Ultimate 3D Lithography Software Solution

LithoSoft3D & LithoStream

Unique software toolkit for TPP direct laser writing of structures ranging from 1D to 3D.

LithoSoft3D

Desktop software to transform design data into virtual GCode.

- Machine-independent virtual GCode creation (code adaptable by LithoStream at machine level)
- 8 application-oriented modules covering multiple design formats
- File preparation for independent workgroups at any desktop
- Laser trajectory definition (e.g. Full-volume scanning, Contouring, LCON3D)
- Multiple fabrication modes (via stage, galvoscanner and IFoV)

LithoStream

LithoProf3D® control software to run the TPP fabrication process.

- Control of machine-dependent process parameters (e.g. scan speed, laser power)
- Selection of different microscope objectives
- Live monitoring of the fabrication process
- Batch TPP fabrication processes
- Automatic autofocus, triangulation, power calibration and power check
- Output of fabrication parameters into a fabrication/sample database
LithoSoft3D Modules

ASCII – Import of point clouds (txt files) to be connected by different splines.

3D object – Import and processing of STL/obj files.

Grayscale – Import of grayscale designs, e.g. of Diffractive Optical Elements (DOE).

Voxel – Design of voxel fields.

Workbench – Modification and rearrangement of multiple already created structures from other modules.

Field – Definition of arrangement patterns (e.g. hexagonal, circle, rectangular) including automatic parameter searches.

Lens – Definition or import of lens designs.

Woodpile – Generation of woodpile structures.

LithoStream Graphical User Interface (GUI) – Main Menu Tab