

Oceanus Mini-Lite

ROV System – 2024 Specifications



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C-026_Oceanus_Mini_Lite_2024-PR4



The system includes the Oceanus Mini-Lite ROV, the Oceanus Mini-Lite topside control system and a touch-sensitive removable tablet with MarineNav's FCS-Lite software pre-installed. All system components are housed in IP-rated hardshell transport cases.

The Oceanus Joystick/Hand-Held Controller (v3.0) with tablet mount bracket (not pictured) is available as an optional system upgrade. ROV tether sold separately.



Our most affordable inspection class ROV system features a compact ROV topside control case with a removable touch-sensitive PC tablet and the Oceanus Mini, a ROV capable of fitting in a 12-inch diameter pipe.

The Oceanus Mini-Lite ROV is independently certified for dive missions at a maximum standard depth of 305m (1000 ft). It is an affordable, feature-rich inspection class ROV ideal for vessel and infrastructure inspection, locating and assisting in ghost gear retrieval, and visually documenting evidence. With its reduced footprint and easy setup, deployment, and operation, this user-friendly ROV system is suitable for both novice and experienced pilots.

The MarineNav Oceanus Mini-Lite ROV system offers these standard features;

- Powerful vectorized ROV thruster design provides lateral movement
- Lightweight, compact design ideal for pipe and water tank inspections, ghost gear retrieval
- ROV dry weight of 10.8 kg (23.8 lb)

- Power over tether design
- Standard ROV depth rating of 305m (1000ft)
- Up to 4 knots top speed*
- 2 x 1500 lumen lights
- 1080p high definition camera
- Compact topside control case weighing 7.39kg (16.3 lb)
- Removable touch-sensitive 64GB solid state drive tablet with a 10.5" viewing screen. MarineNav's proprietary Flight Control System software pre-installed. Wireless communication between topside and removable tablet to a maximum distance of 20m
- Topside features AC power in, two Wi-Fi antennae, two USB ports, MarineNav's Multiport, Isometer, tablet recharging cables
- A one-year limited warranty extended to the MarineNav manufactured topside (third-party tablet protected by manufacturers warranty). MarineNav Mini ROV protected by a two-year limited warranty. Conditions apply.*

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Specifications - Overview

Certifications	ISO 9001: 2015
Operating Environment	Fresh or salt water, 0-50°C (32-122° F)
Standard Depth Rating	305m (1000 ft)
Maximum Speed *	4 kn
Approximate Total Shipping Weight †	16.01 kg (35.3 lb)
Transport Cases	Portable IP 65 rated cases (when closed), constructed of ultra high density polyethylene, neoprene o-ring and ABS latches
Owners Manual	MarineNav Mini-Lite ROV operators manual and tablet third-party manuals provided
System Tool Kit	24 sets of ROV ballast weight nuts and bolts. Spares kit includes assorted panhead screws, nuts and other fasteners for ROV
Settings	Internally saved, persist through power cycles
Warranties*	1-year limited warranty (if registered within first year of purchase), Peace of Mind guarantee, Advance Replacement warranty

OPTIONAL SYSTEM UPGRADE (pictured below)

The Oceanus Joystick/Hand-Held Controller (v3.0) with tablet mount bracket provides integrated control of the ROV via a 3-axis joystick controller featuring Hall-effect technologies and a potentiometer thumbwheel depth control. Sixteen command buttons control essential ROV functions. The Oceanus Joystick/Hand held controller is connected to the topside via USB port, or through wireless communication to a maximum distance from topside control case of 20m.



Specifications - Remotely Operated Vehicle (ROV)

ROV Power	Power over tether
ROV Housing Material	Anodized marine grade aluminum
ROV Dimensions	521 mm (20.5") long, 279 mm (11.5") wide, 273 mm (10.75") height
ROV Dry Weight ■	10.8 kg (23.80 lb)
AUX Ports	1 auxiliary port: capable of 1 x RS485 / Manipulator / 12VDC
ROV Piloting Control System	Touch-sensitive interface on a removable Windows tablet, or optional system upgrade to a IP 65 rated MarineNav hand-held controller (v3.0)
ROV Movement and Flight Control Modes	Full depth, horizontal and lateral movement: Auto Depth, Heading Hold and ROV Stabilize modes
ROV Lights	2 x 1500 Lumen front lights
ROV Camera	Internal front: 1080p with tilt control,
Camera Tilt Angle	+/- 160° Pitch (vertical rotation)
Camera Focus Range	Fixed focus 4" to infinity
Camera Field of View	120° field of view
Available Accessory Attachments + ▲	Single axis manipulator arm, USBL, hull crawler, metal thickness gauge, RS485 based sonar and accessories.

