SHARPEN PROJECTS 3 PROFESSIONAL

User manual

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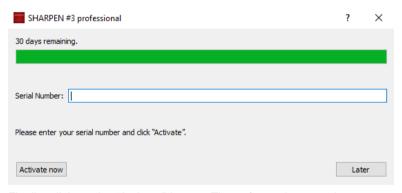
1. Activation

Activation using Windows

Upon starting **SHARPEN projects 3 professional** for the first time, you will be prompted to activate the program. Proceed as follows:

Install **SHARPEN projects 3 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.



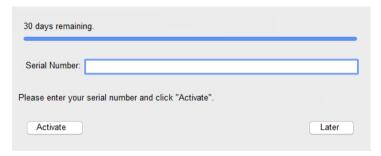
Finally, click on the "Activate" button. The software has now been successfully activated!

Activation using Mac

Upon starting **SHARPEN projects 3 professional** for the first time, you will be prompted to activate the program. Proceed as follows:

Install **SHARPEN projects 3 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: SHARPEN projects 3 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"

2. New Features

SHARPEN projects 3 professional offers many new features. Here is a summary of some of the most important developments:

- ✓ New intelligent masking function: Enables automatic selective sharpening while protecting specific image areas: Skin tones, sky blue, smooth areas, details, shadows, midtones and lights.
- Oversampling Mode for all sharpness modes: Oversampling mode "single" and "double" for finer and therefore more precise calculation of image sharpness.
- Quality mode "Pro Infinity": Pro Infinity uses the maximum possible size (of the current image) for the calculation of the PSF function and thus increases the quality of the blur reduction to the maximum possible.
- ✓ Contour mode for blur reduction: In addition to the brightness mode, a contour mode is now offered for blur reduction. In addition, there is also a function for automatically analysing the image and automatically selecting the correct mode for unsharpness reduction.
- √ 10 additional preparatory presets

✓ New "colour filter" module in selective drawing: 8 different colour filters (red, orange, yellow, green-yellow, green, cyan, blue, violet)

✓ Add-ons in selective drawing:

- Adjustable contrast and colour saturation of the composingpictures
- Bool'sche functions to combine masks
- Multiple UnDo & ReDo of the paintbrush-tool
- 18 new layer processing methods in HSV and HSL colour spectrums
- ✓ Scaled saving of images: A new sub-module in image cropping allows you to save images in a smaller size. This also includes around 30 templates for various platforms including Facebook, YouTube and Instagram as well as pixel-precise input of image formats.
- ✓ Scaling of images when loading in the image preparation: from 10% to 900% in 6 quality levels
- ✓ Select a font: Select one of the installed and compatible fonts according to your own personal preference. In addition to the font size, you now have the possibility to create an individual working space with your entire user interface displayed in the font of your choice.
- ✓ Add-on to the scratch- and sensor-correction: 5 new quality modes which search for corresponding areas automatically.

✓ Additional external programs: up to 12 external programs with configurable names.

✓ Extras in the RAW-module:

- Exposure value (EV)
- Brightness red, green, blue
- Hue shift
- Soft contrast
- Soft details
- Pastel colurs
- Bleach Bypass
- Polarising filter
- Reduce stray light
- Ageing

√ Notes in the Undo-Timeline

Image Preparation: The RAW to Camera Display adjustment converts the RAW image during loading so that it comes as close as possible to the preview of the camera and the file preview.

Optimisations Adjustment: RAW to camera display Automatic RAW luminocity optimisation Automatic rotation of images

√ The new 'EV Value' mode creates an exposure series corresponding to the EV (Exposure Value) steps.

New Automations:

- Automatic File Save with or without cropping edits
- Automatic File Save in maximum resolution
- Automatic Grain Engine reset capabilities
- File Save extensions added to the file name in batch-processing can now be optionally deactivated
- Information dialogues display on/off
- Automatic Denoise Optimisation on/off

New RAW-Formats:

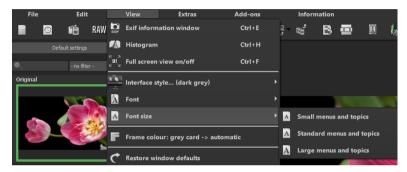
- Apple iPhone 8(*), iPhone 8 plus, iPhone X
- BlackMagic URSA Mini 4k, URSA Mini 4.6k, URSA Mini Pro 4.6k
- Canon PowerShot A410, A480, A540, D10, ELPH 130 IS, ELPH 160 IS, SD750, SX100 IS,SX130 IS, SX160 IS, SX510 HS, SX10 IS, IXUS 900Ti, PowerShot G1 X Mark III, G9 X Mark II, EOS 6D Mark II, EOS 77D, EOS 200D, EOS 800D, EOS 2000D, EOS 4000D, EOS M6, EOS M100
- Casio FX-ZR4100/5100
- DJI Phantom4 Pro/Pro+, Zenmuse X5, Zenmuse X5R
- Eyedeas E1
- FujiFilm S6500fd, GFX 50S, GFX 50R, XF10, X100f, X-A3, X-A5, X-A10, X-A20, X-E3, X-H1, X-T3, X-T20, X-T100, DBP680

- ➤ GITUP GIT2P, G3 DUO (16:9 only)
- > Hasselblad H6D-100c, A6D-100c
- Huawei P9 (EVA-L09/AL00), Honor6a, Honor9, Mate10 (BLA-L29)
- Kodak PIXPRO, AZ901
- Leica CL, M10, M10-D, M-10P, TL2
- LG V20 (F800K), VS995
- Nikon D850, D3500, D5600, D7500, Coolpix B700, Z6, Z7, P1000
- Olympus E-PL9, E-M10 Mark III, TG-5
- > OnePlus One, A3303, A5000
- Panasonic DMC-FZ45, DMC-FZ72, DC-FZ80/82, DC-G9 (std. res mode only), DC-GF10/GF90, DC-GH5, DC-GX9, DC-GX800/850/GF9, DMC-LX1, DC-ZS70 (DC-TZ90/91/92, DC-T93), DC-TZ100/101/ZS100, DC-TZ200/ZS200, LX100M2
- PARROT Bebop 2, Bebop Drone
- Pentax KP. K1- II
- PhaseOne KP, K1-II
- Samsung Galaxy Nexus, Galaxy S3, S6 (SM-G920F), S7, S7 Edge, S8 (SM-G950U)
- Sony A7R III, A7 III, A9, DSC-RX0, DSC-RX10IV, HX95, HX99, RX100-VA, RX-100VI
- ➤ Yi M1
- > YUNEEC CGO3, CGO3P
- Xiaoyi YIAC3 (YI 4k)

3. Configuring the User Interface

Optional font size for menus and titles

In the main menu of the program you will find in $View \rightarrow Font$ size an option to customise the size of the letters in the menu as well as in the titles of the programm.

