Oceanus Mini ROV System

A compact ROV system that can it in a 12-inch diameter pipe, with high-end features including six vectorized thrusters providing lateral ROV movement and a full HD 1080p on-board camera.

A uniquely rugged inspection-class ROV system capable of operating to a maximum depth of 305 m (1000 ft.) and with a top speed of up to 4 knots*, the Oceanus Mini is ideal for performing inspections in confined areas like pipelines and holding tanks. The use of lightweight materials and a reduced footprint makes this ROV unit incredibly easy to transport and operate. A smaller size does not mean this ROV is lacking in power and versatility. Core construction of marine-grade aluminum and the same robust engineering standards found in our larger ROV vectorized thruster system ensures this system will stand-up to the toughest tests.

The MarineNav Oceanus Mini ROV offers these standard features;

• Powerful vectorized thruster design provides lateral movement

• Lightweight, compact design ideal for pipe and water tank inspections

• ROV weight of 10.8 kg (23.8 lbs)

• Power over tether design

• Up to 4 knot top speed*

• 2 x 1500 lumen lights

• 1080p high definition camera

• 18.5" primary video screen topside

• Depth rating of 305m (1000ft)

• Compatible with Oceanus Pro topside control system and many Oceanus Pro accessories

• Limited 2-year warranty and MarineNav's Peace of Mind Guarantee*

MADE IN CANADA

FULL HD 1080P video

Oceanus Mini ROV system includes Mini ROV, 18.5-inch topside control case and Oceanus hand controller

MARINENAV

BUILT NORTH ATLANTIC TOUGH. TRUSTED EVERYWHERE.

CERTIFIED ISO COMPANY

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Oceanus Mini ROV System

Specifications

Certifications	ISO 9001: 2015
Operating Environment	Fresh or salt water, 0-50ºC (32-122º F)
ROV movement and control	Full depth, horizontal and lateral movement: Auto depth, Heading hold and ROV stabilize modes
Depth Rating	305 m (1000 ft)
Maximum Speed *	4 kn
Topside Unit Weight	18.05 kg (39.8 lbs)
ROV Weight ■	10.8 kg (23.8 lbs)
Approximate Total Shipping Weight†	38.56 kg (85.00 lbs)
ROV Dimensions	521 mm (20.5") long, 279 mm (11.5") wide, 273 mm (10.75") height
Topside Unit Housing Material	Ultra high density polyethylene, neoprene o-ring and ABS latches
ROV Housing Material	Marine grade aluminum.
Lights	2 x 1500 Lumen front
Cameras	Internal Front: 1080p with tilt control
Camera Tilt Angle	+/- 120º Pitch (vertical rotation)
Camera Focus Range	Fixed focus 4" to infinity
Camera Field of View	120º field of view
Primary Display	18.5" TFT active matrix panel, 1600 nits brightness (full daylight readable), 1920 x 1080 resolution.
Secondary Display	10.1" TFT Touch active matrix panel, 1000 nits brightness (full daylight readable), 1280 x 800 resolution
Video Output	HDMI video output
Data Storage	500 GB solid state drive topside, 32 GB solid state ROV
Topside Unit Software OS	Linux OS (MarineNav Proprietary software interface)
IMU (Sensors)	Always on, Integrated with accelerometer & magnetometer measuring telemetry including tilt, roll, pitch, and heading, auto heading, auto depth functionality
Depth Gauge	Calibrated in meters or feet (user selectable)
Topside Power	Input: 100/240 V AC 50/60 Hz, System fully operational in 60 seconds
ROV Power	Power over tether
ROV Control	MarineNav Hand Controller (IP 65)
Topside Control Case	Rugged waterproof case, transport requires one person. IP 65 when closed, IP 62 when open
Auxiliary Ports	1 auxiliary port: capable of 1 x RS485 / Manip / 15VDC)

Specifications - continued

On-Screen Display (OSD)	Real-time data including recording time, voltage, water temperature, depth, date/time stamp, heading and attitude is overlaid or embedded with video. Operator input lines available. GPS co-ordinates displayed as overlay option when paired with accessory. Enabled data entry field with customized logo available
Settings	Internally saved, persist through power cycles
Wireless	Wi-Fi video broadcast to multiple devices simultaneously via integrated antenna. Wireless specification 802.11 ac/b/g/n on 2.4/5 GHZ
Tether System	Optional rapid deployable, neutrally buoyant tether with water-tight cable connections. Optional tether deployment system available
Tether Length	500 m (1640.4 ft) maximum tether length
Available Accessory Attachments + ▲	Single axis manipulator arm, USBL, Hull crawler, Metal thickness gauge, RS485 based sonar and accessories

* Limited Two year warranty is available to MarineNav Oceanus ROV registered within the first year of purchase. For warranty to be valid all scheduled maintenance must be adhered to according to manufacturers guidelines. Warranty excludes tampering, misuse and regular wear. Contact MarineNav for full details and restrictions of Peace of Mind Guarantee.

* Maximum speed test conducted with absence of all ballast weights.

■ Estimated dry weight.

† Choice of available options will change overall shipping weight. Shipping weight based on 100 m tether, ROV unit, topside & hand controller.

+ Some accessories require use of the Marinenav multi port communication system.

▲ Oceanus ROVs may exceed recommended depth ratings of available accessories. Consult manufacturer specifications for all accessories prior to use. MarineNav Ltd. is an ISO 9001:2015 certified company. Our certified Quality Management System ensures that each unit we produce adheres to the strictest standards and complies with customer requirements.

While we strive to ensure the accuracy of all items and descriptions in this document, this is not always possible. Specifications, options, and availability are subject to change without notice. Errors and omissions excepted. We reserve the right to limit quantities.

Powerful vectorized thruster design

1080p high definition camera

Top speed up to 4 knots

Depth rating of 305m

ROV powered over tether

2 x 1500 Lumen lights

ROV weight 10·8 kg

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