

Specifications



Oceanus Pro

Remotely Operated Vehicle

Workhorse ROV with expanded features and options for demanding conditions

- High output submersible with speeds of 6 knots
- Optional MarineNav Fleet Management Suite reports status and health of ROV remotely for full tracking of one or multiple units
- Wireless Broadcasting feature allows operator screen sharing to multiple parties
- Multiple cameras standard
- Touch-sensitive user interface provides control of all important ROV functions
- Ships with choice of performance or high lift float block with available range of colours
- 2 year warranty[‡]

Certifications	ISO 9001: 2015 IEC 60945, items 8.2, 8.3, 8.4, 8.7, Paragraphs 9 & 10 EMC
Operating Environment	Fresh or salt water, 0-50°C (32-122°F)
Depth Rating	305 m (1000 ft)
Maximum Speed	6 kn
Topside Unit Weight	18.6 kg (41.0 lbs)
ROV Weight	17.3 kg (38.1 lbs)
Approximate Total Shipping Weight*	62.0 kg (136.6 lbs) *weight will vary based upon tether and float block selection
Dimensions	632 mm (24.88 inches) long, 410 mm (16.13 inches) wide, 283 mm (11.13 inches) height
Topside Unit Housing Material	Ultra high density polyethylene, neoprene o-ring and ABS latches
ROV Housing Material	Marine grade anodized aluminum, Upgrade of protective coating option available
Lights	4 x 1500 Lumen front, 2 x 1500 Lumen rear
Cameras	Internal Front: 1080p with tilt control, Rear internal 1080p fixed (optional 4K external camera available), Simultaneous viewing possible
Camera Tilt Angle	+/- 45° Pitch (vertical rotation)
Camera Focus Range	From the face of the housing dome to infinity
Camera Field of View	120° field of view
Primary LCD Display	15" TFT active matrix panel, 1600 nit (full daylight readable) brightness (option of 2000 nit brightness), 1024 x 768 resolution
Secondary LCD Display	10.1" TFT Touch active matrix panel, 1300 nit (full daylight readable), 1280 x 800 resolution, optional 2000 nit brightness
Topside Unit Software OS	Linux OS, option of Windows 10
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), 0.1 units (meters or feet) accuracy
Top Side Case	Input: 100/240 V AC 50/60 Hz, System fully operational in 60 seconds
ROV Power	Power over tether
ROV Control	IP 65 Water-tight, manual ROV joystick/knob control with topside unit, wired joystick optional
Control Panel Case	Waterproof Pelican case, transport requires one person, IP rating of 65
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	WiFi video broadcast to multiple devices simultaneously via integrated antenna, Wireless specification 802.11 ac/b/g/n on 2.4/5 GHz
Tether Deployment System	Optional rapid deployable, neutrally buoyant tether with water-tight cable connections, optional tether deployment system available
Tether Length	304.8 m (1000 ft) maximum tether length
Available Options	360° Rotating manipulator arm, Hull crawler, Metal thickness gauge, Positioning & tracking system (above water), Sonar, Tritech MicronDST, Tritech 720im, Tritech 720ik, Blueprint Subsea Oculus ◊

MARINENAV

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1466 Panmure Island Wharf
RR 2 Montague, PE COA 1R0

902 838-7011
www.marinenav.ca

[‡] Two year warranty is available to MarineNav Oceanus Pro 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. 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.

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

* Artists rendering of the Oceanus Pro ROV with topside control unit.

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.