HDR projects 8 professional

User manual

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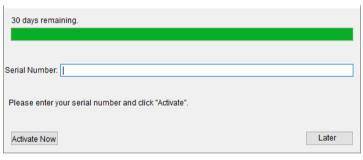
1. Activation

Activation using Windows

Upon starting **HDR projects 8 professional** for the first time, you will be prompted to activate the program. Proceed as follows:

Install **HDR projects 8 professional** as described by the installation instructions.

Input your serial number. For the box version, this can be found on the accompanying booklet. If you have chosen to download the program, you will find the serial number in your customer account at www.franzis.de.



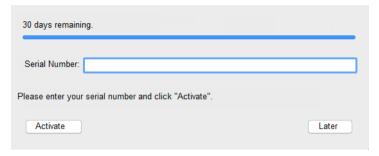
Finally, click on the "Activate" button. The software has now been successfully activated!

Activation using Mac

Upon starting **HDR projects 8 professional** for the first time, you will be prompted to activate the program. Proceed as follows:

Install **HDR projects 8 professional** as described by the installation instructions.

Input your serial number. For the box version, this can be found on the accompanying booklet. If you have chosen to download the program, you will find the serial number in your customer account at www.franzis.de.



Finally, click on the "Activate" button. The software has now been successfully activated!

Note: HDR projects 8 professional can be installed on up to two computers using the same serial number.

A second serial number is not required. When installing the program on a second device, simply enter the serial number again and press "Activate".

Fascinating High Dynamic Range Photography

Even the most modern digital cameras have a limited dynamic range. Drastic lighting contrasts exhibit this restriction easily, such as with a photo taken indoors looking outside, like in the first example shot. You either have a properly lit interior, where the surrounding park behind the arches are far too bright, or an image with an adequately lit park, but with an interior that is far too dark.

HDR technology, short for **High Dynamic Range**, clears up this problem by generating images with an extremely large dynamic range, unmatchable by monitor displays or prints.

The idea is simple - several images with varying exposure times are assembled into one image. In our example, three shots are fused: an image with a longer exposure time to capture the dark details inside the pavilion, a short exposure shot where the park behind the pavilion is correctly lit, as well as an exposure exactly in the middle.





The combined result is a single image containing all of the light, midtone and shadow detail. **HDR projects 8 professional** does the work for you. The capable program merges the bracketing exposure images and uses tone mapping to establish a photo fit for printing and screen displays.



The combined image contains all of the details of the pavilion and park, properly lit just as we saw the scene with our own eyes.

In the next few pages we will show you how quickly you can create fascinating images with **HDR projects 8 professional** and what you can achieve with its immense range of functions.

An obvious case for **HDR projects 8 professional** - an evening scene with lanterns can only be captured naturally using HDR technology. Otherwise, the dark surroundings would not be capturable with the bright lights. A camera sensor's range of contrast is very limited when compared to that of the human eye.









All of the details are realistically depicted in the fused photo.

Tip: Always capture your bracketing series with different exposure times and not just with different blending values. Merging the images requires an identical depth of focus for all of the individual shots.

3. What's New?

HDR projects 8 professional offers many new features. Here is a summary of some of the most important developments:

a. Dynamic interface:

The user interface adapts flexibly to the respective screen resolutions and can also be operated on UHD/4 K screens with a resolution of 3840 x 2160 pixels or WQHD (2560 x 1440 pixels) in the usual quality. The presets, control panels, buttons and fonts in the windows and tabs are slightly larger, the controls are wider and therefore easier to operate and read (see Chapter 4: Configuring the User Interface).

b. 5 freely assignable HDR styles

One of the "big features" and significant enhancements: The 5 switchable HDR styles in the upper row, which immediately affect all presets, have been supplemented by 5 additional HDR styles in the lower row, which can be freely assigned and configured (see also chapter 9: **Post-Processing Presets**)

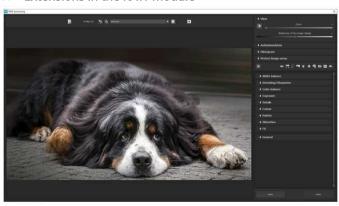
Note: Also the upper 5 HDR styles can be overwritten by the user.

c. All presets have been completely overworked.



All 189 presets on the left side of the program interface have been completely overworked according to the latest findings: New effects, a more contemporary look, improved colour noise handling (colour noise is now eliminated or reduced before tone mapping) and adjustments to many of the effects parameters ensure that you get even more coherent and impressive results in all automatic presets.

d. Extensions in the RAW module



Shot information: The metadata associated with the image such as resolution, aperture, exposure time, focal length and ISO number can be displayed.

Protect image area: This new area protects image areas from changes made in the RAW module. It affects single images as well as exposure series or the entire image sequence and all effects (see also chapter 21: **RAW image processing).**



Presets in all areas/categories:

In each category, clicking the arrow next to "Defaults" will now offer a preset selection that matches the selected range.

In addition, the presets of the individual categories can be combined, e.g. "Exposure/Brilliant" and "Colour/Summery" (see also chapter 21: **RAW image processing**).

e. Smart Exposure Analysis of the exposure series:





By clicking the "Smart Explosure Analysis" button in the "Edit exposure bracket" module, all images in the exposure series are now checked for blur and exposure. This tool is an effective

aid for the analysis of individual images of the exposure series and especially takes the master image into account (see also chapter 16: HDR Generation and Editing the Exposure Series).

f. Alignment "ultra" in HDR preparation



This new quality mode for image alignment in the "HDR Preparation" module (Menu -> Extras/HDR Preparation) is suitable for image sequences or exposure series that do not yet lead to the desired result in the "normal" alignment modes. The image alignment is calculated even more precisely and thus leads to a better HDR result image.

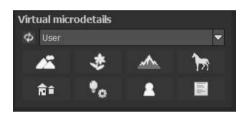
The result image is optimized and sharper (see also chapter 8: **HDR preparation**).

g. 3 new buttons in the Granulation Module



The granulation module now offers 3 colour spaces - RGB, HSV and HSL - to allow a more differentiated and targeted use of granulation. In the HSV calculation, for example, "Natural grain" and "Fractal grain" have a significantly weaker grain size in comparison to the HSL colour space for strong, vivid colours. This allows you to use the desired grain size more effectively and with greater variation, e.g. for composings (see also Chapter 10: Post-processing/Finalise/Film grain).

h. New module "Virtual Microdetails"



This module creates virtual micro details. Virtual means that depending on the chosen category, details are "included" which could be in the image (i.e. appear plausible), but are actually not present in the original. The individual categories - e.g. "Landscape" and "Mountains" - can also be combined (see also Chapter 10: Post-Processing/Finalise/Virtual Microdetails).

i. New module "Colour module"



This new module is one of the most important and impressive innovations and manipulates colours in the best way.

With the first click on the button "colour module" the colour module window opens...



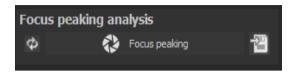
... and with the 2nd click on the button "New Layer" you see the layout with the colour circle and all sliders, which allow a lightning fast re-colouring of the desired image parts.

With the pipette you can select any coloured area, which is immediately displayed in the colour circle. This colour selection can be extended or narrowed down to a lower/greater saturation, an extension of the colour spectrum (colour angle) etc...

Use the target hue/saturation/exposure/contrast sliders to select the desired new hue.

You can try out all conceivable image look variations on up to 6 layers and further manipulation options via "Settings" and practically control colour in a separate "Composing module" (see also Chapter 10: **Postprocessing/Finalise/Colour module'**)

j. New module "Focus peaking analysis



The Focus-Peaking module displays the areas in an image on which the focus of the camera was focused in colour, analyzes the current result image ...

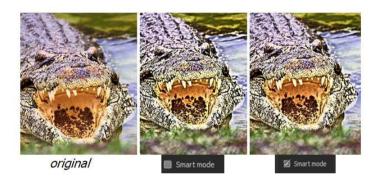


... and visualizes the "sharp" (more precisely: contrasty pixel by pixel) areas as soon as you click on the "Focus-Peaking" button (see also Chapter 10: **Post-Processing/Finalise/ Focus peaking analysis**).

k. Selective drawing: New modes for effect masks

Most effect masks now offer the option of using an "Intelligent Mode", which is switched on by default. This mode analyses

every pixel in the image and then decides individually how much detail amplification (in the image example) makes sense.



The image comparison shows that the detail amplification with "Smart mode" switched on is much more reduced than without it (see also chapter 12: Local Adjustments/Selective Drawing/FX Effects).

I. Two new calculation qualities for texture masks





The two new calculation qualities "HD" and "ultra HD" make the textures look even more homogeneous and natural, especially at high zoom (see also Chapter 14: Texture masks).

m. New effects in expert mode

The effects include:

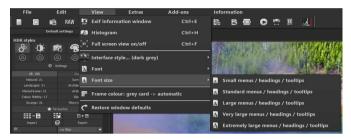
- Masking sky blue
- Masking Organic Green
- Colour dynamics (adaptive)
- Horizontal soft focus
- Vertical soft focus
- Stretch/compress

has been added (see also Chapter 11: **Post-Processing Expert Mode/Post-processing filter).**

4. Configuring the User Interface

Optional font size for menus and titles

In the program's main menu, clicking **View > Font size** will provide you the option to customise the size of the letters in the menu as well as in the titles of the program.

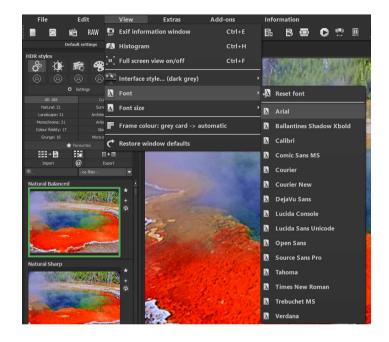


The font size can be adjusted to the run time of the program.

4K – monitors gives you the option to enlarge the font size for better readability of the menu.

Select a font

HDR projects 8 professional offers you the opportunity to designate a suitable font of your preference. You will find a selection of the installed and compatible fonts in **View** → **Font**, simply pick your favourite.

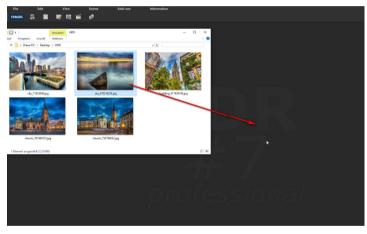


If you want to change the font back to standard select **View** \rightarrow **Font** \rightarrow **reset font.**

5. HDR Photos Done Quickly

You can obtain a finished HDR image in just 5 clicks with HDR projects 8 professional.

- 1. Load Images
- 2. HDR Preparation
- 3. Post-Processing → Select HDR Style → Preset Selection
- 4. Set the optimisation assistant
- 5. Select Image segment and Save, that's it!



You can simply drag and drop your images or bracketing series onto the start screen.

How to get the results you want, and fast - the elaborated presets and looks, individual image adaption and selected drawing allows you to go down your own creative route. **HDR projects 8 professional** offers both options.

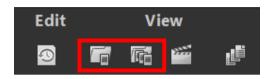
At the top of the screen are the main menu as well as the menu bar. This menu bar contains the following functions (from left to right):

Exposure bracketing browser
 History viewer
 HDR from a single image
 Import exposure bracketing
 Open project
 Batch processing (HDR + tonemapping)

Optionally, image data may also simply be "dropped" onto the screen by Drag & Drop. The image data is then uploaded automatically.

6. Importing Image Material

To load a single image or a bracketing series, simply drag and drop the images onto the start screen. Alternatively, you can also use the toolbar buttons or drop-down file menu.



The **maximum number** of possible exposures of a bracketing series is **100 pictures** in **HDR projects 8 professional**.

How does this number come about?

A HDR- photograph (High Dynamic Range) differentiates from other photographs through one major characteristic:

The information of 32 exposure levels (32 Bit/ 32 ev) can be saved in one image.

These 32 exposure levels (32 Bit/32 ev) are made up of the accuracy of RAW images with 14 exposure levels (14 Bit/ 14 ev) as well as the exposure differences throughout the bracketing series.

Let's take for example a bracketing series that was taken with - 2ev, 0ev, and +2ev. Which has as a result the dynamic range of +2-(-2) = 4 ev as exposure difference. This plus the 14 exposure

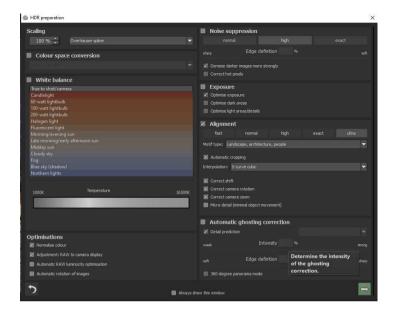
levels from RAW, has a total of 18 ev exposure levels (18 Bit/18ev).

55 Images are already sufficient to exactly replicate a bracketing series from -9 ev to +9 ev with intervals of 1/3 ev between two images. This ensures that you have used the maximum exposure that you can get out of a very good camera.

Adjusting the +/- exposure value controls on your camera to positive/negative values will allow you to generate additional exposures for your standard exposure bracket.

The HDR preparation dialog will open as soon as an image or a bracketing series has been selected or dragged and dropped into the program.

Here you can choose if you want to see the dialog each time you upload a bracketing series (click on the box at the bottom).

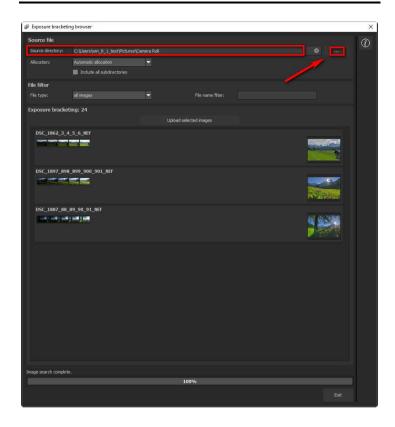


> Exposure bracketing browser



For a better overview of your bracketing series you can use the exposure bracketing browser before uploading your bracketing series.

Click on the corresponding symbol in the task bar. A preview window will open. Chose by "quell folder" your exposure bracketing browser folder.



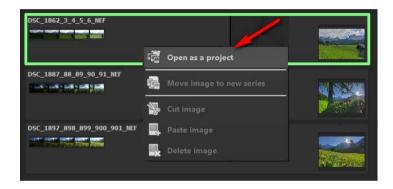
HDR projects 8 professional starts immediately with the calculation, fitting automatically the right images together as well as showing a preview image. If you go across the image with the mouse, the image will automatically enlarge itself.

The file type-filter is practical here, since one often has jpg rows and RAW images together in one folder. But if you type in RAW

in the file type, only the RAW rows will be shown. You won't have any doubles any more.

At 100% the search for images is finished.

From this point on you will be able to upload the desired bracketing series. Click on the desired row with a right mouse click and chose in the context menu "open as project".



HDR projects 8 professional uploads the images of the desired row and just like the simple Drag & Drop of the images on the desktop. Now you are ready to begin with HDR preparation.

7. Menu Bar

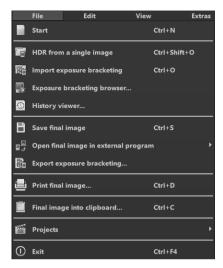
7.1 File

File → Start

When you are finished editing an image or would like to close your current image, clicking on **Start** (or **Ctrl** + **N**) will close the image currently open.

File \rightarrow HDR from a Single Image \blacksquare

To open an image, click HDR from a single image (or Ctrl + Shift + O).



File → Import Exposure Bracketing

In order to open an image, click on **Import Exposure Bracketing** (or **Ctrl** + **Shift** + **O**) ... to search for the exposure bracket you would like to edit.

File \rightarrow Exposure Bracketing Browser

Select your bracket folder from within the "Source-Folder". **HDR projects 8 professional** immediately begins its calculation process and automatically gathers the best photos from your bracketed series. From here you can then upload your preferred exposure bracket.

File → History Viewer

Clicking here will provide you with an overview of your separate projects and allow you to choose between them.



If you are content with your editing results and would like to save your image, click on **Save Final Image** (or **Ctrl + S**).

File →Open Final Image in External Program 률

If you would like to continue editing your current image in another program, you don't even need to leave HDR projects 8 professional. For this, simply click on Open Final Image in External Program.

File \rightarrow Export Exposure Bracketing

Select **Export Exposure Bracketing** in order to save your edited exposure bracket and open it in an external program.

File \rightarrow Print Final Image \blacksquare

Click here to print your final image. The image is automatically and correctly scaled to the print medium.

