

PHANTOM® T SERIES

POWERFUL • EXPANDABLE • RUGGED

The Phantom®T5 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® T 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 four vectored horizontal and one vertical Tecnadyne® thrusters provides significant control and propulsion in current, with abundant propulsive force to maneuver aggressively in all directions.

The standard Phantom®T5 includes high-performance, magnetically coupled thrusters, HD camera, LED lighting, control console and power unit, and a 300m copper umbilical. Options available include upgraded umbilicals, cameras, lights, sonars, manipulators, GPS, INS, DVL and navigational software.

The Phantom®T5 includes a one-year manufacturer's warranty.



APPLICATIONS OF THE PHANTOM® T5 ROV

The Phantom® T5 is an inspection-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 cinematography (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® T SERIES

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|---------------|----------------------------------|
| Depth rating | 300 m (1000 ft.); 500 m optional |
| Length | 889 mm (35 in) |
| Width | 559 mm (22 in) |
| Height | 406 mm (16 in) |
| Weight in air | 39.5 kg (87 lbs.) |

THRUSTERS/PERFORMANCE

| | |
|------------------|---|
| Configuration | 4 vectored horizontal, 1 vertical |
| Thrust* | Forward thrust- 63.0kgf (139 lb) Lateral thrust- 14.0kgf (30 lb) Vertical thrust - 17.0kgf (37 lb) |
| Speed at Surface | 4.0 knots |
| Thrusters | Magnetically-coupled brushless |

CAMERA/LIGHTING

| | |
|-------------|--|
| Camera | Sony HD camera standard (1920x1080) Rear/auxiliary camera optional 30x optical zoom; 12x digital zoom with image stabilization Horizontal field of view: 65° Lux: 1.4 Capable of white balance and advanced image adjustments |
| Camera Tilt | Front mounted on mechanical tilt unit (+/-90°) |
| Lighting | Front facing LED lights (6000 lumens standard; 18,000 optional) |

UMBILICAL

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|-------------------|--|
| Umbilical | 300m standard length (upgradeable upon request) |
| Copper (Standard) | 0.75" diameter 179 lbs. /1,000 ft. Neutral in freshwater; slightly buoyant in saltwater Breaking strength: 5,000 lbs. Minimum bend radius: 9" |
| Fiber (Upgrade) | 0.5" diameter 115 lbs. / 1000ft. 2 single-mode fibers Neutrally buoyant in freshwater, slightly buoyant in saltwater Breaking strength: 2100 lbs. Minimum bend radius: 4.5" |

STANDARD

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|------------------|---|
| Flotation | Neutrally buoyant in water - configurable flotation and ballast weights |
| Frame | Open frame design to easily add auxiliary sensors |
| Auto Functions | Heading, depth, trim (speed) |
| Heading Accuracy | +/-0.05° |
| Depth Accuracy | +/-0.25% FSS |

POWER

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|-----------------|--------------------------|
| Universal input | 90-250 VAC, Single phase |
|-----------------|--------------------------|

OPEN ARCHITECTURE

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|-------------|---|
| Integration | Open architecture allows integration of wide variety of sensors |
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*Values based on full power data
20170330 - Specifications subject to change