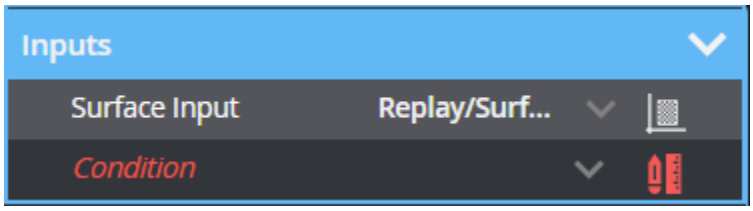
Surface Data Save

Purpose

The Surface Data Save tool lets you save surface data in a surface file from the GoPxL workspace or a local surface file conditionally or not. At present, it supports 3 different file types(.srf, .sur and .pcd):

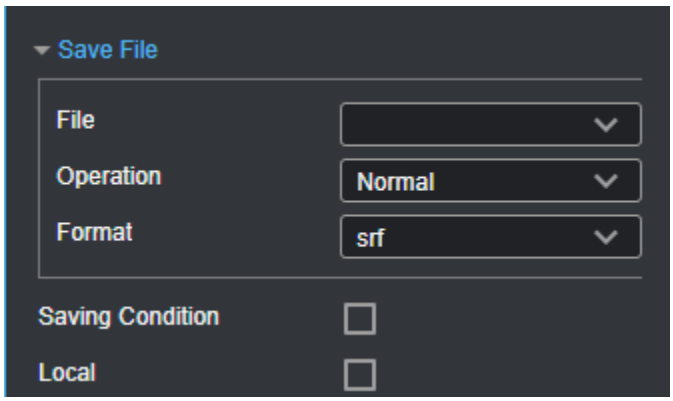
1. The .srf file type is the VE internal custom file format, you can not import this type of file in other software or libraries.
2. The .sur file type is from the software named Mountainsmap, and you could import the file saved by this tool in this software.
3. The .pcd file type is from PCL(Point Cloud Library). You could read or write this type of file using it.

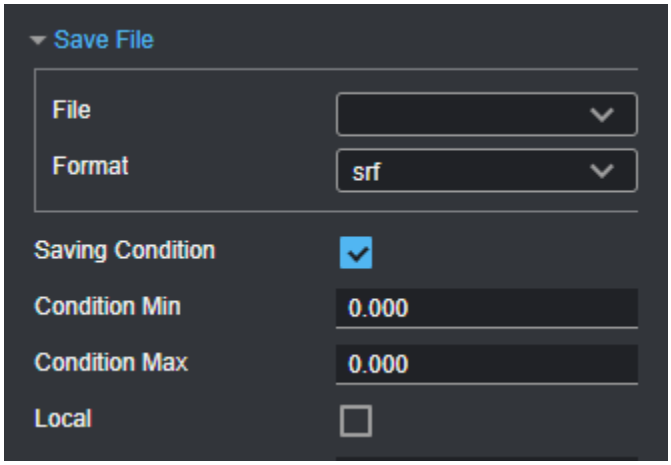
Inputs



Name	Description
Surface Input	The surface input stream.
Condition	The parameter used in the conditional saving. If the Saving Condition is checked, this parameter is used for comparison with the following two parameters(Condition Min and Condition Max) to dertermine whether to perform a save operation.

Parameters

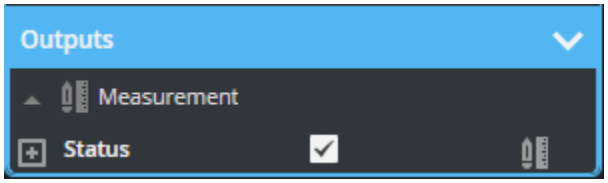




Name	Description
File	The file that the user selects. When the Operation is “Save”, the operation will override the selected file
Operation	The operations the tool supports: ● Normal - Do nothing ● Create - Save the file once using an incrementing index filename ● Save - Save the file once by overriding the selected file in File ● Delete - Delete the selected file in File ● Refresh - Refresh the file list in File

Format	The file type saved by this tool. It supports .srf, .sur, and .pcd
Saving Condition	The conditional saving switch. If you want to save the file conditionally, you should check this option
Condition Min	The minimum value used in the conditional saving
Condition Max	The maximum value used in the conditional saving
Local	When checked, this tool will operate local surface files in the default path “C:\GoTools\SurfaceData”. Otherwise, it will operate the surface file from the GoPxL workspace

Outputs



Type	Name	Description
Measurement	Status	The value which describes the operation status. If it is equal to 1.0, it implies that the operation is successful. Otherwise, the operation failed

Major Revisions

- For the .srf file type, it’s corresponding to the .srf.user file type in Classic, and this tool saves the intensity information if the intensity information exists in the input surface. In the Classic, it doesn’t save the intensity information for the .srf.user file type.