File → Final Image Into Clipboard

The final image is posted to the clipboard. You can then seamlessly insert it into other programs.

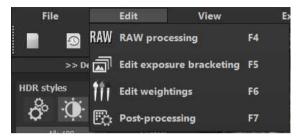
File → Projects 🖺

If you've already begun a project in **HDR projects 8 professional** and would like to continue editing, open the file by clicking on **Projects**.

File → Exit ①

Click on Exit (or Ctrl + F4) to close HDR projects 8 professional

7.2 Edit



Edit → RAW Processing RAW

Whenever you want to easily edit a photo, simply click on **RAW Processing** to do things like alter colours within the photo or distort the image (please see 21. RAW Processing)

Edit → Edit Exposure Bracketing 🗐

HDR projects 8 professional utilizes a complex process to filter out all accurately exposed pixels and combine them into one image (please see 16. HDR Creation and RAW Image Editing).

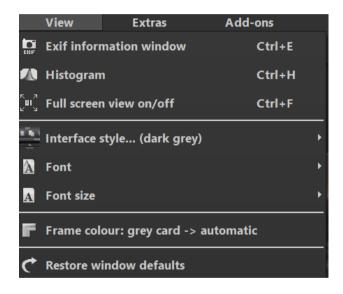
Edit → Edit Weightings

The Weight Painter is a tool used for manually editing individual HDR images in a series in order to selectively alter specific regions of the photograph. (Please see 17. Edit Weighting with HDR Painter).

Edit → Post-Processing 🖺

Once you have edited or removed noise from an image, you find yourself in Post-Processing Mode.

7.3 View



View → EXIF Information Window

This window shows you (if available) all image file EXIF information such as location, camera type, exposure duration and capture time.

View → Histogram 🔼

The histogram provides you with a consolidated overview of the **Light Distribution Information** present within your photo. This makes it easy to recognize if your photo is over/ underexposed.

View → Full Screen View On/Off

If you ever feel distracted by the task bar, you can toggle between a normal and full screen view by clicking on **Full Screen View On/Off.**

View → Interface-Style... (dark gray)

Clicking on **Interface Style...** will allow you to alter the colour scheme for **HDR projects 8 professional.** The colour scheme you have currently selected will appear in brackets.

View \rightarrow Font

Choose your individual font from all compatible and loaded fonts. **HDR projects 8 professional** now displays the entire interface in the font you have selected.

View → Font Size...

Change the font size levels between small, medium and large.

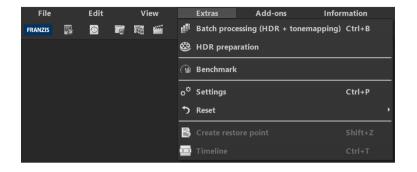
View → Frame Colour: Gray Cart →automatic

If you click on **Frame Colour: Gray Cart,** the program will set the your image's average colour value as the frame colour.

View → Restore Window defaults

Returns the current window to its original size.

7.4 Extras



Extras → Batch Processing (HDR + Tonemapping)... (Ctrl + B)

Batch Processing in **HDR projects 8 professional** enables the automatic processing of multiple bracketed series.

Extras \rightarrow HDR Preparation

Here you can begin to prepare your images prior to HRD Creation (please see 8. HDR Preparation)

Extras → Benchmark 🚳

If you would like to test how quickly your PC can remove noise from your images, **Benchmark** is the function to choose. The programs will render five different images in real-time and provides you with an evaluation on a five-star scale.

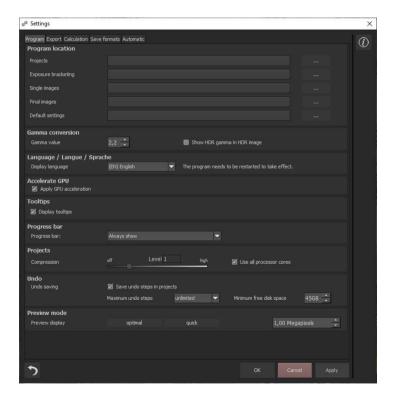
Here the text size can be scaled in 4 sizes.

Extras → Settings (Strg + P) °

Here you will find the various configuration options adaptable to your unique preferences offered in HDR projects 8 professional.

Program: Program Location

Here you can determine to which folder to save your projects, exposure bracketing/ photo series, final images and default settings.



Program: Gamma conversion

You can enter the development gamma value for all floating point file format HDR images (i.e. *.hdr and *.exr files) you load or save.

Program: Language

Here you can change the **HDR projects 8 professional** program language to either German, English or French.

Program: Accelerate GPU

Here you can choose to either activate or deactivate graphic card computing speed acceleration.

Program: Tooltips

Hovering your cursor long enough over specific tools or menu options will prompt the display of a short text offering an explanation of the function or tool. This is called Tooltip. Tooltips can also be deactivated here if preferred.

Program: Progress bar

During processing of effects in **HDR projects 8 professional,** processing will be displayed with the help of a progress bar. Here you can decide when and whether to display the progress bar.

Program: Projects

When selecting the compression level, you are deciding how much storage space will be allocated for each one of your projects. At the

same time, you are also deciding on how quickly the storage is performed. A lower level saves the projects faster, a higher level reduces the amount of storage space available on your hard disc.

Program: Undo

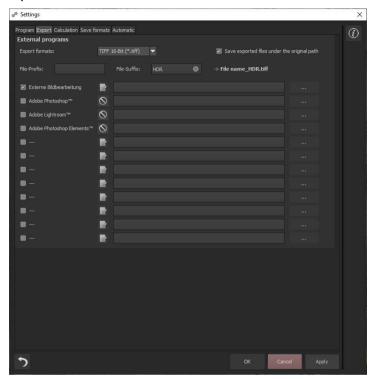
With the option "save undo steps in projects", you can save all undo steps within the project file. The undo-steps will then be completely reproduced when the file is opened. This creates a significantly larger project file. Set the **maximum** number of **undo steps** (1, 5, 10, 20 or 50). If you do not wish to set a maximum, select "unlimited".

The **minimum free disk space** specifies the amount of free space on your hard drive that will not be taken up by saving undo steps. This ensures the proper functioning of your operating software. By default, this is set to 10% of your hard disk capacity but can be increased or decreased accordingly.

Program: Preview Mode

In preview mode you can choose between the modes "optimal" and "quick". With the "optimal" mode activated, the preview size is adapted to the size of the original image. It guarantees maximum preview quality. If the "quick" mode is activated, the preview size is reduced to half of that of the original image. This guarantees you the highest possible speed in preview mode. Moreover, you can set the size of your preview area in megapixels if you have not selected optimal or quick mode). Select a high value if you have a very fast computer.

Export

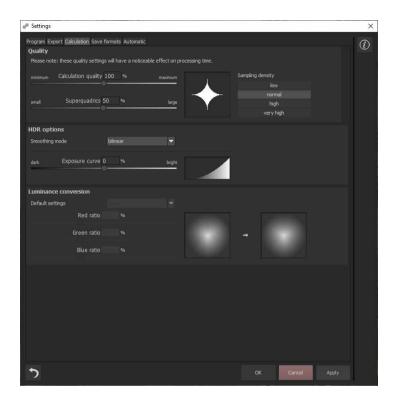


External Programs

Here you can choose in which format **HDR projects 8** will export images to external programs. You can specify as well which programs should be used for external image editing.

Navigate to the file in which the function is installed and select it.

Calculation



Quality

The **Calculation quality** is a measure of the size of the area of influence around a given pixel used when it is calculated in an algorithm.

Superquadrics describe geometrical forms (in this case, areas) with specific curvatures. This geometrical form is transferred to the influential area of the algorithms. For each pixel only surrounding pixels that are within its superquadric are considered (shown as a white area). If

you want to maximize calculation quality for your shots, push both slides as far right as they go. Remember that this will require far more processing power.

Scanning density: Choose from four options how thoroughly the area of influence is scanned by the different algorithms. The option low provides fast results with lower quality, while the very high option provides the highest quality at the expense of processing time.

HDR options

There are two settings in HDR options:

Smoothing mode

There are four algorithms available for smoothing HDR weighting matrices.

- (a) linear smoothing is the simplest form of smoothing and is best for soft shots such as landscapes.
- (b) bilinear smoothing is a squared smoothing technique good for shots with some details.
- (c) trilenear smoothing is a cubed smoothing technique ideal for shots with some but not too many details.
- (d) quadrilinear smoothing is smoothing to the power of four and useful for shots with strong or complicated details.

Exposure curve

Use the exposure curve to determine how your exposure series should be converted when optimised. The further to the right you slide the control, the lighter your exposures will become. The exposure curve resulting from the selected value will be shown to the right of the slider.

Luminance conversion

Luminance conversion allows you to determine which colour is valued higher when converted to brightness (luminance). You can select the three usual standard options in default settings. Alternatively, you can set colour weighting directly by using the slider. For this control, the sun of all three colour rations must add up to 100%.

The two colour circles displayed help you to get an idea of how the value you entered affects the various colours. The left-hand circle shows the original colours while the right-hand circle shows the brightness as converted using your values.

Save formats



Jpg

Jpg or Jpeg is the most common and popular format for most cameras and image editing programs. Here you can control the quality as well as optimally compress the image. Compressed images with high quality look better but do require more storage space.

Tif

Here you can choose between different compression methods for your Tif files.

Png

Png is popular for its graphics and digital visualisation. Here you can choose between a number of compression methods.

Automatic



Automatic: Primary View

Select whether the software should start in the post-processing or directly in the motion analysis after uploading image files.

Automatic: Motion Algorithms

Here you can activate the resetting of the motion algorithms when opening a new sequence.

Automatic: Post Processing

Post-processing automatically sets the corn engine back to its original settings with every newly started project. To use a fixed corn value in batch processing, set this in the program and then deactivate this op-

tion.

Automatic: Security Questions and Additional Information

Here you can choose whether or not to display security questions or

additional information

Automatic: Automatic Undo Points

Creates an automatic Undo-Point before RAW development, sensor correction or selective drawing. This creates a definitive starting point

after uploading the image.

Automatic: Image Preparation

Displays the image preparation window when images are exported over

a Plug-in.

Automatic: Image Saving

Activate the option "always save in highest resolution" and the processed image will automatically be saved in full resolution, even if the

preview mode is active. Activate the option "show crop window when saving" and the crop window will automatically be displayed before

image saving.

Automatic: Point of Interest

41

Is this option active, the full resolution image will automatically be displayed when the Point of Interest is started.

Automatic: Batch Processing/ Image Data Browser

Here you can activate the automatic loading with the last used directory when opening the image data browser. You also activate the automatic inclusion of subdirectories in the image data browser and batch processing.

You can also prevent files from being overwritten by automatically adding the original file extension (e.g. jpg, tif,...) for the file name created in batch processing.

This returns the current user interface to its original size.

Extras
$$\rightarrow$$
 Create Restore Point (Shift + Z)

If you would like to save your image in its current state and continue editing without initiating a file-save, simply select the option **Create Restore Point** or (**Shift + Z**). This allows you to return to the last saved state of your image at any time.

Click on the **Timeline** or (**Ctrl + T**) to display all saved Undo-Points.

7.5 Add-ons



 $\mathsf{Add}\text{-}\mathsf{ons}\to\mathsf{Import}\,\mathsf{Add}\text{-}\mathsf{on}$

With the help of Add-ons, you can now not only import Presets into HDR projects 8 professional but also integrate new Post Processing Modules that gives your Presets with an entirely new look.

Add-ons → Remove Add-on

This button lets you remove add-ons.

Add-ons \rightarrow Addon Information

Here you are provided with a display of all information regarding currently active Add-ons

7.6 Information



Information → HDR projects – Homepage @

Click here to navigate to the HDR projects 8 professional homepage.

Information → Show Shortcuts ...

Here you will find all keyboard shortcuts available in **HDR projects 8** professional

Information \rightarrow Supported RAW Formats ...

A list of all cameras whose RAW Files are able to be opened in **HDR** projects 8 professional.

Information → Check For Updates ...

This checks online whether newer versions of the software are available for download.

Information → About HDR projects (Shift + F1)

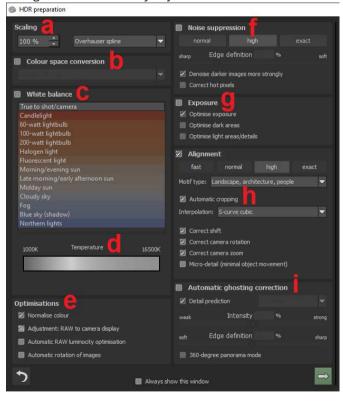


Information about the current version, 3rd-Party Software and Credits from HDR projects 8 professional.

8. HDR Preparation

Here you can precisely configure the program's settings.

For the first steps, please use the standard settings. These default settings can be restored with the arrow at the bottom left. Nothing can be irretrievably adjusted.



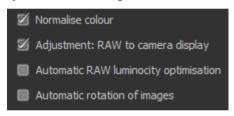
- a. **Scaling:** When bracketed series are uploaded, the images can be scaled from 25% up to 900% using any one of 6 different available Scaling Processes.
- b. Colour space conversion:
 Advanced users can choose
 a colour space here for all
 other users, it is recommended to not make any
 adjustments, in order to
 avoid incorrect colour rendering later. HDR projects 8
 professional offers several
 new colour spaces (D65).
 The standard illuminant



D65 is representative for a phase of natural daylight with the colour temperature of 6500° Kelvin.

- c. White balance: Corrects colour casts that occur with shots taken in shooting environments such as warmly lit rooms. To start, leave this setting unchanged.
- d. With this regulator one can adjust the colour temperature when you're already uploading. It is advised that you leave the setting on "default" and to regulate the colour temperature later in post-processing.

e. Optimisations: The colour normalisation turns shadows black and lights white in the picture. During loading the Adjustment: RAW to camera display converts the RAW picture so that it's almost the same as the camera preview as well as the file preview. The automatic brilliance optimisation for RAW files can be activated in image preparation under RAW options. Frequently it is with camera RAW formats that the image data will not use all tonal values that are available. The automatic brilliance optimisation compensates this with the uploaded RAW images by amplifying the tonal values so that a meaningful utilised histogram is created for every camera RAW image.



In the area for bracketing series this option is **only** wise, if you create HDR images from a single RAW. If the **Automatic rotation of images** is activated, they are automatically rotated according to the Exif orientation.

f. Noise suppression: these buttons allow you to select the precision of the noise removal, and the slider regulates the degree of the sharpness for the edges. Here dark images can undergo significant noise removal and have hot pixels (light spots caused by the camera's sensor in dark situations) eliminated.

- g. Exposure: can be chosen if an image in a bracketing series is improperly lit and/or blurry, and must therefore be supplemented by the program. With a dark bracketing series, it is recommended to use the "Optimise dark areas" function to remove any colour casts. Light areas and details can also be optimised for bright bracketing series.
- h. Alignment: Here you can control how individual images within the exposure series are superimposed upon one another. Fixes to the finest movements, unintended zooming, rotation of the camera and micro details can be considered here, however the default setting will most often lead you to the preferred result. Automatic cutting removes edges which appear when overlapping exposures. You can select "Nebula, night sky" or "land-scape, architecture, people" or "soft motifs (strong bokeh)" to find the perfect alignment for your picture.
- i. Automatic ghosting correction: HDR projects 8 professional uses a highly precise ghosting removal to filter out subjects and people moving within the bracketing series, i.e. which appear in different places on the individual images. Without a correction, people or vehicles would appear multiple times as a semi-transparent blur within your result image and create a complete

mess, as they move and are at a different location with each exposure.





Fusing the images without ghosting removal. People are always on the move in a busy train station! Without correction, ghosting always occurs with multiples exposures.

A special procedure is the detailed forecast: It tries to predict movements within the exposure series and thus remove the ghost images more specifically. In addition, the intelligent coordination is adapted to living creatures, landscape, architecture and sport. Here the correction with the setting "creature" works perfectly.

9. Post-Processing: Presets



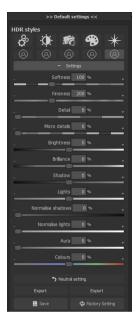


Just like in the last version of HDR projects professional, after the uploading of images we dive right into post-processing. Here we control the tone mapping of the images, before editing the results with filters and effects.

Left side of the post-processing screen:

Before you begin testing the different Presets when continuing to edit your photos, remember you also have the HDR Style option at your disposal. Here you can choose between options such as "Balanced", "Shade and Light", Fine Details", "Grunge", and "Vibrancy".

