



Remotely Operated Vehicle Sea Rover



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Sea Rover is a multi-purpose, Survey class ROV with adaptability at the core of its design. While its standard configuration of dual pilot cameras, dual LED lighting arrays and three axis thrusting is intentionally simple, the system's design encourages adding and controlling a wide range of instruments; from sonars to sensors, from manipulators to cameras.



The Sea Rover's onboard systems communicate through a 10GB ethernet backbone with a fiber optic connection to the surface station. Sea Rover's open Unistrut and Delrin frame is a simple, secure frame for multiple accessories.

PERFORMANCE SPECIFICATIONS

Maximum Working Depth	300m
Tether Length *	300m
Tether Composition	Fiber optic lines (4), DC Power (2+, 2-)
Camera **	Analog color pilot camera with 90° lens and zoom Analog low light B/W pilot camera
LED Lights	Dual forward facing, dimmable, 700 lumen LED arrays
Thrusters	Tecnadyne Model 561

* Tether is available on winch and as coil. Tether winch contains both power and fiber optic slip rings.

** Both cameras simultaneously tilt through 180°.





PHYSICAL SPECIFICATIONS

Sea Rover	26"w x 32"l x 27"h, 104 lbs
Tether (Winch) Dimensions	30"w x 38"l x 42"h, 400 lbs
Tether (Coil) Dimensions	42"w x 42"l x 18"h, 150 lbs
Topside Station	27"d x 24"w x 32"h

TOPSIDE VEHICLE CONTROL SPECIFICATIONS

Vehicle Control	Benthos hand controller with 25' cable
Vehicle Power	Ametek Sorensen XG300-5 Power Supply x3
Pilot Monitor	Standard SD monitor

DEPLOYMENT SPECIFICATIONS

Vessel	25' LWL or greater with both open deck space and a protected topside area
Power	110 or 220vac, 20 amps max.
Launch & Retrieval	Crane or davit rated for 200 lbs minimum
ROV Staff	Pilot, Technician

* MITEch's charter vessel exceeds ROV requirements.

TRANSPORTATION REQUIREMENTS

Sea Rover	Shipping container, 31"w x 37"l x 33"h, 200lbs
Tether (Winch)	D-Container, 46"w x 45"l x 56"h, 500 lbs
Topside Control	Shipping container, 30"w x 30"l x 15"h, 100lbs
Topside Power	Shipping container, 30"w x 30"l x 15"h, 100lbs
Tether (Coil), Tools & Spares	D-Container, 48"w x 44"l x 29.5"h, 400 lbs

Available Add-on Systems (additional fees required)

Multi-beam Sonar	Side Scan Sonar
Sector Sonar	Scanning Sonar
Doppler Sonar	Blue View
3D Optical Imaging	USBL
INS System	ADCP
Multi Axis Manipulator	Auxiliary Lighting
Cameras: High-Res Still, HD, UHD, 3D & VR	



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