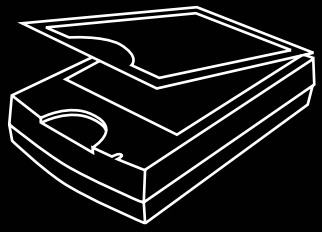
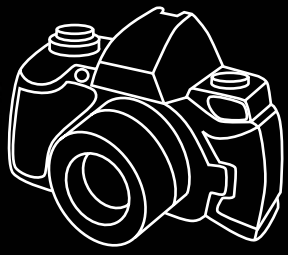
SilverFast®

Innovations & Optional Studio Upgrade

6





48 Bit

LaserSoft Imaging™

English

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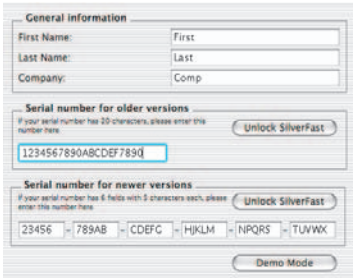
Contents

Activating *SilverFast*



After updating a *SilverFast* version, a new activation mechanism launches.

The previously used 20-digit code is replaced by a 30-digit code, consisting of 6 groups of 5 symbols each. Numbers between 2 and 9, as well as letters between “A” and “Z” may be entered. Please note that no “O”s or “I”s are used.

Welcome dialogue

In the new *SilverFast* versions, a new active “Welcome screen” is displayed after launch.

By means of the available buttons, the user may directly access the respective functions of *SilverFast*, and may also obtain information on current developments, documentation, hints and help. For fully using these functions, an internet connection has to be present.

QuickTime movies and documentation: A link to the webpage containing all movies.

Functions and features: A link to the highlights of *SilverFast* within the *LaserSoft Imaging* website.

Online hints, tricks and advice: A direct link to the *SilverFast* user forum that fits the used *SilverFast* version.

Upgrade information on current version: A small applet is launched which checks for available updates or the currently used version. If so, the respective window of the *LaserSoft Imaging* website is opened. Here the latest software version may be downloaded.

Close dialogue: Closed the window and continues the launch process of *SilverFast*.

The dialog is opened at each start of *SilverFast*. This option can be de-selected by clicking the check box, once *SilverFast* has been activated.

If this dialog is needed again, it may be opened by means of the options menu.:

Main dialog “General” palette / “Options...” / “General” palette by choosing “Open welcome dialog”.

Reminder dialogue

Reminder dialog in SilverFast full versions.

Reminder dialog in SilverFast SE versions.

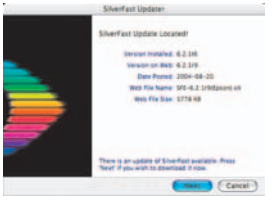
The newer *SilverFast* version all contain a new service which automatically reminds the user of any available updates.
3 months after installing *SilverFast*, this reminder dialog automatically appears when *SilverFast* launches. After this, the reminder will return every 6 months. In order to use this service, an internet connection is needed.

SilverFast SE users may upgrade by means of the second palette to the full version. The user is directed to the ordering page of the *LaserSoft Imaging* website

The field with the red cross launches the “Updater”. Clicking “Next” will make *SilverFast* search for any available updates of *SilverFast* on the *LaserSoft Imaging* website.

If a newer version is found, this will be displayed in the next dialog. By clicking the “Next” button, the download of the latest version is started.

The new version is copied as an installation package on to your desktop.
Please end all running *SilverFast* applications. Uninstall them. Launch the installation of the newest *SilverFast* version from your desktop



What *SilverFast* versions are available?

How do they differ? How powerful are the new features? The following summary shows the differences and studio upgrades of the various *SilverFast* versions:

First, the two hardware dependant versions of *SilverFast*:

SilverFast Ai

The high end scan-software that has been individually adapted to well over 200 different scanners.
Here a number of smaller corrections and enhancements as well as the possibility of optional *Studio Upgrade* are available. The *Studio Upgrade* for *SilverFast Ai* is not available for MacOS9.

SilverFast SE

The functionality of the Special Edition has been slightly reduced as compared to *SilverFastAi*. It has been specially designed to suit the needs of scan novices.

Smaller corrections and adjustments have been made to these versions.

The following describes the hardware independent versions of *SilverFast* for direct imaging. All versions have undergone the following points:

Improved, flexible zoom: The zoom of the scanner independent versions may now be easily performed by keyboard or by mouse.

For example; while using the clone-tool the navigation window allows directly moving the visible part of the image.

Allocating 16-bit output profiles: An improvement of the extended print dialog of the *VLT*. In order to obtain a precise printout, the ICC printer profiles (16bit) can now be allocated.

SilverFast DC Pro Studio

SilverFast DCPro Studio is hardware independent imaging software that is specifically adapted to the needs of professional digital photographers.
Apart from being able to open the standard 24bit image formats, TIFF and JPEG, it can also open 48bit TIFFs of scanners as well as the native RAW formats of almost all camera manufacturers.

SilverFast DCPro Studio and *SilverFast HDR Studio* have an almost functionality.

Apart from the functions of the *Studio Upgrade*, which are already implemented and available, the following functions are also added:

Automatic image import with re-naming function: A new function which allows the direct import of images into the *VLT*. Special tags may be added to the EXIF or IPTC lists.

Furthermore, meta tags within the EXIF and IPTC lists are administered comfortably.

JPEG 2000 support: The support of the JPEG 2000 format, enables *SilverFast's* strongest compression to process such data 3 to 7 times faster than Photoshop. In combination with *SilverFast's HiRePP* function, even 3GB files may be compressed and re-opened very quickly.

It is, however, important to know that Photoshop internally calculates with 15bit, while *SilverFast* uses real 16bit!

SilverFast DC Pro

SilverFast DC Pro now contains the extended Print Dialogue of the VLT, but does not have any new functions of the current *Studio Upgrades*.

SilverFast DC VLT

SilverFast DC VLT can now read the native camera formats of most manufacturers, but can output only 24bit data. The image-text function is disabled in the extended print dialog of the *VLT*.
Feature upgrades are possible.
The *Studio Upgrade* is possible.

SilverFast HDR Studio Pro

SilverFast HDR Studio Pro is currently in development and will become the most complete and most powerful *SilverFast* version available. It is based upon the *DCProStudio* version, contains all new functions of *Studio Upgrade* the *Hot Folder* and the dual HDR multi tasking functions.

SilverFast HDR Studio

SilverFast HDR Studio and *SilverFast DCPro Studio* have almost identical functions.

The *Studio Upgrade* function is already activated here.

SilverFast HDR

SilverFast HDR remains to be the current *HDR* version. The function of *Studio Upgrade* as well as the text function within the extended print dialog of the *VLT* are not included.
Studio Upgrade is possible.

SilverFast Print Pro

SilverFast Print Pro functions are mostly the same as the ones in *SilverFast DCPro*. In addition, they include the text function in the extended print dialog within the *VLTs*.

SilverFast Print Studio

SilverFast Print Studio is mainly equal to *SilverFast DC VLT* and has been upgraded with the text function in the extended print dialog within the *VLT*, as well as some standard features.

Studio Upgrade

How do I obtain a *Studio Upgrade*?

In which *SilverFast* versions are *Studio Upgrades* possible?

The function of *Studio Upgrade* is already activated in all "Studio" versions of *SilverFast*.
Studio Upgrades are available for almost all full versions of *SilverFast*. The *StudioUpgrade for SilverFastAi is not available for MacOS9*. Performing a *Studio Upgrade* for *SilverFast Ai* merely requires an optional serial number. When purchasing *Studio Upgrades* for *SilverFast DC Pro* and *SilverFast HDR*, the user will receive a new serial number and a new Plugin.

Where are the *Studio Upgrades* available from?

Studio Upgrades may be obtained from your Imaging dealer, or directly ordered from *LaserSoft Imaging*.

How can I activate the *Studio Upgrade*?

A special activation code is needed for this function. This 30-digit code is supplied when purchasing the software.

The *Studio Upgrade* functions

Detailed descriptions of all new functions can be found in the overview on the following pages. The following functions are implemented in the *Studio Upgrades*:

Studio Upgrade for *SilverFast Ai*

***SilverFast AACO* (Auto Adaptive Contrast Optimisation):**
SilverFast AACO is an excellent tool for the correction of dark, too much contrast bearing image parts while preserving the details in the highlights.

It operates automatically when selected, but can also be manually manipulated. By this the intensity and the complexity of the shadows that are to be lightened can be adjusted without affecting the highlights of the image.

The clone tool: A powerful 16bit clone tool which extends the already implemented *SRD* function has now been developed. By this, large interferences on the image can be repaired or even completely removed from the image.

Freely scalable USM preview: The USM dialog and its preview windows may now freely be resized and, by this means, enlarged. This can be done by click dragging the lower right corner of the window.

By this, a better control of the image is achieved by allowing a much larger preview of the final sharpening effects.

JPEG2000: The new *SilverFast Studio* versions allow saving images in a “JPEG2000” (*.JPF) format.

This option may only be chosen once the scan process has been started, and if the scan mode is set to “Normal (file)” or “Batch mode (file)” has been selected.

IPTC: As already known from *SilverFast DCPro* and *SilverFast HDR*, IPTC entries can now already be made directly while scanning.

This function is available via the IPTC button, located in the vertical toolbar, left of the preview window.

Extended print dialogue with copy function: This dialogue, which is already know from the *DC*- and *HDR*-versions, may now also be activated in *SilverFast Ai*.

It differs from that of the *VLT* version in that it also has an included copy function for scanner; similar to that of a photocopier. All activated frames in the scan window will be copied to the selected paper format in a 1:1 scale with the exact positions and proportions.

