

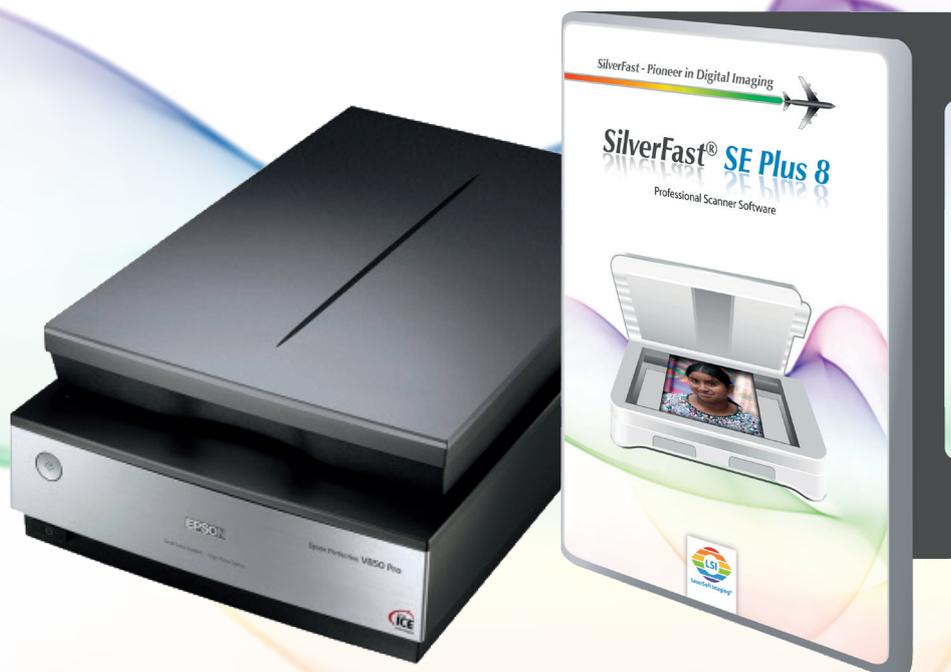


SilverFast[®] SE Plus 8

Professional Scanner Software
Feature Highlights

EPSON
EXCEED YOUR VISION

Perfection V850 Pro



Why is SilverFast 8 necessary?

Professionals demand highest quality

The Epson top-of-the-line models Perfection V800 Photo, V850 Pro and Epson Expression 11000XL are exclusive high-end scanners, which are predominantly used by professional users. Professionals are always demanding highest quality / best solutions, for which - in the field of scanning - SilverFast features like Auto IT8 Calibration, Multi-Exposure and the JobManager are mandatory.*



With SilverFast scanner is usable for professional photographers, universities, museums, architects, marketing agencies or the industry.



This fact has been recognized by Epson. Thus, Epson is bundling its high-end devices with SilverFast scanner software for providing an optimum hardware software combination to the customers.

SilverFast Multi-Exposure* for Epson V850 Pro Scanner



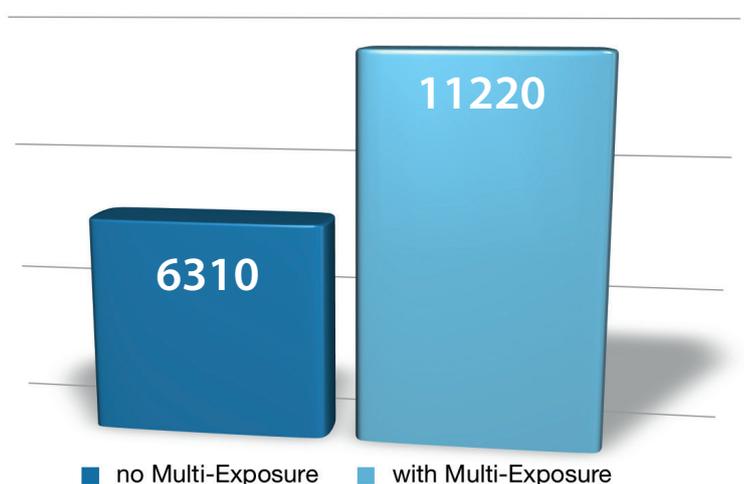
The Dynamic Range of a scanner, also referred to as Density Range or Contrast Range, is a measurement for a scanner's capability to recognize contrast levels. Color negatives and slides consist of multiple film layers, which respond to light differently. Therefore, transparent originals achieve a high Dynamic Range when captured, which usually exceeds a scanner's capabilities.

