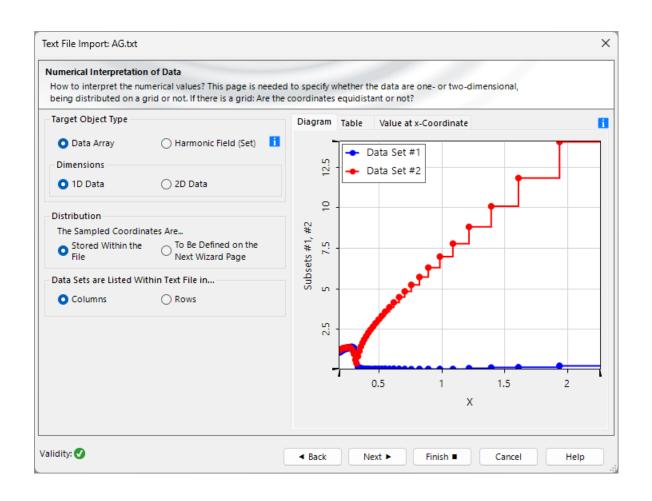


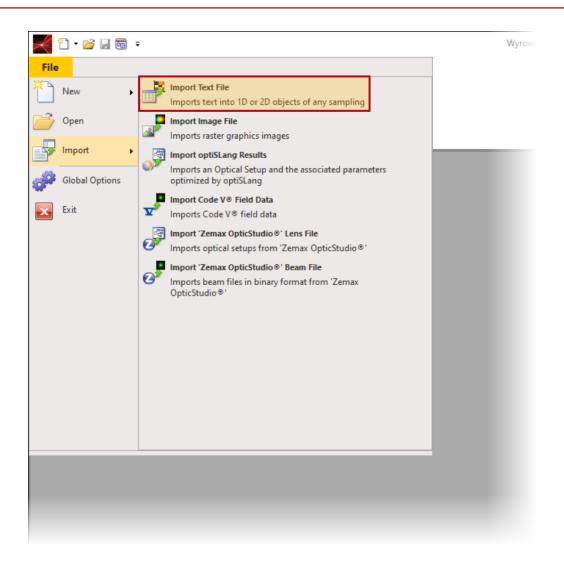
Import Text Files into VirtualLab Fusion

Abstract



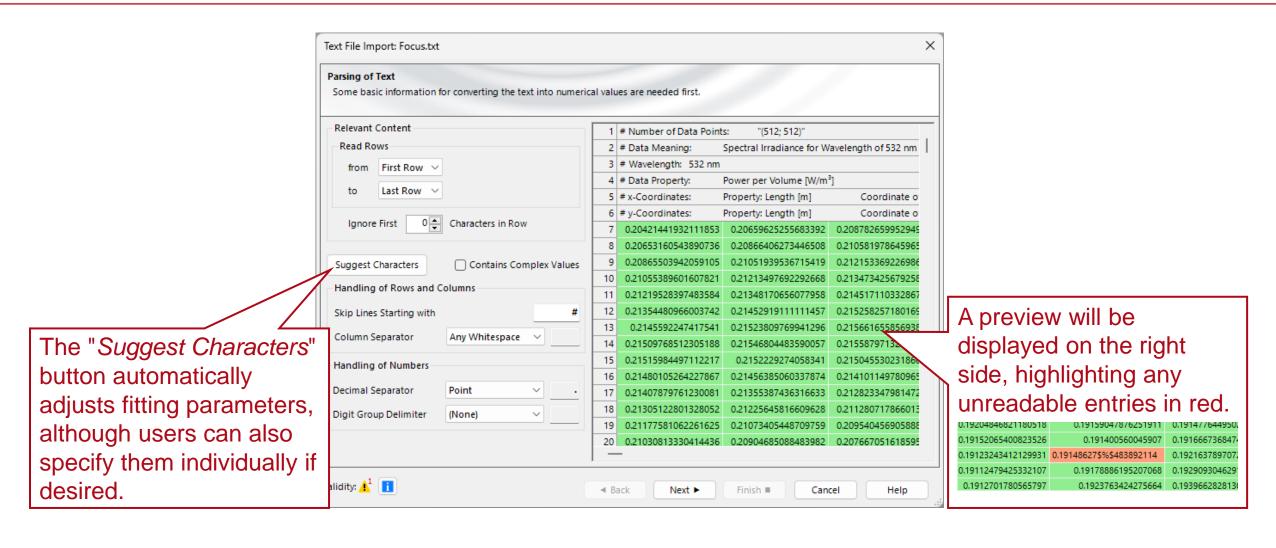
VirtualLab Fusion provides an intuitive workflow for data importation, supporting various data formats. Users can import 2D data arrays, (such as field data) or both equidistant and non-equidistant 1D arrays, e.g., dispersion curves for specific materials. This Use Case introduces a tool that enables users to import data from any type of text file.

