

PORTABLE ACOUSTIC SONOBUOY RANGE

PRODUCT DESCRIPTION

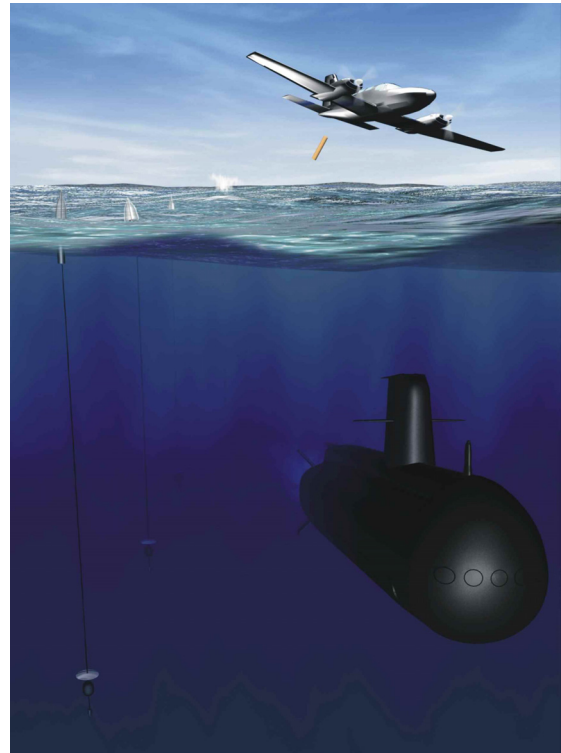
L-3 Nautronix develops sophisticated solutions to measure and communicate data through water. The company specialises in applications involving underwater test and evaluation and through-water communications. The Portable Acoustic Sonobuoy Ranging (PASOR) system is based on an application recently provided to one of our customers.

PASOR captures, measures and analyses, in near real time, a vessel's acoustic signature.

The portability of the PASOR system provides the user with the ability to deploy a measurement range to an area of operational interest. This provides the opportunity to conduct self noise assessments in an operational environment with near real-time analysis for immediate implementation.

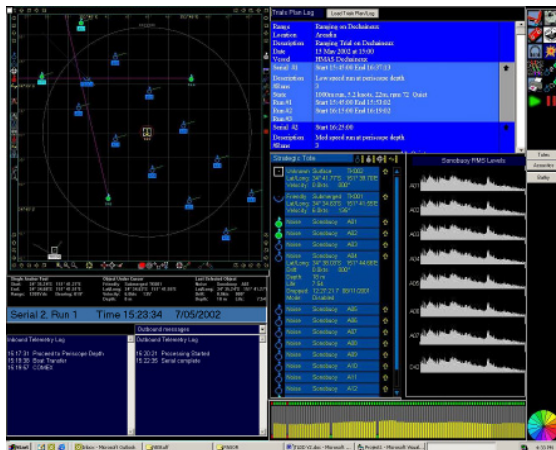
The system is able to be deployed from airborne and surface platforms and utilises standard noise measurement buoys as in-water sensors.

PASOR allows the operator to derive Broadband and Narrowband Source Level information.



FEATURES

- Portable
- Rapidly deployable
- Vulnerability assessment in the operational environment
- Acoustic signature measurement through the full parameters of the platform
- Signature results and a ranging summary are calculated in-situ
- Near real time analysis of range results
- Over 8 hours of raw recording capability (limited only by available disk space)



PASOR Tactical Display Layout (Tote View)



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PASOR

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KEY FEATURES

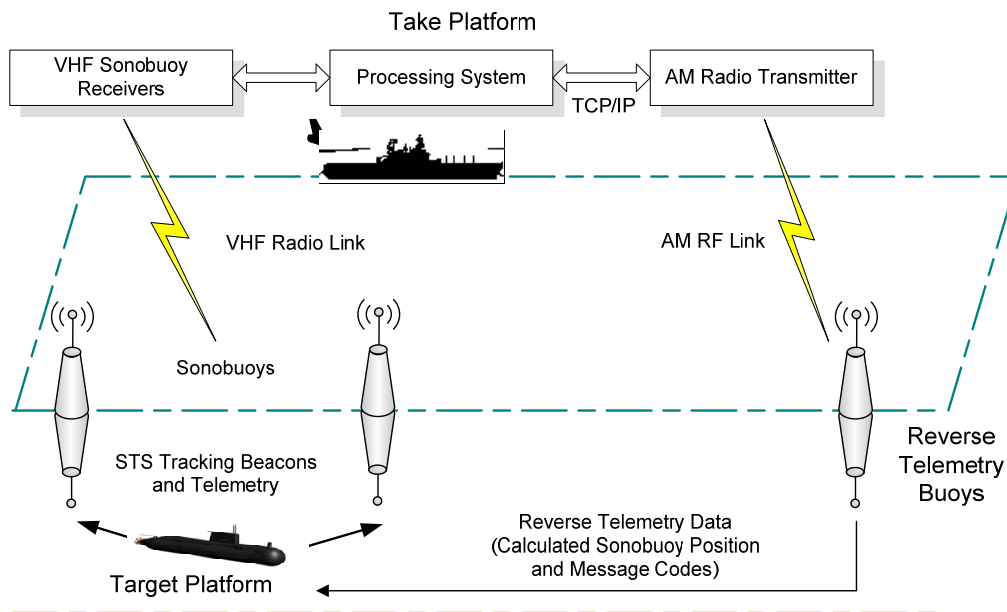
The PASOR system comprises the following components:

Functional Component	Take Platform System	Target Platform System
Ranging Planning & Control	✓	
Tactical Display	✓	
Analysis Suite	✓	
Data Acquisition System	✓	
Data Export	✓	
Data Replay	✓	
Telemetry	✓	✓
Tracking	✓	✓
Communications	✓	

SYSTEM PERFORMANCE

The PASOR System has the following performance capabilities:

- Maximum error of 2 dB RMS measured at 1 m from the sonobuoy
- Ability to measure ambient conditions down to the Cato Sea State Zero Curve
- Ability to measure target signature in the band 5 Hz to 20 kHz
- Receive signals from SSQ-53F (GPS Mod) and equivalent type sonobuoys
- Simultaneously receive and display signals from up to 7 sonobuoys
- Over 8 hours of raw recording capability (limited only by available disk space)
- Communicate with submerged target platform via reverse telemetry buoys



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