Content of the software package „Stereo-Imaging“, related to the manuscript „A practical guide to the use of consumer-level digital still cameras for precise stereogrammetric in situ assessments in aquatic environments”

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Additional to the software package, an MPEG-4 video tutorial names “Video-tutorial for stereo-image processing” is provided, where the single steps of camera calibration and image processing are described in detail. The video tutorial can be downloaded at http://dx. doi.org/10.1594/PANGAEA.782365

The contents of the associated zip-file “Software package Stereo_Imaging.zip” are:

1) Ordering address (company) for the electronic **timeshift device:** ARNDT-ELEKTRONIK, Peter Arndt, Johannesstr. 4, D-27570 Bremerhaven, Fon: +49 471 / 93224-0, Fax: +49 471 / 93224-19, eMail: info@arndt-elektronik.de, Internet: www.arndt-elektronik.de (Unfortunately, the company did not provide the electronic circuit diagram and parts list but offer the device for about 250 Euro).
2) **toolbox_calib_modified:** This matlab toolbox contains the two (slightly modified) Matlab routines **“calib_gui”** and **“stereo_gui”**.
3) Example batch file **“calib_rename”** for renaming images with the program ExifTool according to the name convention of “stereo_gui”.
4) **matlab_rectify_rename_step1.exe:** Small stand-alone program to rename larger image series according to the name convention of the matlab routine “stereo_gui”.
5) **matlab_rectify_rename_step2.exe:** Small stand-alone program to back-rename images processed with the matlab routine “stereo_gui” to their original date-time-position coded name.
6) **stereomarker2.0:** Folder with Java program StereoMarkerV2.jar to measure lengths of objects in stereo-image pairs. The program works with the a standard naming convention, ‘Prefix_yyyy.mm.dd_hh.mm.ss_L.jpg’ and automatically loads the correct image of both cameras when available in a folder.