Import of Text Files

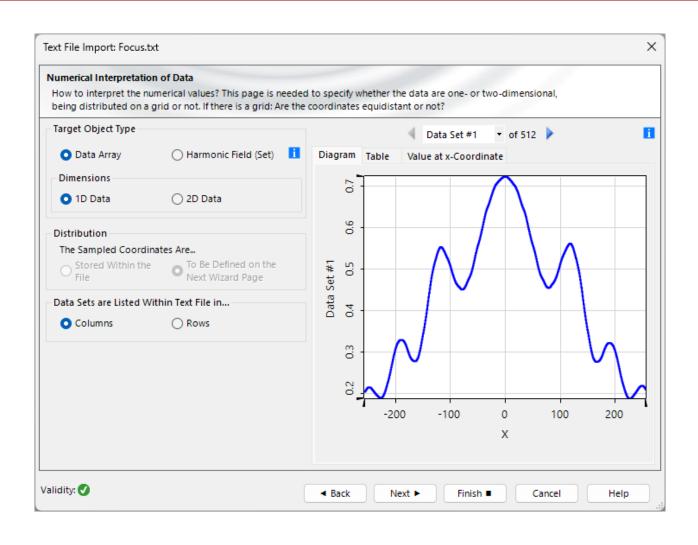


You can access the import tool by navigating to File > Import > Import Text File. It supports various custom text data formats like txt or csv files.

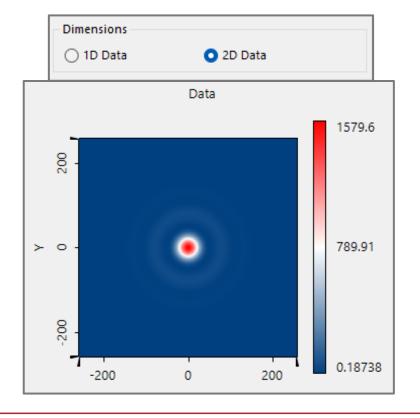
Import Text Files



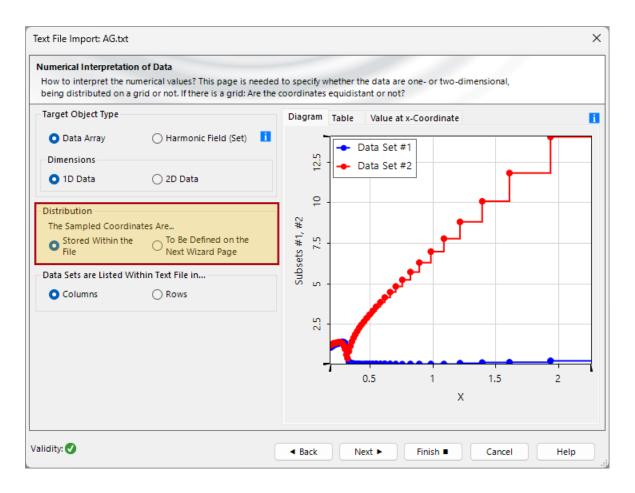
Type of Data Array



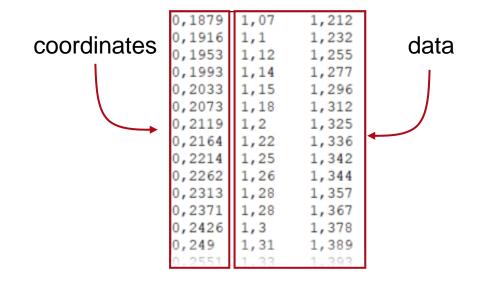
1D and 2D data arrays can be imported. For 1D data with multiple subsets, the user can specify if the individual sets are represented by the columns or rows of the text file.



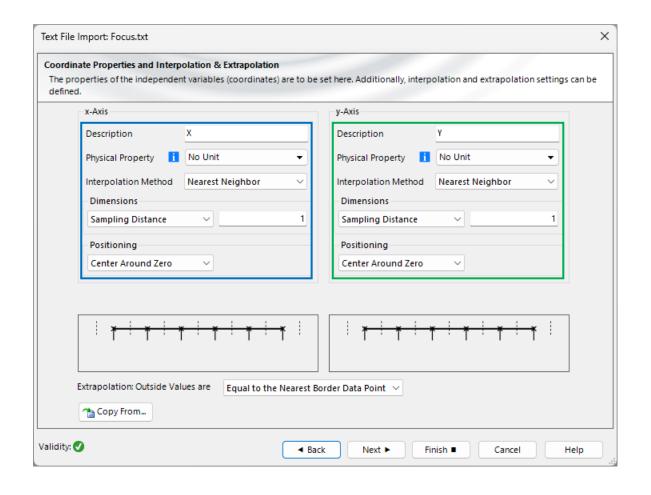
Type of Data Array- Non-equidistant Data Arrays

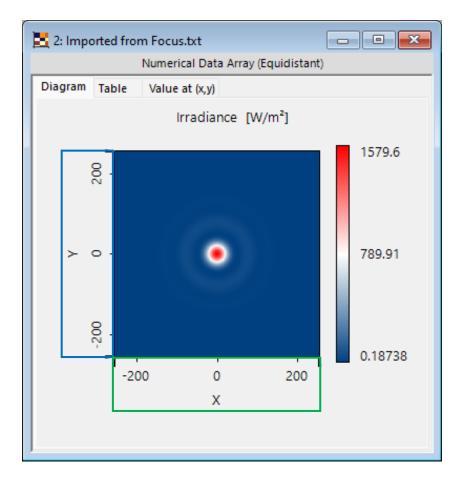


For non-equidistant data arrays, users can specify whether the coordinates are already provided in the file or need to be defined in the wizard. If the former option is chosen, the software extracts coordinates from the first column (or row). If the latter option is selected, the same workflow as for equidistant data follows.

