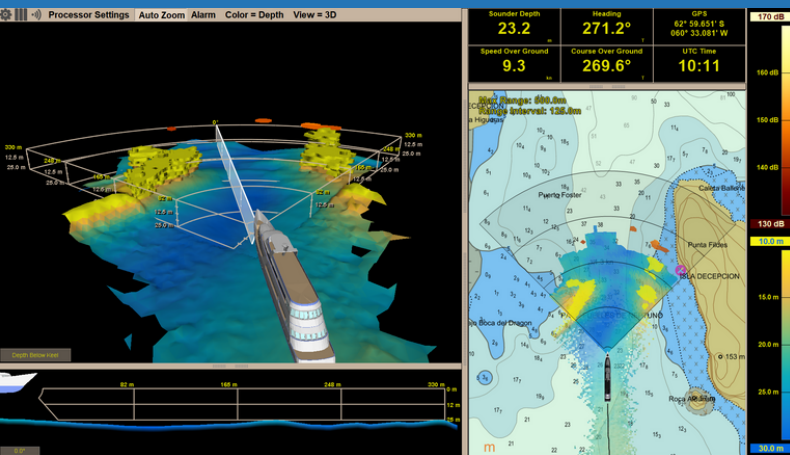# FARSOUNDER

Argos 3D Forward Looking Navigation Sonar for USVs

3D Omni View

Chart View

Argos series sonars enable integration with machine interfaces to increase situational awareness. They detect in-water obstacles and process a 3D bathymetric view ahead of the USV. This is done with a machine interface for autonomous navigation or integration and a GUI for human-in-the-loop viewing or operation. Argos allows vessels to navigate more effectively, and in turn, expands USV applications and promotes safer marine environments.

All Argos Navigation Sonars do all the data processing internally and have an Ethernet-based machine interface. USV developers can access this fully processed information used in our display software via an SDK.

"The detection of hazards to navigation is accomplished in real time by the FarSounder system itself directly from the sonar data, eliminating any possible delay that may be incurred as a result of post-processing sonar data."

R GLENN WRIGHT, VISUAL AIDS TO NAVIGATION

Local History Mapping

FarSounder's Argos technology takes the real time information previously gathered and generates a depth map of everywhere the vehicle has been using the software's built-in Local History Mapping feature. This data is saved for future use and recalled when returning to a place previously recorded. If there is a need for a complete hydrographic survey experience, are able to connect to the QPS ecosystem via Qinsy.

www.FarSounder.com
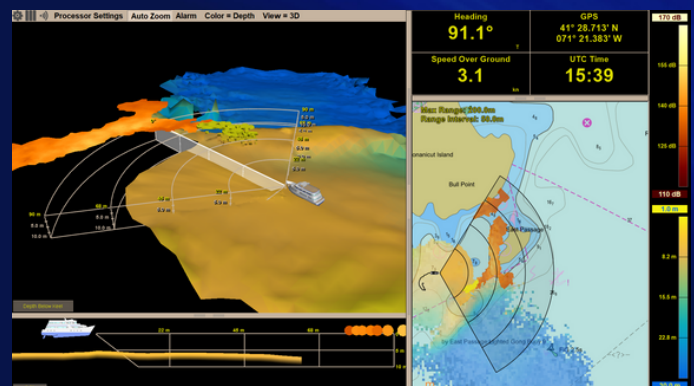
System Specifications

|	
Bottom Mapping Range	8x Water Depth
Maximum Depth Detection	85m (280ft)
AIS Overlays	✓
ARPA Overlays	✓
User Defined Automated Alarms	✓
Roll/Pitch Stabilization	+/- 20°
Maximum Output Power	<1500 Wrms
Operating Frequency	61 kHz
Operating System	Windows 10/11
Angular Accuracy	~1.6°

REAR OR TOP MOUNT AVAILABLE
8 in (203 mm)

6.4 in (162 mm)
Weight 29 lbs (13.5 kg)

ARGOS350

90° up to 350m range

Up to 18 Knots

10 in (254 mm)
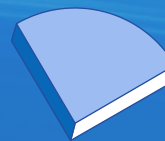
10 in (254 mm)
Weight 72 lbs (32.6 kg)

ARGOS500

120° up to 200m range

90° up to 500m range

Up to 20 Knots

8 in (203mm)

9.75 in (248 mm)
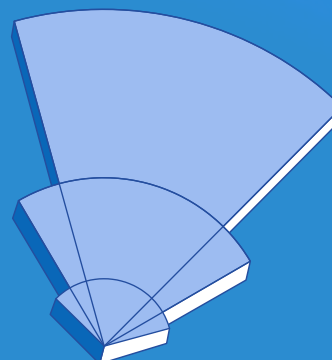Weight 78 lbs (35.3 kg)
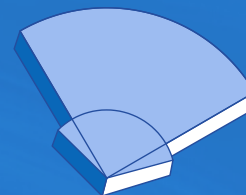
ARGOS1000

120° up to 200m range

90° up to 500m range

60° up to 1000m range

Up to 25 Knots

www.FarSounder.com