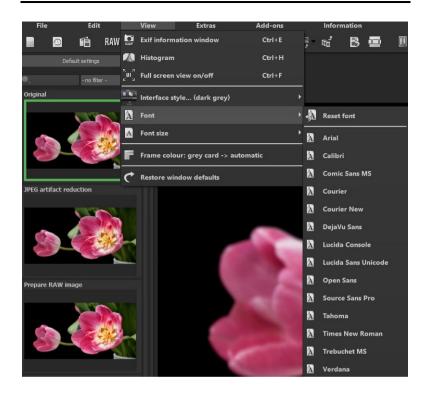


The font size can be adjusted to the run time of the program.

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

Select a font

SHARPEN projects 3 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.

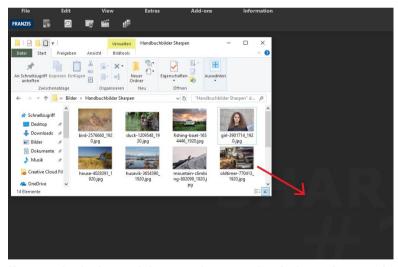


If you want to change the font back to standard select View → Font → reset font.

4. Photos Done Quickly

You can obtain a finished image in just 5 clicks **SHARPEN projects 3** professional:

- 1. Load Images
- 2. HDR Preparation
- 3. Post-Processing → Preset Selection
- 4. Click on "Set automatically"
- 5. Select Image Segment and Save, that's it!



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

This way you can reach your goal quickly - but you can also go the creative way with individual image adjustments or selective drawing: **SHARPEN projects 3 professional** offers both variants.

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):

Image data browser
History viewer
Upload image
Open project
Batch processing

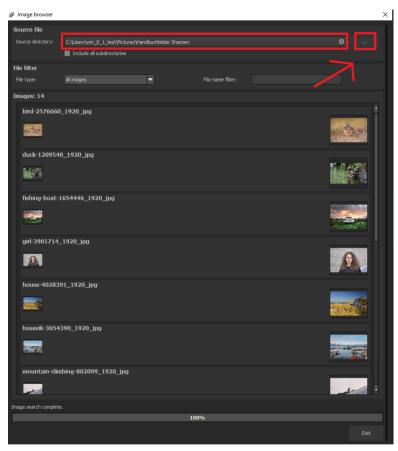
Optionally, image data may can also simply be "dropped" onto the screen by Drag & Drop. The image data is then uploaded automatically.

> Ímage data 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.



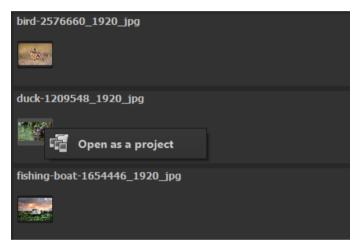
SHARPEN projects 3 professional starts immediately with the calculation, fitting automatically the right images together as well as showing a preview image. If you go across the image with the mouse, the image will automatically enlarge itself.

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".



SHARPEN projects 3 professional uploads the images of the desired row and just like the simple Drag &Drop of the images on the desktop we start now with Post-Processing.

5. The Work Area

As soon as an image file was uploaded into the program, the work area will open.

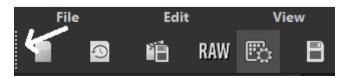


This area is divided into four main sections:

- A) Menu and toolbar (top)
- B) Presets: image suggestions for the photo (left)
- C) Image area (centre)
- D) Denoising and export mode (right)

The areas A), B) und D) can be taken out of the interface and attached to a different area or dropped into a different display.

In area a) simply click on the dotted line on the very left of the bar, then hold down the mouse button to pull.



The areas B) und D) can be dragged away from the above areas via clicking and holding down the mouse button.



To reset the work area to its original state, choose in the menu **view** and then **reset screen**.

6. Menu bar

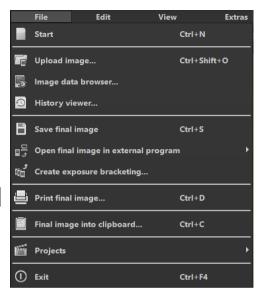
6.1 File

File \rightarrow Start

When you are finished with the editing of an image or you want to close the current image, simply click on **Start** (or **Ctrg + N**) to close.

File → Upload Image

To open an image click on upload image (or Ctrg + Shift + O) to find the edited images.



File → Image Data Browser

Here you can display all of the images in a folder. With one click on the switch "include all subdirectories", you activate the recursive search for all the image data in the specified source folder.

File → History Viewer

Click here to receive an overview of your projects so that you can choose between them. If you want to open an image, just double click on it.

File \rightarrow Save Final Image

When you are happy with the image and you want to save it, simply click on **save** final image (or Ctrg + S).

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File → Open Final Image in External Program ■

If you want to edit the current image in a different image editing program, you will not have to leave **SHARPEN projects 3 professional**. Simply click on open final image in external program.

File \rightarrow Create Exposure Bracketing

If you want to have differently exposed photos to create for example a HDR image, you can easily create a bracketing series with **SHARPEN projects 3 professional**. You can choose between two modes: "Gamma Correction" (normal) and "Exposure Value" (EV value).

File \rightarrow Print Final Image

Click here if you want to print the current image. The image will be automatically centralised and the print medium scaled to size.

File \rightarrow Final Image into Clipboard

The current image will be copied into the clipboard. You can add the image to other programs as well.

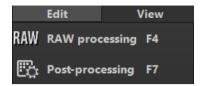
 $\mathsf{File} \to \mathsf{Projects} \stackrel{\text{\tiny \projects}}{=}$

If you have already started a project **SHARPEN projects 3 professional** and you want to continue to work on the project, open this file by clicking on projects...

File \rightarrow Exit \bigcirc

Click on exit (or Ctrg + F4) to close SHARPEN projects 3 professional.

6.2 Edit



Edit → RAW Processing RAW

If you want to edit a photo without any complications, click on **RAW development** to change for example colours or to distort the image (see 16. RAW processing).

Edit \rightarrow Post-Processing

As soon as you have edited an image or removed the noise, you will find yourself in the post-processing mode.

6.3 View

View → EXIF Information Window

Shows you (if available) all EXIF information of an image file e.g. place, camera type, exposure time and time.

View \rightarrow Histogram

The histogram shows you compactly the **information of exposure distribution** in a photograph. That way you can quickly identify if a photo is over- or underexposed.

View → Full Screen View On/Off

If you feel like you are being distracted by the task bar, you can simply click on **full** screen view on/off to switch into full screen.



You can change the colour scheme of **SHARPEN projects 3 professional** by clicking on **Inteface-Style**. The currently used colour scheme will be displayed in brackets.

View → Font

Choose your individual font from all compatible and loaded fonts. SHARPEN projects 3 professional now displays the entire interface in the font you have selected.

View
$$\rightarrow$$
 Font Size

You can change the size of the font between small, standard and large.

