

Oceanus Mini ROV System

introducing
 **NEW** for
PRODUCT 2020

A compact ROV system that can fit 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 8.62 kg (19 lbs)
- Power over tether design
- Up to 4 knot top speed*
- 2 x 1500 lumen lights
- 1080p high definition camera
- 15" 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*



Oceanus Mini ROV system includes Mini ROV, 15-inch topside control case and Oceanus hand controller

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| Specifications | |
|------------------------------------|--|
| Certifications | ISO 9001: 2015 |
| Operating Environment | Fresh or salt water, 0-50°C (32-122° 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 * | 8.62 kg (19 lbs) |
| Approximate Total Shipping Weight† | 36.97 kg (81.5 lbs) |
| ROV Dimensions | 520 mm (20.47") long, 293 mm (11.53") wide, 225 mm (8.86") height |
| Topside Unit Housing Material | Ultra high density polyethylene, neoprene o-ring and ABS latches |
| ROV Housing Material | Marine grade aluminum. Optional upgrade of anodized marine grade aluminum, protective coating available |
| Lights | 2 x 1500 Lumen front |
| Cameras | Internal Front: 1080p with tilt control |
| Camera Tilt Angle | +/- 120° Pitch (vertical rotation) |
| Camera Focus Range | Fixed focus 4" to infinity |
| Camera Field of View | 120° field of view |
| Primary LCD Display | 15" TFT active matrix panel, 1600 nits brightness (full daylight readable), 1024x786 resolution. Optional 2000 nits available |
| Secondary LCD 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, 64 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 |

| Specifications - continued | |
|-------------------------------------|--|
| Auxiliary Ports | 1 auxiliary port: capable of 1 x RS485 / Manip / 15VDC) |
| 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.

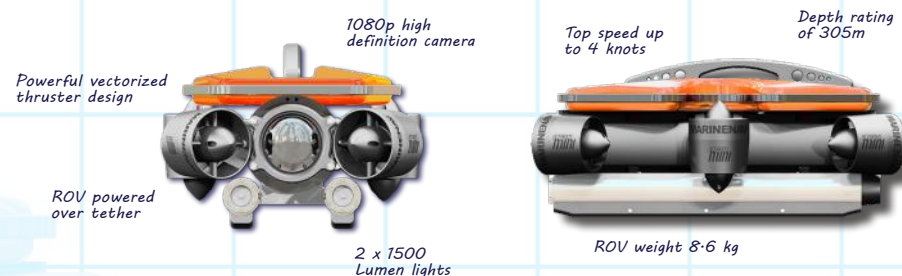
■ Estimated dry weight.

† 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.



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Oceanus Pro ROV System

Designed,
engineered &
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on-site. | MIN

A mission-ready ROV system with a diverse range of attachment options for deep-dive recovery, defense, scientific research, and complex inspection tasks.

Widely used as an inspection-class ROV system performing demanding vessel and structural inspections, the Oceanus Pro operates to a maximum standard depth of 305 m (1000 ft.) with an optional upgrade to maximum depth of 400 m (1312 ft.)[†], and a top speed of 6 knots*. A wide range of attachments, including sonar systems makes the Oceanus Pro ideal for sectors requiring ROVs to conduct diver support, border protection, port security, evidence location, search and rescue, and recovery duties.

The MarineNav Oceanus Pro offers these standard features;

- Fully vectorized thruster design delivering superior ROV maneuverability (Lateral ROV movement axis standard)
- Depth rating of 305 m (1000 ft), optional upgrade to 400 m (1312 ft)[†]
- Power over tether design
- Up to 6 knot top speed (with performance float block)*
- Touch-sensitive user interface provides control of all important ROV functions
- MarineNav's Oceanus Multi-Port communication system allows rapid integration of third-party accessories, software and external processors
- 500GB solid state drive topside
- 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
- Limited 2-year warranty and MarineNav's Peace of Mind Guarantee*



Oceanus Pro ROV system includes Pro ROV, 15-inch topside control case and Oceanus Joystick