Image-adjustment dialogue with real-time histogram: This dialogue, which is known from the *DC*- and *HDR* versions, has been modified and adopted for *SilverFast Ai Studio*. Here it displays a real-time output histogram on which the effects of all *SilverFast Ai* settings on the final scan are shown.

Extended zoom concept: *SilverFast* now offers three ways of zooming: by clicking on the magnifier, by fixed zoom steps in a context menu and by click-dragging the mouse.

Studio Upgrade for *SilverFast DC Pro, ...HDR*

The StudioUpgrade for *SilverFast DC Pro* and *SilverFast HDR* contains all functions of *SilverFast Ai*. Additionally, the following features are implemented:

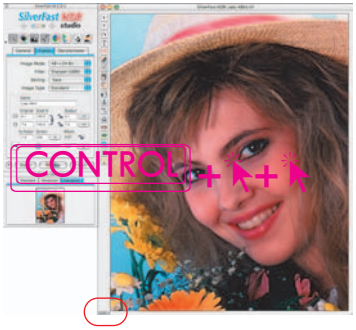
Text function in the extended print dialog of the *VLTs*: For each image, texts from the meta tags of the IPTC or EXIF lists may be selected and added above, beside or next to the image. If the image is moved, the text is too.

Zooming in *SilverFast*

In addition to the previously described zoom functions, the scanner independent *SilverFast* versions, as well as the *SilverFast Ai Studio* version, now contain three extensions of the zoom concept. After opening an image in the large preview window, *SilverFast* now allows to zoom into the prescan without the need of frames.

Zooming by mouse click*

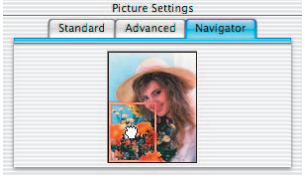
In our example (first illustration on the right) the frame is drawn across the entire preview window.

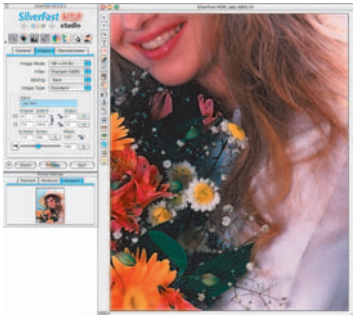


After clicking the magnifier button, initially only a help dialog which describes the new functions is opened.

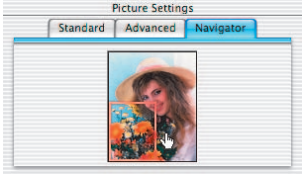
By pressing the “Ctrl” key, the mouse button turn into a “Plus” magnifier. Clicking into the image results in a step-by-step enlargement of the view with each click. In the second example (2nd image left), a double click has been done and the zoom has increased from 55% to 100% in two steps. The value of the current zoom is displayed on the lower left of the preview window. The maximum zoom value is 200%.

Simultaneously, a new palette “Navigator” is added to the “Image Settings” window. The entire image is shown here. The smaller red frame shows the current position of the window on the image.





The current view can be changed by dragging the red frames (3rd illustration left), or by clicking the mouse (4th illustration left). The large preview window changes accordingly.

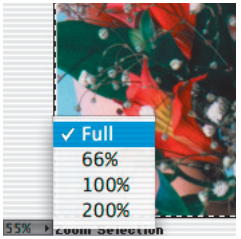


This “Zoom by mouse-click” function is only available in the SilverFastAiStudio versions if the “High resolution Prescan” has previously been set to level 2 or higher, in the “Options / General” settings menu.

A step-by-step back zoom can be done by holding the “Ctrl” and the “Shift” keys while clicking the mouse button.

Keeping the “Ctrl” and the “Alt” keys pressed while clicking the mouse makes the view jump back to the full scale preview. The letter “P” then appears within the mouse cursor magnifier.

Zooming by the zoom-display popup



The value field of the current zoom level also functions as a popup menu.

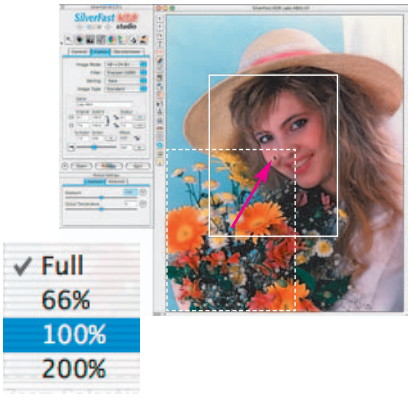
By this, any of the preset zoom levels can be applied.

Re-activation of the full preview can be done by choosing “Full” in this menu.

When switching from a small to a larger zoom value, a white frame is displayed initially.

This frame is moveable by dragging the mouse (do not drag, do not click – just move the cursor).

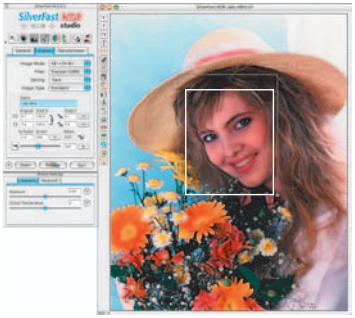
Once the desired part is reached, a click will fix the frame and the contents of this frame are displayed (Illustration below right).

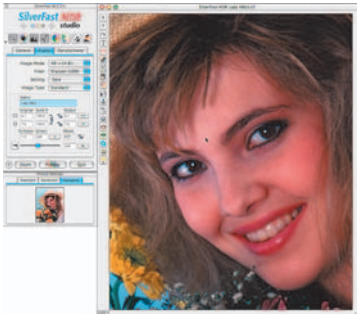


Zooming by click-dragging the mouse

After clicking the magnifier button, a help dialog which explains the new functions appears.

By subsequently click-dragging the mouse in the large preview area, a new frame may be drawn (middle illustration below). The contents of this frame are enlarged when the mouse button is released (Illustration below right).

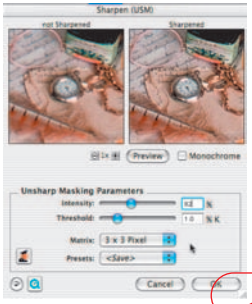




Alternatively, an enlargement frame can be drawn by directly click-dragging the mouse while holding the “Ctrl” key pressed. By this method, the magnifier button does not need to be clicked.

The current zoom level is again displayed in the value fields.

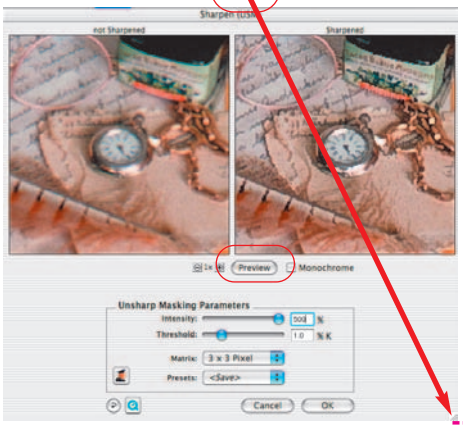
The maximum magnification has been reached if a white area is shown instead of the “Plus” symbol while keeping the “Ctrl” key pressed. No further zoomsare possible at this stage.



USM dialog with scaleable prescan

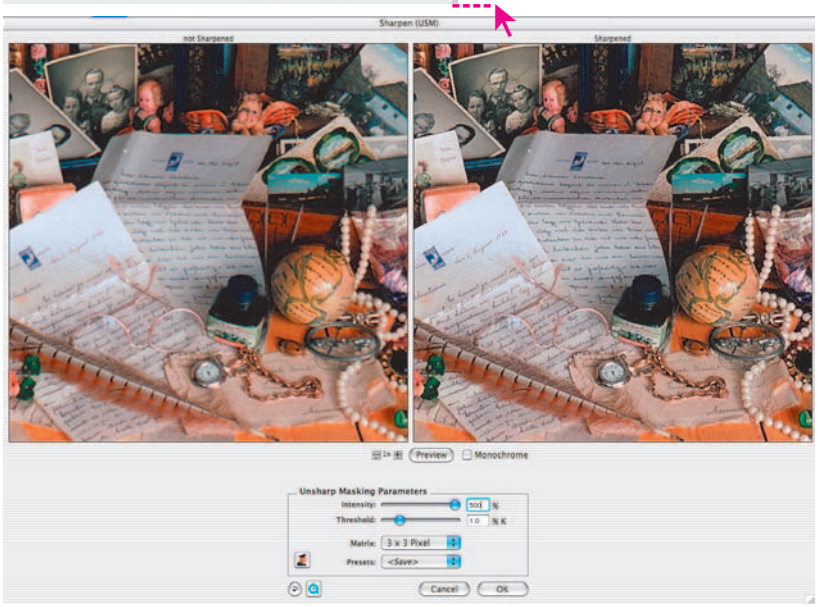
The new versions of *SilverFast* now contain the fully scalable USM-dialogue.. By this means it is possible to obtain a realistic sharpening preview on a larger part of the image.

The size of the dialog box is now resizable by means of a resizing button.

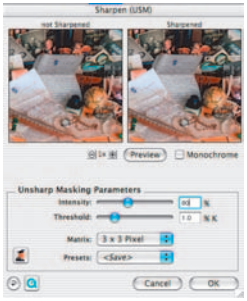


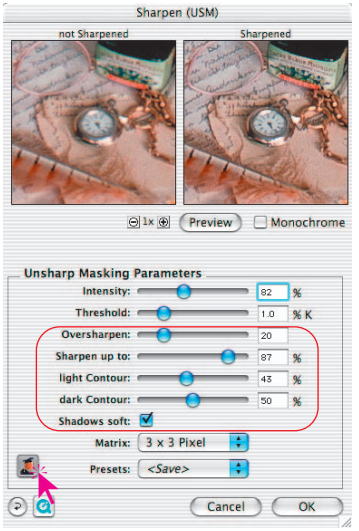
By clicking and dragging the corner button, the USM window can be expanded up to the entire monitor size. Initially, the contents of the prescan window are only enlarged by pixel-enlargement – the same effect as pressing the “+” button.