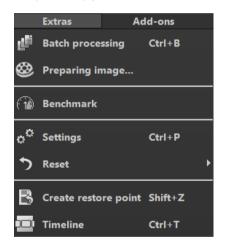
View \rightarrow Frame Colour: Grey Card \rightarrow automatic \blacksquare

When you click on **frame colour: grey card** \rightarrow **automatic**, the program will take the average frame colour of your image and will use it as your frame.

View → Restore Window Defaults

Resets the current window back to its original size.

6.4 Extras



Extras \rightarrow Batch Processing (Ctrl + B)

The batch processing of **SHARPEN projects 3 professional** allows the automatic processing of multiple images.

Here you can determine in which folder projects, exposure bracketing/ photo series, final images and default settings will be saved.

Extras → Benchmark ⁽³⁾

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 \rightarrow Settings (Ctrl + P)

Here you will find the various configuration options adaptable to your unique preferences offered in **SHARPEN projects 3 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: Language

Here you can change the **SHARPEN projects 3 professional** program language to either German, English or French

Program: Accelerate GPU

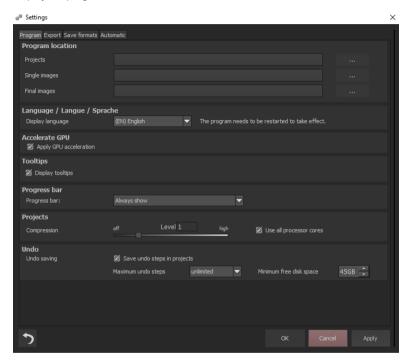
Here you can choose to either activate or deactivate graphic card computing speed acceleration.

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 of effects in **SHARPEN projects 3 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.

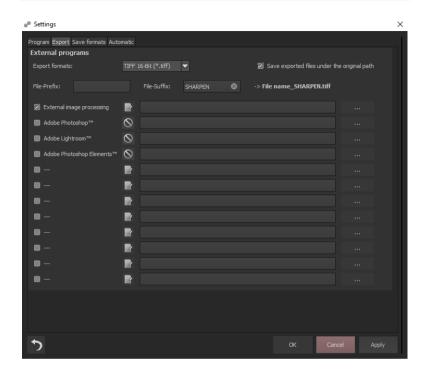
Export

Externe Programme

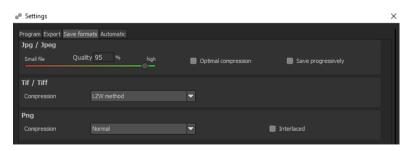
Here you can choose in which format **SHARPEN projects 3 professional** will export images to external programs. You can specify as well which programs should be used for external image editing.

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

NEW: You can now store up to twelve external programs and configure their names.



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.

Pnq

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

Automatic

Automatic: Sharpness Settings

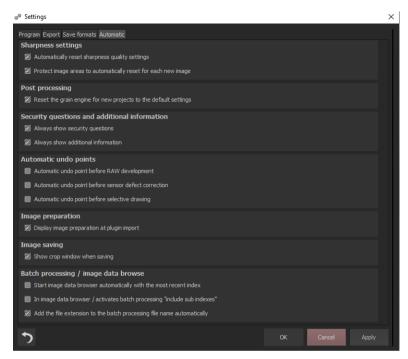
Here you can activate or deactivate the automatic reset of the quality settings for sharpening, such as HD colour protection, a Pro mode or also the Sharpness colour dominance. You can also set Auto Reset to protect image areas when loading a new image. If you want to use image area protection in batch processing, disable this setting.

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 the program and then deactivate this option.

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: Batch Processing / Image Date browse

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.

Extras → Reset 5

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.

Extras \rightarrow Timeline (Ctrl + T)

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

6.5 Addons

Add-ons → Import Add-on

Add-ons Information

With the help of Add-ons, you can now not only

import Presets into **SHARPEN projects 3 professional** but also integrate new Post Processing Modules that gives your Presets with an entirely new look.

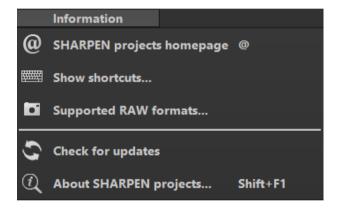
Add-ons → Remove Add-on

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

6.6 Information



Information \rightarrow SHARPEN projects – Homepage

Click here to navigate to the in SHARPEN projects 3 professional homepage.

Information → Show Shortcuts...

Here you will find all keyboard shortcuts available in **SHARPEN projects 3 professional.** Information → Supported RAW Formats ...

A list of all cameras whose RAW Files are able to be opened in in **SHARPEN** projects 3 professional.

Information → Check For Updates ...

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

Information → About SHARPEN projects (Shift + F1)



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

7. Toolbar

This area of the tool bar divides itself into two separate areas. The left tool bar shows the different control functions of the program while the right shows the image view functions.



The functions (from left to right) of this toolbar are:

- Startpage
- History viewer
- Save project
- RAW processing
- Post-processing
- Save final image
- Print final image
- Transfers the current image to the selected application of the product family
- Open final image in external program
- Create exposure bracketing
- B Create restore point
- Timeline
- Compare View
- **M** Histogram



The functions of this toolbar (from left to right) are:

Real-time calculation mode

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":

- Recalculate image
- 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 orange and purple tones.

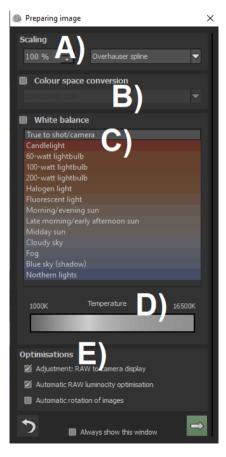
If you would want to brighten this image, you have to be careful of the orange border pixels: Light surfaces on the car and the walls should not become too white, in order to avoid losing detail. In technical terms, these patches are called "burned highlights". The border pixel view helps to find these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

- Original resolution view
- Zoom to monitor size
- Additional functions:
- Crop image data
- Horizontal mirroring of the images
- Vertical mirroring of the images
- Rotate the image 90 degrees anti-clockwise

Rotate the image 90 degrees clockwise

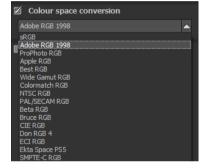
8. Image Preparation

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.



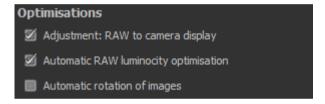
- A) Scaling: When bracketed series are uploaded, the images can be scaled from 25% up to 900% using any one of 6 different available Scaling Processes.
- B) Colour space conversion: Advanced users can choose a colour space here for all other users, it is recommended to not make any adjustments in order to avoid incorrect colour render-

ing later. SHARPEN projects 3 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: 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.



9. Post-Processing

As in the previous version, we start post-processing directly after loading the images. Here we select a preset on the left side and edit the result

Original JPEG artifact reduction Prepare RAW image **RAW brilliancy**

user interface. 9.1 Presets

Left side of the post-processing screen:

with the functions on the right side of the

Here you can choose between 26 different presets.

