

# Oceanus Mini Lite ROV System

Designed,  
engineered &  
manufactured  
on-site. | MN

**A entry level inspection class ROV with room to grow. Our most affordable ROV system features a compact topside ROV control case with removable touch-sensitive PC tablet.**

The Oceanus Mini Lite ROV system is independently certified for dive missions to a maximum standard depth of 305 m (1000 ft). This feature-rich inspection class ROV is ideal for vessel and infrastructure inspection, locating and assisting ghost gear retrieval or visually documenting evidence. A reduced footprint and ease of setting up, deployment and flying make this user-friendly ROV system the choice of novice and experienced pilots alike.

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, ghost gear retrieval
- ROV weight of 8.62 kg (19 Lb)
- Power over tether design
- Depth rating of 305m (1000ft)
- Up to 4 knot top speed\*
- 2 x 1500 lumen lights
- 1080p high definition camera
- Extremely compact topside weighing 7.39kg (16.3 Lb)
- Removable touch-sensitive 64GB solid state drive tablet with a 10.1" viewing screen. MarineNav's proprietary Flight Control System software installed.
- Topside features AC power in, two wifi antennae, two USB ports, MarineNav's Multiport, Isometer, tablet recharging cables.
- A one-year limited warranty extended to MarineNav topside components (excluding the tablet). Conditions apply.\*

| MN  
**OCEANUS**  
**Mini** LITE  
REMOTELY OPERATED VEHICLE



Includes the Oceanus Mini-Lite ROV, Topside ROV control case with touch-sensitive removable tablet with MarineNav FCS-Lite operating system pre-installed.

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# Oceanus Mini Lite 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)
Maximum Speed*	4 kn
Topside Unit Weight	7.39 kg (16.30 Lb)
ROV Weight*	8.62 kg (19.00 Lb)
Approximate Total Shipping Weight†	16.01 kg (35.30 Lb)
ROV Dimensions	521 mm (20.5") long, 279 mm (11.5") wide, 273 mm (10.75") height
Topside Dimensions (ext)	401 mm (15.8") long, 307 mm (12.1") wide, 173 mm (6.8") 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	Tablet features a 10.5" Touch panel, (full daylight readable), 1920 x 1280 resolution
Data Storage	64 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	Touch-sensitive interface on removable tablet, or optional system upgrade of a 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.
Settings	Internally saved, persist through power cycles
Tether System	Optional rapid deployable, neutrally buoyant tether with water-tight cable connections. Optional tether deployment system available
Available Tether Length	System upgrade to 500m (1640.4 ft) maximum tether length
Available Accessory Attachments* ▲	Single axis manipulator arm, USBL, Hull crawler, Metal thickness gauge, RS485 based sonar and accessories

\* The Oceanus Mini Lite topside is protected by a one-year limited warranty (not including the third-party tablet. Tablet is protected by third-party manufacturer's warranty). Limited Two year warranty is available to the MarineNav Oceanus ROV when 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 ROV unit, and topside.

‡ 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.

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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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 10.21 KG

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# Oceanus Mini ROV System

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A00159 MN-Mini-Specifications-December 2022-PR10

**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 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\*



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

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A00159 MN-Mini-Specifications-December 2022-PR10

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 <sup>■</sup>	10.8 kg (23.8 lbs)
Approximate Total Shipping Weight <sup>†</sup>	38.56 kg (85.00 lbs)
ROV Dimensions	520 mm (20.47") long, 293.3 mm (11.55") 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	+/- 120° Pitch (vertical rotation)
Camera Focus Range	Fixed focus 4" to infinity
Camera Field of View	120° 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 Marinenev 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 ROV System

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A00159 MN-Pro Specifications-December 2022-PR10

## 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.)<sup>†</sup>, 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 ROV 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)<sup>†</sup>
- Power over tether design
- 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)
- 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 Plus ROV,  
18.5-inch topside control case and Oceanus Joystick

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# Oceanus Pro ROV System

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A00159 MN-Pro-Specifications-December 2022-PR10

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 <sup>†</sup>	18.6 kg (41.0 lbs)
ROV Weight <sup>‡</sup>	17.91 kg (39.5 lbs)
Approximate Total Shipping Weight <sup>†</sup>	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
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 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 Ports	2 USB, 1 LAN (Ethernet), 1 Multi Port
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)

Specifications - continued	
Topside Control Case	Rugged waterproof case, transport requires one person, IP 65 when closed, IP 62 when open
AUX Ports	3 auxiliary ports: capable of Ethernet/12VDC/24VDC/Manipulator
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, 360° Rotating manipulator arm, USBL, Hull crawler, Metal thickness gauge, Ethernet based sonars and accessories.

<sup>†</sup> The Oceanus Pro 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.

<sup>\*</sup> 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.

<sup>\*</sup> Maximum speed test conducted with absence of all ballast weights.

<sup>†</sup> Approximate weight with standard primary 15" TFT active matrix panel.

<sup>‡</sup> Estimated dry weight.

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

<sup>†</sup> Some accessories require use of the MarineNav multi port communication system.

