

## Stack file format for Amira

### 9.41 File Format: Stacked-Slices

#### Description:

This file format allows to read a stack of individual image files with optional z-values for each slice. The slice distance need not to be constant. The images must be one-channel images in an image format supported by Amira (e.g., TIFF). The reader operates on an ASCII description file, which can be written with any editor. Here is an example of a description file:

```
# Amira Stacked Slices

# Directory where image files reside
pathname C:/data/pictures

# Pixel size in x- and y-direction
pixelsize 0.1 0.1

# Image list with z-positions
picture1.tif 10.0
picture7.tif 30.0
picture13.tif 60.0
colstars.jpg 330.0
end
```

→ important: “.0” must be added at the end!!!

Some remarks about the syntax:

# Amira Stacked Slices is an optional header, which allows Amira to automatically determine the file format.

pathname is optional and can be included in case the pictures are not in the same directory as the description file. A space separates the tag "pathname" from the actual pathname.

pixelsize is optional too. The statement specifies the pixel size in x- and y-direction. The bounding box of the resulting 3D image is set from 0 to pixelsize\*(number\_of\_pixels-1).

picture1.tif 10.0 is the name of the slice and its z-value, separated by a blank.

end indicates the end of the description file.

Comments are indicated by a hashmark character (#).

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