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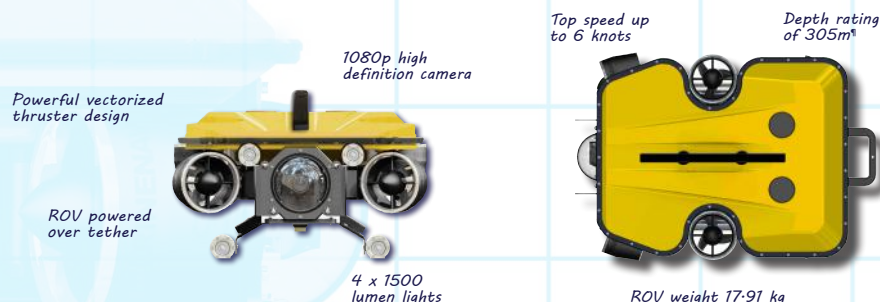
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| Specifications | |
|------------------------------------|--|
| Certifications | ISO 9001: 2015 |
| Operating Environment | Fresh or salt water, 0-50°C (32-122° F) |
| ROV movement and control | Full depth, horizontal and lateral movement: Auto depth, Heading hold and ROV stabilize modes |
| Depth Rating * | 305 m (1000 ft), Optional upgrade to 400 m, (1312 ft) |
| Maximum Speed * | 6 kn |
| Topside Unit Weight | 18.05 kg (39.8 lbs) |
| ROV Weight * | 17.91 kg (39.5 lbs) |
| Approximate Total Shipping Weight† | 46.26 kg (102 lbs) |
| ROV Dimensions | 605 mm (23.82") long, 418 mm (16.46") wide, 279 mm (10.98") height |
| Topside Unit Housing Material | Ultra high density polyethylene, neoprene o-ring and ABS latches |
| ROV Housing Material | Marine grade aluminum. Optional upgrade of anodized marine grade aluminum, protective coating available |
| Lights | 4 x 1500 Lumen front |
| Camera | Internal Front: 1080p with tilt control |
| Camera Tilt Angle | +/- 180° Pitch (vertical rotation) |
| Camera Focus Range | From the face of the housing dome to infinity with manual control |
| Camera Field of View | 120° field of view |
| Primary LCD Display | 15" TFT active matrix panel, 1600 nits brightness (full daylight readable), 1024x786 resolution. Optional 2000 nits available |
| Secondary LCD 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, 64 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 |

| Specifications - continued | |
|-------------------------------------|--|
| Auxiliary Ports | 1 auxiliary port: capable of 1 x RS485 + Manip / 15VDC |
| 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 | 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 sonars and accessories. |

- * The Oceanus Pro Plus ROV system is rated to a maximum depth rating of 300 m (1000 ft) as a standard feature. A maximum depth rating of 400 m (1312 ft) is available as an optional upgrade feature. Contact a MarineNav representative for more details.
- * 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.
- * Approximate weight with standard primary 15" TFT active matrix panel.
- † 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.
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Oceanus Pro Plus ROV System

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A mission-ready ROV system with a diverse range of attachment options for deep-dive recovery, defense, scientific research, and complex inspection tasks.

Widely used as an inspection-class ROV system performing demanding vessel and structural inspections, the Oceanus Pro Plus operates to a maximum standard depth of 305 m (1000 ft.) with an optional upgrade to maximum depth of 400 m (1312 ft.)[†], and a top speed of 6 knots*. A wide range of attachments, including sonar systems makes the Oceanus Pro Plus ideal for sectors requiring ROVs to conduct diver support, border protection, port security, evidence location, search and rescue, and recovery duties.