THE OCEANUS MINI ROV SUBMERSIBLE IS PROTECTED BY A TWO-YEAR LIMITED WARRANTY *

Some conditions and restrictions apply.*



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Specifications - Topside Control Case

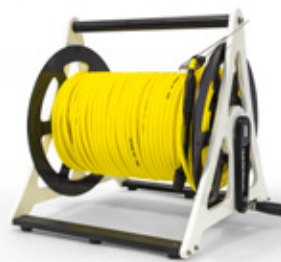
Topside Power	Input: 100/240 V AC 50/60 Hz, System fully operational in 60 seconds
Topside Control Case	Rugged waterproof case, transport requires one person, IP 65 when closed, IP 62 when open
Topside Unit Housing Material	Ultra high density polyethylene, neoprene o-ring and ABS latches
Topside Dimensions	401 mm (15.8") long, 307 mm (12.1") wide, 173 mm (6.8") height
Topside Unit Weight†	7.39 kg (16.30 lbs)
Topside Safety Features	Bender Isometer
Topside Computer	A removable Microsoft Surface Tablet
Data Storage	64 GB solid state drive topside, 32 GB solid state drive ROV
IMU (Sensors)	Always on, integrated with accelerometer & magnetometer measuring telemetry including tilt, roll, pitch, and heading, auto heading, auto depth functionality
Topside Ports	2 USB, 1 Multi Port
Wireless	Topside equipped with two built-in wireless antennae to provide wireless communication with the Windows tablet to a range of 20 meters
Primary Display	Windows tablet features a 10.5" touch panel, (full daylight readable), 1920 x 1280 resolution
Secondary Display	N/A
Topside Unit Software OS	Linux OS (MarineNav proprietary software interface)
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.
Depth Gauge	Calibrated in meters or feet (user selectable)
Video Recording	.MKV or MP4 video formats to PC hard drive (.MKV is default video format. Select MP4 option using FCS software)

Specifications - ROV Tether & Deployment Systems

ROV Tether	Rapid deployable, neutrally buoyant tether with water-tight cable connections
Maximum Tether Length (Tether sold separately)	500 m (1640.4 ft) maximum tether length (Sold separately)
Tether Deployment Systems	Tether deployment systems available as an optional system upgrade. ROV Tether is not included with Tether Deployment Systems. Tether sold separately.

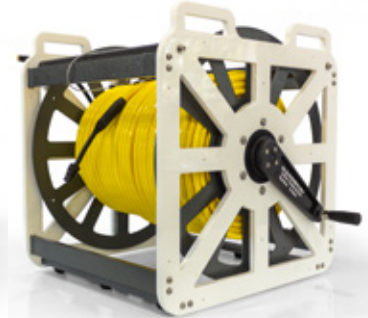
STANDARD TDS WITH 10M DECK LEAD

Maximum 180m tether capacity (tether sold separately)



MEDIUM TDS WITH 10M DECK LEAD

Maximum 350m tether capacity (tether sold separately)



MINI-LITE SELF CONTAINED TOPSIDE ROV CONTROL CASE

Includes a Windows touch tablet with proprietary MarineNav Flight Control System software redesigned specifically for the Oceanus Mini-Lite ROV system.



