Manual Before/After Images V3.06

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1. Main window

Overview

The software *Before/After Images V3.06* allows the creation of before / after image comparisons (also called repeat photos). The picture comparisons can enclose 2 or also several images.

This manual describes all functions of the software.

Main window

- Preparation
 - o Select image file
- <u>Preview</u>
- Storage
 - o **Labeling**
 - o **Sharpen**
 - o Confirm overwrite

Options

- Folders
- Settings
- Languages
- Logging

Activation, updates, etc.

- Activation
- Updates
- Show log file
- About Before/After Images

Support

See Support page on Website www.obeng.ch

The Software <u>Before/After Images V3.06</u> is a product of Oberli Engineering GmbH, CH-3415 Hasle-Rüegsau, <u>www.obeng.ch</u>

1.1 Tab Preparations

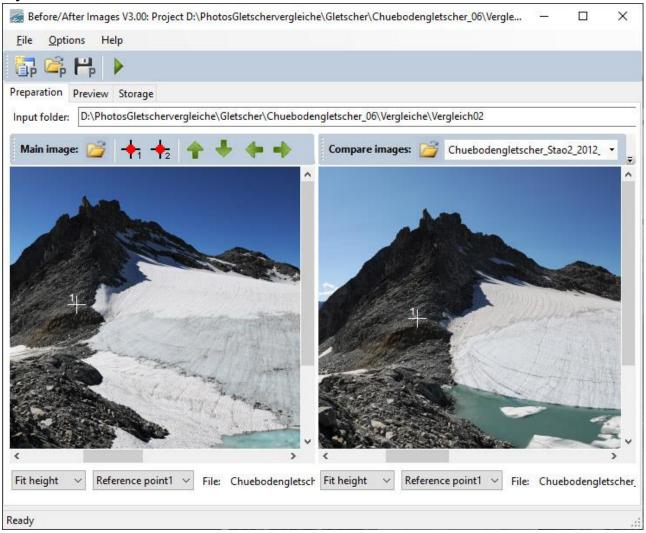
With the functions of the Tabs *Preparation* following operations can be executed:

- 1. Specifying where image files.
- 2. Load main image.
- 3. Set reference points in the main image.
- 4. Load comparison images.
- 5. Set reference points in the comparison images.

Call

The *Preparation* tab appears by clicking on the preparation area below the main toolbar.

Layout



The tab *Preparation* consists of the following two halves:

- Main image (Left half)
- Compare images (Right half)

Each of the two halves in turn consists of the following parts:

- Toolbar
- Area for displaying the image
- Area with controls for various display options and additional information.

Input fields

• Input field Output folder

In this field, the folder must be defined, where the image files are stored, which are to be used for the image comparison.

Functions

Main tool bar

The main tool bar is located below the main menu.



Create a new (= empty project).



Open an existing project.

The photos, the reference dots and the settings of the cut lines are loaded.



The current settings (Names of image files, referenc points and the settings of the cut lines are saved to a project file.



The comparison images are scaled, rotated and aligned. Then the preview is displayed. If too few images were loaded and / or too few reference points have been set, an error message is displayed. In this case, the operations of scaling, rotation and alignment are not executed.

Image toolbar

The image toolbar is located above the area where the image is displayed.



Load a photo of the photo comparison.

Supported formats:

- JPG
- PNG
- TIFF
- O Drop down list

 Chuebodengletscher_Stao2_2012. (only comparison images / right half)

 In this dropdown list all previously loaded comparison images are listed. In this list, the image can be selected to be displayed and edited.
- o **Icon** (only comparison images / right half)

 Delete the current comparison image from the list. The image file itself is not deleted from the hard drive.



Set reference point 1.



Moving the selected reference point one pixel up, down, left or right.

With these functions, the reference points can be precisely set to a specific pixel.

Selection list **Zoom**

With the entries of this list can be specified the zoom factor with which the image is to be displayed. For setting the reference points we recommend to use a zoom factor of 100% or 200%.

• Selection list Reference points

Once reference points have been set, they are displayed in the selection list.

When a reference point is selected in the selection list, the visible area of the screen is positioned so that the selected reference point is visible.

