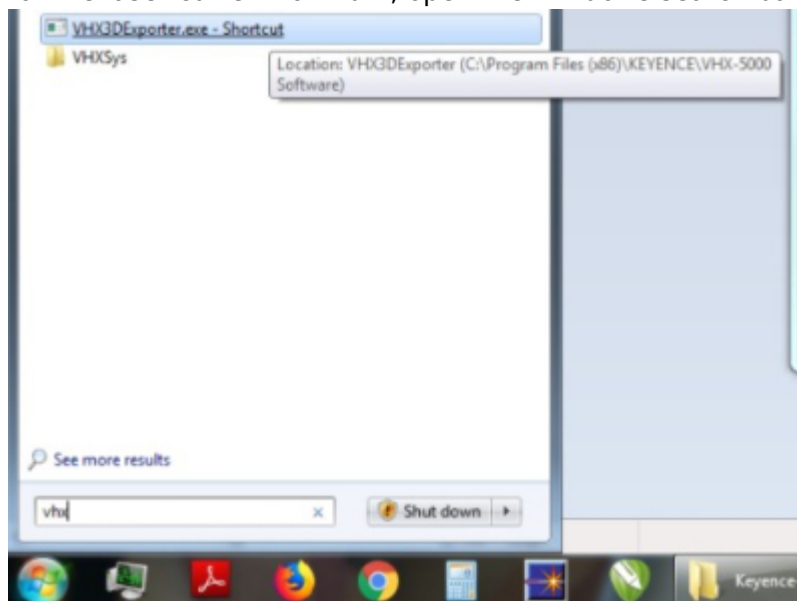


## Keyence 3D image to STL

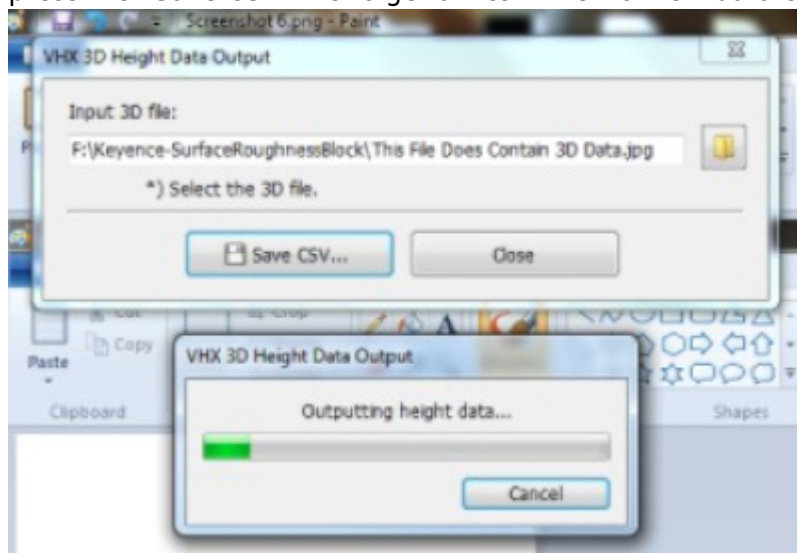
The Keyence has the ability to use its motorized objective and focus sensing to create 3D depth maps by scanning the focal point of the microscope up and down across the sample. This 3D data is saved within the .jpg or .tiff file, and must be exported to a .csv file before STL conversion.

### Exporting .csv data from .jpg or .tiff file

Obtaining 3D data from these files requires Keyence software. This is available on the computer used for the laser cutter. To find it, open the Windows search bar and search for “vhx3d”.



Once opened, the software will prompt you to select a file that contains 3D data. Choose a file and press the “Save CSV” file to get a “.csv” file from 3D data embedded in the image file.



The exported .csv files contain height data in microns. No x and y data is given, for these you should refer to the datasheet on 3D pixel sizes.

From:

<https://microfluidics.cnsi.ucsb.edu/wiki/> - **Innovation Workshop Wiki**

Permanent link:

<https://microfluidics.cnsi.ucsb.edu/wiki/doku.php?id=keyencetostl&rev=1623258826>

Last update: **2021/06/09 17:13**

