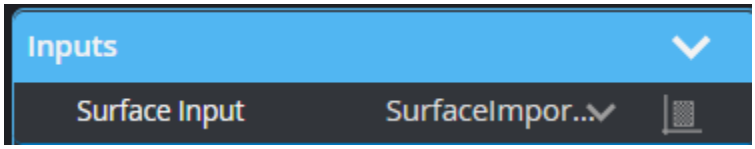
LMI TECHNOLOGIES

Mesh Radial Scanning

Purpose

The mesh radial scanning tool meticulously processes the scan data it captures, transforming it into a high-fidelity three-dimensional mesh that represents the object's real-world 3D geometry, thus achieving the reconstruction of the object's authentic three-dimensional form.

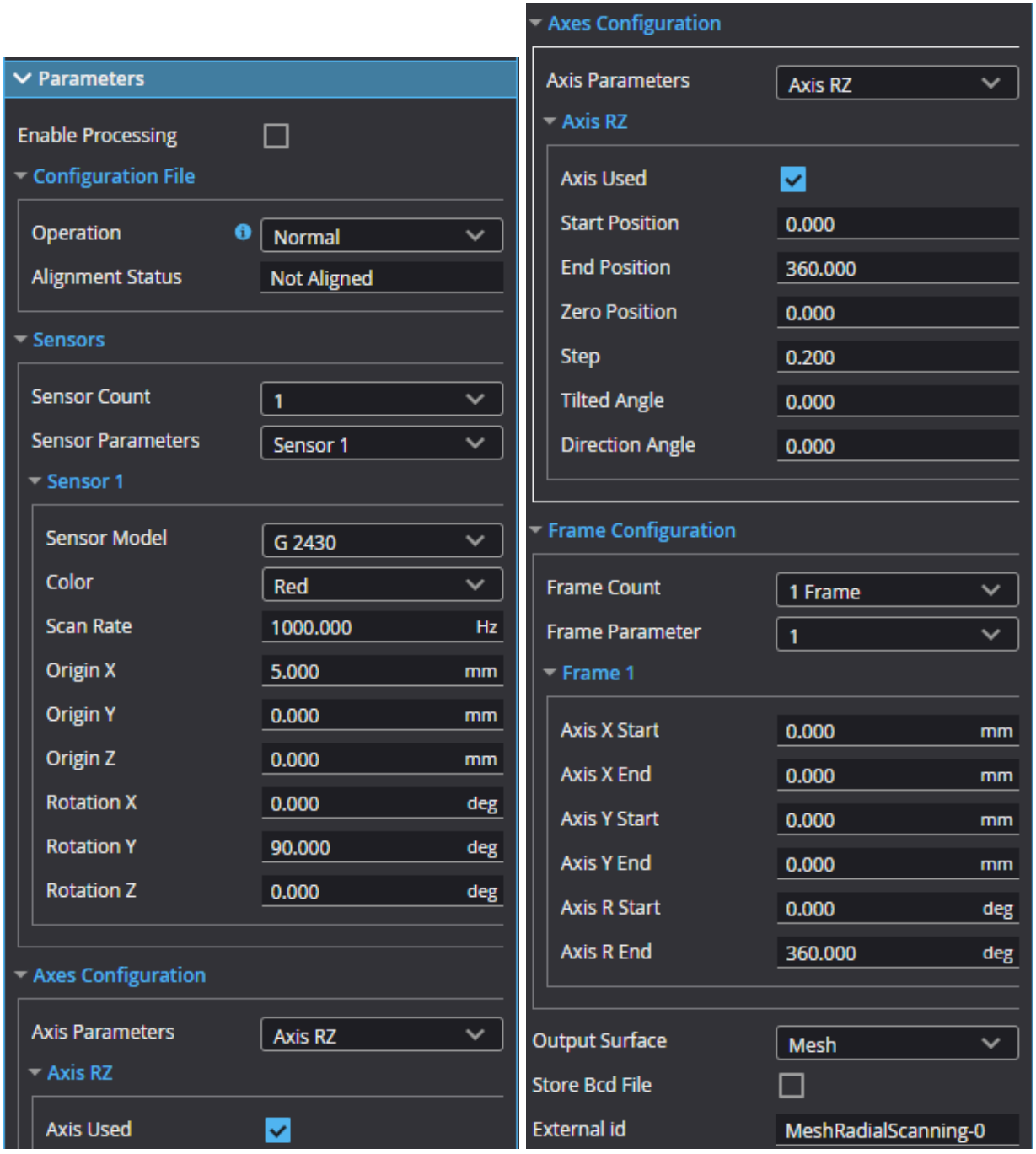
Inputs



Name	Description
Surface Input	The surface data that the tool will apply measurement to.

Parameters

+1 604 636 1011
+1 604 516 8368
info@lmi3D.com
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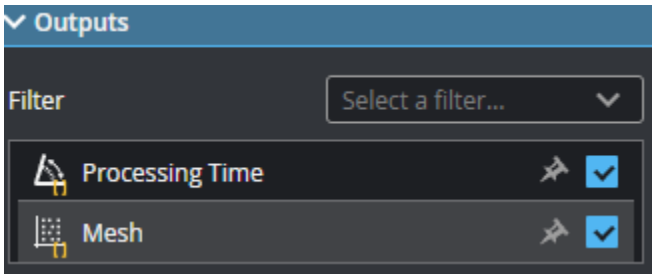
Name	Description
Enable Processing	Start the scanning procedure. Make sure to properly configure the tool before enabling this option.
Operation	Actions that apply to the tool's XML initialization files. One of the following: • **Normal**: The tool automatically chooses this operation after you have chosen another operation. • **Load**: Displays a list of initialization files you can load. After you select a file, the tool loads it and displays a message in the log. The settings in the file, such as the number of sensors and their X and Y origin, are updated in the tool's parameters. • **Save**: Saves the tool's settings to an XML initialization file (in C:\GoTools\SurfaceAlign\). Provide the name of the initialization file in the **File Name** parameter (without an extension) and press Enter or Tab. Saving the initialization file saves you time if you need to adjust the positions of the sensors in the system and perform the alignment again as a rough starting point for the alignment procedure. • **Delete**: Deletes the initialization file you select. • **Refresh**: Refresh the initialization file list
Sensor Count	Indicates the number of sensors in the system.
Sensors	A drop-down that displays the settings of the selected sensor. For descriptions of the individual sensor parameters used for the alignment, see Sensor Parameters.
Axes Configuration	An expandable section that contains axis related parameters.
Frame Configuration	An expandable section that contains Frame related parameters.
Output Surface	Output surface mode • **Heightmap** • **Point Cloud** • **Mesh**

Store Bcd File	When this option is enabled, the tool save data in bcd file. (in C:\GoTools\measurements\)

Sensor Parameters

Name	Description
Sensor Model	Sets the sensor's model
Origin X {n} Origin Y {n} Origin Z {n}	The X, Y, and Z transformations calculated for sensor {n}.
Rotation X {n} Rotation Y {n} Rotation Z {n}	The X, Y, and Z rotations for sensor {n}.

Outputs



Type	Name	Description
Measurement	Processing Time	Scanning time
Dats	Heightmap Point Cloud Mesh	Output surface