

# Oceanus ROV System – Accessories

## 3rd Party Accessories

Designed,  
engineered &  
manufactured  
on-site. | MN

A00034\_Oceanus ROV\_3rd\_Party\_Accesories\_V2

MarineNav Oceanus ROV units are designed to operate with a wide range of third-party accessories. Most accessories are easily attached to the ROV chassis with accessory functions displayed automatically through the topside unit software. These accessories greatly increase the functionality of the ROV, allowing a user to complete a wide variety of tasks.

### Oceanus ROV Accessory Compatibility Chart

	12 V DC	15 V DC	24 V DC	Spare Twisted Pair (Ex. RS485)	Ethernet
<b>Oceanus Hybrid &amp; Hybrid Plus ROV</b>	✗	✓	✗	✗	✗
<b>Oceanus Mini ROV</b>	✗	✓	✗	✓	✗
<b>Oceanus Pro &amp; Pro Plus ROV</b>	✗	✓	✗	✓	✗
<b>Oceanus Ultimate ROV</b>	✓	✗	✓	✓	Two Ports (Max BW 40 Mbps)



**Oceanus ROV's can be customized to accept specific 3<sup>rd</sup> party accessories just ask.**



→ Tritech Gemini 720im Multibeam Sonar

*\* While we strive to ensure the accuracy of all items and descriptions in this document, this is not always possible. Specifications, options, and availability subject to change with out notice. Errors and omissions excepted. We reserve the right to limit quantities.*

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## Sonar Systems

Sonar systems are ideal attachments allowing increased ROV functionality in low visibility situations. Each class of MarineNav Oceanus ROV system has been designed to operate with a sonar attachment. Check ROV specifications for compatibility.

• *Some examples' of popular sonar systems compatible with Oceanus ROV's are listed below.*

### Tritech Gemini 720im Multibeam Sonar



The **Gemini 720im** fuses Tritech's Gemini multibeam technology with Tritech's Micron technology to create the world's smallest multibeam imaging sonar.

### Imagenex Model 852-GS



The **Imagenex Model 852-GS** was designed for use with the smallest of ROV's and inspection vehicles. Gyro-stabilization is integrated directly into the sonar head, so the sonar is no longer compromised by the blurring effects of host vehicle rotation.

### Tritech Micron Sonar (DST)



The **Tritech Micron Sonar** is the smallest digital CHIRP sonar in the world and is ideal for use by small ROV's, as a first-rate obstacle avoidance sonar in miniature form.

### Blueprint Subsea Oculus



The **Blueprint Subsea Oculus** Real-time, high-frequency multibeam imaging sonar. At 1m range the sonar offers a world-class 97Hz update rate to produce high-quality, video-like imagery.

**With a continually growing list of sonar manufactures and models available, there are too many to list. Please contact us with any questions about a sonar system you might have in mind.**

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## Metal Thickness Gauge

Ultrasonic thickness gauges can be used to measure metal thickness even through coatings. The probe does not need to touch the surface under test, as measurements can be taken through 5 mm (0.2 inch) of water. Readings are not influenced by the probe orientation.

### Cygnus Mini Rov Mountable



The Cygnus Mini ROV Mountable thickness gauge has been specially designed to be mounted onto small observation ROV's with or without a manipulator facility. This mountable subsea thickness gauge will allow the operator to carry out an ultrasonic thickness measurement in areas that have previously been unfeasible using larger ROV's or divers.

**If you have any questions about specifications or compatibility of a specific metal thickness gauge manufacturer or model, please contact us.**

## Tracking & Positioning Systems

Underwater searches and surveys often require that the precise position of the ROV be known so that observations can be geo-referenced or the position can be relocated on a future dive.

### DVL, USBL & GPS Systems



MarineNav supports several acoustic and tether-based position tracking systems.

**If you have any questions about specifications or compatibility of a specific tracking & positioning system, please contact us.**

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## Dual & Multi Axis Manipulator Arms

Primarily used by the military, search and rescue and law enforcement sectors, a dual or multi axis manipulator arm allows an ROV user to cut, grab, twist and turn an object. The high closing force and 360-degree rotation give the ROV user the added ability to perform a variety of tasks at multiple angles deep underwater. The articulating gripper is available with a series of interchangeable jaw sets such as a cutter, trident, v-jaw, parallel and sampler.

### Blueprint Reach Alpha 5 Mini



The Alpha 5 is a tough and reliable multi-function electric manipulator for harsh environments. With high accuracy joint positioning (0.1°) and a master/slave topside controller, the Alpha 5 is the most advanced manipulator for the portable ROV community. A must for operators in the new era of close inspection work and complex intervention.

**MarineNav supports several dual and multi axis manipulator arm manufacturers. If you have any questions about specifications or compatibility of a specific dual or multi axis manipulator arm, please contact us.**

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