Using SilverFast Multi-Exposure, the Epson Perfection V850 is able to nearly double the number of recognized levels of gray:

« *Extend The Limits Of Film Scanning: LaserSoft Imaging's SilverFast Multi-Exposure Increases Effective Dynamic Range.* »

Shutterbug Magazine

Epson V850 Pro (according to ISO 21550)



* Multi-Exposure, IT8 Calibration and JobManager are features of SilverFast Ai Studio 8. Multi-Exposure is also included with SilverFast SE Plus 8.

The Secret of Image Quality – Dynamic Range and Resolution

Many consumers consider a scanner's resolution, measured in dots per inch (dpi), as the most important characteristic when it comes to image quality. First, there is a big difference between physical and optical resolution, which is often mixed up, but explained below. However, the most significant indicator for a scanner's quality is its Dynamic Range, that we cover first.

1. SilverFast Multi-Exposure® – Increasing Dynamic Range

Multi-Exposure is one of the most popular SilverFast features and among the most important inventions in digital imaging. It records an original's maximum dynamic range by performing a double scan with an increased exposure time of the second scan. This procedure captures the light image area's details in the first pass and the shadow details in the second. Afterwards an algorithm calculates the final scan, which now contains any detail, from each single scan.



normal scan



Multi-Exposure scan

Multi-Exposure for Filmscanners

The Dynamic Range of a scanner, also referred to as density range or contrast range, is a measurement for a scanner's capability to recognize contrast levels.

Color negatives and slides consist of multiple film layers, which respond to light differently. Therefore, transparent originals achieve a high Dynamic Range when captured, which usually exceeds a scanner's capabilities.

Note: Multi-Exposure is not available (and not needed) for reflective originals.



The Secret of Image Quality – Dynamic Range and Resolution

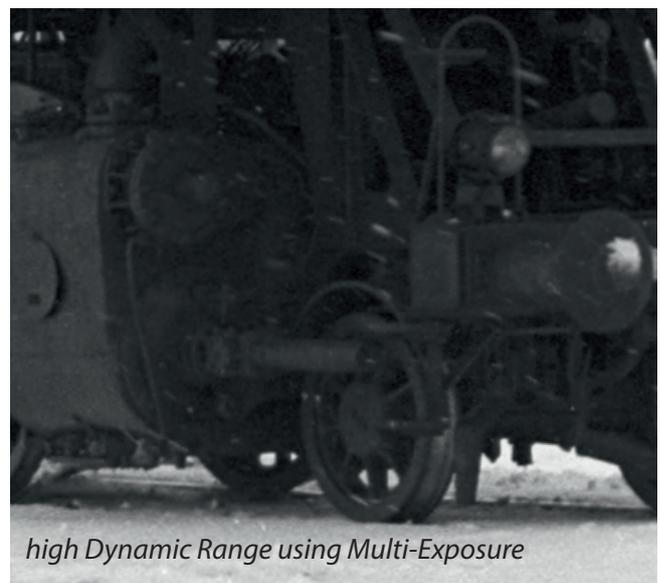


Increasing the resolution of a scan to improve image details and quality has its limits. For displaying an image on a monitor screen or printing it for a magazine, there will be no difference between scanning it with 300dpi or 1200dpi. Screen as well as printing press do not need a resolution beyond 300dpi, they simply cannot use it.

For best image quality and most details, a suiting scanning resolution, chosen depending on intended use, and a maximum Dynamic Range is the optimum combination.



Raising scanning resolution beyond a certain level does not help to get more image details. A computer screen for example, has a resolution of just 72dpi. There is no difference visible between a 300dpi and a 1200dpi scan.



A low Dynamic Range is equivalent with a small number of grayscales. Using SilverFast Multi-Exposure, many more shades of gray are captured, resulting in more image details.

The Secret of Image Quality – Dynamic Range and Resolution



What is behind this standard and what do the results mean in practice?

The ISO 21550:2004 specification defines methods for measuring and evaluating the Dynamic Range of electronic scanners for digitizing analog photographic material.

