



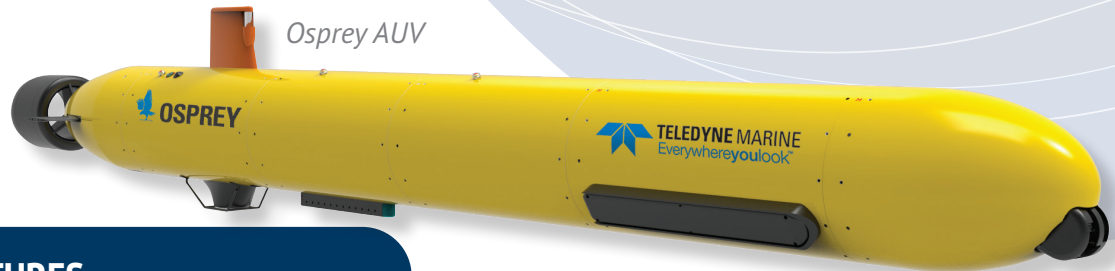
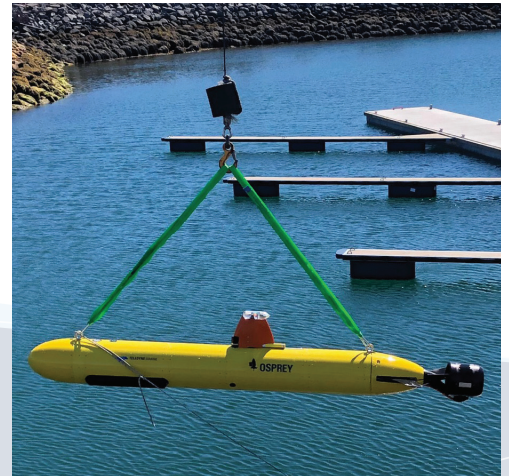
# OSPREY

Autonomous Underwater Vehicle

## Flexible Solutions for Varied Applications

The Osprey AUV is built upon the proven Gavia modular design. The Osprey has a 324mm/12¾" diameter to accommodate additional energy and sensor options to meet demanding applications with a 2000m depth rating. The Osprey utilizes a fully modular design based on the Teledyne QuickLock mechanism and Teledyne Vehicle bus.

Features include an efficient rim drive thruster, removable data pod, increased capacity battery modules, enhanced obstacle avoidance capability and more capable and customizable sensors, autonomy and payloads to meet a variety of mission requirements from defense, commercial and scientific users.



Osprey AUV

## PRODUCT FEATURES

### Features

- Fully modular design
- 2000m depth rating
- Extended endurance options up to 24 hrs+
- Utilizes proven Gavia mechanical and software design
- Utilizes proven Gavia chart-based graphical user interface
- Wide array of additional sensors available including SAS, SSS, MBES, SBP, and camera systems
- Thruster option includes low noise, highly maneuverable rim drive thruster
- Highly accurate navigation with optional USBL aiding

### Applications

#### Commercial:

- Pre/post Construction Support
- Pipeline Inspection

#### Defense

- Mine Countermeasures (MCM)
- Rapid Environmental Assessment (REA)
- Search and Recovery (SAR)
- Sonar Training

#### Scientific

- Oceanography
- Marine Archeology



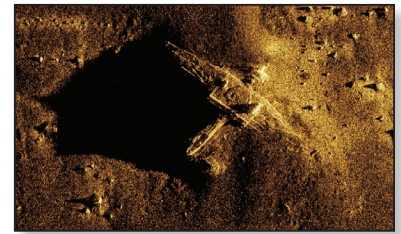
# Osprey Autonomous Underwater Vehicle

## TECHNICAL SPECIFICATIONS

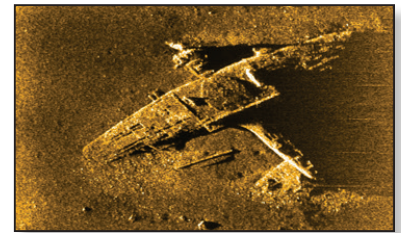
SPECIFICATIONS	
<b>Length</b>	Up to 5 m (configuration dependent)
<b>Weight in Air</b>	Up to 400 kg (configuration dependent)
<b>Diameter</b>	324 mm / 12 3/4"
<b>Depth Rating</b>	2000m
<b>Battery Module</b>	4.4 kWh lithium ion rechargeable cells per module. Multiple battery modules can be used on the vehicle at a time
<b>Max Speed</b>	> 5 knots
<b>Endurance</b>	Dependent on speed and exact configuration. Typical configuration over 24 hours at 3.5 knots with two rechargeable battery modules. Vehicle can be operated with up to 3 batteries for increased endurance or batteries can be field swapped for continuous operations.
COMMUNICATION	
<b>Wireless LAN</b>	IEEE 802.11g compliant
<b>Satellite Communications</b>	Full global coverage via Iridium link
<b>Acoustic Modem</b>	Tracking and status updates
NAVIGATION	
	High accuracy DGPS ready receiver
	High-precision DVL-aided Inertial Navigation Systems (INS) from Exail with Teledyne RDI Doppler Velocity Log (DVL) and direct sound velocity meter.
	Positioning accuracy can be maintained over longer duration deployments by utilizing Ultra Short Baseline (USBL) (optional).

*\*In typical conditions*

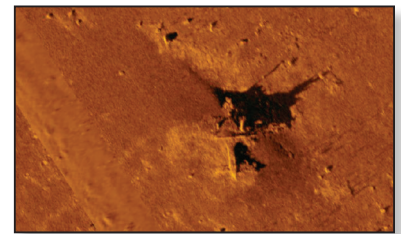
**Wireless LAN**  
**Satellite Communications**  
**Acoustic Modem**



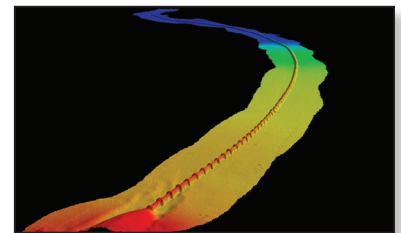
*Synthetic Aperture Sonar (SAS) image*



*1600 kHz sample Side Scan Sonar data image*



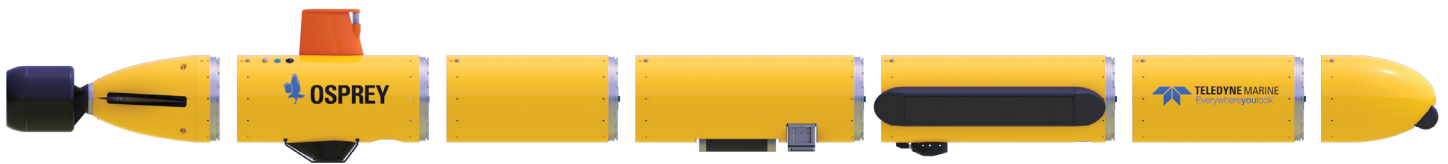
*Side Scan Sonar with Gap Fill*



*Teledyne RESON T20 multibeam sonar*

## Osprey AUV Modularity

The modular construction of the Osprey AUV allows the user to conduct a variety of missions with field-changeable modules. Additional Osprey AUV modules can be purchased at later dates to increase capability as mission requirements evolve.



**TELEDYNE MARINE**  
GAVIA ehf.  
Everywhereyoulook™

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