At the beginning the preset "Original" is selected. By clicking on the thumbnails, the effects are calculated in real time and displayed in the center of the screen.



Image with "Sport photography" preset

All 26 **SHARPEN projects 3 professional** presets at a single glance. The bar "default settings" you can detach easily and adjust to the desired size.

9.2 Magnifiying Glass and Comparison View



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 new 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..

9.3 Point of Interest

Activated "Point of Interest" renders current edits 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.



9.4 Adjust Sharpness

The image sharpness sharpness area on the right side of the screen is divided into the following categories:



Original image
Custom settings
Original image
Image sharpness - increase slightly
Image sharpness - increase
Image sharpness - increase strongly
Image sharpness - increase greatly
Image sharpness - colour-optimised
Haze - reduce slightly
Haze - reduce significantly
Haze - reduce greatly
Haze - reduce intensively
Blurring - slight correction
Blurring - medium correction
Blurring - distinct correction
Blurring - intensive correction
Blurring - strong correction
Blurring - maximum correction
Portrait - slight sharpness
Portrait - medium sharpness
Portrait - distinct sharpness
Portrait - high sharpness
Portrait - soft look
Portrait - monochrome
Landscape - low sharpness
Landscape - fine sharpness
Landscape - distinct sharpness
Landscape - high sharpness
Landscape - soft look
Landscape - colourful
Landscape - twilight hour
Landscape - HDR look
Artwork - high image depth
Artwork - glowing
Artwork - colourful
Artwork - soft
Artwork - bleaching
Artwork - night shot
Artwork - detailed
Artwork - dramatic
Artwork - slight haze & deblurring
Artwork - distinct haze & deblurring
Artwork - strong haze & deblurring
Artwork - intensive haze & deblurring
Artwork - slight sharpness
Artwork - strong sharpness
Artwork - soft monochrome

> All Presets

Select the "All Presets" category to display all of the available presets in the below drop-down menu, and to select a fitting option. Click "Set automatically" to automatically select the optimal preset.

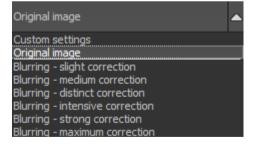


Before and after comparison following automatic processing with the "All Presets" category

> Blurring

Select this category if your original image is blurry. The drop down list contains a variety of sub-categories to specifically adjust the shake

corrector. Click "Set automatically" to automatically select the optimal shake preset.





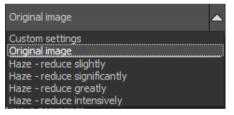


Before and after comparison following automatic processing with the "Blurring" category.

> Haze & Fog

If haze and fog interfere in your original image this function is the right choice. The drop down list contains a variety of sub-categories to specifi-

cally set the haze or fog reduction. Click "Set automatically" to automatically select the optimal haze/ fog preset.







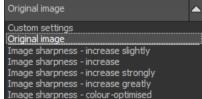
Before and after comparison following automatic processing with the "Haze & Fog" category

> General image sharpness



If you aren't faced with a specific problem like haze & fog or shake, you can adjust the general image sharpness, the "General Image Sharpness" option is the way to go.

Use the options found in the drop down menu to choose the criteria for how, and to what degree of intensity, the image should be sharpened. Click "Set automatical-



ly" to automatically select the optimal overall sharpness preset.



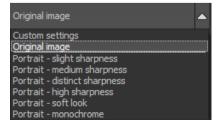


Before and after comparison following automatic processing with the "General Image Sharpness" category

Portrait 👤

If you are working with a portrait needing a bit of sharpening, select this category. Further sharpness presets can be found in the drop down

menu. Here you can choose the sharpness intensity. There is a "soft look", for blurring effects and a black & white effect. Click "Set automatically" to automatically select the optimal portrait preset.







Before and after comparison following automatic processing with the "Portrait" category

> Landschaft

Select this catrgory if your photo is a landscape requiring sharpening. Select the intensity of the sharpening in the drop down menu. Additional there is also a "soft look" for blurring effects like in the category portrait. Additional effects like an HDR look



are also available. Click "Set automatically" to automatically select the optimal landscape preset.

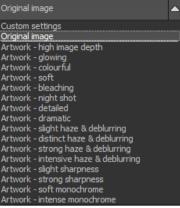




Before and after comparison following automatic processing with the "Landscape" category

> Artwork

The "Artwork" category offers various sharpness, blur and editing effects. If your image doesn't fit any other category, this is your jackpot! Give different settings from the drop down menu a try.





Before and after comparison following automatic processing with the "Artwork" category.

Automatic Processing:

The "Set automatically" button automatically modifies the currently loaded image.



The automatic processing analyses the existing image material and looks for suitable presets based on the selected category.

The photo will be processed immediately and the automatically adjusted result will be instantly displayed.



Automatic sharpness before and after comparison

We recommend to always use the automatic first, and then to modify the sharpness settings (see 9.2) as well as the photographic settings (see 9.5) as desired.

Sharpness Colour dominance:

The sharpness colour space is a special feature of SHARPEN projects **3 professional**. It is used to specialise the image sharpening processes in a selectable colour space.



 The front camera symbol is used to adjust the algorithms to the average colour of the motif.

- With the eye symbol, settings are used which correspond most closely to the colour perception of the human eye.
- The following eight coloured buttons ensure that the sharpness procedures treat the selected hue with increased accuracy and thus produce a finer image sharpness.

Oversampling:

The oversampling level defines the number of calculation steps in which image sharpness is calculated. The more steps you select, the finer and

more precise the generated image sharpness.

Oversampling
s.
Single Double

Note: The calculation

time increases accordingly with the number of steps.

Protect image areas:

In the drop-down menu, you can select one of 16 different presets to protect certain areas of the image when calculating sharpness. The presets are divided into "skin tones", "sky blue", "smooth areas", "details", "shadows", "mid-tones" and "lights".

Example: For example, if the blue sky is grained by sharpening the image, simply select "Protect sky blue" to prevent sharpening of the blue sky areas.





The eye symbol next to the drop-down menu shows you the masking in the image. Light areas are sharpened more than dark ones.



With the slider "Smoothing" you can adjust how smooth the masking of the image sharpness will be. The symbols below determine the effect of the masking:





Masking only affects the sharpness settings. The photographic settings affect the entire image.



Masking affects both the sharpness settings and the photographic settings.



Masking only affects the photographic settings. Sharpness settings affect the entire image.

Click on the arrow symbol to reset the mask area.

Reduce blurring:

You can choose between four different modes. The **balanced mode** is a compromise



between calculation time and the quality of the blur reduction and therefore offers good and fast results. The **Pro mode** increases the quality and requires three to four times more calculation time than the balanced mode. The **Pro+ mode** increases the quality substantially and requires about ten times longer in calculation time than the balanced mode. The **Pro Infinity mode** increases the quality of the blur reduction to the maximum possible and can require significant calculation time.