The values that result from the measurement are indicated as decade logarithm of the reciprocal of light transmittance. In plain language this means a scanner that is able to achieve a Dynamic Range of 2.0, can implement a contrast ratio of 100:1. Because it is a logarithmic function, an apparently small increase from 2.0 to 3.0 corresponds to an actual tenfold increase in the number of perceptible gray scales to 1000:1. The chart below shows a measurement values according to ISO 21550:2004 for the Epson Perfection V850 Pro.



35mm color scan

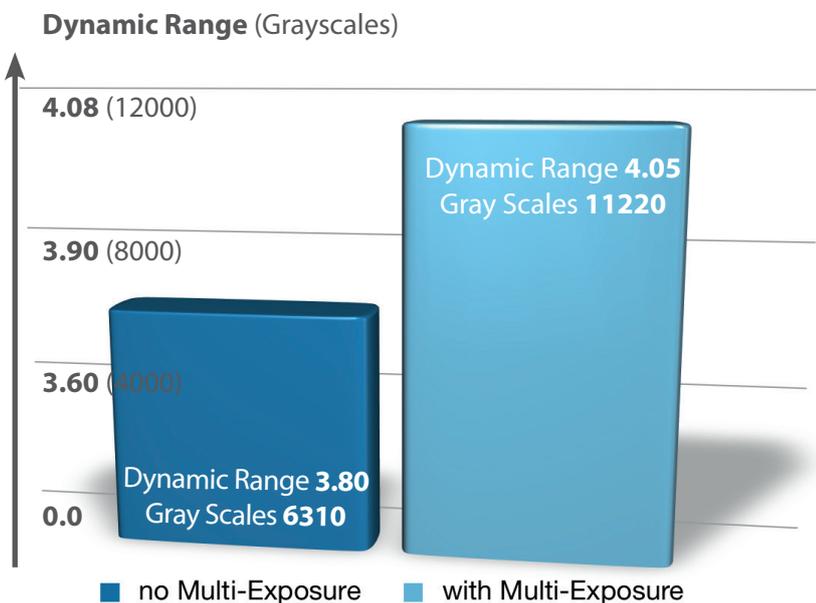
detail



Multi-Exposure



normal scan



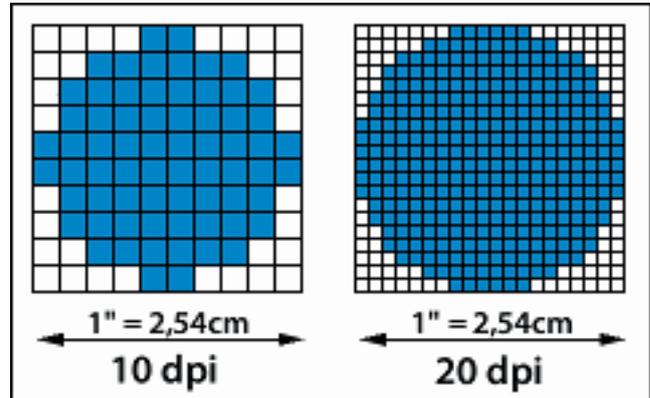
**Epson Perfection V850 Pro
Dynamic Range Increase
with SilverFast Multi-Exposure**

The Secret of Image Quality – Dynamic Range and Resolution

2. Scanner Resolution – CCD and Optical Resolution

dpi, what exactly is it ?

One of the most important parameters for describing the quality of a scanner is its resolution. Resolution is a measure of the accuracy with which an image can be recorded; it is usually denoted in dpi (dots per inch). A higher resolution allows to capture more image details. A scanner with a resolution of 1200 dpi can thus theoretically detect 1200 different points per inch (2.54 cm).



How a scanner is constructed

Both flatbed and film scanners generally record the image of the original line by line using one-dimensional CCD sensors (charge-coupled device). These light-sensitive components consist of many photocells arranged in a row. The more densely the CCD sensor is populated with individual photocells, the higher the resolution across the width. Lengthwise, a stepper motor is used to move the CCD sensor line by line across the original. The fineness of the steps this motor can take thus determines the lengthwise resolution.

The horizontal and vertical resolutions of a scanner, therefore, aren't necessarily the same. Usually the horizontal resolution, that is, the resolution of the CCD sensor, is lower. It should also be noted that a CCD sensor built into a flatbed scanner can resolve an original much less precisely than the same CCD sensor in a film scanner. The reason therefore is the different width for originals of about 20 cm for flatbed scanners and only about 3.5 cm for film scanners, both of which are projected onto the width of the sensor by lenses.