The real expansion of the visible area is achieved by keeping the “Shift” button pressed while clicking the “Prescan” button (i.e. it functions like an “Update-button”). (Ref. Illustration lower left).



Resizing the window preserves the captured part of the image. (Ref. Illustration lower right).



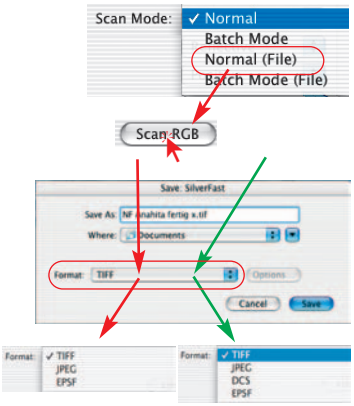


Manual USM in the expert dialogue

Advanced users can use the extensive expert mode in order to set up optimal sharpening parameters.
A click on the small “expert button” in the dialog window will elongate the window and offer additional setting possibilities. An additional click on the “expert button” (which is now red) will bring the dialog window back to its normal size.
One Additional parameter:

- **Over sharpening**: Reduces the generation of disturbing artifacts at the edges. A value of “Zero” suppresses this generation completely, but often delivers a seemingly artificial image. Low values (10 – 20) allow slight artifacts to appear, but the image appears more plastic and more natural.

JPEG 2000



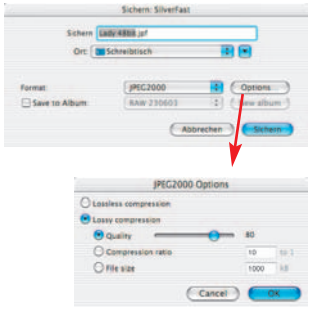
Images may now be saved in the new “JPEG2000” (.JPF) format in all new *SilverFast...Studio* versions.
This option may only be chosen once the scan process has been started, and if the scan mode is set to “Normal (file)” or “Batch mode (file)” has been selected.

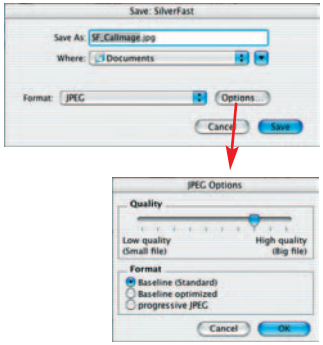
Scan mode “Normal (file)” or “Batch mode (file)”

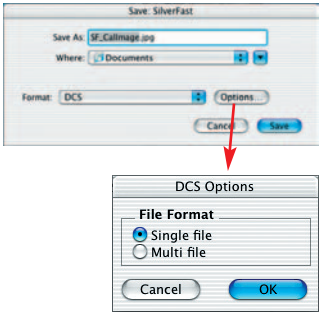
These adjustments advise the software to scan the active frames automatically as a file on to the hard disk.

The setting in the “save” dialog will determine which file format will be written The “save” dialog will appear when the button “scan...“ or “process“ is clicked.

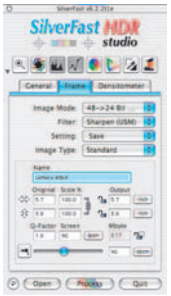
File format: You can choose between various file formats under “Format”. The file formats that are offered will depend on whether the scan / process will be in the RGB (see red arrows, images top left) or in the CMYK colour space (see green arrows, images top left). The existing table will give you an overview.
In the case of some formats, i.e. ”JPEG2000“, “JPEG” and “DCS”, an additional box “Options ...” will become active. Additional parameters for these special file formats can be set up.







SilverFast DC VLT, -DC Pro, -DC Pro Studio



The main functions of *SilverFast DC...* versions are specifically adapted for images that were captured by digital cameras. *SilverFast* is able to read most native manufacturer formats including all RAW data. The table shows an overview of supported file formats:

File format	Channels, data depth (.suffix)	SilverFast Ai	SilverFast SE	SilverFast DCProStudio	SilverFast DCPro	SilverFast DCVLT	SilverFast DC SE	SilverFast HDRStudioPro	SilverFast HDRStudio	SilverFast HDR	SilverFast PrintPro	SilverFast Print	SilverFast PhotoCD
TIFF	K, 1 bit line art (.tif)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –
	K, 8 Bit Grayscale (.tif)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	☑ / –
	K, 16 Bit HDR Grayscale, uncorrected (.tif)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	K, 16 Bit Grayscale, corrected (.tif)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	RGB, 24 Bit colour (.tif)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / –	☑ / –
	RGB, Cie-Lab, 24 Bit colour (.tif)	☑ / –	– / –	☑ / –	☑ / –	– / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	– / –	– / –
	RGB, 48 Bit colour, uncorrected (.tif)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	RGB, 48 Bit colour, corrected (.tif)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	CMYK, 32 Bit colour (.tif)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
	CMYK, 64 Bit colour (.tif)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
	All Tiffs afore mentioned alos with LZW	☑ / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / –
JPEG	K, 1 Bit line art (.jpg)	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –
	K, 8 Bit Grayscale (.jpg)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / –
	K, 16 Bit HDR Grayscale, uncorrected (.jpg)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	K, 16 Bit Grayscale, corrected (.jpg)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	RGB, 24 Bit colour (.jpg)	☑ / –	☑ / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	☑ / –
	RGB, 48 Bit HDR colour, uncorrected (.jpg)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	RGB, 48 Bit colour, corrected (.jpg)	☑ / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	☑ / ☐	☑ / ☐	☑ / ☐	☑ / ☐	– / –	– / –
	CMYK, 32 Bit colour (.jpg)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
	CMYK, 64 Bit colour (.jpg)	☑ / –	– / –	☑ / –	☑ / –	– / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	– / –	– / –
JPEG2000	K, 1 Bit line art (.jpf)	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –
	K, 8 Bit Grayscale (.jpf)	☑ / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
	K, 16 Bit HDR Grayscale uncorrected (.jpf)	– / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
	K, 16 Bit Grayscale corrected (.jpf)	– / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
	RGB, 24 Bit colour (.jpf)	– / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
	RGB, 48 Bit HDR colour uncorrected (.jpf)	– / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
	RGB, 48 Bit colour corrected (.jpf)	– / –	– / –	☑ / ☐	– / –	– / –	– / –	☑ / ☐	☑ / ☐	– / –	– / –	– / –	– / –
DCS	CMYK single file, 32 Bit colour (.eps)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
	CMYK multiple files, 4x8 Bit Grayscale + 1x 32 Bit colour (.eps)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
EPSF	K, 8 Bit Grayscale (.eps)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
	RGB, Cie-Lab, 24 Bit colour (.eps)	☑ / –	– / –	☑ / –	☑ / –	– / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	– / –	– / –
	CMYK, 32 Bit colour (.eps)	☑ / –	– / –	☑ / –	☑ / –	☑ / –	– / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –	☑ / –
PSD	RGB, 24 Bit colour (.psd)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / ☐	– / –
Kodak PhotoCD	YCC, (.pcd)	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / –	– / ☐
CRW (Canon)	RGB, 48 Bit colour (.crw)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
CR2 (Canon)	RGB, 48 Bit colour (.cr2)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
CS (Sinar)	RGB, 48 Bit colour (.cs1 / .cs4)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
DCS (Kodak)	RGB, 48 Bit colour (.dcr, .tif)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
DCR (Kodak)	RGB, 48 Bit colour (.dcr)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
MRW (Minolta)	RGB, 48 Bit colour (.mrw)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
NEF (Nikon)	RGB, 48 Bit colour (.nef)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
ORF (Olympus)	RGB, 48 Bit colour (.orf)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
PEF (Pentax)	RGB, 48 Bit colour (.pef)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
RAF (Fuji)	RGB, 48 Bit colour (.raf)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
RAW (Leica)	RGB, 48 Bit colour (.raw)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
RAW (Panasonic)	RGB, 48 Bit colour (.raw)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
SRF (Sony)	RGB, 48 Bit colour (.srf)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –
X3F (Sigma)	RGB, 48 Bit colour (.x3f)	– / –	– / –	– / ☐	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –	– / ☐	– / ☐	– / –

The “virtual light table” called “VLT” is an excellent tool that combines the four most important jobs of digital imaging in one window:

- Viewing, getting an overview and searching
- Sort, look over and organizing
- Processing and optimizing of images
- Printing of contact sheets and single images

If the interaction of camera and computer functions properly, the images may be taken directly from the digital camera by the *VLT* for further processing.
When launching *SilverFastDC-versions* the *VLT* will open. By clicking these buttons, the user may switch between the *VLT* and the *SilverFast* main dialogue.

Working with RAW-Data in *SilverFast DCPro*

SilverFast DCPro is able to directly read the most common RAW-Data formats of professional digital cameras.
Apart from the previously supported classical 48Bit RGB-Tiff format, the RAW-Data formats CRW (Canon), CS (Sinar), DCS (Kodak), MRW (Minolta), NEF (Nikon), ORF (Olympus), RAF (Fuji), RAW (Leica, Panasonic), SRF (Sony) and X3F (Sigma) are now supported. The complete list of supported cameras can be found on our website at:

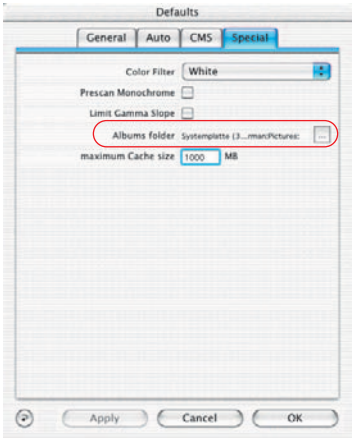
http://www.silverfast.com/show/dc-cameras-raw/en.html

System requirements

Working with RAW-Data implies working with large files. Subsequently, the system requirements are quite high.

