in)
Weight in air	1200 kg (2646 lbs)

CAMERA/LIGHTING	
Camera	High definition camera standard with rear fixed camera Resolution: 1080p Lens: 30x Light: 0.05 Lux @ F1.6 Capable of white balance and advanced image adjustments
Camera Tilt	Front mounted on mechanical pan/tilt unit (+/-90°)
Lighting	3 Front facing LED lights (30,000 lumens) Adjustable brightness controlled by the pilot box or GUI software Voltage: 24 VDC

POWER	
Universal input	90-250 VAC, Single phase
Input voltage	380 VAC/3 PH/50-60 Hz/90 KVA
Output voltage	3000 VAC/3 PH/400 Hz

OPEN ARCHITECTURE	
Integration	Open architecture allows integration of wide variety of sensors

THRUSTERS/PERFORMANCE	
Configuration	6 vectored horizontal, 2 vertical
Thrust*	Forward thrust- 588kgf (1296 lb) Vertical thrust - 198kgf (437 lb)
Thrusters	Magnetically-coupled brushless

UMBILICAL	
Umbilical	900m standard length (upgradeable upon request)
Fiber (Standard)	1.02" (26 mm) diameter 400 kg /1,000 ft. Neutral in freshwater; slightly buoyant in saltwater Breaking strength: 2,000 kg Minimum bend radius: 9"

STANDARD	
Flotation	Neutrally buoyant in water - configurable flotation and ballast weights
Auto Functions	Altitude, depth, positioning
Heading Resolution	< +/-0.05° RMS
Depth Accuracy	+/-0.25% FSS
Navigation	Graphic User Interface (GUI) Laptop optional Dual joysticks, 3 axis control to stabilize ROV body Max depth 850 m (upgradeable upon request) Compass and gyroscope (fiber optic gyro optional)

*Values based on full power data
20190703 - Specifications subject to change