Physical vs. Optical Resolution

Modern scanners' data sheets often show amazingly high resolution values. Nowadays CCD sensors and the fine mechanisms of the stepper motors are accurate enough to permit these physical resolution values. **However, there are a series of factors, why the physical CCD resolution can usually not be used as the optical resolution for scanning an original.**

Mirrors and lenses project the large scanning area to the smaller CCD sensor. Interpolated resolution should never be seen as a usable optical resolution. Resolution of the stepper motor should not be confused with that of the CCD sensor, and the complex optics within the device can cause blurriness during the scan at the resolution limit, particularly at the edges of the image.

SilverFast Resolution Target (USAF 1951)

Based on the USAF-1951 standard, LaserSoft Imaging has developed the SilverFast Resolution Target to make the actually usable resolution of a scanner measurable. This target is a transparent original, which is suitable for either film or flatbed scanners with transparency unit.

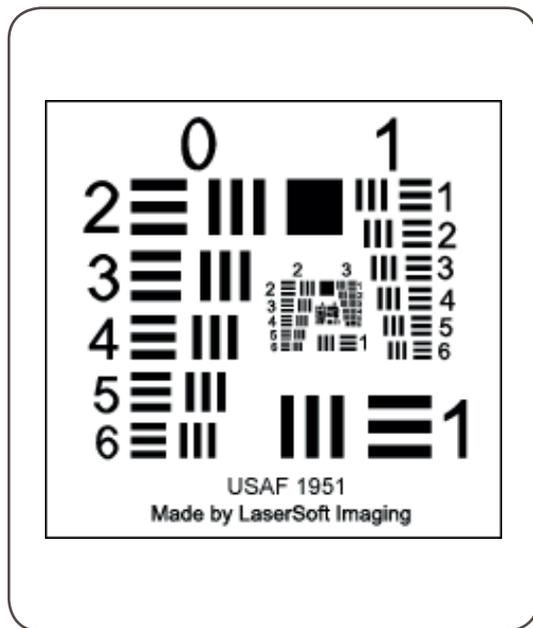
The Secret of Image Quality – Dynamic Range and Resolution

3. Scanner Resolution – SilverFast Resolution Target (USAF 1951)

Quick Manual for Determining the highest actual usable Resolution

Using SilverFast scanner software and the Resolution Target (USAF 1951) you can determine right away, which resolution to best use with your scanner.

Just follow these 5 simple step:



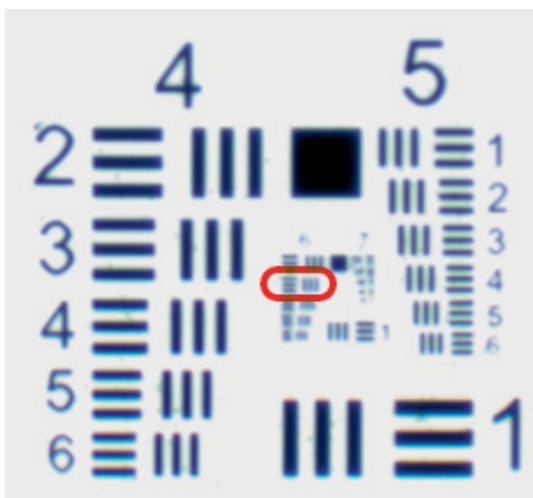
1. Place the Resolution Target in a slide holder in the center of your scanner's flatbed or in your film scanner.

2. Start your SilverFast scan software and do a transmissive raw-scan (48bit HDR) with the **maximum optical resolution** – therefore please always choose the next to last step of the resolution slider. (The last step chooses an **interpolated resolution**, which is inappropriate for this task.) You should not activate iSRD or Multi-Exposure.

3. Save your scan as a TIFF-file and open it in your Imaging software (SilverFast DC Pro or HDR). In order not to change the results it is important not to do any image manipulation such as rotation, etc.

4. Set the view to 100% (original view) and look for that element, where you can just differentiate two adjacent bars with your eyes, so you can just still recognize the white gaps.

Note: Many scanners have different resolutions in vertical and horizontal direction. For measuring those independently, the Resolution Target has horizontal and vertical oriented bars.



5. Read the element's number and group affiliation and determine the resolution of your scanner with this element and group numbers from the table below.