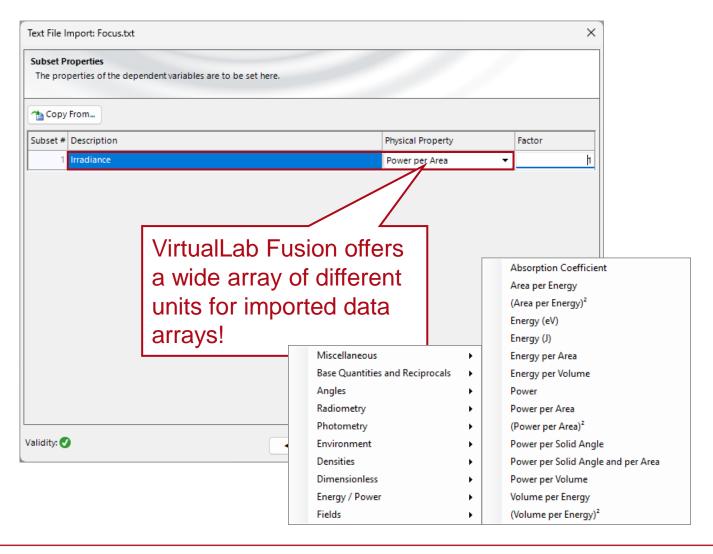


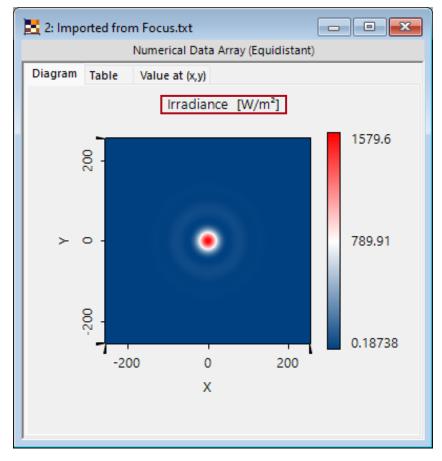
Definition of Coordinates





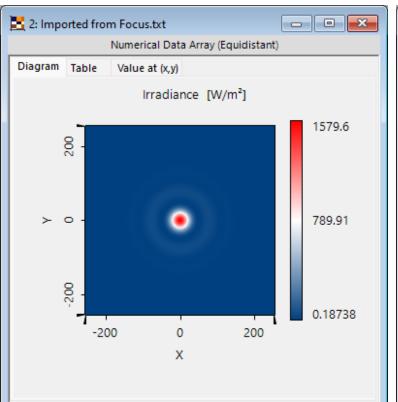
Physical Properties - Unit



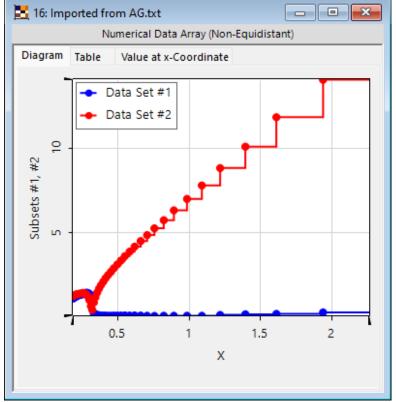


Examples

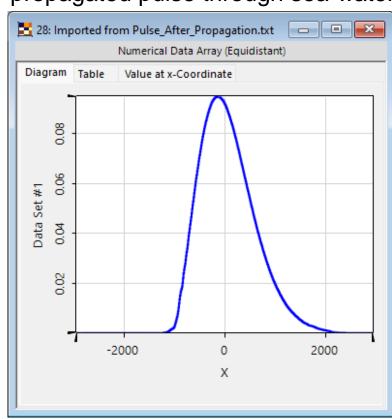
focus of an aspheric lens



material data of silver



propagated pulse through sea-water



2D, equidistant grid

1D, non-equidistant, multiple subsets

1D, equidistant

Document Information

title	Import Text Files into VirtualLab Fusion
document code	SWF.0052
document version	1.0
required packages	-
software version	2024.1 (Build 1.132)
category	Feature Use Case
further reading	 Import of Images Import Lens into VirtualLab Fusion Import Material Data into VirtualLab Fusion Programmable Dispersion Formula

10 www.LightTrans.com