Show/hide reference point

By pressing the F2 key, a marked reference point can be shown/hidden. Procedure:

- 1) Click on the reference point with the mouse.
- 2) Press the F2 key.

1.1.1 Select image

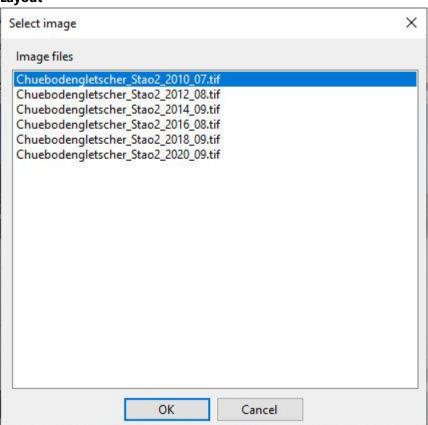
In this dialog, an image file can be selected.

In the selection list all image files (JPG, TIFF and PNG) are shown, which are contained in the input folder (Section/Tab <u>Preparations</u>).

Call

The dialog is displayed after a click on the icon (Section/Tab <u>Preparations</u>).

Layout



Functions

Rutton OK

The name of the selected image file is saved and the dialog closed.

• Button Cancel

Abandon all changes and closes the dialog.

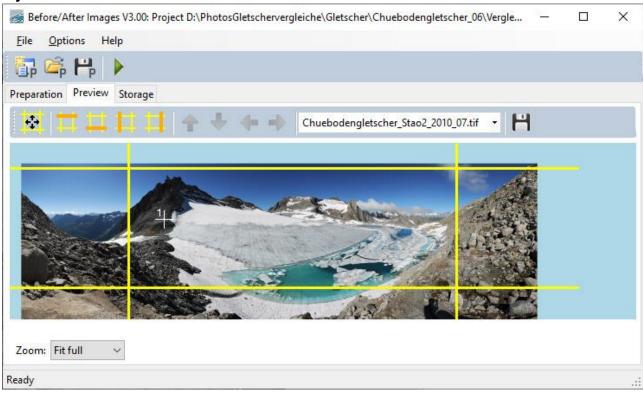
1.2 Tab Preview

In the *Preview* tab, the images are accurately displayed one above the other. The user can alternatively display the images. With the cut lines, the user can specify which part of the images should be stored in the storage tab.

Call

The *Preview* tab is displayed by clicking on the preview area below the main toolbar.

Layout



Functions



Resetting the cut lines in the initial position.



Select the upper cutting line.

The upper cutting line can also be selected via the context menu with *Right mouse button / Select upper cutting* line.



Select the lower cutting line..

The lower cutting line can also be selected via the context menu with *Right mouse button / Select lower* cutting line.



Select the left cutting line.

The left cutting line can also be selected via the context menu with *Right mouse button / Select left* cutting line.



Select the right cutting line.

The right cutting line can also be selected via the context menu with *Right mouse button / Select right* cutting line.



• Icon

Move the selected cutting line upwards.

The selected cut line can also be moved with the Up arrow key if the mouse pointer is over the preview image.

Each click or keystroke moves the selected cutting line one pixel up (relative to the original size of the image files).



Icon

Move the selected cutting line downwards.

The selected cut line can also be moved with the Down arrow key if the mouse pointer is over the preview image.

Each click or keystroke moves the selected cutting line one pixel down (relative to the original size of the image files).



Icon

Move the selected cutting line to the left.

The selected cut line can also be moved with the Right arrow key if the mouse pointer is over the preview image.

Each click or keystroke moves the selected cutting line one pixel right (relative to the original size of the image files).



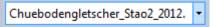
Icon

Move the selected cutting line to the right.

Die selektierte Schnittlinie kann auch mit der Taste *Pfeil Rechts* bewegt werden, sofern sich der Mauszeiger über dem Vorschaubild befindet.

Pro Klick oder Tastendruck wird die selektierte Schnittlinie um ein Pixel (bezogen auf die Originalgrösse der Bilddateien) nach rechts bewegt.

• Selection list



The choice list contains all images of the image comparison. The choice list contains all pictures of the picture comparison.



Save the processed images.

