

Feature Matrix - SonarTRX /-SI /-LSS/-GVU Sidescan sonar processing software (Version 18.1 - October 2018)

SonarTRX product version and general information:	SI	LSS	GVU	Pro
Availability of 32 bit and 64 bit versions (x86/x64):	x86 only	x86 only	x86 only	x86/x64
Supported sidescan sonar file formats and import features				
Humminbird Side-Imaging (SI) sonar recordings (*.dat, w/associated *.son)	Yes	-	-	Yes
Lowrance StructureScan recordings (*.sl2, *.sl3 and *.slg)	-	Yes	-	Yes
Garmin SideVu, DownVu/ClearVu recordings (*.rsd)	-	-	Yes	Yes
Extended Triton Format (*.xtf) w/coordinates in Geodetic or UTM	-	-	-	Yes
Imagenex SportScan (*.81s) and YellowFin (*.872) recordings	-	-	-	Yes
DeepVision DeepEye (*.dvs and *.dvv)	-	-	-	Yes
EdgeTech sonar recordings (*.jsf) See Note 8 & 9	-	-	-	Yes
Import portions of a file, by time or named "clips". See Note 1	Yes	Yes	Yes	Yes
Import select sonar channels (speeds up import for some sonar files)	Yes	Yes	Yes	Yes
Correction of sonar data on import (Individual channel image correction)	Yes	Yes	Yes	Yes
Batch extraction of tracks and other information from multiple sonar files	Yes	Yes	Yes	Yes
View and edit functionality				
Preview and correct sonar data, including view of speed corrected images	Yes	Yes	Yes	Yes
Zoom in on data at various ranges	Yes	Yes	Yes	Yes
Brightness and contrast adjustment for individual channels & Histograms	Yes	Yes	Yes	Yes
Beam Angle Correction for improved contrast and brightness	Yes	Yes	Yes	Yes
Birds eye view of navigation track and tools to define "clips" and "targets"	Yes	Yes	Yes	Yes
Tool for estimation of the height of a feature based on the acoustic shadow.	Yes	Yes	Yes	Yes
Altitude calculation based on sonar data and ability to digitize bottom	Yes	Yes	Yes	Yes
Output sidescan mosaic images				
Generation of image tiles along track. See Note 2	Yes	Yes	Yes	Yes
Mosaic image file format	*.png, *.tiff	*.png, *.tiff	*.png, *.tiff	*.png, *.tiff
Geo-referencing files (world file, prj file, Manifold GIS, aux.xml, Fugawi ENC)	Yes	Yes	Yes	Yes
Mosaic image watermarks	See Note 3	See Note 3	See Note 3	See Note 3
Generation of Master Image with multiple image tiles	Yes	Yes	Yes	Yes
Sidescan mosaic image resolution, size and color scheme				
Resolution range - pixels per unit distance as % of raw data. See Note 4	10 - 100%	10 - 100%	10 - 100%	10 - 100%
Adjust pings per image and crop the stbd./port images at a certain range	Yes	Yes	Yes	Yes
Ability to use and configure custom color schemes. See Note 5	Yes	Yes	Yes	Yes
Output KML document features (for viewing with Google Earth)				
Sidescan / Downscan image tiles and Master image (all-in-one image)	Yes	Yes	Yes	Yes
Sonar track line and coverage areas with detailed list of ping attributes	Yes	Yes	Yes	Yes
Mosaic images with no bending (for each tile) - See Note 6	Yes	Yes	Yes	Yes
Annotation folder and Targets	Yes	Yes	Yes	Yes
Other input/output options				
Ability to generate image tiles for portions of the data loaded (Page Filter)	Yes	Yes	Yes	Yes
Generate raw and speed corrected images for each image	Yes	Yes	Yes	Yes
Ability to skip generating image tiles with large turn-rate or slow speed	Yes	Yes	Yes	Yes
Relocate mosaic to other locations and headings - See Note 7	Yes	Yes	Yes	Yes
Relocate and correct mosaic images to account for layback, cross track offset and transducer angle	Yes	Yes	Yes	Yes
Batch processing: Table of content and KML Profiles from multiple files	Yes	Yes	Yes	Yes
Output recorded depth-along-track (2 sec.interval, w/Geodetic coordinates)	Yes	Yes	Yes	Yes
Export recorded/calc. depth-along-track, specific channel, interval - See Note 9	PlusPack	PlusPack	PlusPack	PlusPack
Import/Export of alternate positions, altitudes etc. - See Note 9	PlusPack	PlusPack	PlusPack	PlusPack
Export of ping data to CSV (Limited to 1000 soundings) - See Note 9	PlusPack	PlusPack	PlusPack	PlusPack
Publishing Options				
Auto-prepare KML file for use of online mosaic images (ready for publishing)	Yes	Yes	Yes	Yes
Export KML features to GPX file for display on navigation system or fishfinder	Yes	Yes	Yes	Yes

Notes

- 1 The ability to import portions of a file is supported by the following importers: XTF, Humminbird, Lowrance, Garmin 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.