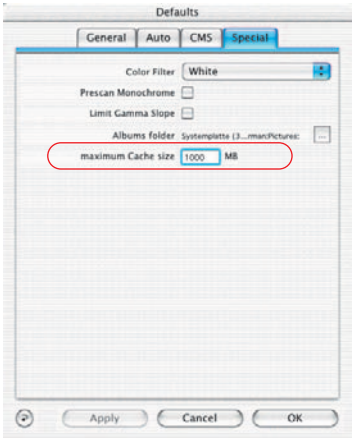
- **System Requirements Macintosh**
  MacOSX, 256 MB RAM, 150MB free disc space
- **System Requirements Windows**
  CPU 1 GHz, 256 MB RAM, 150 MB free disc space

Presets and cache



In order to ensure optimum usage of the computer system, some thoughts should be devoted to memory requirements and the expected file sizes.
Accordingly, 2 presets should be made in the Pallette “General” / “Options” / “Special”

- **Setting the path for the Album folder**
  Here, the user may generate and assign an individual directory for the saving of the *SilverFast DC* Albums.



- **Setting the cache size**

  In order to convert large amounts of RAW-Data in the background, a respectively large cache memory size is needed.

  The conversion of RAW-Data means that a RAW-Data file is converted into an uncompressed “48Bit RGB Tiff” format.

  An example of a generous calculation of the expected memory assignment:

  A digital camera with 6 Megapixels delivers a RAW-Data file of about 6 MB. Converted into 48Bit RGB this will mean a file size of almost 36 MB.

  6 MB *(RAW)* x 3 *(RGB, 8 bit per channel)* x 2 *(RGB, 16 bit per channel)*.

  If, for exampe, 100 RAW-Data files with an average size of 6 MB are converted, the required cache size increases to around 3,6 GB. An adequately large hard drive is reccomended.

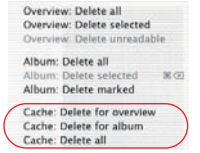
  In case the capacity of the HDD is reached while converting, *SilverFast* halts and displays a corresponding message. The user then has the chance to alter the assigned cache size in the “Options” / “Special” dialog.

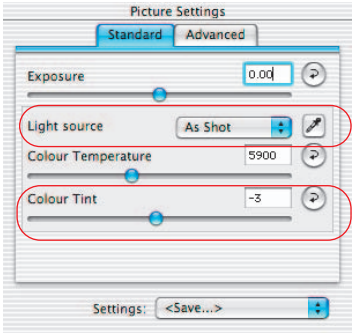
  Naturally, *SilverFast* can continue without increasing the cache size. If the limit is reached and additional files are to be converted, *SilverFast* overwrites the cache of an older image. This happens analog to the cache memory as is done in Internet Browsers.

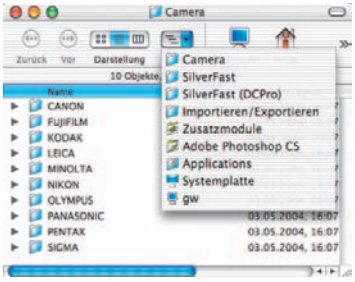
  The older image thus looses its blue dot, and the new image will receive it after conversion.

  The contents of the cache memory remain until the user actively deletes it.

The cache may be deleted directly by means of the PopUp Menu “Delete”.







- **Internal RAW-data conversion profile for your camera (*SilverFastDCPro*)**

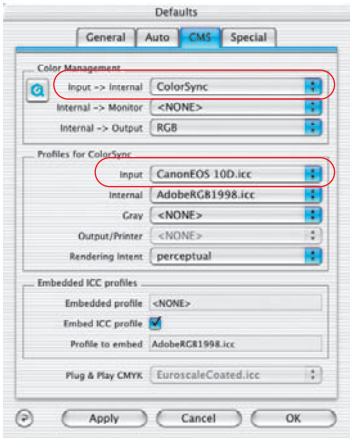
  LaserSoft Imaging has developed special internal RAW data conversion profiles that are can also be installed with the software.

  Note: Only if such a profile for your camera has been installed will a third slider "Color" and the light source pipette appear in the "Image settings" window. If this is missing, either no RAW data file was opened or no "internal RAW data conversion profile" was found the image. Please refer to our website for a complete list of supported cameras.

  If no profile can be found, none will be used. In this case a simple, linear conversion of the RAW data is done which does not always deliver adequate results.

  In case your RAW data images in *SilverFastDCPro* generally have colour problems, it is likely that no RAW data conversion profile for your camera has been installed.

  These RAW data conversion profiles are found in the installation folder of *SilverFastDCPro* in the folder "Camera".



- **Manually selecting a camera specific ICC profile**

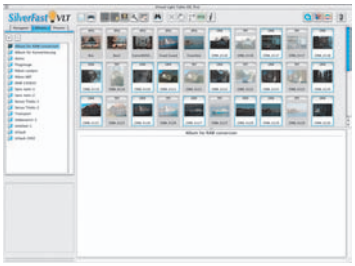
  By means of the implemented IT-8 calibration of *SilverFastDCPro*, it is possible to generate an ICC camera profile manually.

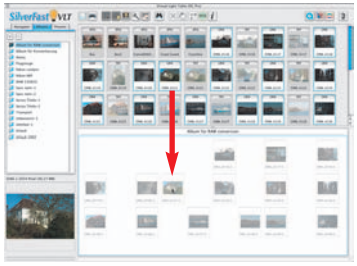
  The generated profile is found in the Times New Roman main dialog: "General" / "Options" / "CMS" under the menu "ColorSync Profiles" / "Enter"

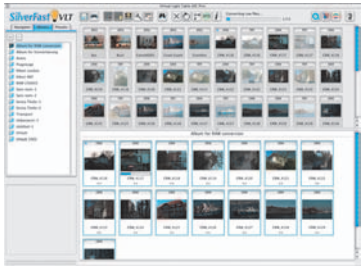
  The Input-Prompt “Color-Management” / “Input > External” has to be set to “ColorSync” in order to use the profile.

Workflow for conversion of RAW-Data files

SilverFast DCPro allows a quick conversion of RAW-Data files in the background.
This is done by choosing the images to be converted in the overwiew of the *VLT*, and dragging them into an Album.







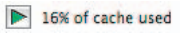
***Left**: First select the images that are to be converted*

***Middle**: Drag them into an Album*

***Right**: The conversion commences immediately.*

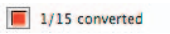
Until *SilverFastDCPro Version 6.1.0*, the conversion of camera Raw data took place automatically without the possibility to influence this. The conversion status was displayed on a status bar at the top of the *VLT*.
This has been changed from *Version 6.2.0* upwards. Now the user can decide on his own if and when the conversion of the selected Album should take place.

As soon as camera Raw-data is moved into an active Album in the *VLT*, a small button with a green arrow will appear at the top of the Album window.
The size of the current cache memory is displayed next to this button.

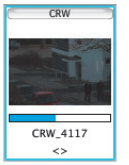


In case the cache memory is mostly used up it can either be emptied, or more cache memory may be assigned.

Clicking the green arrow launches the conversion process. The arrow will then switch to a red square.

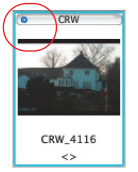


The conversion is a background process, and *SilverFast* may still be used normally. If, however, the Album is changed, the conversion process is automatically stopped.



The status of the conversion is shown in a text next to the button. Alternatively, the progress is also shown by means of the blue dots and the small progress bar.

By clicking on to red square the conversion can be interrupted at any time. The square will then change back into the green arrow.



If a RAW-Data image has been converted, the thumbnails are marked with a small blue dot on the upper left corner of the thumbnail image.

Because *SilverFast* allows this conversion to take place in the background, the user may continue with his work at the same time. This could be with already converted images, different albums or optimization of an image in the SilverFast main dialog.

Unloading camera storage media

Export album...
Unload removable media...

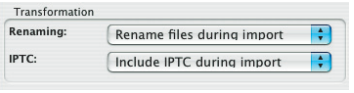
SilverFast DC... / -HDR... allows reading and copying of data from a camera or for example Flashcards, directly on to the hard disk. During this process, predefined IPTC information of the images may be entered. These images can also be renamed automatically.

Workflow for unloading

- Launch *SilverFast DC / -HDR* and the *VLT*.
- Attach camera or card reader observing the security regulations for these.
- If the camera or medium is detected, the Import dialog "Unload image media" appears.

6.11

- The detected storage mediums are displayed under "Inpute". If more than one medium is found, please choose the correct one.



- The field "Transformation" describes how images are to be treated when importing.

  The menu "Renaming" allows complex changes of file names of single or all imported images.

  The menu "IPTC" offers additional link to IPTC information of the imported images.

- The destination of the imported images can be set under the "Output" dialog. By clicking "New album", a new and empty album is generated.

- The import-dialog will then open with each new media that is attached - as long as the *VLT* is open.

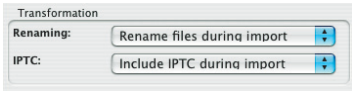
  The small check box "Show this dialog when adding new media" can be activated for comfortable import. The import dialog will open itself with each new medium – provided that the VLT is open.