Selection list Zoom

Zoom factor with which the images are to be displayed.

Cut lines

If a section of the yellow lines is clicked, this line is displayed in orange (= selected). With the cursor the cut line can now be moved.

1.3 Tab Storage

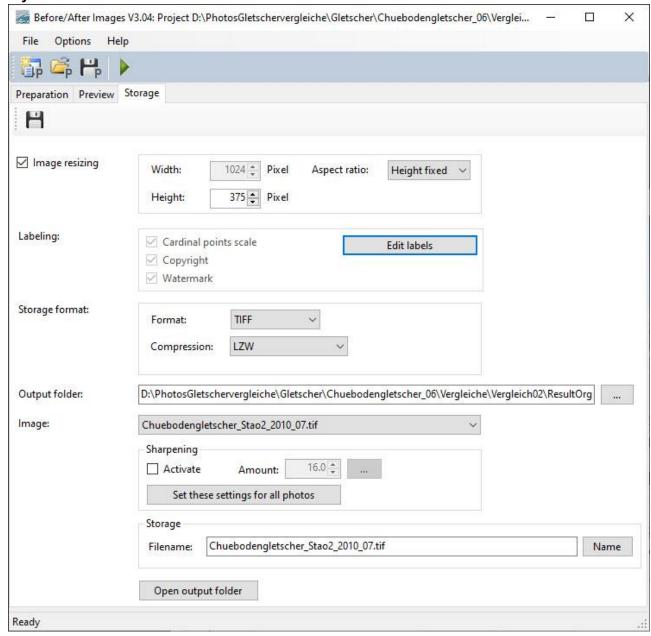
In the tab *Storage* the user can specify,

- whether the perfectly fitting images should be resized and /or sharpened, before saving,
- whether to add labels to the exact-fit images,
- image format, in which the storage is to occur and
- file name (including path) of the images to be stored.

Call

The Storage tab is displayed by clicking on the storage area below the main toolbar.

Layout



Input fields

• Check box Image resizing

If this box is checked, the images will be resized before saving.

• Input field Width

Width of the resized images in pixels.

• Input field *Height*

Height of the resized image in pixels.

• Selection list Aspect ratio

The choices are:

None

The image is saved in the height and width defined by the user.

Fixed width

The images are stored in the width defined by the user.

The ratio of the cut lines is maintained, i.e. the height is adapted to the width.

Fixed height

The images are stored in the height defined by the user. The ratio of the cut lines is maintained, i.e. the width is adapted to the height.

• Selection list *Image format*

The following output file formats are currently supported:

- JPG
- PNG
- TIFF

Depending on the format, different options can be selected:

- JPG / Quality: Specifies the storage quality. Best Quality: 100
- LZW / Compression: None or LZW.

• Input field Output folder

The images of the comparison are all stored in the same folder. In this input field you can define this folder.

By default, the folder is used, which is defined in the <u>Dialog Folder</u>.

• Selection list Image

This list contains all the images that were used for the comparison. For the currently selected image is displayed:

- Settings for sharpening the image.
- File name for storing the image. These values can be changed.

• Input field Filename

File name for storing the image.

• Checkbox Sharpening

If this checkbox is activated, the image is sharpened before storing. In the input field *Value*, the strength of the sharpening can be set.

Functions

• Icon (Toolbar Storage tab)

After clicking on this icon the images will be resized and/or sharpened and then stored. If one or more files already exist, the <u>Dialog Confirm overwrite</u> is displayed before processing.

• Button Edit settings

The <u>Dialog Labeling</u> is displayed. In this dialog the labels

- scale cardinal points,
- copyright text and
- watermark

can be edited.

The status of the checkboxes of the same name (disabled) indicates which labels are enabled.

• **Button** ... (Sharpening)

The <u>Dialog Sharpen</u> is displayed. In this dialog the parameters for sharpening the images can be adjusted and controlled.

• **Button** ... (Output folder)

The standard Windows dialog for selecting a folder is displayed. The user can select the output folder.

• **Button Name** (Output file name)

Generates the filename for storing the image from the defined output folder, the name of the input file and the selected file format.

• Button Open output folder

Opens the Windows Explorer and shows the content of the output folder.

