

## Feature Matrix - SonarTRX / -SI / -LSS Sidescan sonar processing software (Version 12.1 - July 9, 2012)

	SonarTRX-SI	SonarTRX-LSS	SonarTRX
<b>Supported sidescan sonar file formats and import features</b>			
Humminbird Side-Imaging (SI) sonar recordings (*.dat)	Yes	-	Yes
Lowrance StructureScan recordings (*.sl2 and *.slg)	-	Yes	Yes
Extended Triton Format (*.xtf), including Lowrance HDS xtf-files	-	-	Yes
Imagenex SportScan (*.81s) and YellowFin (*.872) recordings	-	-	Yes
DeepVision DeepEye (*.dvs and *.dvf)	-	-	Yes
EdgeTech sonar recordings (*.jsf) See Note 8 & 9	-	-	Optional
Import portions of a file, by time or named "clips". See Note 1	Yes	Yes	Yes
Import select sonar channels (speeds up import for some sonar files)	Yes	Yes	Yes
Support for XTF files with UTM coordinates	-	-	Yes
Correction of sonar data on import (Individual channel image correction)	Yes	Yes	Yes
<b>View and edit functionality</b>			
Preview and correct sonar data, including view of speed corrected images	Yes	Yes	Yes
Zoom in on data at various ranges	Yes	Yes	Yes
Brightness and contrast adjustment for individual channels & Histograms	Yes	Yes	Yes
Beam Angle Correction for improved contrast and brightness	Yes - <b>New!</b>	Yes - <b>New!</b>	Yes - <b>New!</b>
Birds eye view of navigation track and tools to define "clips" and "targets"	Yes	Yes	Yes
Tool for estimation of the height of a feature based on the acoustic shadow.	Yes	Yes	Yes
Altitude calculation based on sonar data and ability to digitize bottom	Yes - <b>New!</b>	Yes - <b>New!</b>	Yes
<b>Output sidescan mosaic images</b>			
Generation of image tiles along track. See Note 2	Yes	Yes	Yes
Mosaic image file format	*.png, *.tiff	*.png, *.tiff	*.png, *.tiff
Geo-referencing files (world file, prj file, Manifold GIS, aux.xml, Fugawi ENC)	Yes	Yes	Yes
Mosaic image watermarks	See Note 3	See Note 3	See Note 3
Generation of Master Image with all image tiles (all-in-one image)	Yes	Yes	Yes
<b>Sidescan mosaic image resolution, size and color scheme</b>			
Resolution range - pixels per unit distance as % of raw data. See Note 4	10 - 100%	10 - 100%	10 - 100%
Adjust pings per image and crop the stbd./port images at a certain range	Yes	Yes	Yes
Ability to use and configure custom color schemes. See Note 5	Yes	Yes	Yes
<b>Output KML document features (for viewing with Google Earth)</b>			
Sidescan / Downscan image tiles and Master image (all-in-one image)	Yes	Yes	Yes
Sonar coverage areas with detailed list of ping attributes	Yes	Yes	Yes
Trackline	Yes	Yes	Yes
Mosaic images with no bending (for each tile) - See Note 6	Yes	Yes	Yes
Annotation folder and Targets	Yes	Yes	Yes
<b>Other input/output options</b>			
Ability to generate image tiles for portions of the data loaded (Page Filter)	Yes	Yes	Yes
Generate raw and speed corrected images for each image	Yes	Yes	Yes
Ability to skip generating image tiles with large turn-rate or slow speed	Yes	Yes	Yes
Relocate mosaic to other locations and headings - See Note 7	Yes	Yes	Yes
Relocate and correct mosaic images to account for layback, cross track offset and transducer angle	Yes	Yes	Yes
Batch processing of multiple files to generate "Table of content" files.	Yes	Yes	Yes
Export of XYZ data (at 2 second interval only, in Geodetic coordinates)	Yes	Yes	Yes
Export of detailed XYZ data (Projected and geodetic) - See Note 9	<b>PlusPack</b>	<b>PlusPack</b>	<b>PlusPack</b>
Import/Export of alternate positions, altitudes etc. - See Note 9	<b>PlusPack</b>	<b>PlusPack</b>	<b>PlusPack</b>
Export of ping data - See Note 9	<b>PlusPack</b>	<b>PlusPack</b>	<b>PlusPack</b>
<b>Publishing Options</b>			
Auto-prepare KML file for use of online mosaic images (ready for publishing)	Yes	Yes	Yes
Export KML features to GPX file for display on navigation system or fishfinder	Yes	Yes	Yes

### Notes

- 1 The ability to import portions of a file is supported by the following importers: XTF, Humminbird, Lowrance and Imagenex SportScan/YellowFin
- 2 SonarTRX images can be assembled into larger mosaics using 3rd party GIS & Mapping programs (Manifold GIS, ESRI, GlobalMapper, etc.)
- 3 The time-limited version includes a watermark in the images until the software has been registered and activated
- 4 The resolution is in % of the lateral sonar ping resolution. (Example: 1000 lateral intensity values x 30% = 300 intensity values)
- 5 The Color Scheme maps ping intensity values to color values for use when rendering the image tiles.
- 6 Option to generate straight, Geo-referenced images for each tile is useful for uncovering bottom targets in regions of sharp turns.
- 7 The "Relocation" feature is a convenient way to hide the location of your sonar recording, or plot recordings as strip-charts.
- 8 Import of EdgeTech sonar recordings is supported for select sonar types. Please contact support@sonartrx.com regarding this optional feature.
- 9 PlusPack can be purchased as an add-on and contains optional functionality. Please contact sales@sonartrx.com.