Oceanus Pro
ROV System – 2026 Specifications

OCEANUS ROV SYSTEMS · MARINENAV LTD· ESTABLISHED 2005

BUILT NORTH ATLANTIC TOUGH TRUSTED EVERYWHERE

MARINENAV THREE YEAR limited warranty* **conditions apply*

Includes the Oceanus Pro remotely operated vehicle, the Oceanus topside control system with built in primary 18.5" TFT active matrix video display panel and a secondary 10.1" TFT touch active matrix panel (a display panel dedicated to pre-installed proprietary Flight Control System software) and the Oceanus Handheld Controller (v3.0). All system components are housed in IP-rated hardshell transport cases.

Upgrade your ROV topside to a dual PC configuration, or upgrade to an ultra HD 4K external camera system. Contact MarineNav for other system upgrade options, current pricing and compatible ROV accessories. Tether sold separately.

FULL HD 1080P video

OPTIONAL UPGRADE 4K VIDEO ULTRA HD Camera Systems

MADE IN CANADA · ISO · RoHS compliant · UKCA · CE · FC

An ROV capable of deep-dive missions, the Oceanus Pro is our most popular ROV system, favoured by commercial industries and government agencies for its rugged durability, customization options and value for the cost.

The Oceanus Pro operates to a maximum standard depth of 400mᵒ (1312 ft.) and a top speed of 5 knots. A wide range of attachments, including sonar systems makes the Oceanus Pro deal for sectors requiring ROVs to conduct diver support, border protection, port security, evidence location, search and rescue, and recovery duties.

The MarineNav Oceanus Pro ROV offers these standard features;

• Power over tether design

• Depth rating of 400 m (1312 ft)ᵒ

• Up to 5 knots top speed*

• Six fully vectorized thruster design delivering superior ROV maneuverability (Lateral ROV movement axis standard)

• Front facing 1080p HD camera with camera tilt angle of 180° pitch vertical rotation. (optional upgrade to Ultra HD 4K external ROV video camera)

• Four front-facing 1500 lumen lights

• IP rated hardshell topside ROV control system with built-in 18.5" primary and 10.1" TFT touch sensitive panels, built-in i7 industrial computer (optional dual-PC configuration available)

• 1 TB solid state drive topside

• Rapid integration of third-party accessories, software and external processors through the Oceanus Multiport communications system

• Wireless broadcasting feature allows operator screen sharing to multiple parties

• Optional MarineNav Fleet Management suite reports status and health of ROV remotely for full tracking of individual or multiple units

• Protected by a 3-year limited warranty, MarineNav's Peace of Mind guarantee and Advance Replacement warranty*

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CERTIFIED ISO 9001:2015 COMPANY

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Specifications - Overview

Certifications	ISO 9001: 2015
Operating Environment	Fresh or salt water, 0-50ºC (32-122º F)
Maximum Depth Ratingº	400m (1312 ft)
Maximum Speed ˣ	5 kn
Approximate Total Shipping Weight †	46.81 kg (103.2 lbs)
Transport Cases	Portable IP 65 rated cases (when closed), constructed of ultra high density polyethylene, neoprene o-ring and ABS latches
Owners Manual	Printed version of MarineNav Pro ROV operators manual included. Digital PDF version of manual saved to topside internal computer
System Tool Kit	26 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*	3-year limited warranty (if registered within first year of purchase). Peace of Mind guarantee, Advance Replacement warranty

Specifications - Remotely Operated Vehicle (ROV)

ROV Power	Power over tether
ROV Housing Material	Anodized marine grade aluminum
ROV Dimensions	605 mm (23.82") long, 418 mm (16.46") wide, 279 mm (10.98") height
ROV Dry Weight ▪	17.91 kg (39.5 lbs)
AUX Ports	3 auxiliary ports: capable of Ethernet/12VDC/ 24VDC/Manipulator Available system upgrades include; - Optional dedicated DVL port - Optional external camera port
ROV Piloting Control System	IP 65 rated MarineNav handheld 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	4 x 1500 lumen front lights
ROV Camera	Internal front: 1080p with tilt control, Optional 4k external camera available, (toggle between camera systems functions and control recording feature with topside Flight Control Software)
Camera Tilt Angle	+/- 180º Pitch (vertical rotation)