1.3.1 Labeling

In this dialog you can define how the repeat photos should be labeled.

The following options are available:

• Cardinal points scale

The scale is displayed at the top of the (panorama) photo.

Copyright

The copyright notice is displayed at the bottom left.

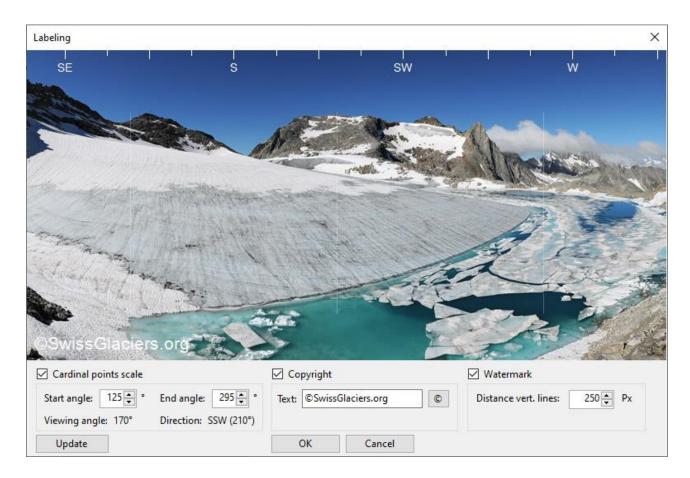
Watermark

Vertical lines are drawn into the (panorama) photo as watermarks.

Call

The dialog Labeling opens after clicking the button Edit settings in the Storage tab.

Design



Input fields

• Check box Scale cardinal points

Marked = The scale of the cardinal points is displayed / written to image file. Not marked = The scale of cardinal points is not displayed / not written to image file.

• Input field Start angle

Sets the cardinal direction of the left edge of the (panorama) photo in degrees. 0° = North, 90° = East, 180° = South and 270° = West.

• Input field End angle

Sets the cardinal direction of the right edge of the (panorama) photo in degrees. 0° = North, 90° = East, 180° = South and 270° = West.

• Check box Copyright

Marked = Copyright text is displayed / written to image file.

Not marked = copyright text is not displayed / not written to image file.

Input field Text

Text to be used as copyright notice.

• Check box Watermark

Marked = The vertical lines are displayed / written to image file. Not selected = The vertical lines are not displayed / not written to image file.

• Input field Distanz vert. Linie

Distance of vertical lines in pixels

Additional information

• Viewing angle

After opening the dialog or after pressing the *Refresh* button, the start and end angles are used to calculate the viewing angle.

• Direction

After opening the dialog or pressing the *Refresh* button, the direction of view in the centre of the photo is calculated from the values of the start and end angles.

Functions

• Button *Update*

The display is updated and the labels are shown according to the current settings.

• Button OK

The current settings are saved and the dialog is closed.

• Button Cancel

All changes are discarded and the dialog is closed.

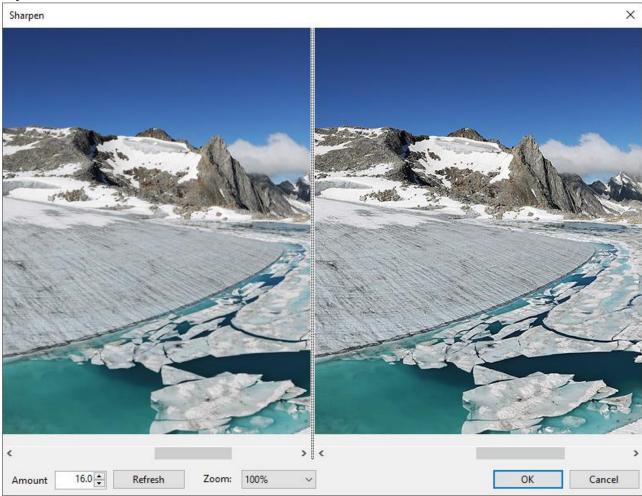
1.3.2 Sharpen

In this dialog the parameters for sharpening the output image can be defined and verified. Left, the original image is displayed, right the sharpened image.

Call

The Sharpen dialog is opened by clicking the button ... in the Storage tab.