Use the correction slider to select the amount of shake correction.



Use the second slider to select the radius of the shake. A high value corrects large-surface camera shake, but also requires additional calculation time.



The higher you set the quality the more detailed blurs will be corrected and the more calculation time will be required.



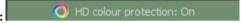
The fineness indicates whether the shake correction should focus more on the large or the fine areas. The higher you set this value, the finer the correction will be and the longer the calculation will take.



Camera shake correction increases image noise. The amplified noise can be counteracted with this control.



HD colour protection:



If you have objects in your image that are particularly different in colour from others, you can activate the HD colour protection and thus ensure that the colour and the colour edges are calculated specifically and produce a much better result image.

HD colour protection is an extension of the camera shake correction process. Particular importance is attached to the exact preservation of the colours in the image. This function requires additional calculation time.

Example:



The colour drawing at the edge of the sign has become more realistic.

Blurring comparison view:

With the Point of Spread Function (PSF) comparison view, you can compare the distribution of blur of a single pixel in your original image and your sharpened result image. The larger the bright area in the left image, i.e. "before", the more blur was found in the image. Conversely, the smaller the area in the right image, i.e. "after", the better the blur correction worked. In the best case an almost single bright pixel should be visible in the middle of the display.



Example: On the left side you can see a distribution from the bottom left to the top right around the central point. This means that there is a blurriness in the direction of the top right. This could have possibly resulted for example from a camera shake in the top right direction.

With the slider "Brightness/Contours" you can switch between the brightness mode and the contour mode as basis for the calculation of the blur distribution.

The info icon next to it starts the contour analysis of your image and sets the brightness mode or the contour mode for the blur reduction depending on the result. You can change this setting later if you do not like the result of the automatic setting.

If you click on Blurring comparison view, a new window opens in which you can directly compare the before and after sharpness. In the toolbar at the top, you can select different view modes to display the sharpness.



Displays the original image on the left and the processed image on the right.



Displays the processed image on the left and the original image on the right.



Displays the same image section for the original image on the left and the processed image on the right respectively.



Displays the same image section for the processed image on the left and the original image on the right respectively.



Activates/ deactivates the preview. Click on the preview to shift the main view to the clicked section.



Activates/ deactivates zoom view on the mouse cursor.



Puts the zoomed view in centered mode.



Puts the zoomed view in non-centered mode.

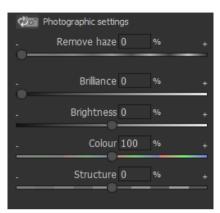
Photographic settings:

The photographic settings allow you to make additional image adjustments in the following areas:

Haze and fog: Reduces the haze and fog in an image. The further right you move the control, the higher reduction in haze/fog.

Note: If you are working with Jpeg images, artefacts will be created that are already contained in the Jpeg file.

- Brilliance: The motive brilliance strengthens the depth effect in an image.
- Brightness: Change the brightness of an image to fit your wishes.



- Colour: Control the colour strength from a little bit of colour (control left) to a lot of colour (control right).
- Structure: Change the design of the structure in the image. To smoothen the structure, move the control to the left, to strengthen the structure move the control to the right.

If you have an image with a lot of mist or fog, these settings can be taken over by the automatic in the category mist & fog.

In the following image the meadow with the flowers is hardly distinguishable and even the colour is almost hidden completely away by the mist. After the editing in the photographic settings, this meadow is far easier to see and the colours come out better as well.

Note: If you are not satisfied with the automatic setting, you can adjust the controls until you are satisfied with the result.



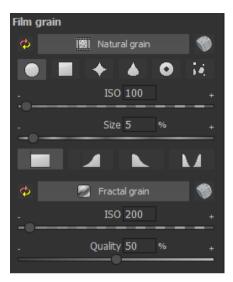
Before and after comparison of the automatic haze & fog corrector

10. Granulation

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

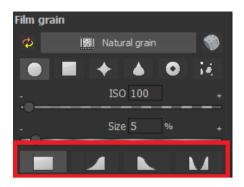
The preset value conforms to the average "restless value" on a naturally grey surface.

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.





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 largescale 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

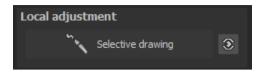
Determines the accuracy of the calculation (number of iterations for the fractal algorithm) of the fractal granulation.

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.

11. Local Adjustments and Selective Drawing

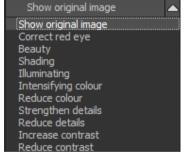


The highlight tool from **SHARPEN projects 3 professional** deserves very special attention. Firstly, this tool selectively edits chosen areas without complicated masks done by hand, like other photo editing programs. **SHARPEN projects 3 professional** includes a completely newly developed intelligent 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",

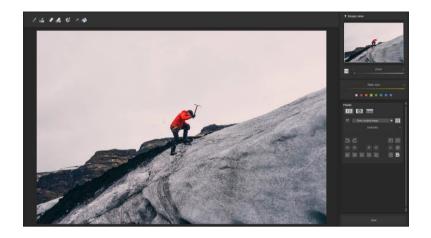
"Beauty", "Shading", "Illuminating", "Intensifying Colour", "Reduce Colour", "Strengthen Details", "Reduce Details" and "Increase contrast",...

These masks can even be saved as a separate image file and used in other image processing programs.

How it all works is probably easiest to



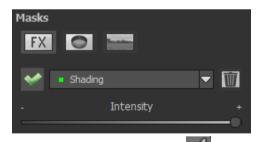
explain with an example. Open the selective drawing window (post-processing, finalise - bottom right). Our example is a single RAW file of a mountaineer. The picture's colour details are already well edited. Now we want to make the rock a little darker without darkening the rest of the picture.



Quickly finalise your image with Selective Drawing

1. Select editing objective

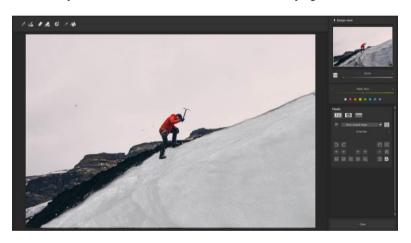
For this case, select "Shading". Make sure that the selected mask function is activated and the green checkmark is showing.



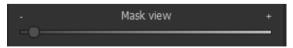
- 2. Activate drawing mode
- 3. Activate filling mode

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. Attention! 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.



You will now see only the effect, that is darker rocks - our objective was "Shading". 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 darker while the rest of the image remains untouched.

8. Click on "Close". You will be returned to post-processing and the selective change will be applied.



On the right you can clearly see the darker rocks after the selective correction. The rest has the same tonal 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.

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

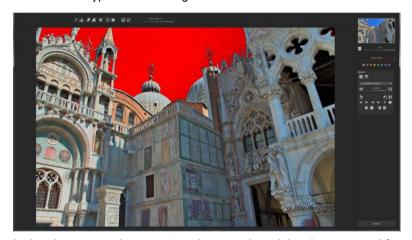
Masks can also be created from a colour or brightness.