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

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# Oceanus Ultimate ROV System

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A00159 MN-Ultimate-Specifications-December 2022-PR10

**Distinctive eight vectorized thruster design and an optional autopilot mode<sup>Δ</sup> provides ultimate maneuverability when it's needed most. Dual full HD1080P video cameras provide extensive front and rear views.**

A unique eight vectorized thruster configuration capable of sustained pitch and roll maneuverability. Freedom of motion offers precision when using on-board camera systems, manipulators, sonar systems, and other attachments. An autopilot<sup>Δ</sup> feature is available when the ROV is integrated with optional DVL ROV accessory, allowing users the ability to follow preset vector-based mapping waypoints measured against collected DVL data. Users can create flight patterns using preset variables including ROV flight coordinates, speed, and depth variables which can be reviewed and edited prior to conducting an ROV flight mission.

The MarineNav Oceanus Ultimate ROV offers these standard features;

- Unique eight vectorized thruster design provides lateral movement and pitch and roll for precise piloting capabilities
- Choose between 'full manual control', 'autopilot assisted flight' and 'autopilot' ROV piloting modes<sup>Δ</sup>
- Numerous attachment options through MarineNav's topside Multi-Port. Operate up to three attachments simultaneously
- Power over tether design
- Up to 4 knot top speed (with performance float block)\*
- 6 x 1500 Lumen front lights, 2 x 1500 Lumen back lights
- Two on-board 1080p high definition cameras including a front-facing camera with 180° vertical tilt functionality and a back-facing fixed position camera. Camera functions controlled through touch sensitive interface commands
- Topside with 18.5" widescreen video display and 10.1" TFT panels
- Limited 2-year warranty and MarineNav's Peace of Mind Guarantee\*

<sup>Δ</sup> 'Autopilot Mode' is available when the Ultimate ROV system is integrated with an optional DVL ROV accessory



Oceanus Ultimate ROV system includes Ultimate ROV, 18.5-inch topside control case and optional Oceanus hand controller (v4)



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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	6 Degrees of Freedom, full vertical, horizontal and lateral movement. Full pitch and roll control: Auto depth, Heading hold and ROV stabilize modes. Optional position hold mode with addition of DVL / USBL ROV accessories.
Autopilot (Optional DVL ROV accessory required)	Available ROV upgrade option of integrated compact DVL and integrated GPS topside (compatible with USBL or other sub-sea positioning systems)
Depth Rating †	305 m (1000 ft), Optional upgrade to 500 m (1640 ft)
Maximum Speed *	4 kn
Topside Unit Weight	20.65 kg (45.5 lbs)
ROV Weight ■	30.25 kg (66.7 lbs)
Approximate Total Shipping Weight †	90.00 kg (200.00 lbs)
ROV Dimensions	826 mm (32.50") long, 565 mm (22.25") wide, 330 mm (13.00") height
Topside Unit Housing Material	Ultra high density polyethylene, neoprene o-ring and ABS latches
ROV Housing Material	Anodized marine grade aluminum, protective coating available
Lights	8 x 1500 Lumen lights (6 x 1500 Lumen front lights, 2 x 1500 Lumen rear lights)
Cameras	Internal Front Camera: 1080p full HD with tilt control Internal Rear Camera: 1080p full HD fixed position
Camera Tilt Angle	Front camera: +/- 180° Pitch (vertical rotation) front camera. Rear camera: fixed position
Camera Focus Range	Front: From the face of the housing depth dome to infinity with manual control Rear: 6" to infinity fixed focus
Camera Field of View	120° field of view
Primary Display	18.5" TFT active matrix panel, 1600 nits brightness (full daylight readable), 1920 x 1080 resolution. Optional 2000 nits available
Secondary Display	10.1" TFT Touch active matrix panel, 1000 nits brightness (full daylight readable), 1280 x 800 resolution
Topside Ports	3 USB, 1 LAN (Ethernet), 1 Multi Port
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: 200-240 VAC, 3000 watts. Available option 90-240 VAC input. System fully operational in 60 seconds
ROV Power	Power over tether
ROV Control	MarineNav Ultimate hand controller with pitch and roll control (IP 65)

Specifications - continued	
Topside Control Case	Waterproof case made of ultra high density polyethylene, neoprene o-ring and ABS latches, IP 65 when closed, IP 62 when open, transport requires one person
Auxiliary Ports	4 auxiliary ports supporting: Ethernet / Spare pair / Manipulator / USB / 12V / 24V DC
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
Remote Fleet Management	Available as an optional upgrade. Monitor multiple ROV systems within your fleet. Track real-time GPS positioning on an interactive map. View remote health reporting. Export data to .CSV format
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, 360° Rotating manipulator arm, USBL, Hull crawler, Metal thickness gauge, RS485 or Ethernet based sonars 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

† ROV maximum depth rating of 400 m is available as an optional upgrade. Diving beyond 305 m requires fitting ROV with MarineNav's Deep Water Buoyancy float block. Contact a MarineNav representative for full details and current pricing

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

■ Estimated dry weight (Estimated dry weight does not include ballast weight system)

† Includes empty ROV case weight of 26.3 kg / 58 lbs. (Choice of available options will change overall shipping weight)

+ Some accessories require use of the MarineNav multi port communication system

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8 POWERFUL VECTORIZED  
THRUSTER DESIGN  
PROVIDE LATERAL, PITCH  
AND ROLL MOVEMENTS

6X 1500 LUMEN  
FRONT LIGHTS  
2X 1500 LUMEN  
REAR LIGHTS



ROV POWERED  
OVER TETHER



FRONT & REAR  
1080P HD CAMERAS

TOP SPEED UP  
TO 4 KNOTS

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