

L-3 Nautronix

THS

TACTICAL HYDROGRAPHIC SYSTEM

PRODUCT DESCRIPTION

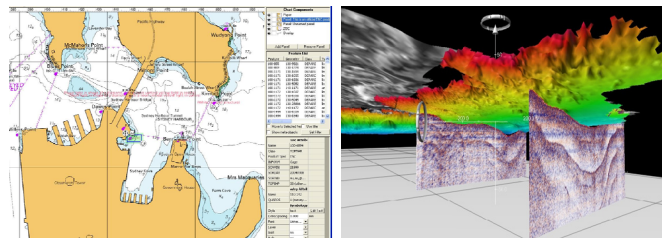
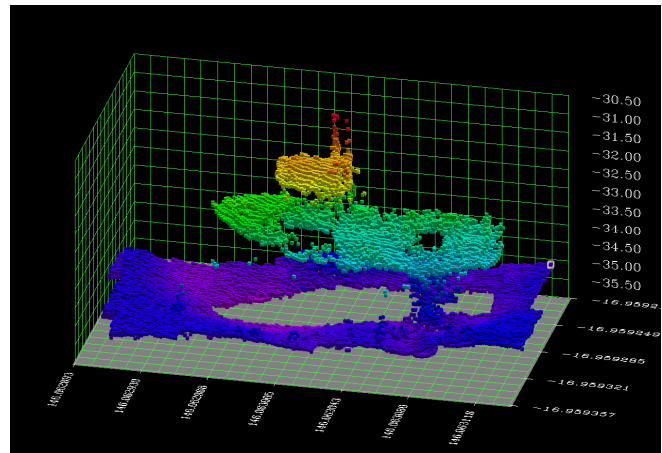
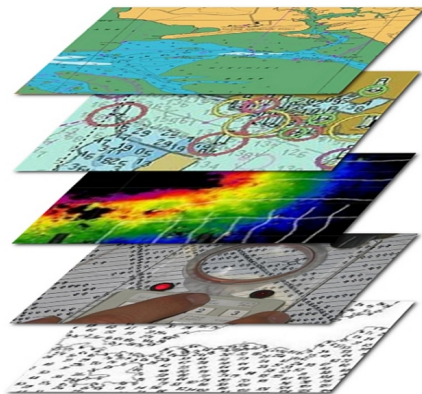
The Tactical Hydrographic Survey (THS) is designed to provide an off the shelf solution for obtaining Hydrographic Data. THS provides a three dimensional model of the sea floor using multi-beam, single beam, and side scan sonar imagery. The data quality is sufficient to produce internationally recognised navigation charts and can be deployed on vessels of opportunity.

To develop the THS, L-3 Nautronix obtained and collated technical and system information from many suppliers of specific COTS Hydrographic systems, and conducted an analysis and evaluation of existing naval and commercial solutions.

The THS delivers a solution that reduces stress and fatigue on minimally-manned crews whilst maximising the rate of effort of the vessels and provides a value for money solution to the customer.

The system detects significant features that satisfy IHO S-44 survey requirements and can be used in Mine Warfare and Rapid Environmental Assessment applications.

The processing subsystem will permit data merging and fusing, processing and conduct of data verification and validation throughout the data life cycle. An integrated data management system, area based CUBE processing systems, and the ability to maintain original data and reprocess all data anytime are included.



KEY FEATURES

- Suited for vessel of opportunity
- Fully integrated and semi automated systems providing data collection through to final product, including Tactical Charts.
- Automated Processing systems
- Allows data to be reprocessed easily
- Minimal manning requirements
- Scalable System for expansion of other sensors
- Open architecture allowing for future expansion
- Use of "Best in Class" systems
- Suitable for Mine Warfare and Rapid Environmental Assessment applications



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KEY CHARACTERISTICS

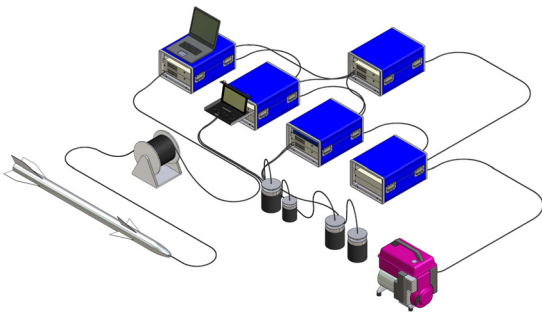
The Tactical Hydro System has the following key characteristics:

- Designed for use on Vessel Of Opportunity
- Minimal manning requirements
- Suitable for Shallow water < 100m
- Automated Data Collection and Processing
- Flexible open architecture design allowing Inclusion of new technologies and sensors
- Use of "Best in Class" systems

COMPONENTS

The Tactical Hydro System Comprises the following major components:

- Survey Planning Systems
- Integrated Navigation Unit (providing motion ,position and heading)
- Single Beam Echo Sounder
- Multibeam Echo Sounder
- Data Logging and Storage systems
- Portable Sidescan Sonar



THS Setup

OPTIONS

The Tactical Hydro System has the following options:

- Power Generator and Uninterruptible Power Supplies
- Variable Output formats (GeoTIFF, ENC, AML , HTF, XTF, XML etc.)
- Sub Bottom Profiling
- Forward looking Sonar
- Minehunting CAD/CAC
- Integration of Third Party sensors
- Real-time Sound Velocity Profilers
- Communications Links to transfer data
- Training systems

SPECIFICATIONS

The Tactical Hydro System has the following performance capabilities:

- On-vessel generation of Product
- Lightweight and Portable Splash Proof Design
- Data Validation and Quality Control using CUBE and Data Visualisation techniques
- Seafloor Classification
- Human Factors Engineering
- Near Real Time Processing Capability
- Coordinating Systems processes for maximum performance and reduced interference

L-3 NAUTRONIX HYDROGRAPHIC EXPERIENCE

L-3 Nautronix and its sister companies L-3 Klein and L-3 ELAC have significant experience in the design and installation of Hydrographic systems.

L-3 Nautronix is the Prime Systems Integrator for the Australian Naval Program SEA1401 known as the SML Upgrade. This program will provide an upgrade to the shallow water surveying capability of the four RAN PALUMA Class Survey Motor Launches (SML), the supply of three Tactical systems and six portable Systems and all associated Systems Engineering required.

The upgrade shall enable the vessels to contribute to the Australian survey task annual Rate of Effort (ROE) and to more effectively perform the contingency roles detailed in higher level preparedness directives.

L-3 Nautronix

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