NEW: In the 5 freely assignable and configurable HDR styles in the lower row you can create your individual and personal HDR styles via "Settings



With a click on one of the freely assignable HDR styles and a further click on "Settings" a configuration window opens, in which you can influence the image look in a desired direction via the controller settings.

You can not only assign all 5 offered "personal HDR styles" and adjust them individually to your personal taste, but if necessary you can also vary the automatically given 5 HDR styles in the upper row until it meets your expectations.



Once you have made the desired changes, you will be asked to confirm them with OK. At the same moment, a yellow exclamation mark will be placed next to the symbol with the grey male, which shows that this HDR style has now been individually adapted. This exclamation mark would also appear if, for example, you changed the HDR style "Glowing".

Clicking the "Factory Default" button resets the current HDR style to the default values, clicking the "Neutral Setting" button resets all changed values to the default setting.

All HDR styles can now be exported or imported using the lower two buttons, e.g. if certain HDR styles are to be exchanged with other users.



The presets show the breakdown of the live preview in categories – "All", "Natural", "Landscape", "Monochrome", "Colour fidelity", "Grunge", "Custom", "Surreal", "Architecture", "Artistic", "Glow" and "Micro-detail" - along the quantity of presets in the appropriate category.

Discover the wide variety of different looks by clicking on the 189 different presets. You will be amazed by the intriguing styles in the artistic section!



Image with "Micro-detail Crisp" preset



Image with "Grunge Aura" preset

All 189 **HDR projects 8 professional** presets at a single glance. The bar "default settings" you can detach easily and adjust to the desired size.

Preview Gallery



Would you like to see all the previews for the loaded image or series? Open up the category "all" and then click on the symbol.

HDR projects 8 professional now constructs a browser gallery with all the presets. For a larger display click on the image.



This very practical feature is reminiscent of good old contact sheets. You can create proofs to assess how the image with your favourite presets would look when printed.

The variation browser



The variation browser allows you to choose from different versions of a function and is primarily operated with the mouse:

- Shifting the segment: hold down the left mouse button, before moving the mouse
- Zooming in: scroll up
- Zooming out: scroll down
- Choosing the variant: double left click on the image
- Setting a referent: left click on the image
- Comparison with referent: hold down the right mouse button over the image

The corresponding short cuts you can find under "information -> short cuts".



Click on the symbol and HDR projects 8 professional will show you the entire preview gallery of that chosen category. Zoom in now on the variant that you want to compare and set a reference image.

This reference image you will be able to put on any image through a left click of the mouse. You can fade in this reference image into the other image by holding down the right mouse button.

The border surrounding the image in a green dashed line - - - shows you the reference image so that you can make the comparison. In this way you can compare any two variants in the browser directly and visually.

Example: As a reference image you choose the variant "land-scape brilliant" and mark the image with a left mouse click. The green dashed line shows that you have chosen this image.



Now you look for a different preview image, in this case Preset landscape bicolour 1 has been chosen.



Right click on the preset landscape bicolour 1 and the reference preset will fade in. As soon as you let go of the mouse button, you will see the Bicolour 1 Preset again. This is how you simply and purposefully compare looks with another before choosing the ones you like the best.

Selection of your desired variation:

With a double click you chose the variant. The relevant program settings will be carried out automatically.

Tip:

Your current choice will, when you open the window, be automatically set as your reference image.

➤ Combine Presets

To merge two looks together use the "Combine default presets" button directly under the categories. These new presets will be

saved under "Custom". It's that easy to expand your numerous options and accumulate new ideas!

Name Favourites



Have you found certain presets that you love and instantly want to have handy? Click on the **top right star** in the preset window and add the setting to your favourites. By clicking the button, previews all of your favourite presets will be displayed.



Custom Presets

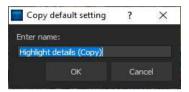
One thing is certain - regardless of which settings have been changed - If you have applied additional filters or adjusted a filter's settings, the selected preset has been modified with the following symbol appearing to the right of the preview image:



Clicking will reset the preset back to its initial state. Careful: All of the modifications applied up to this point will be undone!

Clicking saves all of the changes in a new preset.

A dialog box will open where you can enter a new name for your preset or confirm the suggested one. The system will name it "Copy".

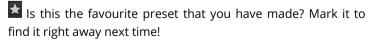


The preset will be saved and moved to the "Custom" presets category. The new preset has been additionally generated and the starting preset is preserved. You can also never overwrite a default preset!

Let's switch now to the "Custom" preset category.

Here we can find our first custom preset.

There are a few new symbols to the right of the preview image:



Have you changed this preset and don't want to lose this new look? Then create a new one!



Reset the most recently changed settings for the newest preset.

You have readjusted once again? No problem. Save the changes with the disk symbol.

Change the preset's name.

You can also delete your custom preset entirely.

Use this to enter a search filter. For example, enter the search filter "Colour play", and subsequently type the term into the search filter bar directly under



"Import". All presets with this search filter will be displayed.

You can enter the names of places you've visited on holiday and all of the presets that you used for those specific holiday photos will then be easy to find and to apply to other pictures.

The filter drop down menu to the right already contains "Colour play". Simply select it from the entered search filters.

> Save Undo-Point

With the Save Undo-Point Function you can save your edits to an image at different intervals and later view these in the Timeline and pick up where you left off.

> Timeline

In the Timeline you can view and directly access all saved Undo-Points.

> Image Sequence View

Image Sequence View lets you view all sequences of your image or series at a glance.



Panoramic View

Panoramic View enables you to take an even closer look at your image by displaying it as a

panorama image.

Comparison View



Do you want a comparison to the HDR image without tone mapping?

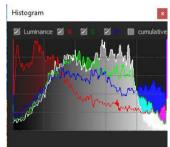


Simply right click on the middle of the image to see the before/after result.

A quick check on the editing process is available at any time. For an extensive overview with selectable areas and luminance display, click on the symbol bar.

> Histogram

The Histogram shows the distribution of tonal values within your image.



Real Time Processing



When activated, all of the changes that you have made to the preset settings will be immediately applied to the image. If this option is deactivated, then you will only see the outcome of your adjustments when you click the button "calculate afresh":



> High-Quality Display

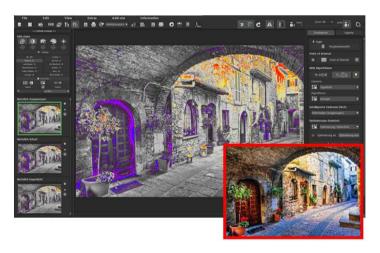


Activate this option to see the preview image in high-resolution. If the preview is set at 100%, there will be no difference. If you zoom in on a section of the photo however, there is a noticeable difference in quality.

Border Pixel Display



The border pixel display helps to reveal areas that tend towards maximal light and dark values that is to white and black. Dark border pixels are depicted by blue/ purple and light pixels by orange/ yellow.



Depiction of border pixels in purple and orange tones.

If you would want to brighten this image, you have to be careful of the orange border pixels. Light surfaces on the car and the walls should not become too white, in order to avoid losing detail. In technical terms, these patches are called "burned highlights". The border pixel view helps to find these critical image areas

Symbol "original resolution setting"



With this pushbutton you will set the zoom factor on the original resolution.

"Increase the Zoom factor to screen size"



With this symbol you will enlarge the zoom factor to the maximum possible screen size.

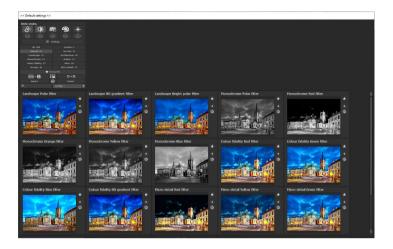
Import/Export from Presets



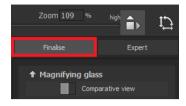
Presets from earlier versions can be easily imported. Do you wish to exchange all of your presets with a friend or just secure all of your treasures? Use the practical export function.

Filter presets

Locating presets can be difficult when you have imported presets or created many additional looks. For example, enter "filter" into the search bar and only presets relating to "filter" will be shown, e.g. "red filter", "gradient filter" or "polarising filter". This makes the search a lot easier.



10.Post-Processing: Finalisation



Now that we have understood the most important part of post-processing, let's move on into the fine-tuning. This can be found on the right side of the screen under "Finalise". These

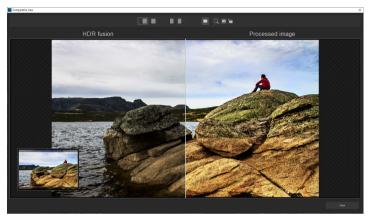
features are intended only to be used to continue to edit pictures after selecting a preset.

> The magnifying glass

On the right-hand side (at the very top) in Post-processing you will find the 1:1 magnifying glass. The magnifying glass shows you the area under the mouse in a 1:1 pixel view.



When clicking on the magnifying glass, the compare window will appear. This compares your edited image and the original image. It simultaneously gives you the opportunity to examine the comparison through the magnifier display.



To keep the magnifying glass on a specific point, press down on the "L" key, while you move the mouse over the screen.





Click into the image area of the magnifying glass, to change between the display modus "divided before/after comparison" and "direct before/after comparison". To unlock the locked area, press the L button again.

Point of Interest



Activated "Point of Interest" renders current edit only to a specially defined area of the image. The effects will be applied in their full form, however only visible in the specified spots, the rest of the image will be left unaffected. This effect is intended for very large, high-resolution photos, e.g. panorama pictures.

► HDR/Ultra HDR

This technology describes the art of fusion of bracketing series images. Ultra HDR processes up to 30 intermediate images between two photos with 64-bit precision. The result speaks for itself, and clearly shows a more detailed picture, especially in difficult situations, for example when shooting directly against the light.





The strength of Ultra HDR can be seen in sensitive situations: the sunlight in the image on the right is significantly more detailed and less overexposed.

This highly precise calculation system can be applied to specific types of motives: daylight, landscape, twilight, architecture, interior, night-time and mixed light.

These settings can be accessed in post-processing at any time.

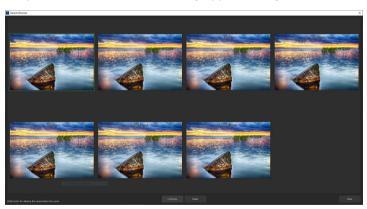
Ultra-HDR mode "highlight boost"



Activate the "highlight boost" to create a lot more realistic HDR-photos in the 64-Bit-Ultra-HDR-Fusion. This mode is especially helpful when it comes to difficult lighting conditions. The "highlight booster" is activated by default and enables you to bring to life even the most subtle details within your photo.

Scenario Scenario Daylight

Additionally, the HDR fusions can be influenced by different scenarios. If you would like to adjust your result to a certain lighting, select one of the following seven scenarios: "Daylight", "Landscape", "Twilight", "Architecture", "Interior", "Night-time" and "Mixed Light". The scenario option has an overview of all of the possibilities that can be directly applied with just one click.



HDR-Algorithms

Here a mathematical equation is used to determine the weighting of each individual exposure in a series - pixel for pixel. Every algorithm has a different effect depending on the bracketing and subject. There is no right or wrong here, rather your originality is in command. Test your bracketing series with different algorithms and see how they affect your photos. Tip: The HDR algorithm "Entropy", in most cases, will yield a finely tuned and detailed result in all tone values.

Intelligent Colour Space (SCA Method)



This menu offers you options for optimal colour detail gradation of your tone mapping results. Selecting SCA method (Smart Colourspace Adaptation) demonstrates differences in the details of more saturated colours.

Tip: With "Supersampling" you will get exceptional details and saturated colours and stark colour variations around contrast edges.



Optimisation assistant

The optimisation assistant is a very efficient tool for fast, fascinating results.

Optimisation assistant

Optimisation assistant

Optimisation: natural

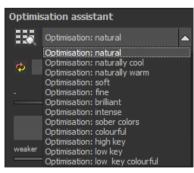
When the preset is activated, **denoising**, **tonal value**, **clarity**, **dynamic and sharpness** settings can all be adjusted by sliding the control to the left or right. The result can be seen live.

The optimisation assistant is intelligent; it remembers the values you entered, and applies the same settings to the next image in the same way, but tuning the result to the new motif.

If you would like to edit without the assistant, you can simply turn it off. If you would like to turn off the values that have been

"learned" so far, click on the

Additionally, the assistant can be given optimising specifications for an entire image style: choose between "naturally cool", "naturally warm", "soft", "fine" "brilliant", "intense", "muted colours", "Multicolour", "High-Key",



"Low-Key" und "Low-Key Multicolour".

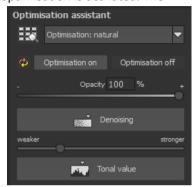
The opacity regulator of the optimisation assistant

The opacity regulator in the optimisation assistant activates itself automatically as soon as one optimisation is activated. The

opacity regulator works on every effect that optimises the image as well as the optimising presettings.

Tip:

Put the optimisation presetting in "High-Key" and chose an opacity regulator between 40-60%.



Pro Tip:

Remember that the preset specifications and Optimisation Assistant are added together. If you select the "Surreal powerful colours" preset and the "Intense" optimisation, you will get strong, saturated colours and dramatic contrast. Not to worry, you can quickly change back to the "Natural" optimisation and have the familiar look of the "Surreal powerful colours" again. On the other hand, you can compile new creative ideas and jump between intense, unsaturated and high and low key looks lightning fast.

New module "Virtual Microdetails"



This module creates virtual micro details. Virtual means that depending on the chosen category, details are "included" which could be in the image (i.e. appear plausible), but are actually not present in the original. The individual categories - e.g. "land-





scape" and "mountains" - can also be combined.

By clicking on a category or the arrow to the right of "User", shades of colour in the image - e.g. green lawn or blue sky - can be taken into account to a greater or lesser extent. The same applies to the differentiations in the categories.







With the combination of 2 categories (landscape/architecture) and the accent on the colours grey, yellow, green and blue, the sculpture, lawn, gravel floor and sky have become much more "alive".

So every slightly "dull" picture can be individually "pepped up" without looking unnatural or exaggerated

New module "Colour module"



With this impressive module you become your own colour director.



With the first click on the button "Colour module" the colour module window opens...



...in which you can, for example, zoom the image in the image view and then move it around with the mouse as desired or display the histogram.



The colour manipulations take place on separate (up to 6) colour layers. By clicking the "New layer" button, the first new layer is created, on which the interface with the colour circle, all sliders and further setting options allows a lightning fast recolouring of the desired image parts.

With the pipette you can select any coloured area which is immediately displayed in the colour circle.

If there are black or white colours in the image, these "uncoloured" areas cannot be recoloured and are displayed as black areas when you click the pipette symbol the first time.



The colour selection, which you can also display by switching on the "eye symbol", can be expanded or narrowed down. The selected section of the 360-degree colour circle is displayed more brightly and the boundaries are marked with white lines. You can now drag these lines in all directions: Towards the center the saturation becomes less and less, on the very outside it is 100%. In this example, dragging to the left or right would mean a widening of the colours towards red or green. The desired re-colouring would thus affect a wider colour spectrum (colour angle). Dragging downwards would also result in less saturated areas of the image.

Use the "Target hue/saturation/exposure/contrast" sliders to select the new target hue with the desired parameters until you are satisfied with the result.



By clicking on the "eye symbol" the mask is displayed and the white mask view in the image example can be changed in the settings by selecting one of the offered colours.

The default "realtime mode" (on the left side of the mask colours), in which you can see all changes instantly in realtime, can be switched off if necessary to reduce the computing time.

As described in detail in the moduel "Local Adjust-ments/Selective Drawing", you can also reverse (invert) the masks, save them as a file, e.g. to further enhance the colours or details of the effects in "Selective Drawing", or save them to use them again later if necessary.



Click on the "minus sign" to close the layer ...



... and, if required, a 2nd colour layer can be created by clicking on the "plus sign", on which further image areas can be recoloured.



On up to 6 levels - based on the 6 colour ranges red, yellow, green, cyan, blue, violet - you can try out all imaginable image look variations and, if necessary, transfer certain colour settings to another image.

The layers can be deleted by clicking on the "trash can icon" or moved up or down by clicking on the arrows to the right, which can make a noticeable difference in the overall effect.





Click "Close" to return to finalize mode and click the icon to the right of "Colour module" to switch the calculation on or off. Of course, you can always return to the colour module to make changes.

And when the project is saved, all settings are saved in the same way as for "Local adjustments" and can be modified at any time after reloading the project.

Granulation Module



NEW: The granulation module now offers 3 colour spaces - RGB, HSV and HSL - to allow a more differentiated and targeted use of granulation.



