| Feature Matrix - SonarTRX Sidescan sonar processing software (Version 23.1 - February 2023) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| SonarTRX product version and general information: | Pro |
| Availability of 32 bit and 64 bit versions (x86/x64): | x64 |
| mport-features and supported sidescan sonar file formats | |
| Humminbird Side-Imaging (SI) sonar recordings (*.dat, w/associated *.son) | Yes |
| Lowrance StructureScan recordings (*.sl2, *.sl3 and *.slg) | Yes |
| Garmin SideVu, DownVu/ClearVu recordings (*.rsd) | Yes |
| Extended Triton Format (*.xtf) w/coordinates in Geodetic or UTM | Yes |
| Imagenex SportScan (*.81s) and YellowFin (*.872) recordings | Yes |
| DeepVision DeepEye (*.dvs and *.dvf) | Yes |
| EdgeTech sonar recordings (*.jsf) See Note 8 | Yes |
| Import portions of a file, by time or named "clips". See Note 1 | Yes |
| Import select sonar channels (speeds up import for some sonar files) | Yes |
| Correction of sonar data on import (Individual, or all channels) | Yes |
| /iewing, editing and correction functionality | |
| View individual sonar channels in horizontal or vertical waterfall mode | Yes |
| Corrections of trackline - load alternate positions, altitudes etc See Note 10 | PlusPack v2 |
| Birds eye view of navigation track and tools to define "clips" and "targets" | Yes |
| Define time-intervals, or regions ("Clips") within recording. | Yes |
| Define points of interest ("Targets") representing a specific feature | Yes |
| Calculation of first echo return from sonar data w/tool to digitize bottom | Yes |
| Slant range correction of sidescan channels, including beam angle correction | Yes |
| Brightness and contrast adjustment for individual channels w/histograms | Yes |
| Tool for display of the height of a feature, based on the acoustic shadow | Yes |
| xport of Bathymetric data and raw sonar ping data | |
| Export depth, as estimated by sonar, at 2 second interval - See Note 9 | Yes |
| Export detailed depth-along-track, for specific channel & interval - See Note 10 | PlusPack v2 |
| Dutput of sonar images and associated KML document | |
| Creation of KML document compatible with Google Earth Pro for desktop | Yes |
| - Sidescan / Downscan image-tiles and Master Image (all-in-one image) | Yes |
| - Sonar trackline and coverage areas with detailed list of ping attributes | Yes |
| | |
| - Annotation folder with SonarTRX Targets | Yes |
| Generation of image-tiles along track. See Note 2 | Yes |
| - Generate image-tiles for portions of the data loaded (Page Filter) | Yes |
| - Option to adjust number of pings per image-tile | Yes |
| - Skip generating image-tiles with large turn-rate or slow speed | Yes |
| Generation of a Master Image along with image-tiles (See Note 2) | Yes |
| Image-tile and Master Image file formats | *.png, *.tif |
| Resolution factor - pixels per unit distance as % of raw data. See Note 4 | 10 - 100% |
| Crop the starboard or port images at a certain range | Yes |
| Ability to use and configure custom image color schemes. See Note 5 | Yes |
| Relocate mosaic to other locations and headings - See Note 7 Relevate and correct massic images to account for lauback, cross track offect and transducer angle | Yes |
| Relocate and correct mosaic images to account for layback, cross track offset and transducer angle | Yes |
| Geo-referencing files (world file, prj file, Manifold GIS, aux.xml, Fugawi ENC) | Yes |
| Mosaic image watermarks Mosaic images with no bending (for each tile) - See Note 6 and 11 | See Note 3 |
| | PlusPack v2 PlusPack v2 |
| Generate raw and speed corrected images for each image tile. See Note 11 | PlusPack V2 |
| Batch export functionality | |
| Scan files and extract basic meta data (CSV and XML file with info.) Tracklines, as single KML file, with a KML Path for each recording | Yes Yes |
| Targets associated with each recording (CSV file with Target information) | Yes |
| | |
| Depth-along-track XYZ data from multiple files (CSV file, points at 2 sec.interval) | PlusPack v2 |
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| Publishing Options Auto-prepare KML file for use of online mosaic images (ready for publishing) Export KML features to GPX file for display on navigation system or fishfinder | Yes Yes |

1 The ability to import portions of a file can be used to process the data region-by-region. The Clip mechanism can be used to define named regions.

2 SonarTRX images can be imported and/or processed into image pyramids using 3'rd party GIS & Mapping programs (Manifold GIS, ESRI, GlobalMapper, etc.)

3 When SonarTRX run in trial-mode, the generated images includes a watermark. These are not shown when program runs in licensed mode.

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 used by SonarTRX when rendering the images.

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 *.jsf sonar files are supported for select EdgeTech sonar types.

9 Basic export of depth-along-track to CSV file can be done from Mosaic creation dialog, by all editions of SonarTRX. Positions are Geodetic (WGS84)

10 PlusPack v2A features are included in the core PlusPack 2 product, and enables additional functionality within SonarTRX itself.

11 PlusPack v2B features can be added to the core PlusPack 2 product, and enables additional functionality within SonarTRX itself.