  ⚠ Attention! Prior to removing the storage media it should always be removed by the system to avoid damage and loss of data.

  Please refer to the respective operating instructions!

Re-naming images automatically

The re-naming of images can be done while unloading them or later, with already saved image files.



Automatic re-naming while unloading

The "re-name" menu allows complex changes of filenames of any part of, or the entire collection of imported files.

The re-naming dialog is divided into 5 parts:

- **Image list**

  All images that have been found on the storage device or that have been selected by the *VLT* are listed here.

  More images may be added by means of the "plus" button, and images may be removed by the "minus" button.

  The button "Preview" and "Original" is a switch. By this the new names or the old names of the images can be shown.

- **Settings for new names**

  The check boxes define how the old file names are to be treated.

  «**Use the first letters of the old name**»: determines the number of characters that are to be taken from the old file name. By this, an old camera-specific number system can be allocated in front of the new name.

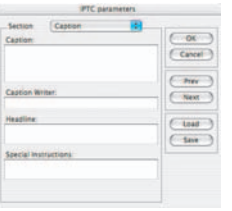
  «**Use custom word**»: The entered text will be added in 2nd position to all file names.

  «**Use Source foulder name**»: if this field is checked, the name of the directory will be added in 3rd position of the new name.

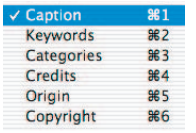
  «**Add an Index to name**»: by this field, a new numerical system can be added to the file names in 4th position. The number of blank digits, as well as the first number and the numerical system of the following numbers may be described.

  «**Add the old Index number to name**»:if checked, this will add the old, already used file name in 5th position

«**Add IPTC to file**»: If IPTC information is to be entered (e.g. Image author, image rights, etc.), it can be done here.

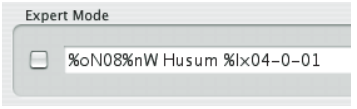


Clicking the "IPTC" button opens the respective dialog. The IPTC dialog is divided into 5 separate text fields. By means of the "Previous" / "Next" buttons, the different areas can be reached.



A defined IPTC dialog may be saved and reloaded at any later time.

- **Expert mode**



Experienced users may also enter the changes for filenames directly (as a program command).

Every check box in the "Settings for new names" dialog resembles a shortcut, consisting of the percent symbol and 2 letters, followed by the used values.

The commands are entered without the "Space" key separating them.
Example: %oN14%nW U-Test %oF%Ix04-0-01%It

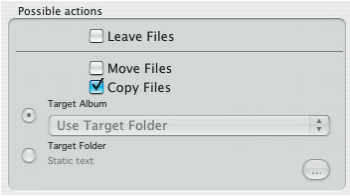
%oN14: The first 14 letters of the old filename shall be used.

%nW U-Test : the images are added with the new name "U-Test" - NOTE: The spaces - they are applicable here.

%oF: The directory name is added to the image name.

%Ix04-0-01: The images receive an index that starts with "Zero" and are increased by "One" for every additional image.

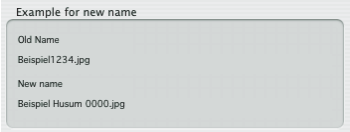
%It: the old index of the images is added to the new name at the last position.



- **Possible actions**

  In this part of the dialog it is decided if the mages are to be renamed, moved or copied while importing them.

  If images are moved or copied, the destination is to be specified. Any album or any directory may be chosen here.

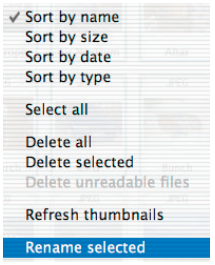


- **Re-naming example**

  A demonstration how the set parameters will affect the file names.

Subsequent, automatic renaming

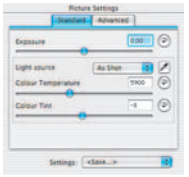
This action is launched from the VLT. First select the images to be renamed from the VLT overview.



Next, use the context menu (Windows right mouse click) to choose the option "rename selected"; the respective dialog opens.

Once the renaming dialog has been opened, any number of images may still be added. The user is not limited to just one source directory.
The usage of this dialog is the same as the one already described earlier under "Renaming images automatically".

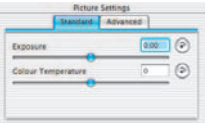
Correction of exposure and white balance



In *SilverFastDC, -DCpro* from version 6.2 upwards, the divided window "Image settings" appears as an individual dialog which usually appears below the main dialog.
Depending on the kind of opened image, the window changes its appearance. If JPEG, TIF or RAW data files that are not fully supported by DCPro are opened, the "basic" version of the dialog opens.
If a camera RAW data file that contains an internal "RAW data conversion profile" is opened an extended dialog will appear.

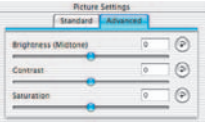
The "basic" image settings dialogue

Only 2 sliders are available in the standard palette; "Exposure" and "White balance".



- **Exposure**: The slider simulates a change in exposure time of the image. The range is generally 3 apertures.
- **White balance**: The white balance of the image can be set by this slider. By this, an incorrect alignment can be compensated.

There are 3 sliders in the extended palette: "Brightness (mid-tones)", "Contrast" and "Saturation":



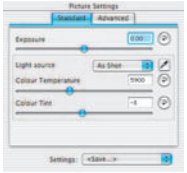
- **Brightness (mid-tones)**: This slider regulated the brightness of the mid tone values of the image. The slider is coherent with the mid tone sliders of the gradation- and histogram dialogs.
- **Contrast**: This slider controls the contrast of the image. The slider operates like the one within the gradation dialog.
- **Saturation**: This slider affects the saturation of the image. In the far left position, the image appears completely unsaturated and looks like a grayscale image.

The "extended" image settings dialogue

If RAW data from a digital camera is opened for which *SilverFast DCPro* has a special, internal RAW-data conversion profile, an extended dialog will open.

In addition to the sliders seen in the "basic" dialoguej4 , further functions are available.

The "standard" palette has added functions for measurement and setting of color temperature of the light source.



- **Light source**: By means of the popup menu, presets for certain standard light sources can be chosen. e.g. "Daylight".

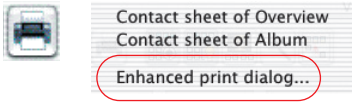
- **Pipette**: The colour temperature of the image can directly be measured by the pipette. For this, a neutral part of the image should be selected. The white balance slider will jump to the measured position instantly.

- **Colour**: The colour cast in the image is affected by this slider. Simply said: the colour temperature refers to a shift between RED and BLUE. By means of "colour", an element of GREEN can be added or subtracted from the image.

The extended palette is fitted with functions for smoothing of luminance and colour-distortion reduction.

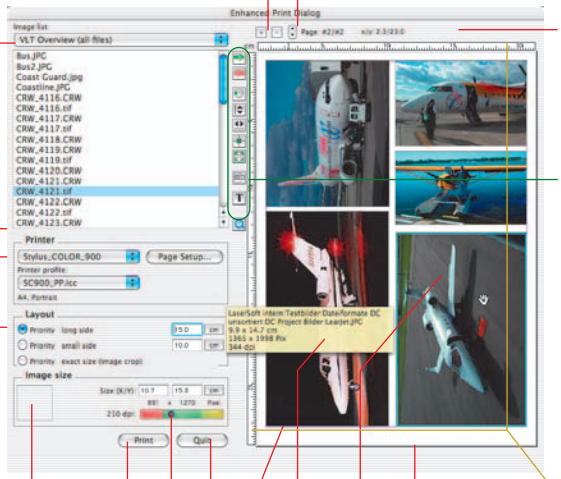
- **Smoothing of luminance**: This operates like a filter. By this, the highlight noise within the luminance channel of the image can be corrected. The filter thus only affects the luminance (The "L" channel in the Lab colour space), and not the colors.
- **Colour-distortion reduction**: This is a filter that corrects the noise in the color channels ("a/b" channel) of the image.

Advanced print dialogue in the *VLT*



The print menue in the *VLT* contains not only the possibility to print contact sheets of Albums or printing an overview, but also include the “advanced printing dialogue” in order to print out a selection of images from an Album or from the overview.

Contents of the advanced print dialogue



Page
Add or delete

Page number
Page breaker

Image list
Chose images from Album or Overview.

Printer settings and choice of ICC printer profile

Page and layout settings
Preset which size of the image should be considered in the print.

Thumbnail of chosen image in the image list

Start printout

Print resolution of active image in the print dialog

Close dialogue

Position/Size
Position upper left corner and size of the image below the mouse cursor.

Tools
- *Add*
- *Delete*
- *Rotate*
- *Reflect vertically*
- *Reflect horizontally*
- *Centre*
- *Adjust*
- *Cut*
- *Image text*

Window of printed page

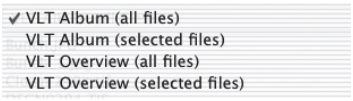
Rulers
Measurement unit: cm

Aktives Bild
erkennbar an blauer Umrandung

Information on the active image
Path, file name, print size, output resolution

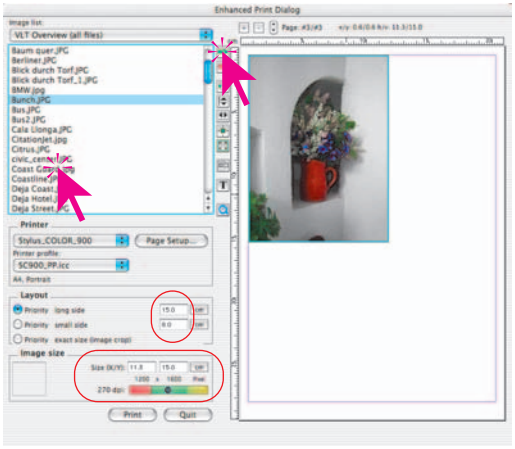
Printing area
Marked by violet frame

Print single image



In the context menue “**Image List**“ the user may chose of all / a selection of images of the active Album / the active overview in the left part of the dialogue window shall be listed.