Specifications - Remotely Operated Vehicle (ROV)

Camera Focus Range	From the face of the housing dome to infinity with manual control
Camera Field of View	120º field of view
Available Accessory Attachments + ▲	Single axis manipulator arm, 360° rotating manipulator arm, USBL, hull crawler, metal thickness gauge, Ethernet based sonars and accessories.

Specifications - Handheld Controller (v3.0)

Housing Materials	Anodized marine grade aluminum
ROV System Compatibility	Fully integrated with MarineNav's FCS software. Compatible with the Oceanus Mini-Lite, Mini and Pro ROV systems.
ROV Control Array	Primary ROV control via a 3-axis joystick controller featuring Hall-effect technologies and a potentiometer thumb wheel depth control. Sixteen command buttons control essential ROV functions
Connector End	USB connector
Transport Case	Portable IP rated case constructed of ultra high density polyethylene, neoprene o-ring and ABS latches

THE OCEANUS JOYSTICK / HANDHELD CONTROLLER (v3.0)

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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	508 mm (20.0") long, 355.6 mm (14.0") wide, 203.2 mm (8.0") height
Topside Unit Weight ‡	18.6 kg (41.0 lbs)
Safety Features	Bender Isometer and GFCI circuit breaker
Topside Computer	i7 industrial
Data Storage	1 TB 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 LAN (Ethernet), 1 Multi Port
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
Video Output	HDMI video output
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
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, GPS co-ordinates displayed as overlay option when paired with accessory, enabled data entry field with customized logo 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	Optional system upgrade with deployment systems. Choice of maximum tether capacity of either 180m, 350m or 600m tether (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)

THE OCEANUS MINI / PRO TOPSIDE CONTROL SYSTEM

A hardshell, IP rated self contained control hub featuring built-in 18.5" video display panel, a 10.1" TFT touch-sensitive software interface panel, built-in i7 industrial computer and 1 TB SSD

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Terms and Conditions

THREE-YEAR LIMITED WARRANTY

* *MarineNav's Three Year Limited Warranty applies to customers who haved purchased one of the following ROV systems; an Oceanus Mini, an Oceanus Pro, or an Oceanus Ultimate ROV system. An initial two-year limited warranty is made available when your eligible MarineNav Oceanus ROV is registered within the first year of purchase. For the warranty to remain valid all regimented ROV scheduled maintenance must be completed according to manufacturers guidelines. At the completion of the initial two-year limited warranty period a third year extension is provided to those customers who have adhered to all regimented ROV maintenance as outlined by manufacturer. Warranty restrictions apply;*

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.

ø *While possible to dive to a maximum depth of up to 400m using an ROV system outfitted with a standard ROV float block, repeated dive missions beyond 300m will shorten the float lifespan and may lead to eventual float block failure. MarineNav requires users to upgrade their ROV with an optional Deep Water Buoyancy ROV float block for repeated deep dive missions exceeding 300m. Contact MarineNav for product details and pricing.*

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

† *The approximate total shipping weight is calculated on the combined weight of a standard Oceanus Pro ROV submersible, ROV ballast weights, Oceanus topside control case, Oceanus Joystick/Hand held controller (v3.0) and all included hardshell shipping cases. The approximate total shipping weight does not include ROV tether or other ROV accessories.*

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

+ *Some accessories require use of the Marinenav Multiport communication system.*

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

‡ *The topside unit weight is based upon a standard Oceanus Mini / Pro topside control system consisting of a IP rated hardshell case, metal housings for the internal i7 computer, SSD drive and built in display panels. The Optional upgrade option to a dual PC configuration increases the topside unit 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.