"Fractal grain"/ISO 3000 in HSV colour space: Significantly lower grain ...



... than with the same ISO number in the HSL colour space In the HSV calculation, for example, "natural grain" and "fractal grain" have a significantly weaker grain in strong, vivid colours compared to the HSL colour space. This means that you can use the desired grain size more effectively and with greater variation, e.g. for composings.

In the case of female portraits - especially black-and-white photographs - the "natural grain" at low ISO values "refines" the resulting image, which also enhances the prints.



a) Natural grain

In natural grain the different levels of photographic paper are simulated, which creates a natural irregularity.

These following parameters are therefore at your disposal:

- Form

Choose here from six different variants.



ISO-Number

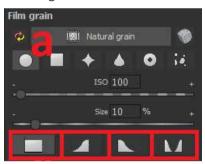
The preset value conforms to the average "restless value" on a naturally grey surface.

- Size

The maximum size of the simulated grain.

- Masking

Gives you the opportunity to calculate the granulation in all different types of daylight or alternatively in light, shade or shade and light.

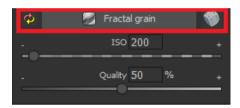


Here the masking was set for the lights only - so the lights get a fine natural grain, while the blue sky areas are left out.



A Click on the button creates a new random distribution of grain and therefore a whole new "look."

b) Fractal grain



Fractal grain simulates a large-scale irregularity, which is created through the storing and deterioration of photo material. For this, you have the following parameters at your disposal:

ISO-Number

The preset value conforms to the average "restless value" of a naturally grey surface.

Quality

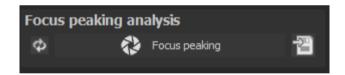
Determines the accuracy of the calculation (number of iterations for the fractal algorithm) of the fractal granulation.

In the granulation module there is no singular best setting, since the ideal grain size, form and quality is 100% dependant on the motif. Here you can try out different things and find new creative paths.



A Click on the button creates a new random distribution of grain and grants your image a whole new look.

- Information and helpful tips on making local adjustments and using Selective Painting can be found in Chapter 12. Local Adjustments/Selective Painting.
- New Module: "Focus-Peaking Analyse"

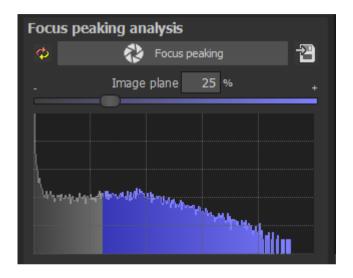




The Focus Peaking module (the last module below) analyzes the loaded image.



.. and visualizes the "sharp" (more precisely: pixel-wise high-contrast) areas as soon as you click on the "Focus-Peaking" button.



Extraordinary is that the sharpness limits can be extended or



narrowed and can be visually traced in the "sharpness histogram".

For example, in the case of narrowing (slider to the right), only the very sharp areas are displayed (the blue portion in the "Sharpness histogram" is very small), thus providing a very precise overview of the sharpening process or the frequency of displayed sharpening in an image.



This sharpness mask can also be saved by clicking the button on the right.

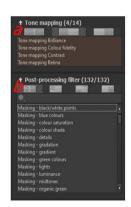
11. Post-Processing Expert Mode



The Post-Processing expert mode can be found on the right side of the screen. Here you can configure all postprocessing, try new effects, adjust a selected preset or construct a completely new preset to meet your desires.

Overview of the Tools:

- a) Tone Mapping Algorithms
- b) Post-Processing Effects
- c) Selected Tone Mapping and Effects
- **d)** Settings for Selected Effects



a) Tonemappings (14)

Tone mapping algorithms compromise the dynamic range of images with strong contrast down to a presentable range and serve to improve the quality of the image.



HDR projects 8 professional offers 14 different algorithm options that can be applied individually or combined.

Simply double click on the entry to add the tone mapping to your selected filter.

All tone mapping works by compressing the local tone values and contains an integrated detail enhancer for macro and micro details.

Tone Mapping Contrast:

Contrast Tone Mapping creates well defined shadows and lights and well suited for landscape and architecture photographs.

Tone Mapping Brilliance:

Brilliance Tone Mapping creates a soft luminosity in the shot and is suitable for broad palettes in motifs.

Tone Mapping Colour Fidelity:

The newly developed colour fidelity processing works with maximum precision for colours in tone compression and is exceptionally suited to shots with intense colours.

Tone Mapping Gradient:

The tone mapping gradient algorithm has a substantial effect and is well suited to subjects with weak colours and high contrast.

Tone Mapping Gradient Luminance:

This process is a modified version of the gradient process, and especially enhances lighter areas.

Tone Mapping Constant Gradient:

This option yields best results for subjects with mainly middle colours.

Tone Mapping Averaged:

Tone mapping middle values is a very stable process and suitable for almost every subject.

Tone Mapping Averaged Exponent:

This effect is stable and works best for dark areas. It is especially well suited to tunnel and archway shots.

Tone Mapping Averaged Gradient:

This process was specially optimised for dark bracketing. Dark areas will be significantly lightened even with slight intensity (tone compression).

Tone Mapping Quotient:

This is a general tone mapping process that neutralises a colour saturated image, when compared to the effect of a gradient process.

Tone Mapping Sigmoid:

The sigmoid function is specialised for scaling brightness of motives with drastic highlights.

Tone Mapping Surreal:

A very intense feature and therefore a good basis for extreme HDR images.

Tonemapping Intense:

Intense tone mapping works with a high bandwidth of tone com-pression and therefore can be very effective for both dark and light bracketing series.

Tonemapping Retina:

The new tonemapping "Retina" offers colour fidelity and a "toal value" which matches the human eye's colour perception. It is particularly suitable for pictures with high contrast.

b) Post Processing Effects (126)

The list includes 126 different post-processing effects that can be freely applied and combined.

The effects are divided into seven categories, each with a corresponding background colour.

In HDR projects 8 professional 6 new effects have been added:

- Masking sky blue
- Masking Organic Green
- Colour dynamics (adaptive)
- Horizontal blur
- Vertical blur
- Stretching/Diving

The effects are divided into seven coloured categories:

Black: masking effects

Yellow: border effects

Green: geometric effects

Turquoise: exposure effects

Blue: colour effects

Purple: diffusing effects

Pink: artistic effects

Tip: If you are looking for a certain effect and know its name or part thereof, you can save time by using the search bar.

When you are applying new post-processing effects, check to see if the optimising assistant is active. If it is, please remember that effects will act differently, and sometimes more extreme. When constructing or enhancing a preset, it is best to turn it off. (Button above the tone mapping).



Overview of Post-Processing effects in HDR projects 8 professional

| | *** | |
|--|--|--|
| Post-processing filter (132/13) | 32) | |
| | | |
| Ψ, | | |
| Masking - black/white points Masking - blue colours Masking - colour saturation Masking - colour shade Masking - details Masking - gradation Masking - gradient | Correct perspective Dissolve Horizontal mirroring Lens correction Offset Rotation and zoom Stretch / compress | Display original image Expose colours Fade Faribdynamik (Smart) Gamma correction colour channel Manual RGB points Manual white balance Mix colour channels Vegative |
| Masking - green colours Masking - lights Masking - luminance Masking - midtones Masking - organic green Masking - red colours | Vettical mirroring Adjust light/shadow Automatic black/white point Balance local contrast Bleach bypass Manual black/white point Normalise | Vermalie (ROB) Photo reflector pole filter Reduce chromatic aberrations ROB Transformation Replaced colour channels Angited colour channels Reduce colour channels Reduce services Restain blu Remour lighting Horizontal soft focus Intense radiance Smooth colour channel Smooth colour trine Soft focus Vertical soft focus Warg Artistic detail strengthener Comic style Frame Isolate shade Lens flare Light glow Minimature world Pencil drawing Pop art Posterize Reflection Remove shade Soft relief Solarise Underwater Wave distortion Wax image |
| Masking - shadows | Optimise structure Peripheral light distribution Reduce haze + fog Restore highlights Soft central Soft estails Veiling glare Vignetting Weighted black/white point White & Black correction Adjust colours Automatic local white balance Ralance local colour contrast Chromatic correction (CA) Colour balance Colour channel gradation (Log) Colour channel gradation curves Colour dynamics Colour dynamics Colour gradient Colour intensity Colour light/shadow Colour light/shadow Colour palette Colour speriature Colour Spe | |
| Masking - sky blue Masking - smooth areas Masking - vignette Remove masking Colour detail strengthener Denoising - banding Denoising - colour clouds Denoising - contoured Denoising - hotpixel Denoising - multiple | | |
| Denoising - smoothing Denoising - soft Detail strengthener Dilate Erode Optimise denoising Optimise sharpness Sharpen - fine Sharpen - fine Smooth sky Airbag distortion Chromatic distortion | | |

c) Selected Filters

Have you found a filter effect that you would like to try out? Simply double click on it in the post-processing filter effect list.

The effect will now be shown in the block below called "selected filters".



The block of selected effects is the heart of the tone mapping and post-processing area. It includes all of the post-processing effects and the settings for each individual effect.

The filters in the example are automatically applied one after the other to the HDR image and lead to the result tone mapping image.

To temporarily deactivate an effect, simply click on the box beside the effect's name and remove the checkmark.

Double clicking on an effect removes it from the list.

Effects can be sorted at will by dragging and dropping them up or down the list.

One click on Result to Original will copy your image result into the pro-gram as its own original image. This allows for the creation of an export within the program itself.

Tip: The order of the effects within the list can have a substantial effect on the resulting image. It's worth playing with!

Activate the 360° panorama mode in the bottom left box to prepare your images for a perfect panorama stitching. The images will be optimised, so that no borders can be seen when the panorama is assembled.

The context menu (right mouse click) for the effects, you have selected has numerous functions that allow you to activate, deactivate, move or duplicated effects.



Smart-Mask-Filter

HDR projects 8 professional calculates the selected effects from top to bottom. This means that the order of the effects within the list can have a significant influence on your result image. For example, if you activate the effect "Masking Lights", all subsequent effects will only affect the lights in your image.

Below the selected effects display, you will also find the "Copy result image to original" function. This sets the current event image as the new original image. Use this function to save calculation time for many effects.



d) Settings for selected Effects

Settings for the selected effects can be found directly below the block for the affects you have selected. The parame-



ters for the currently selected effects will always be shown here.

The available settings and options change depending on the effect you click on. There are sliders, gradation and mask curves, colours and pipettes etc. Alternatively, a numerical value can be entered into the box above the slider.

In the example, we see the parameters for "Colour Balance", which consists of three controls for balance: cyan-red, magentagreen and yellow-blue. Sliding the controls instantly adjusts the image. The adjustments will be immediately portrayed in the result image. You will also see a colour flow within the controls, which will give you a direct indication of how the new value will affect the photo.





Adjusting the cyan-red and yellow-blue values creates a signifi-cantly warmer feeling for the image.

Example Mask Curves

This curve regulates the intensity of the effect for particular bright areas of the image. When you pull a point downwards, pixels with this brightness will be impacted less by this specific effect, and vice versa.

Here as well you will find on the top right hand side a choice box with presettings. The setting "bright lights" has been chosen as an example.

For the gradation curve in this example, this means the lights in the picture will be brightened, and the dark roots ex-

empted in order to create a striking contrast. This is how mask

curves give you the opportunity to selectively influence images.

During the editing, the preview behind the mask curve immediately shows the effect's intensity from black (no effect) to white (full effect).

Layer Processing Methods

These features determine the way that an applied effect appears on a layer. Effects can thus be enhanced or reduced, and looks can even be completely changed, which opens up a plethora of opportunities to play with. To apply processing methods, click on the drop down menu beginning with "Normal".





In HDR projects 8 professional there are now 18 new layer processing methods in HSV and HSL colour spaces.

HSV stands for Hue, Saturation and Value. HSL stands for Hue (colour angle), Saturation (colour saturation) and Lightness (brightness).

So that you don't have to try out every single effect, we have a layer mode browser:



With just one click, you have an overview of all of the processing methods and can comfortably choose which method fits the effect best. Give it a try! The effects that you can generate with layer processing methods are astounding!

Selective Editing



For every single one of the 81 post-processing effects it is possible to apply the selected effect to only a certain area.

Furthermore, specified areas of an image can be influenced at different intensities by different effects.

The selective editing can be controlled in the parameter area of each effect and you can open the accompanying window with the button at the far left.

At the bottom of this window there are three blocks with six, three and two buttons.

6-Block: add, remove, duplicate, flip and delete the selected areas

3-Block: various display modes for the resulting intensity of the effect

2-Block: choice of selected surfaces, very practical if the specified areas are very small or overlapping

You can add up to 32 amplifying (positive) or reducing (negative) areas for the current effect. The size and position can be determined directly in the image, optionally in the corners or on the sides of the area.

The roundness of the rectangle as well as the sharpness and severity of the selected area can be adjusted with the three controls at the top of the window.



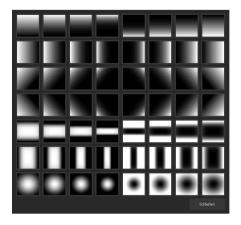
The example clearly shows that the "Colour Luminosity" effect has only been applied to the selected section. Since the edge definition is only set to 95%, this area is almost rectangular.

The result will always be instantly displayed upon releasing the mouse button.

Selective Editing – gradient module

You can choose from every post-processing effect in the area of selective editing a course (gradient) of 56 premade models with a single click.

To activate the desired post-processing effect from your chosen effects, click in the underlying parameter area on the gradient-slider.



A window will open with different types of gradients. From there choose with a left click your desired type of gradient.

Tip:

When you choose a gradient model the selected areas (that are possibly already part of the current chosen effect present) will be copied into the clipboard. The selected areas can be brought back via the insertion of the slider.

Overview of Certain Keyboard Shortcuts

Cursor Buttons: movement of the currently active selected area.

Ctrl/Alt + Cursor: fast movement of the currently, active, selected area

1,2,3: switch the display mode

Delete: deletes the current, active, selected area

Esc: closes the window

Upon closing the window, the chosen effect will only be applied to the selected area and displayed in the middle of the screen.

You can transfer other effects to the selected area with the "Copy" and "Paste" buttons, without having to retrace the selection again.





This button deletes all selected areas of the active filter, of course with a confirmation prompt first.

12. Local Adjustments and Selective Drawing



The selective highlight tool from HDR projects 8 professional deserves very special attention. Firstly, this tool selectively edits chosen areas without complicated masks done by hand, like other photo editing programs. HDR projects 8 professional includes a completely newly developed intelligent border recognition algorithm that independently identifies borders, lines, differentiations and light differences in drawing mode.

The boundaries of the area that the mouse skimmed over are saved as a mask. These easily and precisely set masks serve as the basis for eleven important image enhancements: "Correct red eye", "Beauty", "Shading", "Illuminating", "Intensifying colour", "Reduce colour", "Strengthen details", "Reduce details" and "Sharpen", etc...



These masks can even be saved as its own image file and used in other photo editing programs.

New: Intelligent modes for effect masks



Most effect masks now offer the option of using an "Intelligent Mode", which is switched on by default. This mode analyzes each pixel in the image individually and then decides how much



"effect use" makes sense.

This image comparison with the "Reduce Contrast" effect makes

the mode of operation clear, although the "temporary" result image on the right cannot yet be used in this way for better demonstration. In the previous version, i.e. without the "Intelligent Mode", the image would be transformed into a neutral gray at 100% with reversed mask (i.e. without selective processing) and the intensity slider, because there is no contrast anymore. When switching on the "Intelligent Mode", many structures become visible again...



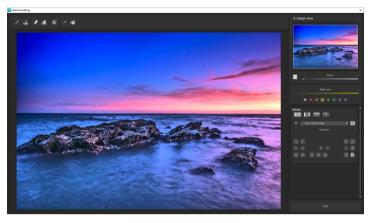
... and you only have to paint back the glass with the eraser to achieve the desired effect - glass against a blurred, low-contrast background. This is done in a matter of seconds.



The 2nd image comparison shows that the detail enhancement with "Intelligent Mode" switched on appears much more reduced than without it - and even at full intensity and without selective processing (for demonstration) the effect is "more natural".

A "normal" effect thus becomes an adaptive - i.e. "intelligent" - one that adapts the effect to the respective situation.

For the first two effects - "Fade in original image" and "Correct red eye" - the new mode does not exist, because it makes no sense there.