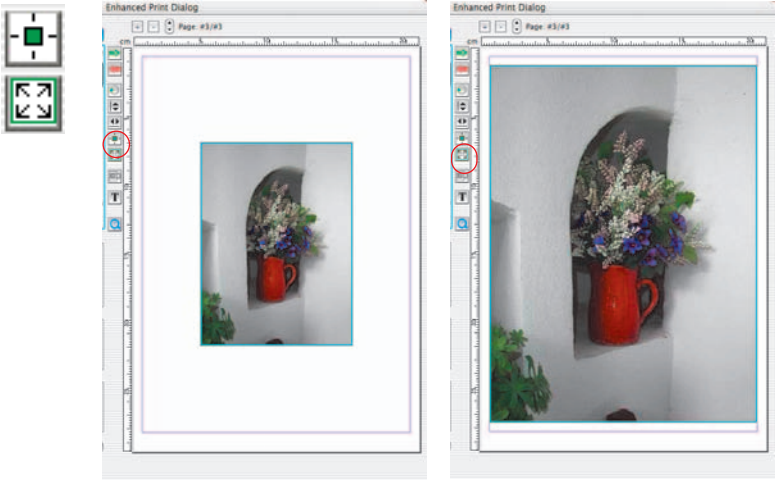
Select an image by a mouse click in the image list and enter the values fort he desired printing size in the “**Layout**“ (here 15x8cm)



The dimensions of each image can be changed even after placement on the printing page by means of the "Image size / Size {X/Y}" dialog. The colored bar below the input field shows the current output resolution. If the display is within the green or yellow areas, the image file has enough resolution for a good quality print.

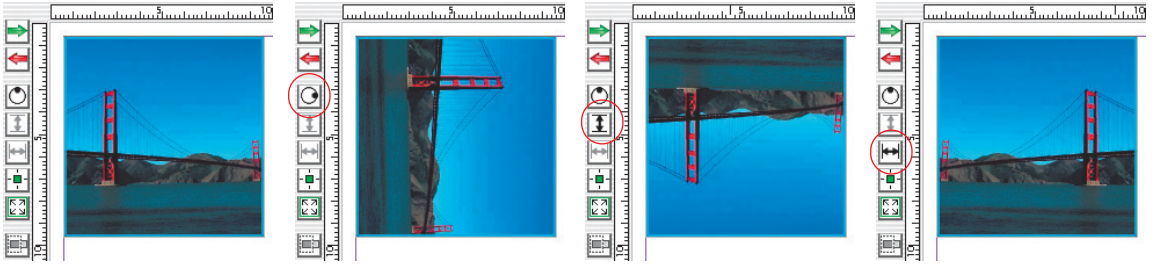
By double-clicking or by hitting the “Add” button, the image is moved into the print window and automatically positioned in the top left corner of the print sheet.

If you wish to change the placement or the size, you can do this manually, or by means of button located to the left of the printing window:



Left: Centre image in printout
Right: Fit image to printout

The orientation is also alterable. By clicking the “Rotate” button, the image is rotated in 90° steps. By means of the “Invert” buttons, the image may aditionally be inverted vertically and horizontally.



All previous changes left the image in ist original size-relation. If you want to change the proportions of this image, simply activate the “Cut image” option.
In the activated mode the selection can be done in an active image by click-dragging the image. Doing this on the edges allows cutting of the image.
A cut image may be resized again.

Click-dragging while keeping the “Shift” key pressed at the edges or the corners allows simultaneous cutting of opposite edges or corners.

If the “Cut image” mode is deactivated, the proporstions of the image may not be altered; only size, position and orientation is alterable.
A cut image can be protected against further changes.

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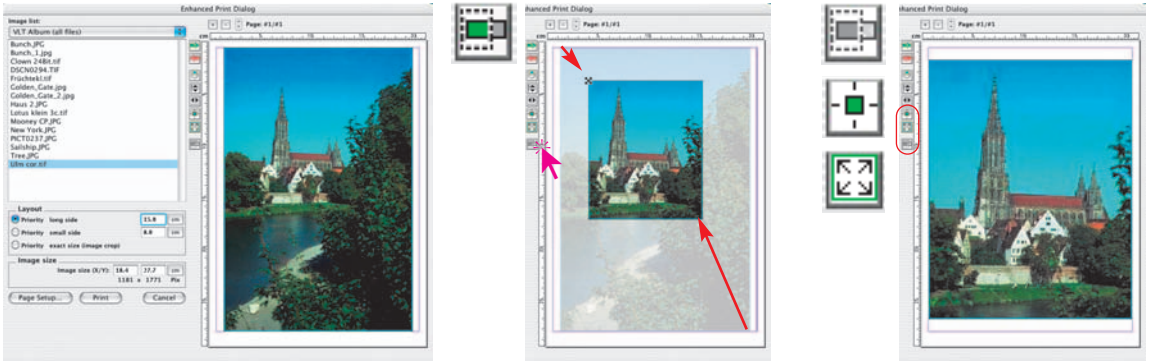
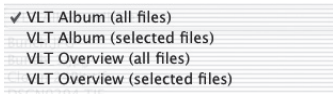
Lower left: Image in ist original proportion (Cut mode deactivated)

Centre: Cut image (Cut mode activated)

Right: Cut image fit to page (Cut mode deactivated)

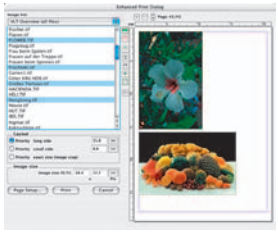




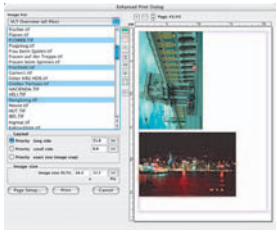
Transfer several images to printout

By way of the popup menue "**Image list**" it can chosen if all / a selection of images are to be listed from an active Album / the active overview in the left part of the dialogue window is to be listed.

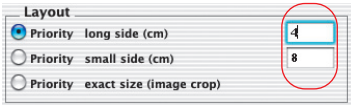
Images are to be selected from this list by the **"Add**" button to pass them on into the printout window. *SilverFast* will automatically try to place these images in an optimum manner on the print sheet.



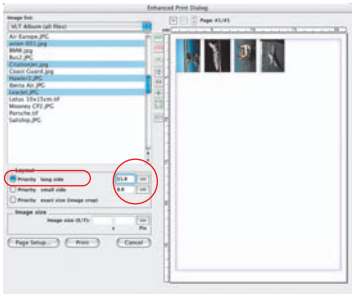
In case the printing area is not enough, *SilverFast* will ask if more printing sheets are to be used.



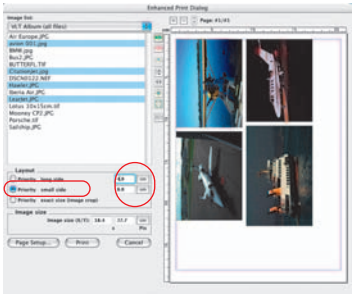
The number of pages as well as the number of the active page are displayed above the window. The pages may be turned by means of the little arrow buttons.
By clicking the "Plus" and the "Minus" buttons respectively, printing sheets may be added or deleted manually.



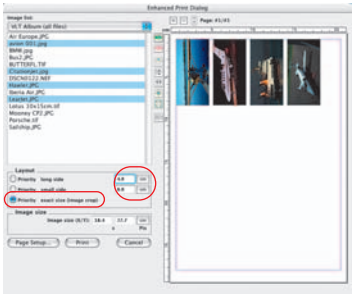
The size of the images that will be printed out is adjustable in the presets under the "Layout" menue. The "Priority" determines if all images use the same long page, the same short page or the exact entered values on the printout.



Priority long side
The selected images were all inserted with a long page of 4 cm.



Priority small side
The selected images were all inserted with a short page of 8 cm.



Priority exact size
The selected images were all inserted with an exact size of 4x8cm. Since in this case the image contents were larger, they were cut to 4x8 cm.

Naturally all single images may also be varied in size by click-dragging them manually in the printout window:

Click-dragging within an image moves the entire image.

Click-dragging an edge / a corner alters the image size (proportionally if the “Cut image” button is deactivated, i.e. i fit appears grey.

By means of the navigation buttons left of the print window, rotating, inverting etc. Is possible:

Add: The images selected and marked are passed on to the printing window.

Delete: The selected images are removed from the printout..

Rotate: The selected image is rotated in 90° Stepps. The dot at the circle shows the orientation.

Reflect vertically: The active image is reflected vertically in the print window.

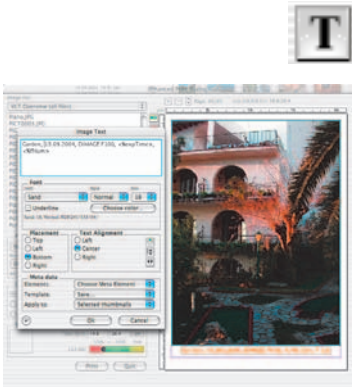
Reflect horizontally: The active image is reflected horizontally in the print window.

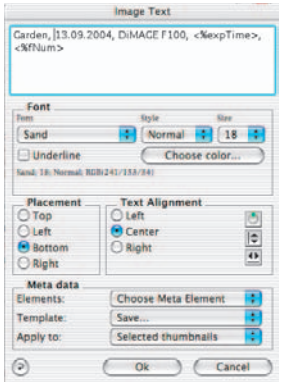
Centre on page: Places the image centrally in the printout

Adapt to page size: The active image is proportionally adapted to the printing area.