The MarineNav Oceanus Pro Plus ROV offers these standard features;

- Power over tether design allows for extended ROV dive times
- High bright 18.5" and 10" displays
- Four front-facing 1500 lumen lights
- Front facing 1080p HD camera with camera tilt angle of 180° pitch (vertical rotation)
- 1 Terabyte solid state drive topside
- Wireless Broadcasting feature allows operator screen sharing to multiple parties
- Fully vectorized thruster design delivers superior ROV maneuverability (Lateral ROV movement axis standard)
- Depth rating of 305 m (1000 ft), optional upgrade to 400 m (1312 ft)[†]
- Up to 6 knot top speed (with performance float block)*
- Touch-sensitive user interface and fully integrated Oceanus Joystick hand controller provide control of all important ROV functions
- MarineNav's Oceanus multi-port communication system allows rapid integration of third-party accessories, software and external processors
- Limited 2-year warranty and MarineNav's Peace of Mind Guarantee*



Oceanus Pro Plus ROV system includes Pro Plus ROV, 18.5-inch topside control case and Oceanus Joystick

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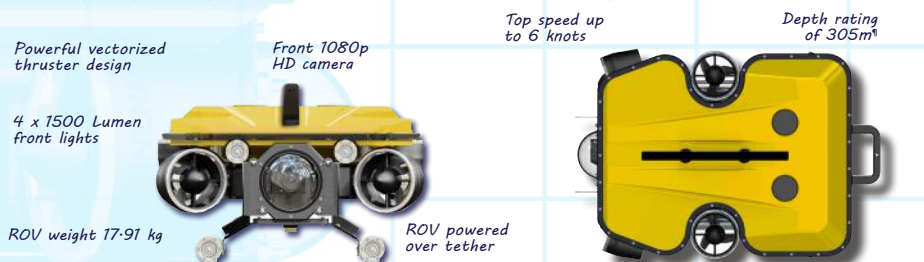
Oceanus Pro Plus ROV System

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| Specifications | |
|------------------------------------|--|
| Certifications | ISO 9001: 2015 |
| Operating Environment | Fresh or salt water, 0-50°C (32-122° 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), Optional upgrade to 400 m, (1312 ft) |
| Maximum Speed* | 6 kn |
| Topside Unit Weight† | 18.6 kg (41.0 lbs) |
| ROV Weight* | 17.91 kg (39.5 lbs) |
| Approximate Total Shipping Weight‡ | 46.81 kg (103.2 lbs) |
| ROV Dimensions | 605 mm (23.82") long, 418 mm (16.46") wide, 279 mm (10.98") height |
| Topside Unit Housing Material | Ultra high density polyethylene, neoprene o-ring and ABS latches |
| ROV Housing Material | Marine grade aluminum, Optional upgrade of anodized marine grade aluminum, protective coating available |
| Lights | 4 x 1500 Lumen front lights |
| Cameras | 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 | +/- 180° Pitch (vertical rotation) |
| Camera Focus Range | From the face of the housing dome to infinity with manual control |
| Camera Field of View | 120° field of view |
| Primary LCD Display | 18.5" TFT active matrix panel, 1600 nits brightness (full daylight readable), 1024 x 786 resolution. |
| Secondary LCD Display | 10.1" TFT Touch active matrix panel, 1000 nits brightness (full daylight readable), 1280 x 800 resolution |
| USB Ports | 4 |
| Video Output | HDMI video output |
| Data Storage | 1 Terabyte solid state drive topside, 64 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) |

| Specifications - continued | |
|-------------------------------------|---|
| Topside Control Case | Rugged waterproof case, transport requires one person, IP 65 when closed, IP 62 when open |
| Auxiliary Ports | 2 auxiliary port: capable of 1 x RS485 + Manip / 15VDC |
| 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 as, 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 | 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, 360° Rotating manipulator arm, USBL, Hull crawler, Metal thickness gauge, RS485 based sonars and accessories. |

- * The Oceanus Pro Plus ROV system is rated to a maximum depth rating of 300 m (1000 ft) as a standard feature. A maximum depth rating of 400 m (1312 ft) is available as an optional upgrade feature. Contact a MarineNav representative for more details.
- * 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.
- † Approximate weight with standard primary 15" TFT active matrix panel.
- ‡ Estimated dry weight.
- ‡ Choice of available options will change overall shipping weight. Shipping weight based on 100m 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.
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