

# Artemis

## Autonomous Underwater Vehicle

Phoenix International's Artemis, "Goddess of the Hunt", is an Autonomous Underwater Vehicle (AUV) that can work to depths of 5,000 meters (16,400 ft) and has three mission payload configurations: Acoustic, Optical, and Geophysical.

The Artemis AUV is the ideal system for quality survey work requiring precision navigation and terrain following capabilities, is highly portable, and supports a variety of missions, including:

- Archeological Surveys
- Pipeline Surveys
- Geophysical Surveys
- Search Operations
- Habitat & Benthic Surveys
- Route & As-built Surveys
- Mineral Surveys
- Optical Documentation

### General

Max. Operating Depth	5,000 meters (16,400 ft)
In-Air Weight	1,764 lbs /800 kg
Speed	2—4 knots
Dimensions	Length: 17.7 ft/5.38 m Diameter: 21 inches/0.53m
Endurance	~20 hours @ 3 knots
Manufacturer	Bluefin Robotics Corporation

### Contact us to learn more

[www.phnx-international.com](http://www.phnx-international.com)

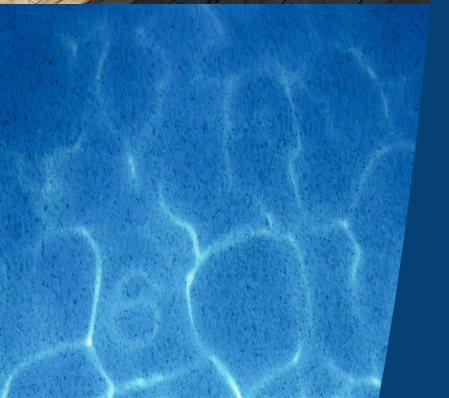
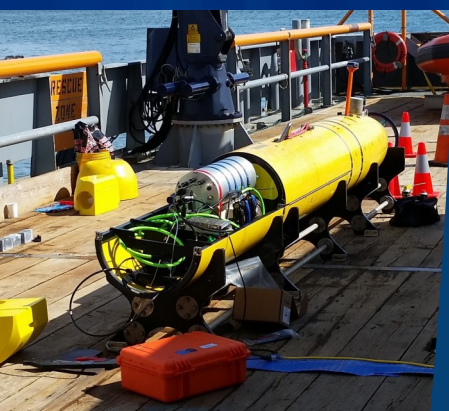
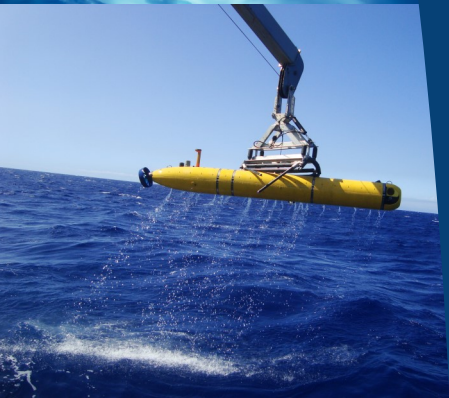
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# AUV Subsystems

## Navigation

Inertial Navigation System  
 ADCP/Doppler Velocity Log  
 Ring Laser Gyro  
 Acoustic Positioning System  
 Depth Sensor  
 GPS  
 Sound Velocity Sensors  
 Backseat Control Architecture

Kearfott Custom KN-6053  
 Teledyne RDI Workhorse Navigator 300kHz  
 Kearfott T24 Monolithic RLG  
 Loadstar Gyro USBL (8084)  
 Paroscientific 8CB7000-I  
 Thales/Astech DG14  
 Valeport Mini SVS  
 Bluefin Robotics

## Communications

Acoustic Modem  
 RDF Beacon  
 RF Serial Link  
 Iridium Satellite Modem  
 Ethernet Direct

Sondardyne AvTrak 6 (8220)  
 Bluefin-RDF  
 Freewave FGRMT  
 NAL 9601-D-1  
 Cirexx CPU 1232 Ethernet

## Acoustic Payload

Multibeam Echosounder  
 Side Scan Sonar  
 Sub-bottom Profiler

Reson 7125 (400kHz)  
 Edge Tech 2200-M (120/410 kHz)  
 Edge Tech DW2-16 (2-16kHz)

## Optical Payload

Camera  
 Sensor  
 Resolution

Prosilica GX1920  
 Sony ICX674  
 1936 X 1456 pixels

## Geophysical Payload

Magnetometer  
 Self Potential Sensor  
 CTD  
 Multi-beam Echosounder

Honeywell HMR2300 3-axis  
 magneto-resistive  
 Ultra Electronics (Ag-AgCl)  
 AML Oceanographic SmartX  
 Reson 7125 (bathymetry & backscatter)

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