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Terms and Conditions

ONE-YEAR LIMITED WARRANTY

- * The Oceanus Mini-Lite topside unit is protected by a one-year limited warranty (not including the third-party tablet. The Windows tablet is protected by third-party manufacturer's warranty). The MarineNav Oceanus ROV submersible is protected by a two-year limited warranty upon registering the ROV system within the first year of purchase. For the warranty to remain valid the recommended ROV maintenance schedule must be adhered to according to manufacturers guidelines. Warranty excludes tampering, misuse and regular wear ;
- a) MarineNav Ltd warrants that tether supplied with ROV systems or supplied separately will be free from defects in materials and workmanship under normal use and service for a period of ninety (90) days from date of shipment.
- b) MarineNav Ltd warrants that tether whips that were provided as part of an ROV system at time of original shipment will be free from defects in materials and workmanship under normal use and service for a period of six (6) months from date of shipment.
- c) MarineNav Ltd warrants that thruster motors that were provided as part of an ROV system at time of original shipment will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from date of shipment. This does not include wearable parts such as propellers, which are considered a consumable item. Tampering, misuse and regular wear are not covered by warranties.
- d) MarineNav Ltd warrants that the ROV float block that was provided as part of an ROV system at the time of original shipment, or purchased separately will be free from defects in materials and workmanship under normal use and service for a period of three (3) months. The three-month warranty does not cover normal wear such as scuffs, scrapes indentations, or other damage to the float block caused by external environmental factors.
- e) MarineNav Ltd warranties exclude corrosion that may occur on ROV metallic parts caused in part by improper cleaning and storage of ROV after each mission. Refer to your owner's manual for proper cleaning and maintenance of your ROV system.

PEACE OF MIND GUARANTEE

- 1) When purchasing an Oceanus ROV system, our customers are entitled to a comprehensive maintenance service package free of charge. To qualify for the free comprehensive system maintenance program, ROV customer must ship their Oceanus ROV to a MarineNav-certified service center within the first 25 operational hours. ROV operational hour count recorded and saved to the Oceanus ROV operating system. The customer is responsible for payment of shipping costs to and from a MarineNav-certified service center.
- 2) MarineNav provides full coverage, for a period of twelve months, of any design or structural enhancements to any component of your ROV purchase. This includes the ROV, topside control case and MarineNav manufactured attachments. MarineNav will replace any hardware components on your ROV which have been upgraded or enhanced within your 12-month period of ownership. The 12-month period begins when the shipment is received based on the shipment tracking number. The upgrades occur during your ROV's scheduled routine maintenance at a certified MarineNav service center.
- 3) MarineNav will provide ROV system software upgrades free of charge of our proprietary Flight Control Software over the normal operating lifespan of your purchased ROV system. Lifetime software updates require customers to have both reliable Internet and telephone connections. The software updates are done remotely by our in-house computer technicians. A phone call is requested to assist the customer through simple steps in connecting the ROV to allow remote access.

ADVANCE REPLACEMENT WARRANTY

MarineNav Ltd will in exceptional circumstances provide advance replacement of equipment under our original manufacturer warranty and subject to the following Terms & Conditions. We will agree to provide advance replacement when we determine, in our sole and absolute discretion, that a defect in manufacturing and/or materials has caused equipment that we supplied to become inoperable, unsafe, or otherwise unsuitable. Advance replacement is subject to all other terms, conditions and exclusions of our Advance Replacement Guarantee and original manufacturer warranty.

Advance replacements are only provided on the condition that the client shall return the defective equipment to MarineNav Ltd within three (3) business days. Should the items being returned not be received by MarineNav Ltd. within three (3) days from the date of the client's receipt of the advance replacement, the client agrees that the advance replacement equipment will be chargeable to the client at full value. Any deviations from this condition shall be at MarineNav Ltd.'s sole and absolute discretion. Return freight costs on and risk of loss or damage to equipment being returned are the responsibility of the client.

When the returned equipment is received back, it will be inspected and reviewed by one or more service technicians and/or by quality control personnel. If it is deemed by MarineNav Ltd., in its sole and absolute discretion, that the returned equipment has suffered physical damage, excess wear and tear beyond what is considered typical, or if it was damaged by misuse or operation outside of the normal and intended purpose of the equipment, the client agrees that repair and/or replacement costs will be chargeable at the value determined by MarineNav Ltd.

MarineNav Ltd will pay freight costs for shipping advance replacement equipment to the client location at a standard level of service. If the client requires expedited or express service this may be chargeable to the client at the discretion of MarineNav Ltd.

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

† Shipping weight based on a standard ROV submersible with hardshell transport case and the topside control system with removable touch-sensitive Windows tablet. The total shipping weight does not include ROV tether or other ROV accessories.

■ The ROV dry weight is calculated on a standard Oceanus Mini ROV without ROV ballast weights, additional system upgrades or ROV accessories.

✦ Some accessories require use of the Marinenev Multiport communication system.

▲ Oceanus ROVs may exceed recommended depth ratings of available accessories. Consult manufacturer specifications for all accessories prior to use.

‡ Topside unit weight is based upon a standard Oceanus Mini -Lite control system consisting of a IP rated hardshell case and Windows tablet. ROV tether is not included as part of the topside weight.

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.