Cut image: If this mode is activated the are of the image can be selected manually by click-dragging the mouse. If this option is deactivated, the proportions of the image may not be changed; only size, position and orientation may be altered.

„Creative“ work is also possible: Images may be placed over each other – e.g. one image may be chosen as a large background, while other, smaller ones are placed over it.





Adding text to images*: By clicking the "T" button the dialog "Image text" opens. With the aid of this extensive dialog, the images may be fitted with individual or automatic texts.

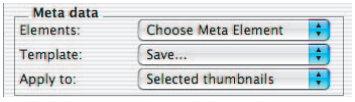
- **Input** field in the header of the dialog: Accepts freely entered texts and shows the commands of the placed metadata.

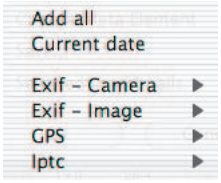
- **Font**: Popup menus for font, font style and font size. Additionally, texts may be underlined. By choosing "Select color" the internal system dialog for this function appears.

  These settings control all of the text and all metadata visible in the upper input field.

- **Placement**: Defines the edge of the image where the text shall be printed.

- **Text alignment**: The check boxes control the position of the text. By means of the buttons on the right margin, the text may be rotated and inverted.

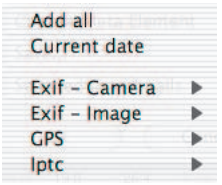




- **Meta data / Elements**: A very extensive menu with several sub-menus for the designation of the metadata that is to be entered into the image texts opens here. Each choice of a meta date adds this to the current position of the text cursor.

  The metadata commands in brackets within the text field will only lead to an actual printing of the data if the meta data entries are available in the image data. Thus, a meta data entry does not automatically lead to a printed text on the image. An "empty" meta date will simply be ignored in the printout.

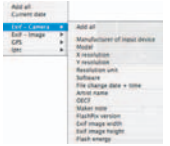
** The text function is only available in "Studio" versions or by means of the FeatureUpgrade.*



"Insert all" will cause all available meta data to be entered into the image text - this can easily become a very large text!

"Current date" enters the current system date into the image text.

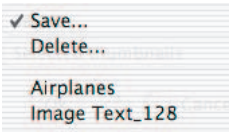
"EXIF - camera" is a menu for camera specific meta data.



"EXIF - image" displays a large menu for capture- and image specific meta data.

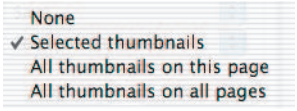
"GPS" lists the meta data of satellite supported positioning which is integrated in some cameras.

"IPTC" allows the embedding of IPTC meta data into the image text.



- **Meta data / templates**: here, all entered settings can be saved as a set and reloaded at a later time. Apart from the chosen meta data, the freely entered texts are also saved.

  Saved sets can also be reloaded by entering their respective names.



- **Meta data / Apply to**: In this menu the user can choose which images are to be furnished with text.

  The text printing can be deactivated ("No image"), applied only to selected images ("Chosen image"), or for all images ("All images on this page"), or even assigned to all to all print pages ("All images on all pages").

Printer setup

The parameters of the connected printer can be defined in the menu "Printer".
If available, the correct profile for the used printer/paper combination can be selected in the "Printer profile" menu. This even permits working with calibrated printers.

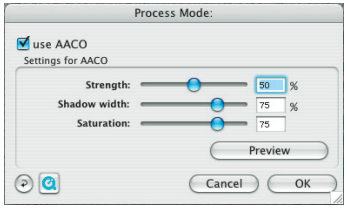
NOTE: Please note that the menus for setting up the printer vary substantially, depending on the operating system and the different printer models.

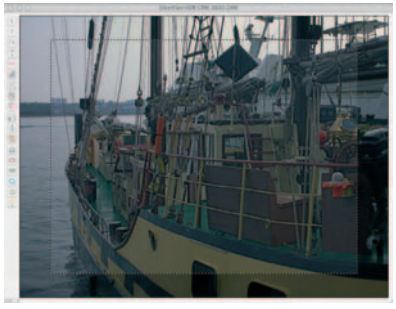
SilverFast AACO

SilverFast AACO is an excellent tool for the correction of dark, too much contrast bearing image parts while preserving the details in the highlights.

AACO is activated by clicking the respective button located in the vertical toolbar, left of the preview window.

A dialog will open, and the therein set parameters are directly projected onto the current image.





For checking the before/after effect, *AACO* can be activated and de-activated by means of the checkbox.

Manual corrections can be done by means of the 3 parameter settings. After each change of a parameter, the preview is updated by pressing the “Preview” button.
Clicking the “Reset” buttons sets back the parameters to the original preset values.

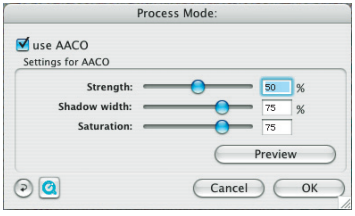
Strength: The upper slider regulates the intensity of the effect on the image.

The values range from 0 to 100%. Default setting is 50%.

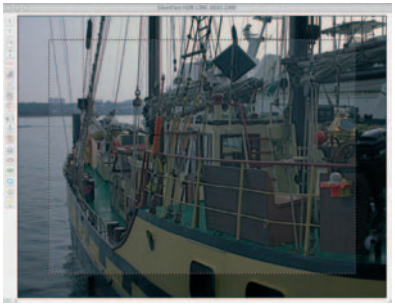
Shadow widht: This regulates how deep the AACO is to interfere in the highlights; i.e. up to what brightness is will apply.

Smaller values only affect the very dark areas of the image. High values will also interfere with the mid-tones.

Saturation: The third parameter regulates the saturation of the colors, but only those which have been altered by “Intensity” and “Shadow-width” adjustments.



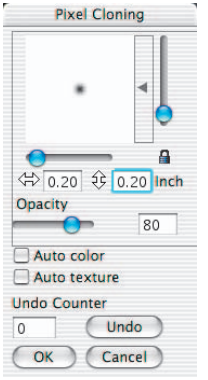
The example shows that even severe changes to the shadows will not affect the highlights, while the shadows have been corrected.



Clone tool

The powerful clone-tool in the new *Studio* versions now allows complete retouching of images. This 16bit based retouching tool is an excellent supplement to *SilverFast*... with its implemented *SRD* function. Major defects and severe scratches on the image may easily be removed or corrected. Furthermore, even entire areas of the image may be removed, retouched, altered, etc.

Clicking on the “Clone” button, left of the preview window opens the according dialog. Size and shape of the clone tool may be adjusted in the upper part of this dialog by means of vertical and horizontal sliders.

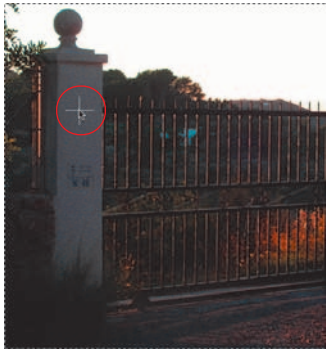


Clicking on the palette next to the preview of the tool will open a context menu that contains different preset tool tips. The selected tool tip appears in the preview window and may further be altered by means of the sliders.

An open lock enables asymmetric tool shapes. The lock should remain open while cloning, otherwise it will jump back into its previous, symmetrical shape.

The opacity of the clone tool can be changed by using the slider in the middle of the dialog.

The correction id performed in three steps:



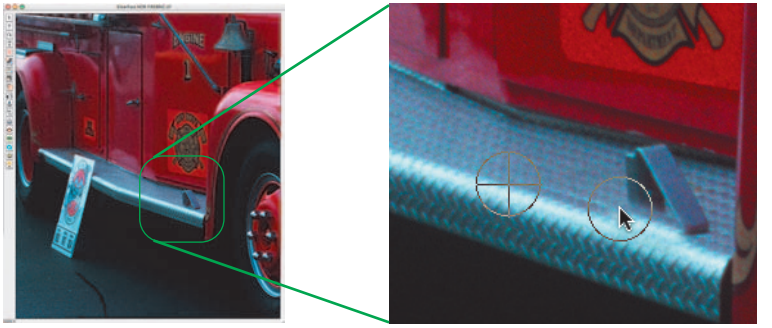
Select source
with Alt-key pressed

Find target

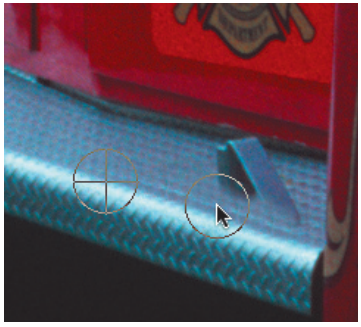
Clone
with pressed mouse button

First, the image source is selected (click into the desired area of the image while keeping the “Alt” key pressed), then the target area is selected and then cloned by keeping the mouse key pressed. The marker of the source (circle with cross) follows the clone in a fixed distance.

The activated checkbox “Auto texture” allows *SilverFast* to detect patterns by which the clone tries to harmonically match the target area with that of the source area. By this method, the usual retouching-problem of having to try to exactly hit the edges or corners of the target area is solved. Here it is important that the texture of source and target almost run in parallel directions; a classic example of this is the retouching of hair and long edges, etc.