Layout



Input fields

• Input field Value

In this field, the strength of the sharpening can be defined. Default value: 16.

• Selection list Zoom

With the entries of this selection list can be specified the zoom factor with which the image is to be displayed.

Functions

Button Refresh

Sharpens the image using the current settings and update the right display.

• Button OK

The current settings are saved and the dialog is closed.

• Button Cancel

Abandon all changes and closes the dialog.

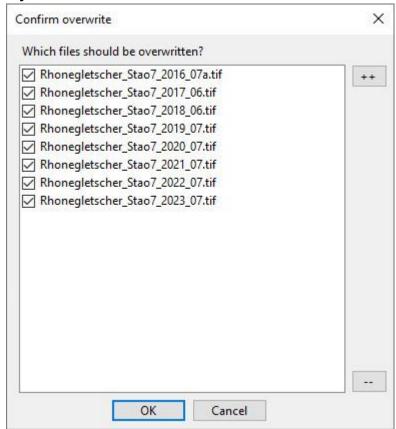
1.3.3 Confirm overwrite

In this dialog, you can specify which files are to be overwritten and which should not be overwritten.

Call

The dialog is displayed if at least one (image) file already exists when the (image) files are saved.

Layout



Input fields

List Files

This list shows the names of all (image) files that already exist and are to be saved.

Functions

• Button ++

Set overwrite for all files.

• Button --

Reset overwrite for all files.

• Button OK

All data is saved and the dialog is closed. The (image) files are saved according to the current settings.

Button Cancel

All changes are discarded and the dialog is closed.

2. Options

The following options can be set:

- Folder
- Settings
- Language

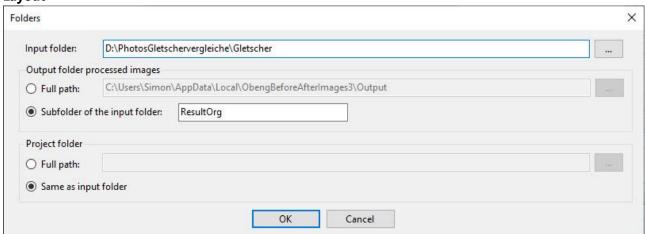
2.1 Folder

In this dialog, the default values for different folders can be set.

Call

The dialog can be accessed via the menu item Options / Folder....

Layout



Input fields

• Input field Input folder

The folder defined in this input field will be the default value for input field *Input folder* (Section/Tab <u>Preparation</u>).

• Group Output folder processed images

The folder defined in this input field is used as the default value for the input field *Output folder processed images* (Section/Tab Storage).

Option / Input field Full path

Option selected: The folder defined in the input field *Full path* or selected by will be the default value for input field *Output folder processed images* (Section/Tab Storage).

Option Subfolder of the input folder

Option selected: The sub folder defined in the input field *Subfolder of the input folder* will be the default value for input field *Output folder processed images* (Section/Tab Storage). Sample:

- Input folder: C:\Work\
- Subfolder of the input folder: ResultOrg
- Defaut output folder: C:\Work\ResultOrg

Group Project folder

o Option / input field Project folder

Option selected: The folder defined in the input field *Full Path* or selected by will be used with the first call of the function *Load project / Store project*.

o Option Same as input folder

Option selected: The folder defined

Functions

Button OK

All data is saved and the dialog is closed. Before saving the data entered will be tested for plausibility. An error message is displayed when an incorrect input is detected or when such a recognized folder does not exist.

• Button Cancel

Abandon all changes and closes the dialog.

• **Button** ... (Input field *Input folder*)

Using this function, the *Find Folder* dialog can be opened. This dialog makes easier to search for a specific folder.

• **Button ...** (Input field *Output folder processed images*)

Using this function, the *Find Folder* dialog can be opened. This dialog makes easier to search for a specific folder.

• **Button** ... (Input field *Project folder*)

Using this function, the *Find Folder* dialog can be opened. This dialog makes easier to search for a specific folder.

2.2 Settings

In this dialog, the default values for different values can be set.

Call

The dialog can be accessed via the menu item *Options / Settings....*

Layout



Input fields

• Selection Default image format storage

The selected value is used as the default for the image format for storing the processed photos (Section/Tab Storage).