Example: The 3rd element of group 6 is marked in the sample picture, since the black bars of the 4th element cannot be differentiated against the white background. From the table we can determine a resolution of approximately 4096 dpi for the actual scanner.

SilverFast Auto IT8 Calibration – Consistent Colors

A color-calibrated scanner is the basis for presenting slides and photos on a screen or printing them with accurate colors. Using the award-winning SilverFast color calibration, this step is done effortlessly with only two mouse clicks.



before IT8 calibration



after IT8 calibration

Auto IT8 Calibration – Fully Automatic Scanner Calibration



Consistent colors and color management are often still a certain mystery for professionals and even more so for consumers. For some time achieving color consistent scans has been a field dedicated to professional color consultants and operators only. Using SilverFast Ai Studio 8 professionals and home users are enabled to benefit from consistent colors without the need to bother with the sophisticated process behind it – just by initially calibrating their scanners.

- Fully automatic calibration with just 2 mouse clicks
- For flatbed and film scanners
- Integrated barcode technology



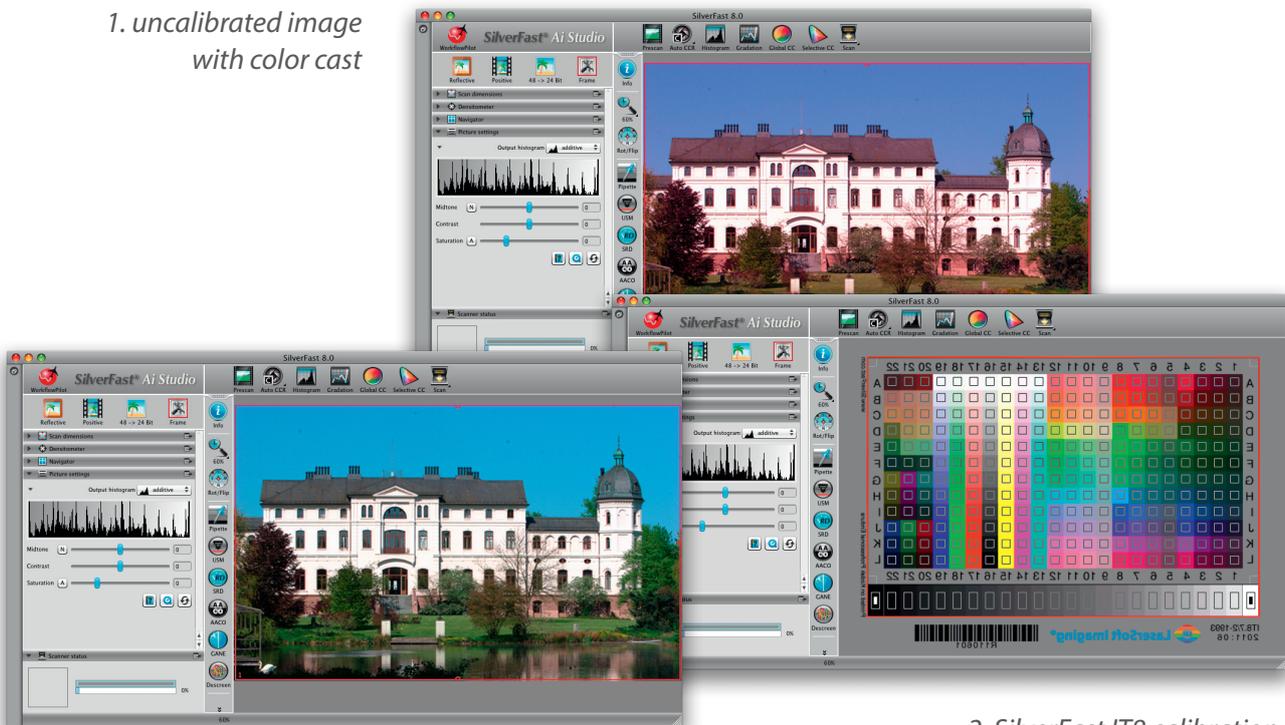
« The full version with IT8 calibration is magnificent! Color is perfect most every time [...] The IT8 calibration with the custom targets is by far my favorite tool. Color correction is a very time consuming characteristic of digital imaging and good scans equal less time in the processing of my images for faithful color rendition. »

Jerry Greer, professional photographer

SilverFast Auto IT8 Calibration – Consistent Colors

Due to the genuine combination of the automatic frame detection and the integrated barcode technology imprinted on LaserSoft Imaging’s IT8 Targets the complete calibration process runs fully automatic. Not even a prescan is required. Just place the original LaserSoft Imaging IT8 Target on the scanner and simply click the IT8 Calibration button. The ICC profile gets calculated for the individual scanner taking the scan of the target and some reference data into account.

