

Mosaizer CLI is the Command Line Interpreter of the Mosaizer Pro software.

After you have unzipped the downloaded package you need to first install/create a picture library. We have a few picture libraries available from our website:

www.mosaizer.com

The following commands are applicable:

- -p = the path to the picture library directory
- -z = create and read a pre-analyzed library data file (flag parameter, does not need a value)
- -n = the name of a new miniature picture to replace an old cell in an existing mosaic
- -s = the source file from which a mosaic is made
- -r = the name of the resulting mosaic picture (it will always be saved in the .jpg format)
- -m = the name of the existing mosaic file (if a cell is being replaced by a new file)
- -w = the width of each cell (default = 72 pixels)
- -x = the number of cells on the horizontal (x) axis of the picture (default = 48)
- -d = the distance between two similar cells (default = 0.3)
- -f = the cell shape factor: a floating point value of width/height of the shape (default = 1.34)
- -b = the value in percentage of the blend parameter (default = 20%)
- -c = the value in percentage of the colorize parameter (default = 15%)
- -g = the degree of gaussian blur of the picture when blended (default = 0.5)
- -q = the compression quality for the JPEG output (default = 95%)
- -k = the resize quality parameter (default = 2)
- -t = the tile distribution approach (default = 1)
- -u = use the updater algorithm (flag parameter: does not need a value). When this parameter is set, a new file must be provided (-n) and the name of the existing mosaic picture (-m)
- -l = flag to discard the luminance when colorizing is applied (default = on)
- -ct = contrast correction (default = 0.0)
- -bs = brightness correction (default = 0.0)
- -sn = saturation correction (default = 0.0)
- -i = flag to ignore the size safety check (100,000 tiles, 300 MB size)
- -o = echo the status in the dos box (flag parameter: does not need a value)
- /? = show this list of help parameters

Examples of command lines:

```
MosaizerCLI -p "E:\Mosaics\Food" -s "Fox.jpg" -r "Mosaic Result.jpg"
-w 60 -x 48 -d 6 -f 1.0 -b 10 -c 5
```

This command line creates a new mosaic 'Mosaic Result.jpg' from a sourcefile 'Fox.jpg', from a library of (miniature) pictures as stored in the folder 'E:\Mosaics\Food'. The quality parameters indicate a cell width of 60 pixels, 48 cells on the horizontal, a (target) distance between same pictures of 6 cells, square cells (f=1.0), a blend with the original source of 10% and a slight colorization of 5% of each cell.

```
MosaizerCLI -u -p "E:\Mosaics\Food" -s "Fox.jpg" -r "Mosaic
Update.jpg" -m "Mosaic Result.jpg" -n "Food.jpg" -w 60 -x 48 -d 6 -f
1.0 -b 10 -c 15
```

This command line updates ('-u') an existing mosaic file ('Mosaic Result.jpg'), using the sourcefile 'Fox.jpg', from a library of(miniature) pictures as stored in the folder 'E:\Mosaics\Food'. The quality parameters are the same as the first example. The result is saved as 'Mosaic Update.jpg'.

Restrictions and guidelines

- An update parameter ('-u') can only be used when an existing mosaic file ('-m') is provided as well as the new picture ('-n')
- The update will overwrite the original mosaic with the parameters of that line, so a change in parameters while doing an update may result in overwriting more than one cell because the application now uses different settings
- In case the updated file appears to be larger (in pixel size) than the original mosaic (due to change in settings), an error may occur
- If the sourcefiles ('-s') for new and updated mosaics are different, very strange results may happen.
- The result of any mosaic picture is largely determined by the quality and color spread of the miniature library. The user should make sure that sufficient pictures of not too large sizes are available for the application. Good mosaic picture libraries are not more than twice the size of each of the cells (and to avoid long calculation times).
- The library pictures must have the .jpg file format. Other file formats may cause errors or will not be loaded.
- There are limits in size: 100,000 tiles in total and 300 MB output (uncrompressed) mosaic file. The '-i' parameter will however ignore these security checks, at the user's own risk.
- It is highly recommended to first determine the effect of quality parameters with the GUI version of Mosaizer Pro 10 before attempting to create mosaics with the CLI version.

The CLI version of Mosaizer is shareware and not freeware

The current version is a shareware demonstrator. The software can be purchased upon request. Please contact APP Helmond for prices and licensing possibilities.

Thank you for using **Mosaizer CLI**.

17 October 2013