SeaTrepid VideoRay PRO 3 GTO

The SeaTrepid VideoRay PRO 3 GTO is an observation class ROV system capable of obtaining information when size really does matter. This system can fly through flooded pipelines, portholes, doorways, or other openings of 12 inches and greater to gather information quickly and efficiently. Due to the system size, it can easily be loaded aboard a helicopter to provide immediate response capabilities for nearly any application.

Utilizing the VideoRay PRO 3 GTO, SeaTrepid personnel have utilized the VideoRay system within shipwrecks, sunken airplanes, municipal water tanks, within pipelines, inside ballast tanks, tension leg platforms, bridge inspections and vessel hull inspections.

This system has also been utilized by divers to provide reconnaissance within fallen structures. SeaTrepid personnel setup beside the dive supervisor and flew the VideoRay into each cavity to help provide information about the structural integrity before the diver was cleared to enter.

With micro-observation ROV systems, SeaTrepid helps provide our clients with yet another option to ensure the most cost efficient utilization of the newest technologies gathering the data needed to complete projects ontime and within budget.

SeaTrepid VideoRay PRO 3 GTO

Performance / Dimensions:

Depth rating:	500 fsw (152 msw) standard
Height:	8.75 in (216 mm)
Length:	14.5 in (368 mm)
Width:	11.4 in (289 mm)
Mass in air:	10.5 lb (4.5 kg)
Turning rate:	270 degrees per second

Cameras and Sonar:

1 x Compact 570 line color pan / tilt camera system
1 x SeaSprite mechanical scanning sonar (optional)

Lighting:

2 x 20 watt halogen lamps
variable intensity

Control System:

This system incorporates a Surface Control Unit (SCU) which communicates with the vehicle's electronics while housed in a water tight Pelican 1550 case.

The SCU incorporates:

- Pilot's control console and joystick
- Light dimmers
- Integrated 15 inch LCD display
- Analog composite video out
- Earth leakage protection system

SCU power requirements: 110 VAC, 50 / 60 Hz, 1800 WATT

The standard tether is a 250 ft (76 m) neutrally buoyant performance tether

Propulsion System:

The vehicle is propelled by two horizontal and one vertical thrusters.
2 x geared drive brushed motors with 100 mm propellors
1 x geared drive brushed motors with a 45 mm propellor

This VideoRay system is transported within two pelican cases - combined weight of 135 lbs (61 kgs) that can be transported by hand to the job site by the technicians. Designed for rapid deployment, this system can easily be lifted by car, truck, boat, plane, or helicopter to the job site - rapid and reliable service within a small package.

Due to the small stature of the VideoRay ROV, it is perfectly designed to inspect inside shipwrecks and other subsea structures. SeaTrepid personnel have used this system to inspect the USS Arizona, municipal water tanks, and as a reconnaissance tool for divers within fallen structures to help ensure their safety.

SeaTrepid International, LLC ~ 23083 Hwy 190 E, Robert, LA 70455 ~ +1 (985) 350-6299 phone ~ +1 (985) 520-0002 fax ~ +1 (866) 247-4230 Toll Free ~ info@seatrepid.com

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