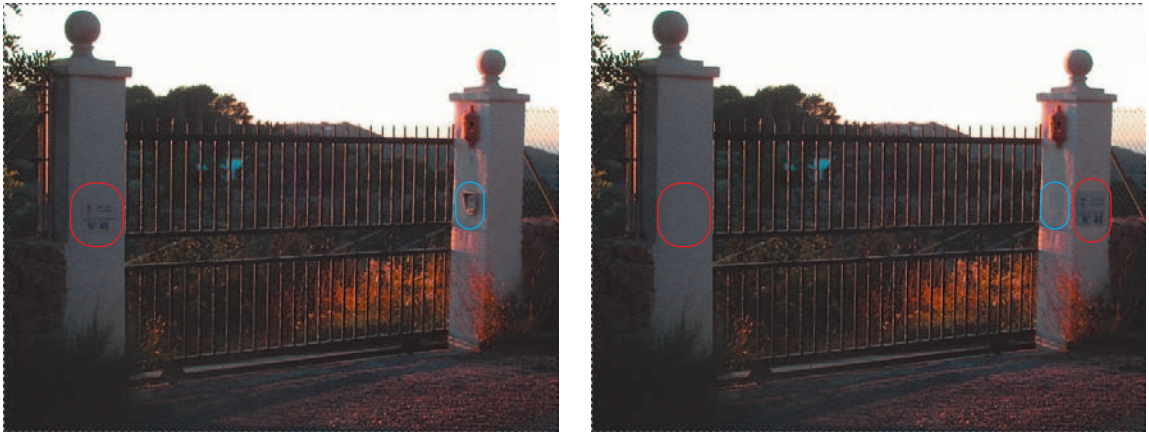


Retouching without “Auto-texture”
Objective: To remove the metal door stopper. Even a small difference between source and target area immediately results in a breach of the image and is clearly visible. Illustration left: Original. Illustration middle: Retouching attempt with incorrect source.



Retouching with “Auto-texture”
A slight mismatch between source and target is neatly evened out by the “Auto-texture”

Naturally, all clone steps may be undone. This can be done in the lower part of the dialog. The field shows the current amount of performed retouching steps. By clicking the “Step back” button, all actions can be made undone. The preview window updates immediately.

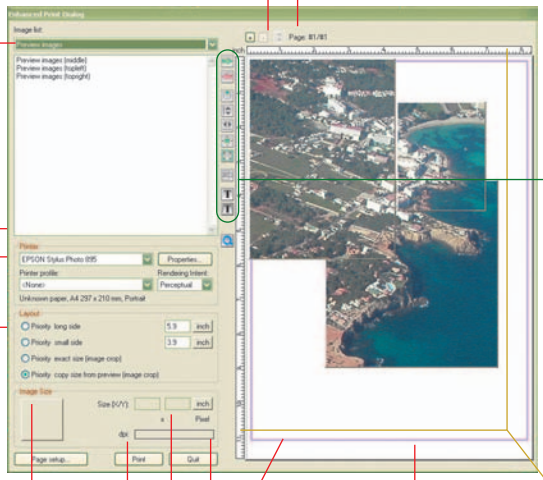


Retouching example: What was changed?
The left image is the original and the right image shows the result or retouching. The sign on the left jamb was copied to the right jamb and then deleted from its original position. The deletion can be seen on the previous page.
On the right jamb, the switch was completely removed – as was its shadow.

Extended print dialogue of *SilverFastAiStudio*

In the standard versions of *SilverFastAi*, the “Print” button merely opens a simple printing dialogue. Only single scan frames may be printed out. The *Studio versions* use this button to open the extended print dialogue.

Contents of the advanced print dialogue



Page
Add or delete

Page number
Page breaker

Image list
Choosing scan frames in the preview window.

Printer settings and choice of ICC printer profile

Page and layout settings
Presets which size of the image should be considered in the print., and 1:1 copy function.

Tools
- *Add*
- *Delete*
- *Rotate*
- *Reflect vertically*
- *Reflect horizontally*
- *Centre*
- *Adjust*
- *Cut*
- *Image text*

Thumbnail of chosen image in the image list

Start printout

Print resolution of active image in the print dialog

Close dialogue

Window of printed page

Rulers
Measurement unit: cm

Printing area
Marked by violet frame

The basic functions are identical to the extended print dialogue in the *VLT* (ref. *SilverFastDC.., HDR..*) A detailed description can be found in the respective paragraphs of “Chapter6.11”, and here from page 39 onwards.
The main difference is the 1:1 copy function in which functionality of a photocopier is simulated.
This function is activated by clicking the “Copy” button within the “Layout” area – all scan frames in the preview window are copied 1:1 to the chosen paper format including their exact positions and proportions.

“Image settings” in *SilverFast Ai Studio*

The dialog window “Image settings” (known from the *SilverFast DC-* and *–HDR* versions) has now been modified and implemented into *SilverFast Ai Studio*. A real-time output histogram that shows the effects of all *SilverFast* settings on the final scan is shown.
The difference to a normal histogram is that this feature shows the target- or final histogram. This is the actual histogram that is also shown after the scan has been done. All parameters that have been set in *SilverFast* are hence shown here. A normal histogram that shows the source or input histogram which shows the image before scanning. By pressing the “Alt” key in the normal histogram, the display will show the target histogram.

Keystrokes in *SilverFast*

Action	Macintosh	Windows
Description of keyboard shortcuts and their respective counterparts		
Command	Command-/Apple-Key	–
Alt	Opion-/Alt-Key	Alt-Key
Shift	Shift-Key	Shift-Key
Ctrl	Control-/Ctrl-Key	Control-/Ctrl-Key
Return	Return-/Enter-Key	Return-/Enter-Key
Esc	Escape-/Esc-Key	Escape-/Esc-Key
ScanPilot		
Apply / Execute current tool	Return	Return
Scroll / Next action	Up and Down arrow	Up and Down arrow
Prescan, scan / Preview, process		
Stop prescan / stop scan	Command +Period	Strg+Period
Switch to other colour space	Ctrl+Click on Scan-/Process-button	Right mouse button+Click on Scan-/Process-button
Zoom	Ctrl+Click&Drag	Ctrl+Click&Drag
Image frames		
Duplicate frame	Alt+Click&Drag	Alt+Click&Drag
Entire Window in one frame	Command+A	Ctrl+A
Delete frame (extended keyboard)	Delete	Delete
Delete frame (normal keyboard)	Alt+Backspace	Delete
Frame reset	Reset-button	Reset-button
Auto-adjust		
Resetting auto-adjust	Alt+click on Auto-adjust button	Alt+Click on Auto-adjust button

Action	Macintosh	Windows
Highlight / shadow / midtone tool (HSM-tool)		
Set highlight	Click on white triangle of HSM-tool	
Set midtone	Click on pipette of HSM-tool	
Set shadow	Click on black triangle of HSM-tool	
Multiple attempts with pipette		
Hold down pipette for multiple attempts (only highlight, shadow)	hold down Alt	hold down Alt
Reset highlight / shadow	Alt+Pippette of HSM-tool	
Display brightest point	F6	F6
Display darkest point	F5	F5
Histogram		
Show result histogram	Alt in the histogram dialog	Alt in the histogram dialog
Selective colour correction		
Select all colours	Command+A	Ctrl+A
Select additional colour	Shift+Click into prescan	Shift+Click into prescan
Select additional colour column	Shift+Click on LED below column	Shift+Click on LED below column
Show inactive mask area (dialogue must be closed)	F7	F7
Reset		
Reset all parameters	Shift+Click on Reset-button	Shift+Click on Reset-button
Frame reset	Alt+Click on Reset-button	Alt+Click on Reset-button
Undo/Redo last operation	Command+Z	Ctrl+Z

Action	Macintosh	Windows
Opening a dialog window		
Zoom in preview	Command+1	Ctrl+Alt+1
Image auto-adjust	Command+2	Ctrl+Alt+2
Histogram dialog	Command+3	Ctrl+Alt+3
Gradation dialog	Command+4	Ctrl+Alt+4
Global colour correction	Command+5	Ctrl+Alt+5
Selective colour correction	Command+6	Ctrl+Alt+6
Expert dialog	Command+8	Ctrl+Alt+7
Leave dialog/Leave SilverFast	ESC or Command+Period	ESC or Ctrl+Period
Start scan / Process image	Return/Enter	Return/Enter
Main dialogue		
Undo/Redo last action	Command+Z	Ctrl+Z
Show current hardware resolution	F5	F5
Show calculated scan resolution	F7	F7
Masks in *SilverFast SRD*		
Hide mask frame	Ctrl	Ctrl
Shade inactive mask area	Alt+ Ctrl	Alt+Ctrl
Reduce mask	Alt	Alt
Extend mask	Shift	Shift
JobManager		
Select all job entries	Command+A	Ctrl+A

Action	Macintosh	Windows
VLT (virtual light table)		
Context menue in album and overview	Ctrl+Click	Right mouse
Preview mode, full screen, fit to screen	Command+Shift+F	Ctrl+Shift+F
Display EXIF infos	Command+I	Ctrl+I
Album, mark all images	Command+A	Ctrl+A
Album, delete image	Command+backspace	Ctrl+backspace
***EP* (extended printing dialogue)**		
Crop opposing edges / corners simultaneously	Shift+Click&Drag	Shift+Click&Dra
SilverFast Launcher		
Terminate	Command+Q	Ctrl+Q

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11-2004

LaserSoft Imaging AG
Luisenweg 6-8
D 24105 Kiel • Germany
Tel.: (+49) 431-56009-0
Fax: (+49) 431-56009-98
eMail: Info@SilverFast.de
Internet: www.SilverFast.de

LaserSoft Imaging, Inc.

3212-B Gulf Gate Drive
Sarasota, FL 34231, USA

Fax: (+1) 941-925-9417
eMail: info@SilverFast.com
Internet: www.SilverFast.com

LaserSoft Imaging™