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.



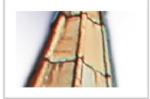
To draw an area even softer, just go over the same area with the smoothing brush several times.

- 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

1. Increasing the entire mask outline





becomes

2. 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.

- Multiple Undo and Redo for Brush Functions

Click once or several times on the left arrow to go back one or several brush strokes or on the right arrow to jump forward one or several brush strokes

Reset the Function of a Mask

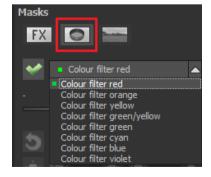
Every mask can without any influence on the other masks be reset to its original state. You simply click on the waste paper button (1).



After clicking on the button a security query will follow, so that no important work can be lost by accident.

- Colour Filter in Selective Drawing

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



- Adaptation of automatic masks in the "Distortion correction" 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".



Beauty:

This is how you smooth the skin of people in three easy steps.

Step 1:

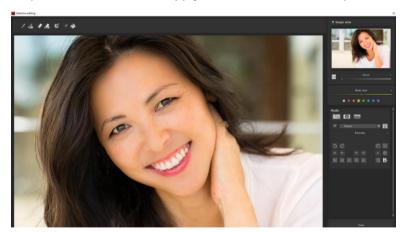
Choose the mask "beauty" in selective drawing mode.



Step 2: Choose through repeated clicking the area that should be edited. Don't worry the yellow colour marking will disappear later and only serves as visualising the process.



Step 3: Click on "close" to apply the chosen mask on the photo.



Correct red eye:

This is how you remove red eyes in three easy steps.

Step 1:

Choose the mask "correct red eyes" in selective drawing mode.



Step 2: Choose the red pupils with the paintbrush.



Step 3: Click on "close" to apply the chosen mask on the photo.



12. 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.

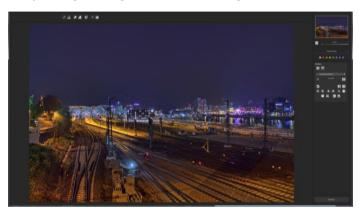
Zoom: Choose the size of that image level by zooming in or out

Shifting horizontally: Move the image level to the left or right

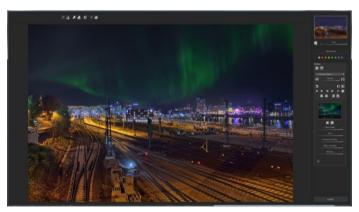
Shifting vertically: Move the image of that level up or down.

Exposure: Since it can often happen that the exposure of your current image does not match the exposure of any layer image, you can easily adjust the exposure of the layer image here and darken or brighten it as desired.

NEW: Using the **Contrast** and **Colour** sliders, you can further adjust your compounding image next to the exposure, so that it blends in even better with your original image and the overall image looks even more realistic.



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



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

13. Removal of Scratch and Sensor Errors



Micro-contrast enhancement used in 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 **SHARP-EN projects 3 professional**, it can even be fun.

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

Lightly mark defects in your motif – the program will automatically substitute these areas with other appropriate parts of the image.



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.

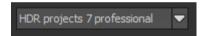
14. Workflow

Edit final image further in an external program

SHARPEN projects 3 professional offers interaction with external programs. This way you can take a successful 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 drop-down menu beside the symbol to choose one of the programs that you already have installed on your computer.

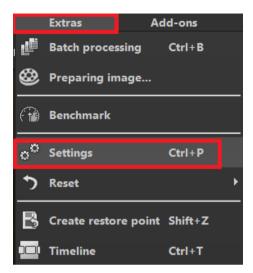


Open in other photo-editing programs

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:





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.

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.

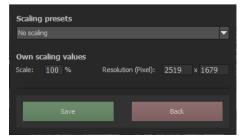
The size of the text will be automatically coordinated to the final cropping.

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

Please note: If you choose the cropping ratio 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.

16. 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.

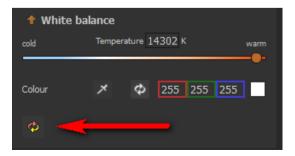


In this RAW mode changes that are made will be trans-

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

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: Here you again influence the shadows, highlights, contrast and brightness of the original images. Dynamic Brightness adjusts the brightness individually to the image content. What's new is that you can set an exposure value from -10EV to +10EV and use this value to finetune the exposure by -1EV to +1EV in addition. You can also change the soft contrast in the image. This reverses the brightness differences in the image on a large scale.

Struktur: 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.

A lens curvature is calculated backwards on the selected colour channel. You have the choice between: "Diffraction Green", "Diffraction Blue" and "Diffraction Red".

In these colour settings, it is about luminosity in shadows and lights. Here you can also counteract unloved chromatic aberrations.

The "colour effects" contain the following functions: Pastel colours, bleach bypass and colour angle. Pastel colours tend to be light colours, so amplification will brighten the image a bit. The colour angle rotates the image through the entire colour circle.

Under "Colour Channels" you can change the brightness of the red, green or blue components.



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.

Categorie FX:

This category contains some special effects, like a haze & fog correction, the rescue of highlights, sepia and film grain as well as different brightness gradients.

New effects:

- Reduce stray light
- Polarising filter
- Ageing (Reduce optical age)

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).



17. Batch Processing

SHARPEN projects 3 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.

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.

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

Source file: Here you define where the result images of the batch processing are to be saved. Simply select the corresponding folder using the "Select destination folder (. . .)" button or enter the destination folder directly into the text field.

Results: You can choose from nine formats for the storage format of the result images from batch processing. You can choose between .jpg, .tif and .png. JPG images are always saved uncompressed and lossless in the highest possible quality and TIF files.

Processing settings

In the processing settings, select the default setting for image generation. These are valid for all batch exposure series.

- **Image preparation:** Allows you to change all RAW processing and image orientation settings of the current batch processing.
- **Image sharpness**: Select the default setting for the image sharpness from chapter 9.4.

 Post-Processing: The preset default setting contains all presets from the post processing area.

Note: On a Macintosh computer, this dialog opens before the batch window due to the system.

Click on the arrow at the bottom left to reset the batch processing to the default values.

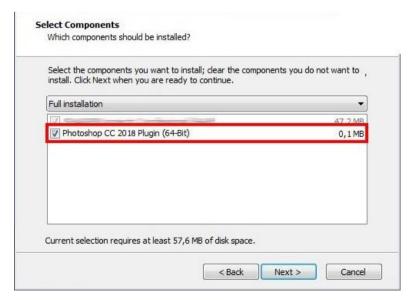
18. Plug-in Installation

SHARPEN projects 3 professional can also be used as a plug-in for Adobe® Photoshop. Newer versions of Photoshop are automatically detected by **SHARPEN projects 3 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 have purchased a download or lost your CD, you can add the Plug-Ins later from www.projects-software.de/plugins.