Functions

Button OK

All data is saved and the dialog is closed.

Button Cancel

Abandon all changes and closes the dialog.

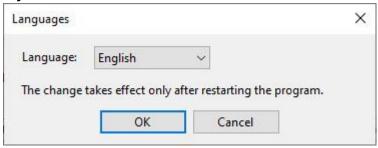
2.3 Language

In this dialog you can define the language for the user interface to be displayed.

Call

The dialog can be accessed via the menu item Options / Language... .

Layout



Input fields

Selection list Language

In this selection list, the language can be determined, in which the user interface to be displayed.

Functions

Button OK

The selected language is saved and the dialog is closed. Changes take effect only after restarting the software.

• Button Cancel

Abandon all changes and closes the dialog.

2.4 Logging

In this dialog the extended logging can be switched on/off.

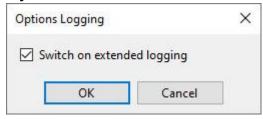
The extended logging helps to find errors. Errors which occur e.g. only at one customer.

For such an error search the software must be adapted from case to case.

Call

The dialog can be called up via the Options / Logging... menu item.

Layout



Input fields

• Check box Switch on extended logging

If the check box is checked, additional data will be written to the log file.

Functions

• Button OK

All data is saved and the dialog is closed.

• Button Cancel

Abandon all changes and closes the dialog.

3. Activation, Updates, etc.

The choices are:

- Activation
- Updates
- About Before/After Images

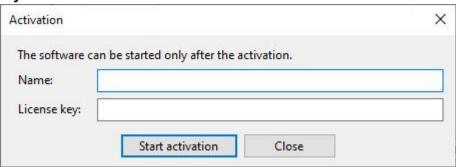
3.1 Activation

This dialog is needed to activate the software.

Call

This dialog can be accessed via the menu item *Help / Activation*. This dialog is called after the program start if the full version of the software has not been activated yet.

Layout



Input fields

• Input field Name

The name of the licensee can be typed into this input field.

• Input field License key

In this field, the license key must be entered.

Functions

Button Start activation

After pressing this button the activation starts. Activation requires a working internet connection.

• Button Activate later

With this switch, the activation can be postponed. This button is enabled only if the time has not yet elapsed for the activation.

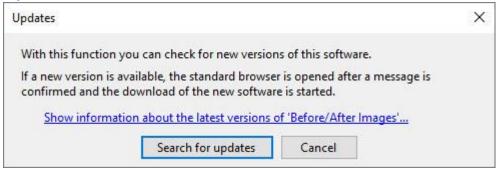
3.2 Updates

This dialog allows you to search for new versions of this software.

Call

This dialog can be accessed via the menu item Help / Updates... .

Layout



Functions

- Link Show information about the latest versions of 'Before/After Images'...

 Clicking on this link opens the standard browser and displays the page Before/After Images:

 What's new?
- Button Search for updates

This button starts the search for newer versions of this software. This feature requires a working internet connection.

• Button Cancel
The dialog will be closed.

3.3 Show log file

With this function, the log file can be displayed in the default program for TXT file.

Call

The log file can be displayed via the menu item Help / Show log file.

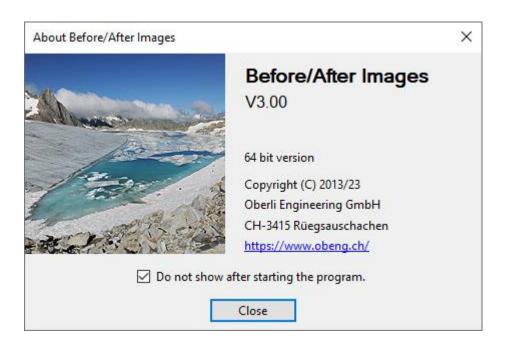
3.4 About...

This dialog displays the information about the current version of *Before / After images*.

Call

This dialog can be accessed via the menu item Help / About Before/After images... .

Layout



Input fields

• Check box *Do not show after starting the program*If this check box is selected, the dialog is not displayed after starting the program.

Functions

Button Close

The dialog is closed. Changes in the input field will be saved.