How it all works is probably easiest to explain with an example. Open the selective drawing window (post-processing, finalise -bottom right). Our example is a single image file of a typical twilight on the beach. The picture's colour details are already well edited.

Now we want to slightly brighten the rocks without taking away the evening mood; the sky, water and beach should not be brightened.

Quickly finalize your image with Selective Drawing

1. Select editing objective

For this case, select "Illuminating". Make sure that the selected mask function is activated and the green checkmark is showing.



- 2. Activate Drawing Mode
- 3. Activate Filling Mode
- 4. Run the mouse over the contours without clicking. You can decide and correct the brush size afterwards.



5. Now look at the mask display. The object where the borders were automatically recognised is now depicted. Click and hold, and then trace your mouse along the edges of your chosen object until it is completely selected. In the blink of an eye we will see the effect as well as the overlying mask.



6. Once fully selected, blend the mask out by moving the mask intensity control to the left.



- 7. You will now see only the effect that is brighter rocks our objective was "Illuminating". Now you can adjust the intensity of the effect by sliding the control towards the + or -, according to your preferred strength. Done: the rocks are brighter while the sky, beach and water remain untouched by the editing.
- 8. Click on "Close". You will be returned to post-processing and the selective change will be applied.



The rocks on the left are significantly brighter after the selective correction. The sky and sea still have the same tone values as before.

- Use your quickly made mask for a further effect. Go back to the selective drawing. Our selective mask has remained.
- 10. Click on and copy the mask to the clipboard.

 Switch the mask to "Sharpen" and use the to paste the mask back again. Now you have sharpened just the rocks, and the other parts of the image were not influenced.
- 11. Every selectively applied effect can be activated and deactivated with the green checkmarks.

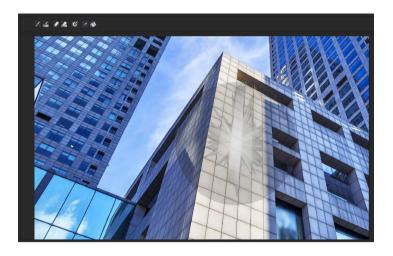
12. Borders have different intensities in every image. Presets normally do just fine, but sometimes it is necessary to adjust the contour and sharpness settings in order to reach perfect fine-tuned results.



- 13. Have you drawn outside of the lines, despite the border recognition? You can easily remove it with the eraser . If you only want to remove a small section, use the eraser with limitation. When set to 50%, you can only remove 50% of the mask, regardless of how much you erase. The limited drawing mode works in the same way, and only draws at a certain opacity.
- 14. If you want to mask the entire image except for a small object, it is a good idea to mask only the small object and then reverse the mask by clicking on the

Pro Tip: You have two filling modes to choose from when you want to fill a mask. When do you use which mask? We used the normal fill mode as in our example for a large surface, which is also preferred for water and sky areas

Ray filling mode is very precise and favoured for smaller objects, geometric forms or subjects with straight lines, like in our example here.



With ray filling mode you can mask just the walls of the skyscraper while the window surfaces are not selected.

Pro Tip 2: If you would like to incorporate sections of your original image into the edited image, you should work with bracketed series. Recommended here is the use of at least three different exposures.

This dark field will serve as an example:



After uploading the bracketed series, select a preset you would like to use and make further improvements to it using any of the various editing options.

The edited version now appears much brighter:



Because the edited field appears unrealistic, the darker field from the original image is taken. For that you change to the selective painting and choose "show original image" as mask function.



Adjust the size and opacity of the brush and select the whole field. Now you can move the mask intensity control to the left to blend out the mask. The field is optimally exposed if you adjust a medium intensity for the effect.

As a result the field is darker, but there is still a HDR effect recognisable:



Functions and Possibilities in Selective Drawing

- Optional mask colours

Designate a colour for the presentation of the mask as well as the brush one of the ready-made colours.



The display will be immediately adjusted to your desired colour.

- Selective Drawing - Creating Masks

Masks can also be created from a colour or brightness.



With the button (1) you activate the "Create Mask" modus. You will find yourself in the standard mode "Create Mask out of Colour"(2). If you want to create the mask from a brightness, chose the (3) button.

The tolerance controller decides, how sharp (smaller value) or soft (higher value) the created mask will be.

While you are in the "create mask" mode your mouse pointer will turn into a pipette. The colour or brightness in which your mouse pointer is set, will determine the type of mask being created.



In the above example we can see how a red mask has been created for the sky.

Tip: If you want to combine several colours in one mask, simply click on the desired colours after each other with the pipette on the screen. The current colour will with every click be added to the current mask.

- Selective Drawing - Smoothing Brush

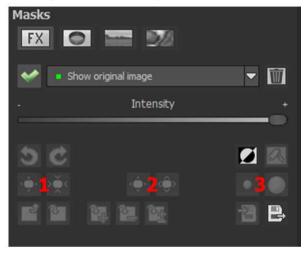
The smoothing brush (1) gives you the opportunity to draw selective areas of the mask softly.



To draw an area even softer, just go over the same area with the smoothing brush several times.

- Global Mask Functions

In the area of global mask functions you will find several special modes that you can use directly.



1. Reducing the entire mask outline



becomes



2. Increasing the entire mask outline



becomes



3. Soft-focus effect on the entire mask



becomes



With global functions there are two buttons – the left button fulfils the function with a lower effect while the one on the right with a bigger effect.

Reset the Function of a Mask

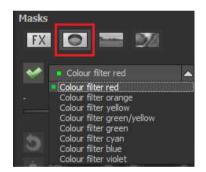
Every mask can be reset to its original state without effecting any other masks. Simply click on the waste paper button (1).



After clicking on the button a security query will appear, so that no important work is lost by accident.

Colour filter in selective drawing

In addition to effect masks you will find the field of colour filter masks. Click on the dropdown menu to choose one of the following filters: red, orange, yellow, yellow-green, green, cyan, blue and violet.



Adaptation of automatic masks in the "Distortioncorrection" section of the RAW module

Selective drawing works directly with the RAW module. This includes the "Distortion correction" that is part of the RAW module and that is applied completely automatically on several drawn masks.



In the example we have an image, in which the sky has already been masked.

When we now continue by correcting the horizon within the image in the RAW module, the drawn mask will automatically adjust itself to the "Distortioncorrection".



13. Composing Mode



In the Composing mode of selective drawing you have the ability to build up to **4 layers** of images into your current motif.

To switch into the composing modus, click on the "composing" button (1).

From the list of choices **(2)** you can choose with which composing level you want to work with.

With the button (3) you activate the currently chosen mask. Now you can through a click on the frame of the image (4) upload any image you wish to create the next level.

You can use RAW images, Jpg, Tiff as well as several other image formats.

Underneath the display screen you will find the parameter area that begins with two buttons with the following functions:

(5) Multiple application

Reduce the size of the image on a

different level than the one that you're currently working on. With this option you will be able to stretch the reduced image outwards (up, down, left, right).

(6) Determine the width-to-height ratio

This function allows you to determine the width-to-height ratio of the uploaded levels, since the width-to-height ratio in an uploaded image level can differentiate from the current image you're working on. This preserves the proportion of the levels.

(7) Horizontal Reflection

This function allows the image layer to be mirrored horizontally. This enables more precise adjustment to the current image without having to make changes to the image layer.

(8) Vertical Reflection

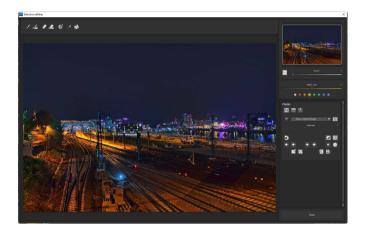
This function allows the image layer to be mirrored vertically. This enables more precise adjustment to the current image without having to make changes to the image layer.

(9) The Control-parameter

Width-to-height ratio: If the width-to-height ratio isn't fixed with the button **(6)**, you will be able to change the width-to-height ratio however you desire.

Zoom: Choose the size of that image level by zooming in or out **Shifting horizontally**: Move the image level to the left or right **Shifting vertically**: Move the image of that level up or down.

Exposure to light: Regularly the light from your current image does not match with the exposure of your other image levels. Here you can adapt the exposure and darken or brighten the images however you want, so that they match.



A night image with a not very fascinating night sky...



....you can change within a minute with the help of composing into an eyecatcher.

14. Texture Masks

The texture module of **HDR projects 8 professional** in Selective Drawing allows you to add textures and materials to your im-

age. By clicking on the corresponding symbol, the texture selection appears.



Here you can find the 64 different textures you have at your disposal. These can be applied to your image on up to 16 different layers.

Clicking on the *Zoom Field* will show all 64 different textures at a glance and allow to choose between them.



For this, simply click on your preferred texture and use the Selective Paintbrush to apply it to your image.

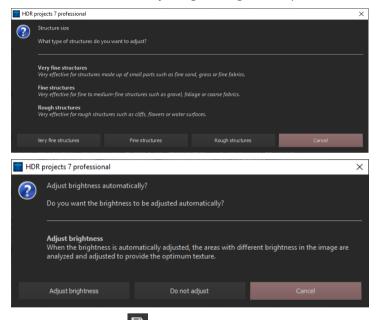


In the Menu at the right of your screen you are given the option to further adjust your chosen textures according to various parameters. The editing possibilities available here include options such as Exposure, Contrast, Zoom, Highlight, Image Structure, Distortion and Colour Variation.

In addition to these, Selective Drawing also includes a module for creating your own textures using your own individual design. Here you can choose between four different automatic edge alignment procedures.



To open the module, move the mouse over a texture until the plus symbol appears: • This opens the additional functions. Click on •, to load an image file and convert it to a square texture. To save a texture as an image file, click • After you have decided on an edge angle, either a selection for adjusting the structure size or for adjusting the brightness opens.



Save mask: Click on to save the current mask as an image file.

Load image file as mask: Click on to load an image file into the current mask. The resolution of the loaded image file is automatically adjusted to the resolution of the current mask.

It is also possible to import or export textures from the texture database. Click on the corresponding button and choose between import and export of the textures.



Note: By resetting the database, you can return to the supplied textures at any time.

Click on to reset the texture database to the installation state. If you click on a complete texture database is created from the textures you have loaded.





Note: The textures generated with the program are created by fading the surrounding textures around the respective texture.

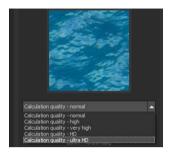


Use the sliders on the left to adjust the textures.





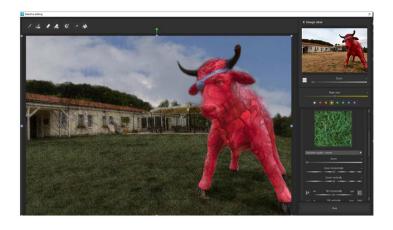
New: Two new calculation qualities for texture masks







Below the texture mask you can choose the calculation quality: to the 3 quality levels "normal", "high" "very high" the two new calculation qualities "HD" and "ultra HD" have been added. The quality mode "ultra HD" now does not calculate one "texture pixel" per pixel but 9x9. This calculation in very high quality and full resolution makes the textures look even more homogeneous and natural - so you can transform your picture ideas into unique composings even more effectively...



... and exchange them for other textures in a matter of seconds.

15. Removal of Scratch and Sensor Errors



Micro-contrast enhancement used in HDR photography unfortunately shows every unwanted sensor imperfection that every photographer, despite internal camera sensor cleaning, knows and dreads. Don't stress - just eliminate them! With the easy to apply correction function from HDR projects 8 professional, it can even be fun.

Pro Tip: This intelligent correction doesn't only remove sensor spots, but other disturbing things too - a deserted beach has never been so easy to produce.

Simply mark defects in your motif, the program will automatically substitute these areas with other appropriate parts of the



The sensor spots are circled in red

Here's how to go about correcting:

Select the brush tool under **(6)** and click on the point of the image that you would like to correct. A circle will appear beside

it that will serve as a source.



Move this circle to a place on the image that can act as a source for the first marking. The selected area will then be improved based on the source.

Prior to this, you can reveal sensor spots, which will appear as a bright patch in the image, with (1).

(2) Allows you to expose or hide the fixed areas. The corrections are still active, even if they have

been blended in. Hiding is solely to enable a before and after comparison.

You can select multiple areas to correct by simply clicking on the brush symbol **(6)** and adding another point.

The button marked (3) can blend the targeted corrections in and out, which also controls clarity.

NEW: Under the quality **(10)** tab, a dropdown menu including five new quality modes allowing you to automatically search for corresponding areas will open. With the different quality levels you can scale how the automatic search proceeds.



Note: This search quality is used for all of the following search area settings.

(5) Deletes the added corrections.

The section marked (7) controls the size of the area that is to be corrected.

You also have the option to automatically search for the best source area for the improvement. Click on the **(8)** button.

Button **(4)** calculates the appropriate correction spots for all of the points automatically set using **(8)**.

All currently selected corrections can be deleted with the **(9)** button.



The sensor spot corrector marks all of the patches and determines a source within the image that can be used as a substitute.



Successful sensor spot correction.

16. HDR Generation and Bracketing Editing

What happens in actual HDR image generation in **HDR projects 8 professional** before post-processing has made the image printable and suitable for display on monitors?

In a bracketing series, every individual image area contains a various number of pixels that are either under or over exposed. Let's assume that every section of the **photo is correctly exposed** in at least one of the images in the series.

HDR projects 8 professional uses a complex process to correctly filter out all of the accurately lit pixels and assemble them into one complete image. The process is determined by mathematical commands - the algorithms. Various algorithms influence different HDR results, which depend on the final brightness of the series of images.

The software professionally takes over this process for us. We simply have to attend to the result and decide which outcome is most visually pleasing to us and which HDR image we would like to edit further.

New: Smart Explosure Analysis

If you have invited a bracketing series, this new section will perform an analysis of all active images for you, related to possible blur or brightness anomalies, for example, if an image is extremely under- or overexposed.

Smart Exposure Analysis



The analysis window will give priority to the master image and indicate that image 1 of 4 images is slightly blurred. By clicking the "Disable Blur" button, this image is deactivated and is no longer included in subsequent calculations. You can accept this help or ignore it by clicking on "Close".

It is always worth taking a look at the analysis, because you can recognize conspicuous features in a flash and react if necessary. Synthetic, i.e. additionally generated images, are not taken into account in the analysis.



In the 2nd example, the analysis tool draws attention to abnormalities in 5 of 8 images: 3 images that are too dark and 2 that are slightly out of focus.

One consequence could be to deactivate the slightly blurred images and to brighten the images that are too dark.



The re-analysis confirms the corrections: "No abnormalities found in the active images of the exposure series".

exchange.

HDR Weighting



From post-processing in HDR projects 8 professional, transfer to HDR generation with this button. We see the work area on the left-hand side for HDR weighting, and HDR algorithms on the right. Your HDR picture will always be displayed in the middle of the screen while editing. At the moment the image doesn't look all that spectacular, but remember that the monitor cannot yet properly show what was actually calculated.



Presets for the HDR weighting distribution

Above the actual bracket series you can find presets controlling the automatic settings for global weightings.

The denoising technique "midtones dominate" is set in default.



Even distribution: All pictures have the same influence on the HDR picture and thus create a unique result for every bracketed series. However, some aspects of image noise such as dark exposure may remain.

Master dominant: The master image (centrally exposed image) dominates the fusion of the HDR image.

Therefore, the processed image of the HDR fusion is close to the central exposure but contains additional details from dark and light images.

Lights dominate: The HDR fusion concentrates on the light images, and primarily attempts to determine the details there.

Exposure brackets that are generally very dark are lightened with this weighting algorithm and are thus optimised for further processing.

Shadow dominant: Here, most of the information is taken from the dark images of the exposure bracketing.

Processing leaves your image with the maximum amount of details but also possesses the tendency of intensifying image noise in darker images and is thus suitable for exposure brackets with low ISO value.

Midtones dominate: With this form of weighting, the main information from the images within the exposure bracket which are optimally exposed in the midtones is used.

This method reduces noise and is extremely suitable for dark pictures with high ISO values.

To further fine-tune the weight distribution, you will find the following functions under the presets for weight distribution:

a. The checkbox at the top left allows you to exclude or activate an image from the series for HDR processing. If you remove a bright picture from the



series, the HDR image will be darker in the midtones in certain areas and vice versa.

b. Directly below is the miniature view of the single bracketing exposure. Left click to display the image at full size. Another left click on the mini-picture will return the HDR final image.



