

**NAME**

depthmap – create depthmap from pairs of images

**SYNOPSIS**

**depthmap** [-i] [-v] [-ox *output\_flow\_x*] [-oy *output\_flow\_y*] [-mx *maximum\_flow*] [-mn *minimum\_flow*] [-r *x,y,width,height*] [-brox\_alpha *brox\_alpha*] [-brox\_gamma *brox\_gamma*] [-brox\_scale *brox\_scale*] [-brox\_inner *inner\_iterations*] [-brox\_outer *outer\_iterations*] [-brox\_solver *solver\_iterations*] *imagefile1*, *imagefile2*

**DESCRIPTION**

**depthmap** creates depthmaps using the BroxOpticalFlow method of the OpenCV library.

**OPTIONS**

- i Create inverse image: closer objects appear brighter.
- v Be verbose.
- ox *output\_flow\_x*  
Output image featuring depth calculated from horizontal flow.
- oy *output\_flow\_y*  
Output image featuring depth calculated from vertical flow.
- mx *maximum\_flow*  
Specify flow corresponding to nearest point. Default: Maximum of calculated flow.
- my *minimum\_flow*  
Specify flow corresponding to farthest point. Default: Minimum of calculated flow.
- r *x,y,width,height*  
Specify rectangular region-of-interest. Only this region is analyzed, the output image is alpha-masked to this region.
- brox\_alpha *brox\_alpha*  
Specify parameter for BroxOpticalFlow function. Default 0.197. See OpenCV-documentation for details.
- brox\_gamma *brox\_gamma*  
Specify parameter for BroxOpticalFlow function. Default 80. See OpenCV-documentation for details.
- brox\_scale *brox\_scale*  
Specify parameter for BroxOpticalFlow function. Default 0.8. See OpenCV-documentation for details.
- brox\_inner *brox\_inner*  
Specify parameter for BroxOpticalFlow function. Default 10. See OpenCV-documentation for details.
- brox\_outer *brox\_outer*  
Specify parameter for BroxOpticalFlow function. Default 77. See OpenCV-documentation for details.
- brox\_solver *brox\_solver*  
Specify parameter for BroxOpticalFlow function. Default 10. See OpenCV-documentation for details.

**AUTHOR**

Helmut Dersch <der at fh-furtwangen dot de>