1. uncalibrated image with color cast



2. SilverFast IT8 calibration

3. color calibrated image

High-Quality IT8 Targets from LaserSoft Imaging

The high-quality IT8 targets – transmissive as well as reflective – are manufactured in LaserSoft Imaging’s own production, where small batches and accuracy ensure the utmost precision.

SilverFast has been awarded by the EDP (European Digital Press Association) as the best color management software and fogra repeatedly confirmed best quality for LaserSoft Imaging’s IT8 targets.



SilverFast iSRD® - infrared Dust and Scratch Removal

Slides and negatives always have small dust particles and tiny scratches on them, even when handled very carefully. There are several software-based technologies to remove these defects more or less by considering the surrounding image information. LaserSoft Imaging has developed a more reliable solution for this problem:

iSRD - Smart Removal of Defects using infrared technology



Contrary to conventional techniques, SilverFast iSRD dust and scratch removal functionality is based on the hardware. It is using the scanner's infrared channel for defect detection. Infrared light has a very wide wave-length, which allows it to pass through film emulsion of negatives and slides without resistance, as opposed to scratches and dust particles that reflect it. iSRD utilizes this behavior as follows. The image is getting scanned two times - the first is the regular RGB scan and the second is the additional infrared scan that captures defects like dust and scratches only. Then the calculative dust and scratch removal takes effect, only where the infrared channel has detected any defects without losing any important details.



without iSRD



with iSRD



« I'm excited about the future of SilverFast, especially the new 64-bit HDRi feature. Finally, photographers have the ability to scan the full dynamic range of their film, with the added benefit of scanning the infrared channel for dust & scratch removal. [...] The performance gains of iSRD over Digital ICE are impressive, and the quality of the scans amazes not only me, but my clients as well. »

Timothy Gray, professional photographer

SilverFast iSRD® vs. Digital ICE®

Digital ICE is a similar technology to remove dust and scratches developed by Kodak's Austin Development Center. Some scanner manufacturers still use ICE for their devices. But where ICE is a technology that hasn't seen many improvements over the years, iSRD is always up-to-date due to regular updates.

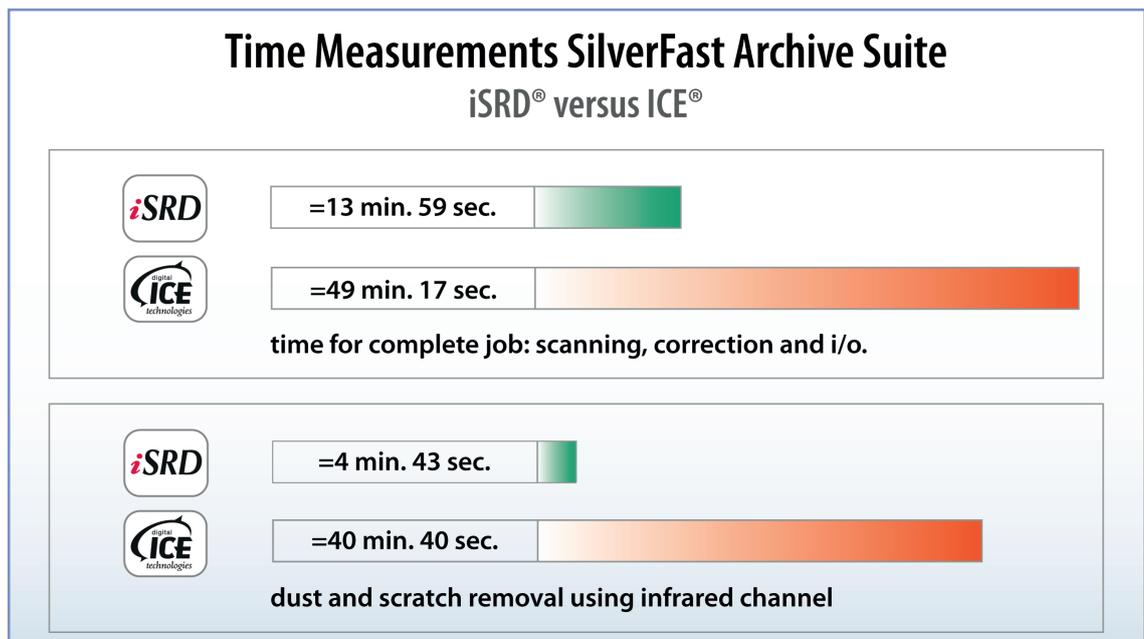
A major advantage of iSRD over Digital ICE is speed on modern 64bit multi-core systems.