- c. To the right of the colour view you can see the HDR weighting matrix of the exposure series image. Bright pixels mean that this area is very strongly reflected in the HDR result image. Dark pixels mean that this area is weak in the HDR result image.
- **d.** The minus button under the weighting colour removes an image from the loaded bracketing series. It is

only possible to delete exposures that are above or below the master image. The master image itself cannot be removed and has no minus symbol.



e. The button to the left under the bracketing preview image selects a new master image. You will clearly

see a significant difference in the brightness distribution of the HDR fusion.

Synthetic Bracketing

With help from this exceptional technique, gaps in bracketing series can be filled.

Let's suppose, and this is no individual case, that the longest expo-sure of a series came out somewhat blurry. Click to remove the image from the series and let the system generate a synthetic bright image for you. All of the shots in the series are already sharp.

This technique can also be used for manufacturing an HDR image out of a single picture. Two synthetic exposures will be generated for an uploaded single image, one with reduced exposure time and one with increased exposure time. An additional image will be synthesised when only two bracketing images are uploaded so that there are always at least three photos available image.

Click on and add another

synthetic image to the series. The original image will always be used as the master image. New images will be labelled as "Synthetic".



Global weight & Exposure value (EV)

For every exposure in bracketing series, synthetic or real, there are two controls that are very influential on the HDR process:

- Global weight
- Exposure value (EV)





The example shows the master image directly after being loaded. The weighting and exposure controls are in the middle. The window to the right of the preview shows how the image is represented in the HDR fusion. Sliding the global weight to the right, raising it, increases the proportion of this image in the final HDR fusion. This can also be recognised through a brighter weighting matrix. Here "Bright" does not mean that the image will become brighter, rather that the shot will compose a greater portion of the HDR fusion. The result can become brighter or darker.

The picture will become brighter once you adjust the exposure control underneath towards "Bright". This adjustment can be applied to each image in the bracketing series and therefore have a substantial impact on the HDR fusion.

Simply try it out! If need be you can set the controls any time back to its original setting.

Right side "Edit Exposure Bracketing"

a. HDR Fusion profiles

HDR fusion profiles are the optimal way to save the HDR fusion settings from an exposure series for later work and reuse them.



The following functions are available for the HDR fusion profiles:

- Selection of a profile in the selection list by clicking on it
- ✓ Saving the current settings as a profile
- ✓ Delete the current profile
- ✓ Import / export of profiles



Which settings are stored in an HDR fusion profile?

Basically, all data of the HDR fusion settings are stored in a profile:

- ✓ The settings of all HDR algorithms
- ✓ The automatic motif brilliance
- ✓ Ghost Correction Settings
- ✓ Contrast range optimization

b. HDR Fusions Method



Ultra-HDR technology for the fusion of exposure series images: Ultra-HDR calculates up to 30 intermediate images between two photos, with an accuracy of 64 bit.

The result is impressive and shows much more detailed images and better results at critical points (e.g. when photographing in direct backlighting), see **Chapter 10 "Post-Processing: Finalisation"**. You can also access these settings at any time in post-processing.

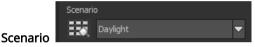
Ultra HDR Mode "Highlight Boost"

The standard activated ultra-HDR mode "Highlight Boos" creates more realistic HDR-pictures. Especially tricky lighting condi-

tions can be mastered with the new mode. It helps to bring all the details in your images to life – details such as hair structure, for example.







In addition, the HDR mergers can be influenced with scenarios. If you want your results to be adapted to specific lighting situations, select from seven scenarios: "daylight", "landscape", "twilight", "architecture", "interior", "night shot" and "mixed light". The scenario browser gives us an overview of all the options that we can set directly by clicking on the picture.

c. HDR Algorithms

The HDR algorithms are located together with the parameter controls on the right side of the user interface.

An HDR algorithm is a mathematical rule that defines the weights (see weighting view in the exposure bracket) of each exposure bracket image per pixel. Each algorithm has a different effect on the HDR result image and has strengths and weaknesses depending on the subject.

Overview of HDR Algorithms

HDR projects 8 professional offers 13 different HDR algorithms to choose from. Click on the algorithm browser for a quick overview. Here you can choose your preferred settings.

Average: The average is the easiest form of HDR generation and uses the bracketing midtones.

Entropy: In information theory, entropy is a measure of the density of information. When applied to an HDR fusion, the appropriate algorithm measures the density of information of each of the bracketing images pixel for pixel and converts this weight into the HDR generation. The result is a very stable process that is set as a standard algorithm for **HDR projects 8**.

Luminance Distance: Luminance distance applies the average brightness distance in the image as the weighting for the HDR fusion. This algorithm is also a universally applicable process that can be used for almost every bracketing series.

Colourmix: The colour mix process applies the colour proportions of the pixels as a weighting measurement. It is particularly suitable for bracketing series with limited brightness differences in certain areas, for example fog, smoke or cloud shots.

Luminance Entropy: The luminance entropy is a combination of the *Luminance Distance* and *Entropy processes*.

Luminance RGB: The RGB process combines the *Luminance Distance* and *Colourmix* processes into a new procedure which is best suited to landscape shots

Linear Luminance: The linear luminance applies the luminance as the weighting for the pixels.

Logarithmical Luminance: This algorithm works with logarithmic brightness (luminance). This corresponds to the human eye's

perception of brightness, which makes this algorithm appropriate for most bracketing series.

Quadratic Luminance: This algorithm works with the fourth power of brightness and is thus well suited to editing bright bracketing series.

Chroma: This algorithm calculates the weighting from the colours of the individual images and is best suited to bracketing series with high colour contrast.

Absolute Distance: A very powerful HDR fusion technique, which combines two essential features. When **HDR Smoothing** is deactivated, all HDR images are free of halos and brightness outlines are avoided.

Luminance Sharpness: For this algorithm, the luminance sharpness (brightness) is determined for each pixel and converted into a weighting. This process yields the best detail for HDR fusions.

Colour Sharpness: The colour sharpness process, like the luminance sharpness feature, determines the sharpness - the level of detail, that is - for every pixel. This technique uses each colour channel, and is thus best suited for bracketing series with intense colours.

Repro neutral: This HDR-process is specially optimised for bracketing series of scanned photo data with normal light situations.

Repro intensive: The Repro intensive HDR-process is built for scanned images with low quality such as images from old Diascans. The fusion of images is here clearly carried out even more intensive.

Which algorithm should I choose? If you are not sure which algorithm would be best suited to your subject, use the "Absolute Distance". This one is always a good choice.

Otherwise, you can always access and adjust the HDR algorithms and post-processing/tone mapping at any time.

d. HDR Smoothing for Selected Algorithms

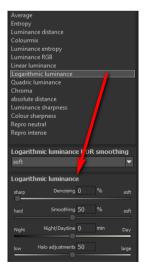
Just below the selection list for HDR algorithms is a block with controls for finetuning colour sharpness: "Chroma HDR smoothing" from sharp to very soft.



Further parameters for the adjustments of HDR algorithms:

Denoising: Denoising appears directly on the HDR image and the noise removal intensity is also presented as a percent. A value of 0% means that no noise pixel will be removed, and a higher value removes more noise from the HDR image, which would be favoured for sharpening an image.

HDR Smoothing: HDR smoothing directly influences the weighting matrixes that were created by the HDR algorithms. The smoothing intensity is displayed as a per-



centage, indicating how dependent the result is on the image resolution. A value of 50% means that weighting matrixes will be smoothed by 50% of the image resolution. The smoothing works with the Gauß´schen scrim diffuser.

Night/Daytime: The day and night controls match the HDR algorithms to day or night shots. Move the control to the left for night, when your bracketing series is suited to a night image, and to the right for day, when your bracketing series is suited to a photo taken during the day. You can also just as easily switch the setting to quickly change the picture's mood.

For some HDR algorithms there is an additional feature available, in this example the "Luminance Distance".

Halo Adjustment: The halo adjustment deals with a typical HDR generation problem: the formation of halo effect (HDR shadows). The image on the left has a minor defect, there are halos where the roof meets the sky.



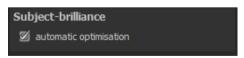
In the right-hand image, the halos were reduced by 85%, so that the halo effect around the roof has disappeared.





The halo control is available for certain HDR algorithms, here the "Luminance Entropy" algorithm was used.

e. **Subject-brilliance:** Activate the automatic intelligent optimisation by clicking on the box.



f. Ghosting correction

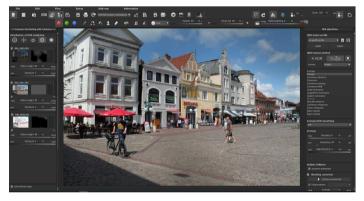
(Interactive, automatic optimisation of ghosting correction)

In the area of ghosting correction the automatic optimisation is

started by clicking on the "automatic optimisation" button.

Directly on screen you will be to see the optimisation process. Here different parameters for the detail prognosis as well as for the intensity are tested by the program until the best combination is found. This combination will then be inserted into the program for you.





This calculation can take several seconds, depending on the size of your bracketing series.

In the result you will get a HDR-image without ghosting and which through automatic optimisation now includes the maximum possible amount of details.

Tip:

When you adjust the focus of the ghosting correction, you will be able to start the automatic optimisation anew and to receive a new result that is optimal for the new focus.

g. Contrast range

(HDR-contrast range and automatic optimisation)

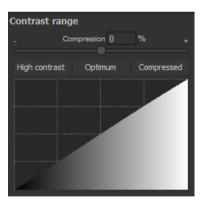
The contrast range of an HDR image is made up of the division between the brightest area of a photo – a photo shot directly into the sun, for example - and the darkest area, so in the shaded areas of the image.

A calculation example:

The brightest area of an image has a value of 5 (the value 1

would mean a white pixel in the image) and the darkest area in the HDR image has a value of 0.01.

If one divides now 5 by 0.01 then the resulting contrast rage of 5/0.01 = 500. This means that the proportion between the brightest to the darkest area of the image is 500 to 1.



From this contrast range you can take inspiration from the area "contrast range".

The compression value shows how strong the compression of the HDR image brightness is in comparison to a nonmanipulated HDR image. Here it is 0%, since we haven't done any changes yet.

The compression value you can adjust as you wish to. A low value creates a higher contrast range in the HDR image (the HDR is being "stretched" in its brightness). A higher value creates a smaller contrast range (the HDR is being "compressed" in its brightness).

Underneath the controller you will find three buttons, which control the automatic optimisation of the contrast range:

- High-contrast: Creates a high-contrast HDR image. This
 is an image with very deep shadows and very bright
 lights.
- ✓ Optimal: Creates a well-balanced HDR image.
- Compressed: Creates an HDR image with a small contrast range. This can be helpful with contrast rich bracketing series, since it helps to bring out further details in tone mapping.

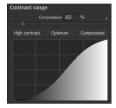
As soon as you confirm the automatic mode, you will be able to follow in real time how the best values for your current HDR image are determined searched.

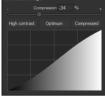
Tip:

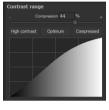
This value is for every HDR algorithm different. Therefore it may be a good idea to click on the desired automatic function after changing an HDR algorithm.

Under the automatic optimisation buttons you will find a curve display. This shows how much the brightness values of the HDR image have been adapted in the contrast range optimisation of the program.

Curve display of the distribution of the brightness value:







High-contrast

Optimal

Compressed





In the above example, we see how the same HDR image with the optimisation "high-contrast" (above image) and the other with the optimisation "compressed" (bottom image) are handled.

17. Edit Weighting with the HDR Painter

HDR painter is a powerful tool to manually adjust certain areas

HDR painter is a powerful tool to manually adjust certain areas by editing individual images of a bracketing series



Exposure Bracketing View (left): The individual images of a series are sorted into red, green and blue. When the bracketing has more than 3 exposures, the master image will be set as green and the next active neighbouring images as red and blue. If you would now like to make changes to the weighting of a particular image, pay attention to the image's colour and choose the respective colour in the paint symbol bar.



To clarify: The brush does not mean that you are painting colours directly onto the image, you are adjusting the brightness weighting in certain areas of individual images. For example, an

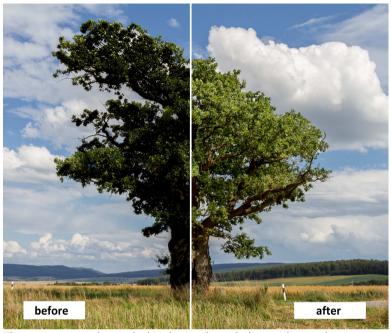
HDR result shows a landscape where the exposure is correct everywhere except for the tree in the foreground, which is too dark. Here you can select the brightest image from the series and enhance the brightness of the tree by "painting" the object. The final fusion is a balanced image with a correctly lit tree in the foreground.

Adjusted Weighting:

After drawing, the adjusted weighting can be seen to the right

of the individual image. The white drawn strokes mean that you have emphasised the tree in the brightest image and that the tree will be brighter in the HDR result.





The tree was selectively brightened, and this without altering the brightness of the sky, clouds or plains. The diffused brush makes the transitions invisible. The result is a properly weighted image with a correctly lit tree in the foreground. The well structured sky remains in the background.

> Important tools of the HDR-Painter:

- Increase weighting: Draw on the selected area to enhance the weighting of this portion of the image.
- **Reduce weighting:** Draw on the selected area to reduce the weighting of this portion of the image.

Brush size: Adjust the size of the brush.





Brush form: With numerous new brushes, you will find the right from for your selected area.

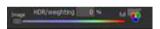


Stamp: The stamping mode not only edits the weighting of the current image but adjusts the weighting of all of the other exposures accordingly. For example, if you use the paint tool to increase the weighting of an area in one image, the weighting of that same section will be reduced in all of the other exposures to amplify the effect.



Blurring: If you want soft transitions between corrected and original areas, trace the blurring function over the borders to soften the transitions.

HDR-image/ weighting: This function mixes the view between the HDR image and the weighting. This is very ef-



fective for maintaining control while drawing.



Delete weighting: Delete the drawn weighting for the active image of the series.



Delete all: Warning: This function deletes all of the drawn weightings and returns to the initial settings.

18. Ghosting Removal with HDR Painter

When we manually adjust parts of images, it naturally has an effect on the program's ghost image correction. Ghosting can occur when capturing a bracketing series of a scene where people or vehicles are in motion and thus captured at a different position in every shot. Without the automatic ghosting removal from HDR projects 8 professional, the moving objects would appear at a different position in every image, thus causing a ghost-like effect.

Manually removing ghosting:

The following example illustrates how HDR painter can eliminate the regular problem of people walking through a bracketing series.

Here is the example after being uploaded and without ghost removal:



Looking at the image, the people on the left and right are immediately recognisable as ghost images.

Let's remove the ghosting as follows:

- Find the image in the series displayed on the left that comes closest to the brightness of the HDR image. This is usually the master image or one above/below.
- Select the button for the appropriate colour for this photo, and HDR projects 8 professional will allocate red to this image and automatically open the HDR drawing mode.



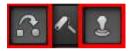
3. Select the "Increase Weighting" function and activate stamping mode.



4. Draw over the people by carefully dabbing with the brush.



5. Select the "Blurring" button and stamping mode.



6. Carefully trace the edges of the correction with the blurring brush. Done!

Switch to tone mapping and select the "Natural sharp" preset to see the result.



The ghosting has disappeared from the HDR image!

Tip: "Dabbing" the brush is the optimal method for best results.

If you would like the program to automatically remove ghosting or you have simply forgotten to activate the ghosting removal in the HDR preparation when loading the images, click on this

button to start a new evaluation.

Warning! A new evaluation eliminates all manually removed ghosting!

19. Workflow

Edit final image further in an external program

HDR projects 8 professional offers interaction with external programs. This way you can take a successful HDR result to another photo editing program and continue there.

Open in other projects programs

Click on the "Projects" symbol in the toolbar to open the image in a different program from the projects series. Use the dropdown menu beside the symbol to choose one of the programs that you already have installed on your computer.



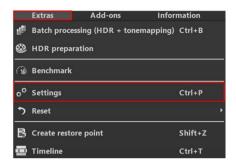
Open in other photo-editing programs

To directly open the image in another photo editing program, such as Adobe Photoshop, click on the corresponding button in the symbol bar.

If necessary, go through the settings to show the path to the program. Click on "Extras" in the menu and select "Settings" in the drop-down menu:



Click on "Extras" in the toolbar and select in the context menu "Setting" that opens:



Next, click on the "Export" tab. You can enter the name of a photo editing program here, and save it for later as well.

With the exception of Adobe, you have the option to rename the external editors. The name you assign will be displayed in the Quick Export menu in the toolbar of the main screen.



