



# Isis Sonar

Sidescan Sonar Acquisition and Processing

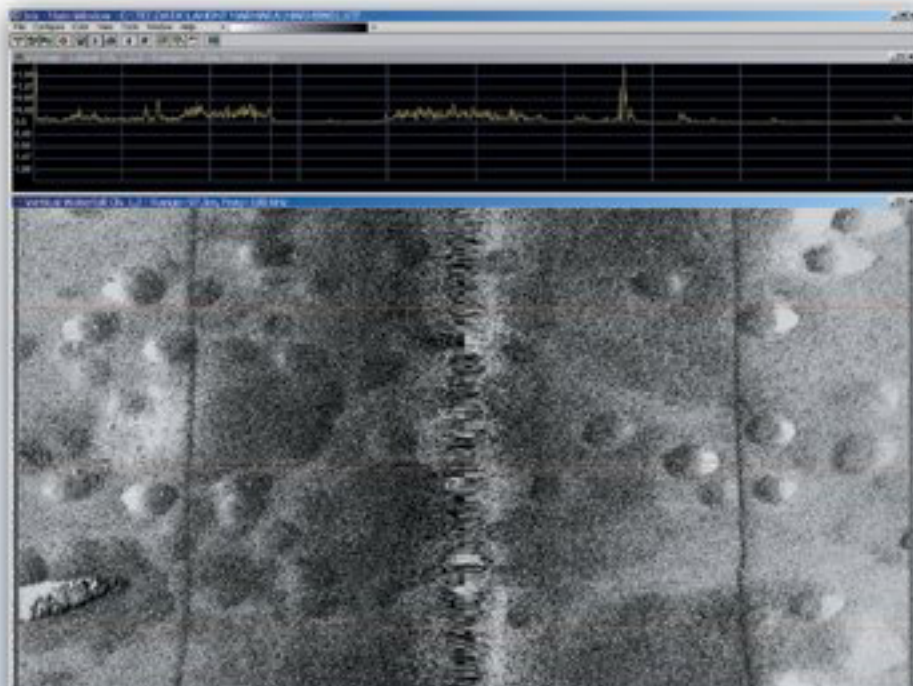


Integration

Acquisition

Processing

Mapping & Analysis

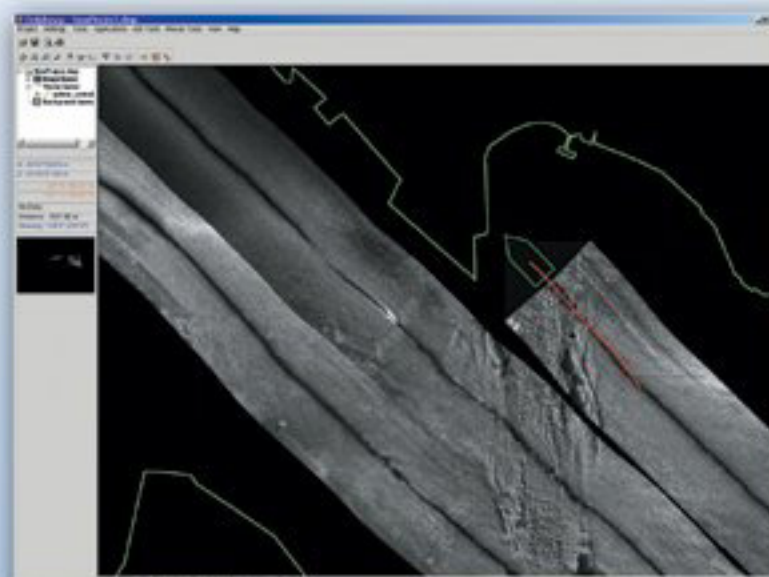


TEI Isis<sup>®</sup> Sonar continues to be the most advanced sidescan sonar acquisition system available today. Isis Sonar is the tool of choice for a variety of applications including: mine-hunting, hydrography, archeology, environmental studies, oilfield engineering, civil engineering, oceanography, and law enforcement.



## Quality Control

Isis Sonar offers a wealth of display options to ensure high data quality. Typical windows for monitoring raw sensor information include a waterfall display for the sonar imagery, a signal voltage display for each incoming ping, and a parameter display for navigation, motion sensor, etc., and file storage. A real-time link with TEI DelphMap<sup>™</sup> provides for on-line mosaic production, an invaluable tool for assessing seabed coverage and the quality of geo-referencing between adjacent lines.



## Reliable, Precise Data Acquisition

Isis Sonar systems are active throughout the world, incorporating over 20 years of field experience in hardware and software design. Incoming sidescan sonar and ancillary sensor data are time-stamped to millisecond accuracy, thereby ensuring the final data products can be properly corrected during processing.