18.1 Using Photoshop Plug-ins - Windows

The following window will appear when installing **SHARPEN projects 3** professional:



Select the version of Photoshop where you would like to install the **SHARPEN projects 3 professional** plug-in. Click on "next" and follow the instructions from the installation assistant. The plug-ins will then be automatically installed.

Tip: With older window systems it can happen that the Plug-ins won't be installed automatically. In this case just copy the desired Plug-In into the right folder of your current Photoshop version (as shown in the photo found in the "Plug-ins" folder"). If you have an older version of Photoshop, copy the smallest plug-in.

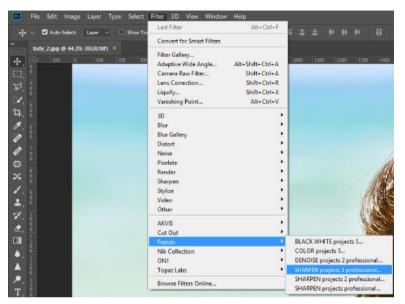
Example: Users of Photoshop CS6 copy the Plug-In for Photoshop CS6 and not for example Photoshop CC 2014. In this case CC 2017. The relevant Plug-in is on the CD in "Plugins".

The folder you will find under C:\Programme\Adobe\Adobe Photoshop CC 2017\Plug-ins



You can also carry out the installations of the Plug-ins at a later point in time. Please install Photoshop first then the projects-Plug-ins! After the installation of the Plug-ins please open Photoshop once more.

In Photoshop you will find under the menu point "Filter" the entry Franzis. Here all of the Plug-ins of the projects-series are listed.



Click on **SHARPEN projects 3 professional**. The opened and edited image in Photoshop will now be opened in **SHARPEN projects 3 professional**.

Now the program is in the Photoshop Filter-Plug-in mode. You can as usual edit the image in **SHARPEN projects 3 professional**. Subsequently you can send the finished image over the control "**Apply**" back into the Photoshop-level.



With the control "cancel" you close the Filter-Plug-in without sending the changes in the image back to the Photoshop level. The editing done in **SHARPEN projects 3 professional** will be discarded.

The projects program will then automatically close, a mechanism that is made mandatory by Adobe Photoshop.

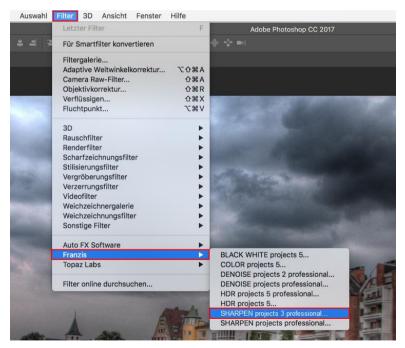
18.2 Using Photoshop Plug-ins - MAC OS X

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 plugins.

Next, drag & drop the unpacked plug-in **SHARPENprojects3ProfessionalFilter_PH6.plugin** (PH7 in other photoshop versions) to the plug-in folder for your version of Photoshop, which is normally labeled as "plug-ins".



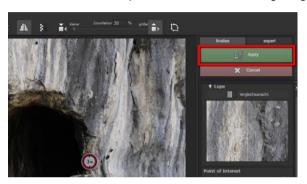
Start up your version of Photoshop, load an image and navigate to "Menu \rightarrow Filter \rightarrow Franzis \rightarrow SHARPEN projects 3 professional "



One click will start the plug-in. The image will now be opened in **SHARP-EN projects 3 professional**.

Now the program is in Photoshop Filter-Plug-in mode. You can edit the image as usual in **SHARPEN projects 3 professional**.

Subsequently you can send the finished image over the control "apply" back into the Photoshop level, from where the image originally came.



With the control "cancel" you close the Filter-Plug-in without sending the changes in the image back to the Photoshop level. The editing done in **SHARPEN projects 3 professional** will be discarded.

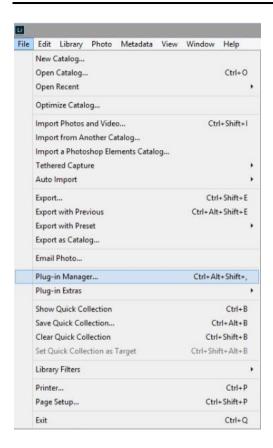
The projects program will then automatically close, a mechanism that is made mandatory by Adobe Photoshop.

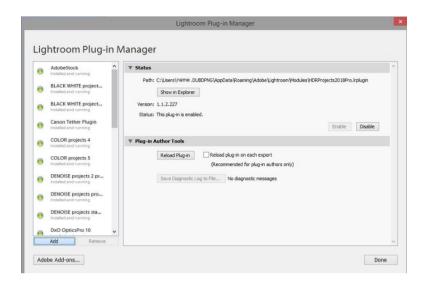
18.3 Using Adobe Lightroom Plug-ins - Windows

Start the installation program and verify that the component chosen is "Lightroom Plugin".

If you do not have a CD, download the Plug-in from www.projects-software.de/plugins.

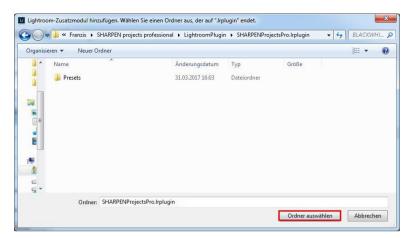
Then open the Lightroom version. Start Lightroom and follow the directions "file → plugin manager" to verify that the Plug-in is activated.





If this should not be the case, then you have the option to click on "add" in the additional module manager to then manually install the Lightroom Plug-in.

To achieve this go to the folder Lightroom Plug-in to find SHARPENProjectsPro.lrplugin.

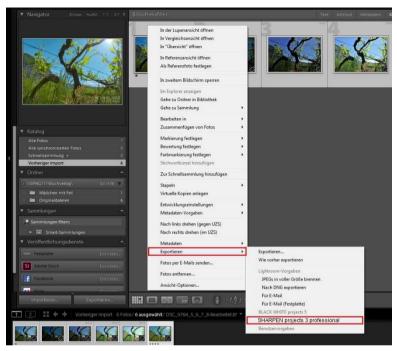


As soon as you find yourself in the folder SHARPENrojectsPro.lrplugin, click on "select folder" to install the Lightroom Plug-in.

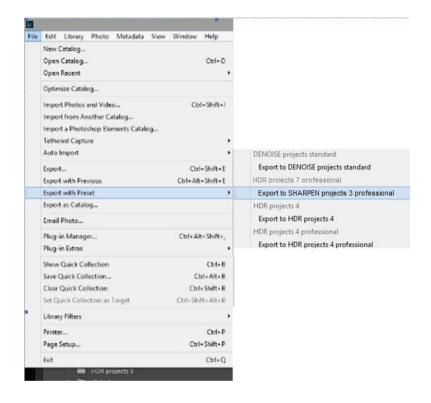
Lightroom: SHARPEN projects 3 professional: Installed and executed.

