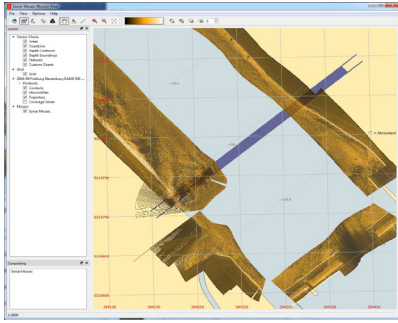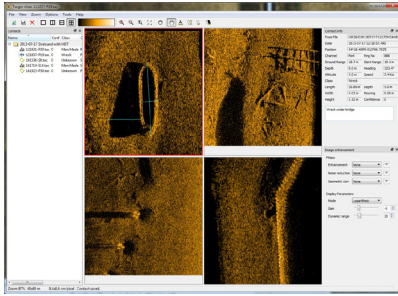# SONAR MOSAIC

AT A GLANCE:

• Individual views;geo-referenced image,water-fall and target view

• Import of background map in ENC/IENC S57 standard, as well as DXF format

•Input of Kongsberg EA440 or the Kongsberg Pulsar-sidescan sonar data

• Optional import of XTF-format sidescan data

• Position interpolation during temporary loss of the GNSS sensor

• Tagging of seabed features

• Saving the georeferenced sonar mosaic image in geo-tiff format

Sonar Mosaic

The new Kongsberg Sonar Mosaic software is an easy, universal real-time and post processing tool to generate georeferenced mosaic from the Kongsberg EA440 and Pulsar sidescan sonar data.
XTF format can be imported using an optional module.
Sonar Mosaic provides tagging of seabed features and generating georeferenced images of your sonar data.
The range of Kongsberg sidescan sonar systems has expanded to include an easy-to-use sonar mosaic software, giving users the opportunity to take advantage of the full potential of these systems.

• **Main views:** Simultaneous windows to show Mission view, Waterfall view, Map view and Object/Target view.

• **Waterfall view:** Provides direct control of the sonar view, including automatic range adjust-ment and gain control, TVG settings, color settings, filter functions, as well as tagging of objects.

• **Target view:** Objects tagged in the Waterfall view can be opened in the Target view for additional filter and gain optimization, provi-ding detailed information about target, position, classification and export to XML format for documentation.

• **Map view:** The mapping and mosaic modules generates georeferen-ced sonar mosaic on ENC/IENC (S57 standard), geotiff or DXF format. This view will provide the full overview of acquired sidescan sonar coverage.

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Sonar Mosaic Map view

Sonar Mosaic Target view
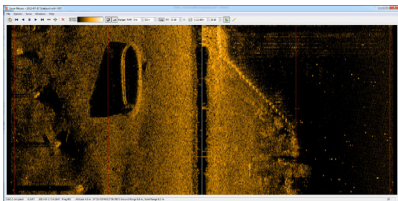
Sonar Mosaic Waterfall view

	121831-P20 **Position:** 54°18.427'N 013°06.793'E **Depth:** 2.97 m **Pass time:** 2013-07-17 12:18:31	**Class:** Man Made Alte Slipanlage
	121857-P19 **Position:** 54°18.459'N 013°06.752'E **Depth:** 4.95 m **Pass time:** 2013-07-17 12:18:57	**Class:** Wreck **Size:** 20.89 x 5.02 m **Height:** 1.52 m Wreck under bridge

Sonar Mosaic Target XML reports
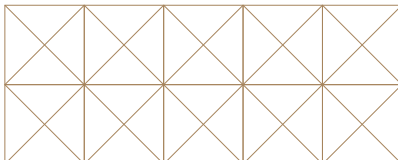
Key feaures of the Sonar Mosaic software

- Direct import of EA440 and Pulsar raw data. XTF import is an optional feature

- Setup of different user settings and mission folder favorites for easy operation

- Multi session capability

- Automatic filtering and elimination of positioning jumps due to lack of GNSS data (only in replay mode)

- Setting the Sonar Mosaic parameters, e.g. grid cell size

- Saving and exporting georeferenced mosaic in TIF format

- Importing ENC/IENC, DXF and geotiff background data

- Easy colour change in the Sonar Mosaic Map View (Grayscale, Copper, Bronze or other colours)

- Generating HTML reports for exporting target data information with text and sonar image

- View objects tagged in the Waterfall view Real time

TECHNICAL INFORMATION

- SONAR MOSAIC COMES AS A SOFTWARE PACKAGE THAT CAN BE RUN ON WINDOWS 7 OR HIGHER.

- IN ADDITION TO THE SONAR MOSAIC PROGRAM, AN INSTALLER FOR BUILDING UP THE MAP DATABASE (ENC/IENC) WILL BE DELIVERED.

- IMPORT OF XTF SIDESCAN DATA IS DONE VIA AN OPTIONAL MODULE.

- THE SOFTWARE PROTECTION IS REALIZED BY MEANS OF A DONGLE.