

THRUSTERS

The VideoRay Pro 4's custom-designed and highly efficient brushless thrusters deliver unparalleled performance and reliability. The combination of powerful horizontal thrusters with hydrodynamically-optimized propellers and nozzles ensures that you'll have power when you need it.

VideoRay thrusters have been designed for the optimal blend of power and control. Formal U.S. Navy tests confirm 21 pounds of sustained thrust on a Pro 4 ROV (using two thrusters) with the now standard 33 amp boards.

VideoRay thrusters also provide:

- The industry's highest thrust-to-vehicle weight (21 lb. on a 10 lb. vehicle) and thrust-to-drag ratio (2:1)
- Ability to pull long lengths of tether and work in currents that divers wouldn't dare attempt.
- Zero-turn radius and extremely agile maneuverability, provided by optimal thruster placement and counter propeller rotation
- A stable platform for the camera and sensors.

VideoRay's engineers also recognized and accommodated the need for easy maintenance by keeping things simple. Proprietary cartridge motor shaft seals can be visually inspected without being removed, and replacement can be done in the field in less than 5 minutes. Fouled propellers can also be cleared and replaced easily if necessary.

VideoRay Pro 4 brushless thrusters are also available independently of the vehicle to anyone. This option includes the complete thruster sub assembly from light dome to thruster guard.



BASIC SPECIFICATIONS

Depth Rating	300 m (1,000 ft)
Length	36.5 cm (14.5 in)
Max diameter	11.4 cm (4.5 in) (thruster guard)
Weight in air	.91 kg (2 lb)
Propeller	90mm
Motor	Brushless DC
Bollard thrust	4.8 kg (10.5 lbs) per thruster
Thrust-to-weight	2:1
Housing	Anodized aluminum (optional Cerakote finish)
Shaft seal	Proprietary VideoRay cartridge seal (visual inspection, changes in seconds)
Power Requirement	12 VDC / 200W / 17A
Controls	Power and Ground