

# NAVAJO Portable ROV System

Navajo is suitable for offshore and inshore use. The compact size and weight allows it to be transported and deployed from a small vehicle, yet it is large enough to provide a stable platform for video and sonar surveys.



- High Reliability, Easy Maintenance
- Colour Zoom & Low Light Mono Cameras
- High Power LED Lighting
- 300 Metre / 1000 ft Depth Rated
- Auto-Heading and Depth
- 55 kgf / 121 lbs Axial Thrust
- Video Overlay
- 3.5 Knots Forward Speed
- Laser Scaling System
- 10 kg / 22 lb Payload with greater options
- Tools and Manipulator Options

Navajo has been designed to carry and control instruments such as CP & UT sensors, dedicated task-specific work skids and small manipulators making this vehicle more than just an “eyeball”. Enhanced reliability and low cost of purchase and ownership have been achieved by the elimination of cables and connectors, Sub-Atlantic’s unique “wet” thruster and a simple modular design using corrosion resistant plastics.

## System Components

### Surface Control Unit

- Portable flight case
- Integral flat screen monitor
- PS2 controller
- video overlay

### Lighting

- 3 off 30-Watt Halogen lamps, dimmer controlled on 2 circuits

### Camera Facilities

- Integrated low light monochrome & colour zoom cameras

### Frame

- High Impact Resistance & Buoyant polypropylene with stainless steel fasteners

### Tether

- Different tether options available

### Tooling & Manipulators

- Optional 1, 2 or 3 function electrical manipulator function
- A range of tools have been designed to maximise intervention capability



## Navajo System Specificationem Specifications

### ROV General Specification

Depth Rating	300 msw (1000 fsw )
Payload:	10 kg (22 lb) lead ballast standard, 17 kg (37.5 lb) option
Height	411 mm (16.2 in)
Length	1025 mm (40.4 in)
Width	628 mm (24.7 in)
Mass in Air	42 kg (93 lb)
Max. Thrust @ 0 Knots with zero voltage losses:	
Forward	55 kgf (121 lbf)
Lateral	18 kgf (40 lbf)
Vertical	18 kgf (40 lbf)
Max.Velocity/Operational Current:	
Forward	1.75 m/s (3.5 Kt)
Lateral	0.75 m/s (1.5 Kt)
Vertical	0.75 m/s (1.5 Kt)
Turning Rate	120 Degrees per Second (approx)

### Surface Control Unit (SCU) General Specification

Height (operation)	600 mm (23.6 in)
Height (transport)	353 mm (13.9 in)
Width	510 mm (20 In)
Depth (operation)	630 mm (24.8 In)
Depth (transport)	673 mm (26.4 In)
Mass	41 kg (90 lb)
ROV/SCU Power Requirement	80-264Vac, 1ph, 47-440Hz 3.0-4.8kW

### Tether and Main Lift Cable Dimensions

Tether (standard, 94kg/km)	14 mm / 0.55 in. diameter
Tether (light)	14 mm / 0.55 in. diameter
Tether (neutral)	20.5 mm / 0.80 in. diameter

*The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.*



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