Work with a Timeline and Restore Points.

This option can be found in the symbol bar at the top edge of the screen:



"Create Restore Point" saves a virtual snapshot of the current settings. You can now always return to this stage of your editing. You can save as many editing restore points as you like. The timeline displays the restore points and makes it possible to call up any phase of the editing process with just a single click:



This function is especially useful when, for example, you are satisfied with an image, yet want to continue trying out different settings and effects. Simply set a restore point and carry on editing your picture. If you want to go back, simply click on your restore point in the timeline.

If you click on you can add your own note as a heading.

20. Selecting and Saving Sections of Images



To save a final image, click on the button in the toolbar, go through the file menu or use the corresponding keyboard shortcut (Ctrl + S).

Cropping and captions

As soon as you have initiated a file save, the cropping and caption window will open. If you would not like to crop or add a caption to your image, click continue.



At the top are several practical aids for perfect image composition and cropping.

You can set the aspect ratio and activate guidelines like the rule of thirds, the golden section or the golden spiral. The new photo centre display is also quite practical which you can access by simply clicking on this button.



The centre of the window shows your final image. Fix the area to be saved by adjusting the corners and borders of the photo.

At the bottom is an option to enter a caption. You can determine the size, position and background for the text.

The size of the text will be automatically coordinated to the final cropping.

You can either crop by hand or use one of the 71 provided formats.

Please note: If you choose the cropping ration, 13 x 18, for example the final image will not be saved as 13 x 18 cm, rather as a ratio of 13 to 18.

You will also find the "Scale and Save" button at the bottom. With this option you can choose between 30 different templates for various online platforms such as Facebook, Instagram, YouTube, etc. or simply specify your own scaling values (scaling in percent and resolution in

pixels).



As soon as the image has been cropped and captioned, confirm the save and the following window will prompt you to select a file format and name your file.

21. RAW Processing



You can upload and edit RAW image data with the integrated RAW mode. Numerous tools are available to you here, such as denoising/sharpen, exposure, colour and detail as well as powerful distortion capabilities.



In this RAW mode changes that are made will be

transferred onto the entire bracketing series, so that you only have to put in the settings once.

There are 3 extensions in HDR projects 8 professional:

- 1. camera data
- 2. protect image areas
- 3. presets in the individual categories



Shot Information: The selected metadata belonging to the image such as image resolution, aperture, exposure time, focal length and ISO number can be displayed.







Protect image areas: This new area protects image areas from the changes made in the RAW module. It applies to single images as well as to exposure series or the entire image sequence

and to all effects. For example, control changes "Micro details" in the "Structure" area of the above image would affect the whole dog, "Intensive protection of smooth areas" would only affect the contours, resulting in a much more pleasant overall effect of contrast enhancement.



By clicking on the mask symbol to the right of "Protect smooth areas intensively", the "protective effect" can be visualized - the effect or several effects will affect all white areas 100%, the grey ones less and the black ones not at all.

All 28 area protection variants can be combined with all effects and always affects the entire settings.



This means that you can also combine a created camera profile with various controller changes with an area protection at any time. However, it is not and will not become part of the profile, but always remains a new individual adjustment.





Presets in all areas/categories:

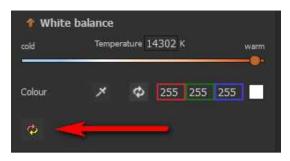
In each category, clicking the arrow next to "Defaults" will now offer a preset selection that matches the selected range.

In the category "Exposure", for example, you can change your image already here in the direction of a certain mood or a desired image locus, which can also be contradictory and very different: Bright or dark, brilliant or dramatic. Or in the "Colour" category summery or wintery.

Additionally, the presets of the individual categories can be combined, e.g. "Exposure/Brillant" and "Colour/Summery".

Resetting the category:

Every category can through a click on the reset-button (bottom left) be reset to its original state without influencing the settings of the other categories.





Overview of the most important RAW functions:

White balance: Here you can regulate the colour temperature. Use the pipette to select a white balancing colour directly from the image.

Denoising/ Sharpness: This feature regulates the image's noise and sharpness. Control the quality and different types of noise such as colour noise, banding or hot pixels.

Colour balance/ white balance: Here it's all about colour and black/white correction. Modify the general colour mood and

neutralise white and black - the icing on the cake for professional colour correction

Exposure: Influence lights, shadows, contrast and brightness in the final image. With the new dynamic brightness you can adapt the light to the contents of each image individually.

Details: Fine-tune clarity and micro-details with lights, shadows and midtones.

Colour: These colour settings are about luminosity in shadows and lights. Here you can also counteract unloved chromatic aberrations.

The differentiated chromatic aberration by colour is used to remove chromatic aberrations of a certain colour. A lens curvature is calculated backwards on the selected colour channel. You have the choice between: "Light Diffraction Green". "Light Diffraction Blue" and "Light Diffraction Red".

Palate: Adjust the saturation of individual colours.

Distortion: Take a closer look. These mighty tools can straighten out the horizon, correct camera angles and lens errors. Use "Autofit" to automatically trim any



awkward borders.



The reference grid can be adapted in the distance between the grids as well as in its transparency. This is how you will always have the maximum overview when you are correcting your settings.



Lens correction: Corrects the edge light loss that occurs with some lenses.

Peripheral light: Corrects the curvature of the lens.

Horizon: Corrects the horizon by rotating the image.

Vertical: Tilt the image left or right for vertical perspective correction.

Horizontal: Tilt the image left or right for horizontal perspective correction.

Zoom: Zooming the image avoids empty areas that may occur during distortion correction.

Trapezoid left/ right: The vertical trapezoid correction pulls the image either at the left or right edge of the image and corrects the perspective.

Trapezoid top/ bottom: Horizontal trapezoid equalization draws the image either at the top or bottom of the image and corrects the perspective.

Stretch left/right: With this parameter you can stretch the image into the width, starting from the left or right edge of the image.

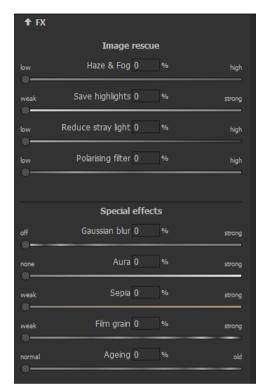
Stretch top/ bottom: With this parameter you can stretch the image upwards, starting from the top or bottom edge.

Aspect: Change the aspect ratio of your image files.

Shift L-R: Shift the image files to the left or right.

Shift U-D: Shift the image data up or down.

Category FX:



This category contains special effects like a mist & fog correction, save highlights, sepia and film grains as well as different gradients.

Pro Tip:

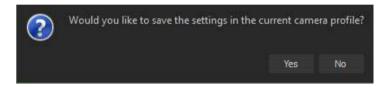
When you take a landscape shot, shift the controller to "Gradient top" to a dark tone and create in that way a neutral thick (ND) – process filter.

General:

Activate the "360° panorama mode" to optimise matching edges of images in a panorama series. Save your settings as a camera profile to save time in the future. This can be reset at any time.

If you have conducted the settings in RAW mode, click on "apply".

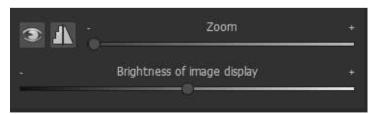
If you save your settings in the camera profile, you will save a lot of time for future photographs. The settings can be reversed at any time



Zoom and Brightness

At the top right are the sliders for zoom and brightness of the picture display.

Note: With the brightness setting of the picture display, you do not change the brightness of your picture, but only the display, for example to be able to recognize the effect of a picture noise in darker areas.



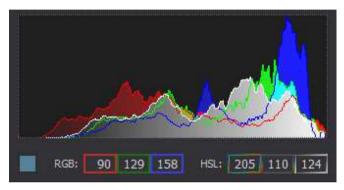
Histogram

The histogram is located below the sliders.

RGB: Here the RGB values of the pixel are displayed below the mouse pointer.

HSL: Displays the HSL values of the pixel below the mouse pointer.

Note: HSL stands for Hue (colour angle), Saturation (colour saturation) and Lightness (brightness).



22. Batch processing

HDR projects 8 professional's batch processing allows for automatic processing of multiple bracketing series. The function can be found in the drop-down menu for **"Extras"** in the menu bar.

Here you will find two types of batch processing:

- a. Batch processing HDR + tone mapping
- b. Batch processing HDR fusion

a. Batch processing HDR + tone mapping

First, choose the source folder where the individual images (HDR from one exposure) and/or the bracketing series are located. The files can also be mixed, since the system will automatically recognise and sort the bracketing series vs single shots.

The "Include all subdirectories" checkbox not only searches through all of the selected folders, but also all subfolders and their further subfolders.

Batch processing: Renaming and sorting

In the area of the target folder you will be able to activate the "sort mode". You set thereby the batch processing in the renaming and sort mode.

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As soon as the sortation mode is active, new push buttons will appear.

File name filter:

Here you can insert a file name for renaming the image with the help of Syntax:

-Text

##.# for the number of bracketing series, the number of # signs gives the number of places of numbering

-Text

##.# for the number of images within the current bracketing series, the number of # signs shows the lists the number of places that are numbered.

The **file name** "Shooting072016_####_##" creates image data in the form of:

Shooting072016_0001_01.cr2, Shooting072016_0001_02.cr2, ..., Shooting072016_0002_01.cr2, Shooting072016_0002_01.cr2, ...

Note: To sort your image data into the data carrier without renaming, leave the file name simply empty.

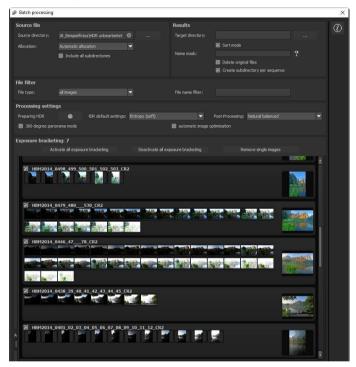
Deleting the original file

This option you should only use if you are absolutely sure that your insertions are correct.

The original data of the image will then be deleted. Only the newly changed sortation and names will remain, the original data of the image will then have been deleted.

Install a subdirectory per sequence:

When this function is active, each bracketed series gets its own subdirectory.



Note: Remember that looking through folders with several subfolders can require a lot of time. This is why selecting "C:\" is not recommended.

> Allocation and automatic bracketing recognition

This feature takes on all of the work for you. Now you can choose between different modes:

Automatic allocation: Loads all of the images and based on the images' content, locates those that belong to an exposure bracketing series. The brightness as well as the coverage are compared, which results in very good automatic recognition.

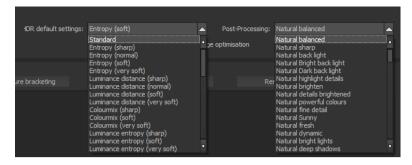
Individual images: The "Individual images" option sorts every image into its own bracketing series. This setting is very well suited for editing image sequences, for example, those generated from footage.

2 image to **9** image groupings: Select this option if you have taken HDR films or are certain that the bracketing series in your folder all contain the same number of shots. The file names for the final images will automatically be successive, so that the edited images can be directly used in a video editing program.

Results: Here you can set where the resulting images of the batch processing will be saved. Select the corresponding folder with the "Target directory (. . .)" button or enter the name of the folder directly into the text box.

Format: You can choose from nine different formats to save your resulting images. With .jpg, .tif and .png, there are two 8-bit formats (LDR) and four 16-bit formats (HDR). JPG images are always the highest quality and TIF files are saved uncompressed and without defects.

For further web editing, the final images can be saved in Open EXR as well as in Portable Floatmap and Radiance RGBE.



Processing settings

Select the settings for the HDR preparation and tone mapping here. These apply to all of the bracketing series in the batch processing.

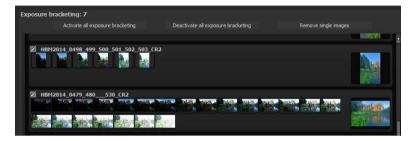
HDR default settings: The HDR default settings offer three to four presets for every HDR algorithm. Simply select your preferred preset from the list.

Post-processing: The presets contain all post-processing/tone mapping presets, including all of the presets from your "Custom" category that you designed yourself. You can also choose a special preset before batch processing and apply it to multiple bracketing series. As soon as the HDR presets and post-processing switch, all of the preview images in the bracketing series will be recomputed, so that you always see a real view of the results.

HDR preparation: Open this dialog to adjust options like colour space, white balance, alignment etc.

Note: Apple computers systematically open this dialog before the batch processing window.

Exposure bracketing view: Here you will find information about the located bracketing exposure series.



At the top of the display is the number of listed bracketing series. Directly below it are three buttons for global activation and deactivation of series.

Activate all exposure bracketing: Activate all corresponding bracketing series for the calculation. (Standard setting)

Deactivate all exposure bracketing: Deactivates all assigned exposure bracketing for the calculation.

Remove single images: Removes all exposure bracketing for single images from the calculation and display. You can use this option if the program develops a very bright or very dark image incorrectly, or if you have taken photos that should not be processed by HDR.

Batch processing for HDR fusion

In HDR fusion batch processing, you calculate the image stacks for the pure fusion HDR images without applying any post-processing or tone mapping filters.



These methods make the most sense when you want to edit the fused results further in other programs or want to create and save pure 32-bit HDR formats.

The available lossless final formats:

- Radiance RGBE (.hdr)
- Open EXR (.exr)
- Tiff 32-bit (.tif32)
- Portable Floatmap 32-bit (.pfm)

23. Via GPS coordinates directly to Open-StreetMaps

If the GPS coordinates are in your Exif-files (Menu \rightarrow Exif information), then you will be able to locate the place where the photo was shot when you click on the button "Open GPS coordinates via Browser". You will see the place the photo was shot in www.openStreetMaps.org.





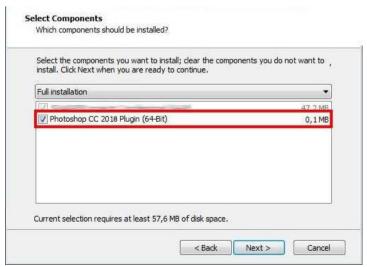
24. Plug-in Installation

HDR projects 8 professional can also be used as a plug-in for Adobe® Photoshop. Newer versions of Photoshop are automatically detected by HDR projects 8 professional during installation and the plug-ins are installed in the respective plug-in folder. Older versions of Photoshop might require manual installation.

If you purchased your software as a download or if you have lost your CD, the plug-ins are also available for download at: www.projects-software.de/plugins

24.1 Using Photoshop Plug-Ins in Windows

The following window will appear when installing **HDR projects** 8 professional

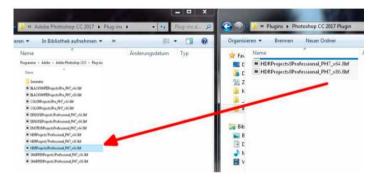


Select the version of Photoshop where you would like to install the HDR projects 8 professional plug-in. Click on "next" and follow the instructions from the installation assistant. The plugins will then be automatically installed.

Please note: When using older Windows systems, it can occur that not all Plug-ins are automatically installed. Should this occur, simply copy the preferred Plug-in directly into the appropriate folder of your current Photoshop version as shown in the picture below. Should you be using an older Photoshop version, simply copy the lowest Plug-in.

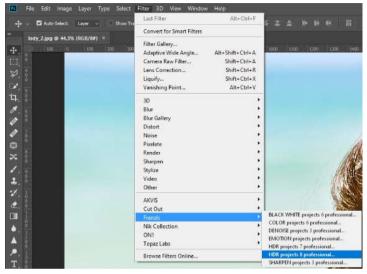
Example: Photoshop CS6 users should copy the Plug-in for Photoshop CS6 and not Photoshop CC 2014. In this case CC 2017. The corresponding Plug-in can be found on the CR-ROM under "Plugins".

The folder can be found under C:\Programme\Adobe\Adobe
Photoshop CC 2017\Plug-ins



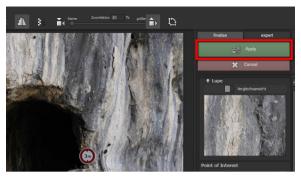
You can also complete the Plug-ins installation at a later date. Please install Photoshop before attempting to install the Plug-ins! Following installation of the Plug-ins, please reopen Photoshop.

In Photoshop under the menu tab "Filters" you will the entry Franzis. All Plug-ins from the projects-collection can be found listed here.