Highlight the exposure series in your Lightroom library.

Click with the right mouse button directly onto the highlighted images and choose the entry "Export \rightarrow Export to SHARPEN projects 3 professional".



Or: Choose "File \rightarrow with the target export \rightarrow Export to SHARPEN projects 3 professional".



18.4 Using Adobe Lightroom Plug-ins - MAC OS X

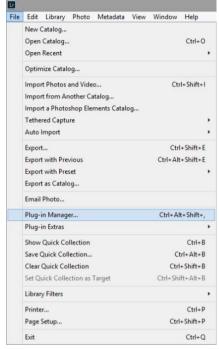
For Adobe Lightroom, the plug-in will not be automatically installed. Continue as follows:

Install **SHARPEN projects 3 professional** to the program link of your Mac.

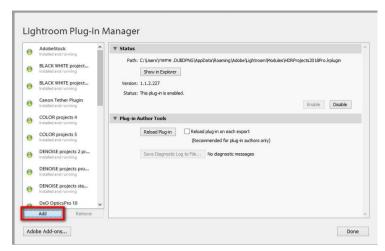
Copy the plug-in .zip file from the "Lightroom Plug-in" folder on your CD-ROM. "Lightroom Plugin". We recommend the folder where also your presets are stored:

"Users/username/ SHARPEN projects 3 professional".

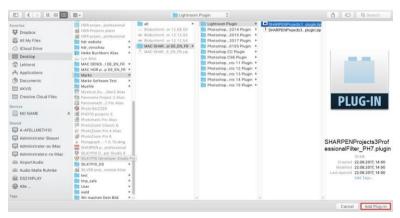
Start Lightroom und navigate to "File → Plug-In Manager".



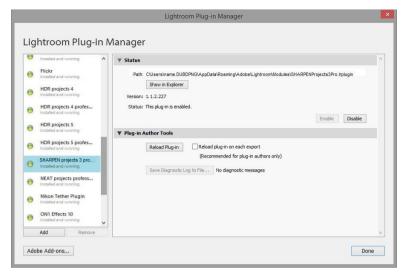
Click the "Add" button in the Lightroom Plug-In Manager.



Navigate to the appropriate Lightroom plug-in for **SHARPEN projects 3 professional** that you just added to your MAC.



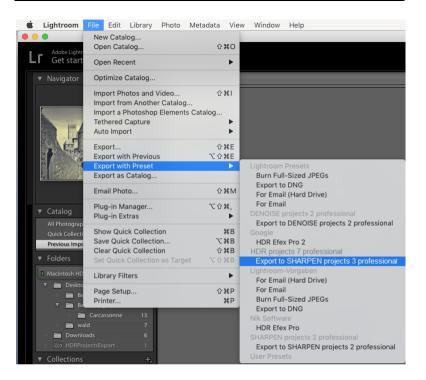
Sometimes it can be necessary to close Lightroom and then to restart. Afterwards, the plug-in will be installed and activated.



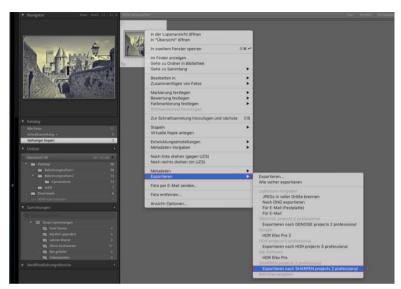
Now the Plug-in should be installed and executed.

There are more ways to export your image from Lightroom to **SHARPEN** projects 3 professional.

"File \rightarrow Export with Preset \rightarrow Export to SHARPEN projects 3 professional".



OR:



Right-click on the image directly in Lightroom and select "Export \rightarrow Export to SHARPEN projects 3 professional".

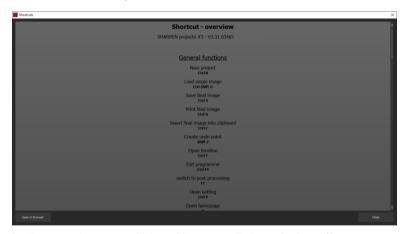
19. Keyboard Shortcuts

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:		
Windows	Apple	
Ctrl N	cmd N	New project
Ctrl Shift O	cmd Shift O	Upload single image
Ctrl S	cmd S	Save result image
Ctrl D	cmd D	Print result image
Shift Z	Shift Z	Create restore point
Ctrl T	cmd T	Open timeline
Ctrl F4	cmd F4	Leave program
F4	F4	Open RAW mode
F7	F7	Show post-processing view
Ctrl P	cmd P	Open settings
Ctrl B	cmd B	Open batch processing
@		Show product homepage
Shift F1	Shift F1	Open about window
Ctrl E	cmd E	Show exif information
Ctrl H	cmd H	Show/ hide histogram
Ctrl F	cmd F	Open/ close full screen

Image Functions:

Windows	Apple	
Ctrl +	cmd +	Zoom in
Ctrl -	cmd -	Zoom out
Ctrl 0	cmd 0	Adjust image to view
Ctrl 1	cmd 0	Zoom to 100%
R	R	Real-time mode on/off
L	L	Lock radar window (lock)

RAW Developing:

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

Progress Browser:

Windows	Apple	
Image upwards	Image upwards	A page back
Image downwards	Image downwards	A page forward
Pos1 key	Pos1 key	To the beginning
End key	End key	To the end
Cursor left	Cursor left	Last entry
Cursor right	Cursor right	Next entry

Selective Drawing:

Windows	Apple	
Ctrl +	Ctrl +	Zoom in
Ctrl -	Ctrl -	Zoom out
Ctrl 0	cmd 0	100% View/ switch adjustments
Α	Α	Activate pencil
Shift A	Shift A	Activate pencil with limit
S	S	Activate rubber
Shift S	Shift S	Activate rubber with limit
W	W	Activate soft focus brush
E	E	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	One step back
M, Shift M	M, Shift M	Mask display on/off

Scratch/ Sensor Spot Removal:

Apple

Windows

Ctrl +	cmd +	Zoom in
Ctrl -	cmd -	Zoom out
Cursor left, Shift Cursor left, Ctrl Cursor left		Shift active correction region left
Cursor right, Shift Cursor right, Ctrl Cursor right		Shift active correction region right
Cursor upwards, Shift Cursor upwards, Ctrl		Shift active correction region up-
Cursor upwards		upwards
Cursor downwards, Shift Cursor downwards		Shift active correction region down-
Ctrl Cursor downwards		wards
Image upwards	Image upwards	Select previous correction region
Image downwards	Image downwards	Select next correction region
С	С	Activate all correction regions
N	N	Set new correction region
Delete key	Delete key	Delete correction region
+	+	Enlarge active correction region

-	Minimize active correction 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 Curser upwards, Ctrl	Shift cropping region upwards
Cursor upwards	
Cursor downwards, Shift Cursor downwards,	Shift cropping region downwards

Ctrl Cursor downwards

20. 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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