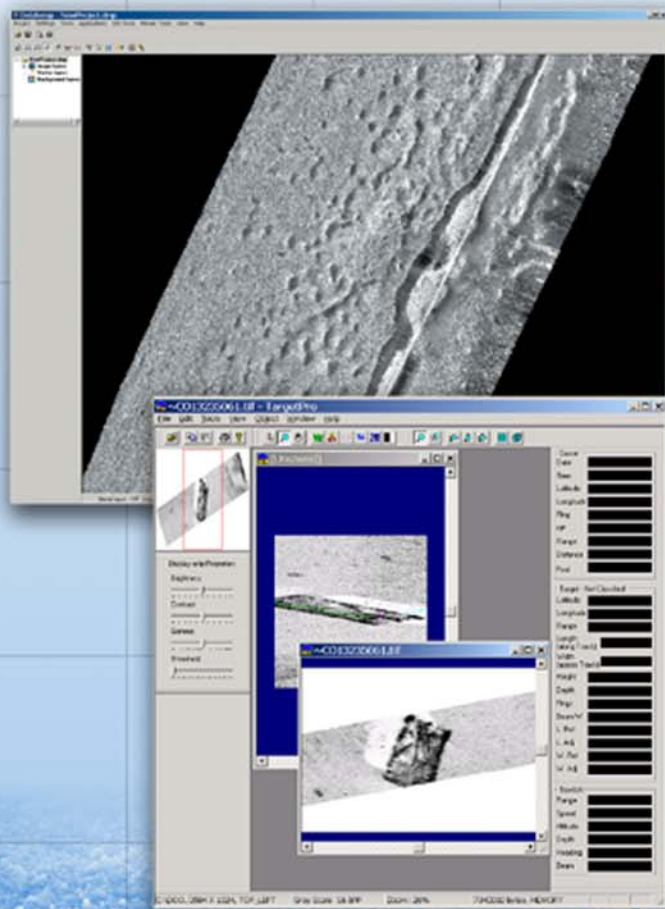
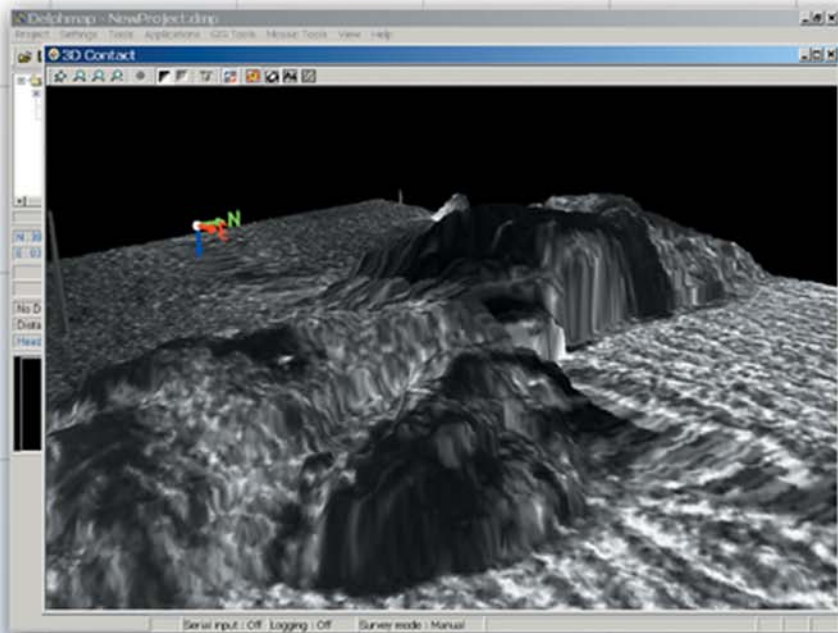
## Wide Compatibility, Easy Setup

Isis Sonar interfaces with any sidescan sonar available today. Analog or digital, regardless of the manufacturer -- we offer a custom interface that is intuitive to set up and is designed around the sonar's communication requirements. All data are stored in TEI's open XTF (eXtended Triton Format), an industry-standard, non-proprietary format.

# Isis Sonar

## Comprehensive Data Processing & Analysis

Numerous tools exist within Isis Sonar for correcting and analyzing data and generating reports. Bottom-tracking, time-varying gain, slant range correction, and layback may all be applied to the imagery on-screen without affecting the raw data being logged. Events, scale lines, and notes can be associated with the imagery. A powerful ASCII report tool allows practically any information stored in the XTF file to be extracted in user-defined formats.



## Real-time Mosaicking

A real-time mosaicking link exists between Isis Sonar and TEI's DelphMap GIS product. These mosaics may be overlain on navigation charts or other background information. Contours, navigation hazards, or contacts may be overlain on the mosaics as they are being built. Sidescan imagery can be draped over a DTM and viewed in a three-dimensional perspective.

## Target / Contact Capabilities

Isis Sonar can be augmented with TEI's TargetPro™, a powerful seabed contact capturing and analysis application. TargetPro offers a full suite of image processing, feature measurement, and geocoding options. Collation of all information associated with contacts is easy, with a built-in ASCII Report tool. Saved contact positions are automatically registered in DelphMap when the real-time mosaic options is open.

## Triton Elics International

TEI Headquarters  
125 Westridge Drive  
Watsonville, California 95076 USA  
Tel. ++(1) 831 722-7373  
Fax ++(1) 831 722-1405  
[www.tritonelics.com](http://www.tritonelics.com)