Click on **HDR projects 8 professional.** The image opened and edited in Photoshop will now be opened in **HDR projects 8 professional.**

The program now finds itself in Photoshop Filter Plug-in Mode. You can edit the photo in **HDR projects 8 professional** just as usual. Once you are done editing, you can send the finished version back to its original Photoshop Layer by clicking on "**Apply**".



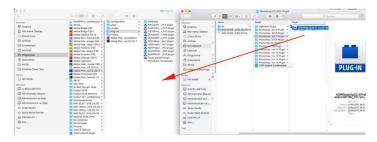
The "Cancel" button closes the Filter Plug-in without sending the changes made to the image back to the Photoshop Layer. Changes made in HDR projects 8 professional are therefore discarded

The project program will then automatically close itself. This mechanism is conducted by Adobe Photoshop and cannot be stopped.

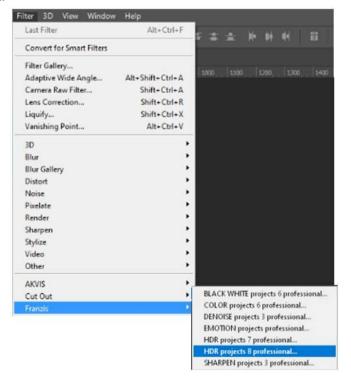
24.2 Using Photoshop Plug-ins with MAC OS X

Plug-ins can be found on the start screen in the "Plug-ins" folder. Select the appropriate folder for your version of Photoshop (we chose Photoshop CS6 for our example). Double click the .zip file to extract the plug-ins.

Next, drag & drop the plug-in **HDRprojects7ProfessionalFilter_PH6.plugin** (PH7 with other Photoshop versions) to the plug-in folder for your version of Photoshop, which is normally labelled as "plug-ins":



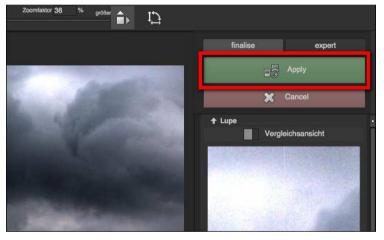
Start up your version of Photoshop, load an image and navigate to "Menu → Filter → Franzis → HDR projects 8 professional"



One click will start the plug-in. With a click you start the Plug-In. The image will now be opened in **HDR projects 8 professional.**

Now you will find the program in Photoshop Filter-Plugin mode. You will be able to edit the image as you're used to in **HDR projects 8 professional.**

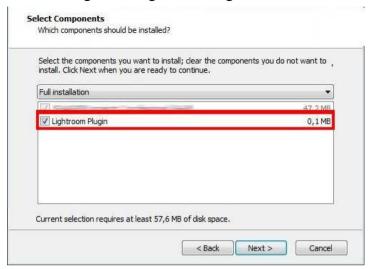
When you're finished editing the image you can send the image directly back to Photoshop by clicking on the button "apply".



With the button "discard" you finish the filter Plug-in, without sending the changes that you have done to the image back to the Photoshop level. The editing that you have done in HDR projects 8 professional will be discarded.

The project program will then automatically close itself. This mechanism is conducted by Adobe Photoshop and cannot be stopped.

24.3 Using Adobe Lightroom Plug-ins - Windows

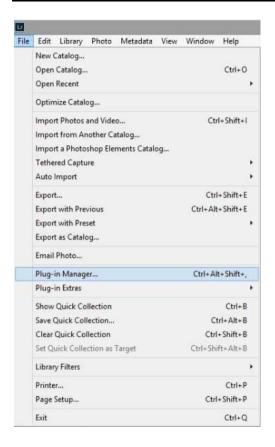


Start the installation program and check in the component selection if "Lightroom Plugin" has been chosen

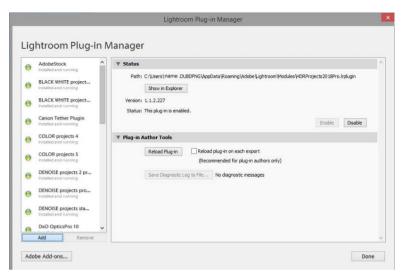
If you have no CD, the plug-in is also available for download at: www.projects-software.de/plugins.

Subsequently open your Lightroom version. Start Lightroom and navigate to "File

Plug-in manager" to check if the plugin has been activated.

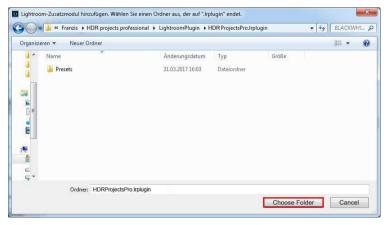


Should this not be the case, you have the additional possibility of manually installing the Lightroom Plug-in by clicking on "Add" option found in the Plug-in Manager.



To do this, navigate your way to the Plug-in folder containing Ap-

pData/Roaming/Adobe/Lightroom/Modules/HDRProjects8Pro.lr plugin

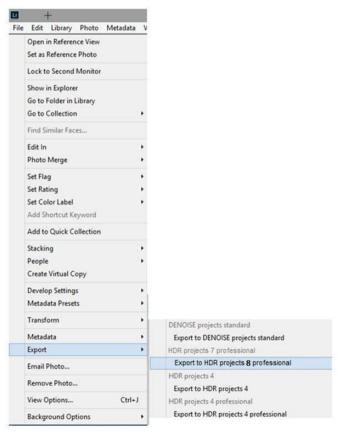


As soon as you find yourself in the folder labeled HDRProjectsPro.lrplugin, click on the option "Choose Folder" to install the Lightroom Plug-in.

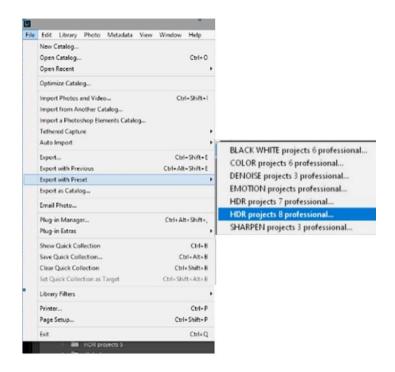
Lightroom: HDR projects 8 professional: Installed and executed.

Mark a bracketing series in your lightroom library.

Right-click on the image directly in Lightroom and select "Export → Export to HDR projects 8 professional".



Or: Choose "File → Export with Preset → Export to HDR projects 8 professional".



24.4 Using Adobe Lightroom Plug-ins - MAC OS X

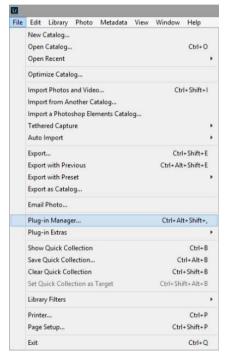
The Plug-In for Adobe Lightroom will not be automatically installed with MAC OS X. To integrate it into Lightroom, continue as follows:

Install **HDR projects 8 professional** to the program link of your Mac.

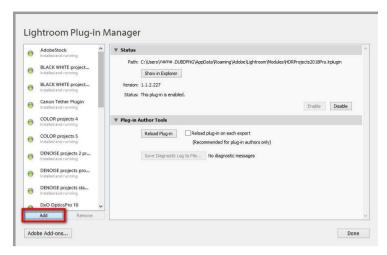
Copy the plug-in .zip file from the "Lightroom Plug-in" folder on your CD-ROM. We recommend the folder where also your presets are stored:

"Users/username HDR projects 8 professional".

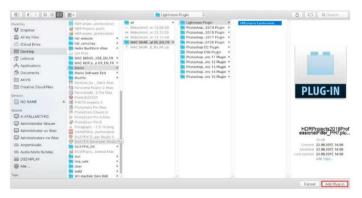
Start Lightroom und navigate to "File → Plug-In Manager".



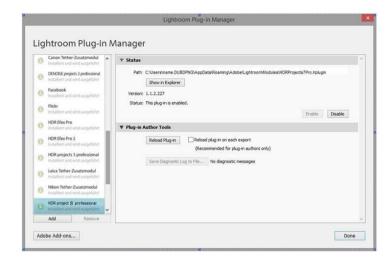
Click the "Add" button in the Lightroom Plug-In Manager.



Choose the relevant Lightroom-Plug-In of **HDR projects 8 professional** that you have just copied to your computer, by navigating towards it.



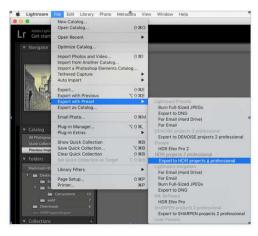
If the Plug-in is not instantly marked with a green active dot, close Lightroom and start it again.



Now the Plug-In should be installed and be up and running.

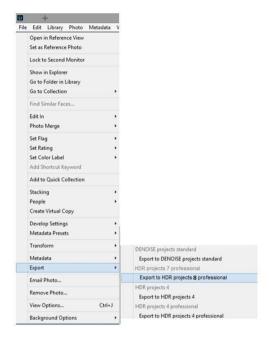
You have now several options to get your image from Lightroom to HDR projects 8 professional.

"File \rightarrow Export with Preset \rightarrow Export to HDR projects 8 professional".



OR:

Right-click on the image directly in Lightroom and select "Export → Export to HDR projects 8 professional".



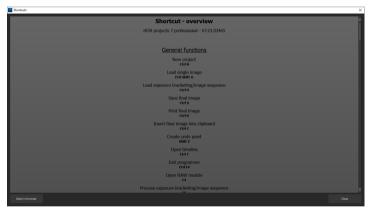
25. Keyboard Shortcuts

Overview of the integrated Keyboard shortcuts

In the main menu in the area of **information** you will find an overview of all available keyboard shortcuts.



Click on this item to open the overview:



In the overview you will be able to scroll through the different areas, where you can take shortcuts.

| General: | Amerika | |
|------------------|-------------|--------------------------------------|
| Windows | Apple | |
| Ctrl N | cmd N | New Project |
| Ctrl Shift O | cmd Shift O | Upload Single Image |
| Ctrl O Series | cmd O | Upload Image Sequence/Bracketed |
| Ctrl S | cmd S | Save Image Result |
| Ctrl D | cmd D | Print Image Result |
| Shift Z | Shift Z | Create Undo-Point |
| Ctrl T | cmd T | Open Timeline |
| Ctrl F4 | cmd F4 | Quit Program |
| F4 | F4 | Open RAW Module |
| F5 | F5 | Edit Image Sequence/Bracketed Series |
| F6 | F6 | Edit Weighting |
| F7 | F7 | Switch to Post Processing |
| Ctrl P | cmd P | Open Settings |
| Ctrl B | cmd B | Open Batch Processing |
| @ | | Access Homepage |
| Shift F1 | Shift F1 | Open About Dialogue |
| Ctrl I | Ctrl I | Show Information Section |
| Ctrl E | cmd E | Show Exif-Information |
| Ctrl H | cmd H | Show/Hide Histogram |
| Ctrl F | cmd F | Fullscreen Display |

Display Functions:

| Windows | Apple | |
|---------|-------|---------------------|
| Ctrl + | cmd + | Zoom in |
| Ctrl - | cmd - | Zoom out |
| Ctrl 0 | cmd 0 | Fit Image to Screen |
| Ctrl 1 | cmd 1 | 100% Display View |

HDR projects 8 professional - User manual

R Real-time Mode on/off

L Configure Radar Window (lock)

RAW Development:

Windows

| Williaows | Apple | |
|-----------|-------|----------|
| Ctrl + | cmd + | Zoom in |
| Ctrl - | cmd + | Zoom out |

Annla

Progress Browser:

| Windows | Apple | |
|--------------|--------------|------------------|
| Image up | Image up | Back one page |
| Image down | Image down | Forward one page |
| Pos1 key | Pos1 key | To the Beginning |
| End key | End key | To the End |
| Cursor left | Cursor left | Previous Item |
| Cursor right | Cursor right | Next Item |

Variation Browser:

| Windows | Apple | |
|------------------|------------------|-------------------------|
| Ctrl + | cmd + | Zoom in |
| Ctrl - | cmd - | Zoom out |
| Cursor left | Cursor left | Shift View to the Left |
| Cursor right | Cursor right | Shift View to the Right |
| Cursor upwards | Cursor upwards | Shift View Upwards |
| Cursor downwards | Cursor downwards | Shift View Downwards |
| Ctrl 0 | cmd 0 | Show All |
| Space Bar | Space Bar | Center View |
| Enter Key | Enter Key | Select Item |

Weight Painter:

| Windows | Apple | |
|----------------|-------|--------------------------------------|
| 1 | 1 | Choose Red Brush Tool |
| 2 | 2 | Choose Green Brush Tool |
| 3 | 3 | Choose Blue Brush Tool |
| Ö | Ö | Increase Brush Size |
| # | # | Reduce Brush Size |
| Ctrl G tion | cmd G | Calculate Automatic Ghosting Correc- |

Sensitive Selective Painting:

| Windows | Apple | |
|---------|---------|---------------------------------|
| Ctrl + | cmd + | Zoom in |
| Ctrl - | cmd - | Zoom out |
| Ctrl O | cmd O | 100% Display View/Adjust Fit |
| A | A | Activate Brush Tool |
| Shift A | Shift A | Activate Brush Tool with Limit |
| S | S | Activate Eraser Tool |
| Shift S | Shift S | Activate Eraser Tool with Limit |
| W | W | Activate Blur Tool |
| Е | Е | Activate Image Mask Creator |
| D | D | Activate Fill Mode |
| F | F | Activate Brush Fill Mode |
| R | R | Activate Brush Streak Mode |
| 1 | 1 | Reduce Brush Size |
| 2 | 2 | Increase Brush Size |
| 3 | 3 | Reduce Opacity |
| 4 | 4 | Increase Opacity |
| 5 | 5 | Soften Outline Recognition |
| 6 | 6 | Sharpen Outline Recognition |

7 7 Reduce Blur 8 8 Increase Blur Ctrl Z cmd Z Back One Step

M. Shift M M. Shift M Mask Display On/Off

Scratch and Sensory Error Correction:

| Windows | Apple | |
|---------|-------|----------|
| Ctrl + | cmd + | Zoom in |
| Ctrl - | cmd - | Zoom out |

Cursor left, Shift Cursor left, Ctrl Cursor left

Move Active Correction

Region left

Cursor right, Shift Cursor right, Ctrl Cursor Shift Active Correction Region right right

Cursor upwards, Shift Cursor upwards, Ctrl Shift Active Correction

Region upwards

Cursor upwards

Cursor downwards, Shift Cursor downwards, Shift Active Correction Region downwards

Ctrl Cursor downwards

| lmage up | lmage up | Select Previous Correction Region |
|------------|------------|-----------------------------------|
| Image down | Image down | Select Next Correction Region |
| C | С | Activate all Correction Regions |
| N | N | Set New Correction Region |
| Entf | Entf | Delete Correction Region |
| + | + | Enlarge Active Correction Region |
| - | - | Minimize Active Correction Region |

Selective Editing:

Windows Apple Cursor left, Shift Cursor left, Ctrl Cursor Shift Selective Editing Region left

Cursor right, Shift Cursor right, Shift Selective Editing Region right

Ctrl Cursor right

Cursor upwards, Shift Cursor upwards, Ctrl Cursor Shift Selective Editing Region upwards

upwards

Cursor downwards, Shift Cursor downwards,

Shift Selective Editing

Ctrl Cursor upwards

| Image up | Image up | Select Previous Correction Region |
|------------|------------|--------------------------------------|
| Image down | Image down | Select Next Correction Region |
| Entf | Entf | Delete Active Correction Region |
| 1 | 1 | Hide All Masks |
| 2 Masks | 2 | Show Active Selective Editing Region |
| 3 Masks | 3 | Show All Selective Editing Region |

Image Cropping:

Cursor left, Shift Cursor left, Ctrl Cursor left Shift Cropping Region to the left Cursor right, Shift Cursor right, Ctrl Cursor Shift Cropping Region to the right right

Cursor upwards, Shift Cursor upwards, Shift Cropping Region upwards

Ctrl Cursor upwards

Cursor downwards, Shift Cursor downwards, Shift Cropping Region

downwards

Ctrl Cursor downwards

26. Integrated list of supported RAW formats

In the main menu in the area **information** you will find an integrated list of supporting camera RAW-formats sorted by manufacturer.



If you chose this menu item a camera RAW-format window will open.



In the top area of the window you will find a selection of choices, with which you will be able to filter the list for singular camera manufacturers. This way you will find your camera faster. To have constant access to the supporting camera RAW- formats via a separate window, you can use the function "open in browser"(window bottom left), which will show the list in a

standard browser. You will also be able to print the supporting RAW-formats from there.

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