SilverFast iSRD is faster than ICE



Algorithms to automatically detect and remove defects like fingerprints or dust and scratches from image data are elaborate software technology. A huge quantity of very complex mathematical operations have to be calculated. For high resolution scans this process takes several minutes even on actual desktop computers - minutes the user today often is not willing to wait.

SilverFast iSRD is way faster than ICE using multi-core power. Where iSRD is a 64bit application, ICE is just 32bit and does not benefit from actual 64bit systems. We have benchmarked both technologies using an very huge images of 1,3 GB. See the results below:



*4x5 slide (positive transparency)
Mac OSX Leopard (10.5.8)
Processor 8 x 2,8 GHz Intel Xeon
File size 1,3 GB*

SilverFast iSRD® vs. Digital ICE®



Speed is not the only difference between SilverFast iSRD and Digital ICE. There are many other important distinguishing marks clearly showing the superior functionality of SilverFast iSRD. Digital ICE is either 'on' or 'off'; where iSRD is controllable by the user - featuring easy controls for beginners and full controls with possibility to create masks on different layers for experts.

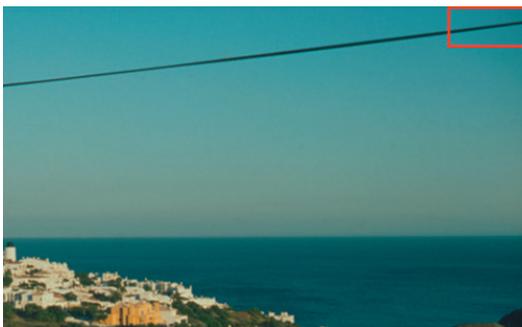
Features Comparison of iSRD and ICE

SilverFast iSRD

- automatic and/or custom settings
- standard controls: 1 slider
- expert controls: full controls, correction width several masks and layers, combinable with software-based SRD
- highly detailed preview of iSRD effects
- 64Bit HDRi export
- recommended for Kodachrome slides

Digital ICE

- automatic settings only
- no controls
- no controls
- no preview
- no export
- not suitable for Kodachrome slides



Same slide scanned twice, the detail shows a part of an electric cable.



detail of ICE correction



detail of iSRD correction

SilverFast iSRD® vs. Digital ICE®

SilverFast iSRD is the technically matured infrared dust and scratch removal. In terms of quality, speed and functionality, it wins every comparison with Digital ICE. Meanwhile iSRD has made a name for itself. Customers are directly asking for the availability of iSRD for their scanners as well as professional photographers are recommending it for an efficient workflow.

Summary



- Speed: SilverFast iSRD on multi-core systems is much faster than ICE.
- Speed: The «SilverFast 64bit HDRi Workflow» is much faster using iSRD than using ICE.
- Speed: iSRD is a 64bit application, where ICE is just 32bit.
- Quality of correction is better with iSRD than with ICE, in any case.
- The user has full control with iSRD - no control with ICE.
- iSRD can be used for Kodachrome slides - ICE can not.



without iSRD



with iSRD



« iSRD dust and scratch removal provides the best set of working procedures I've ever seen for safely and effectively removing debris from scanned images with zero or absolutely minimal impact on image detail. The enabling condition is access to the scanner's infrared channel, which is used for identifying debris and distinguishing it from image detail. »

Mark Segal, expert photographer and editor of Luminous Landscape

SilverFast® Archive Suite 8 - The Optimized Archiving Solution

LaserSoft Imaging® presents a unique solution for fast and easy archiving of slides, negatives and reflective originals. With the new SilverFast Archive Suite 8 you get a bundle of two programs: SilverFast Ai Studio 8 and SilverFast HDR Studio 8. Since both of them are equipped with optimized functions you will enjoy maximum processing speed as well as an efficient workflow. An integrated color management system, which meets professional standards, completes this convincing package. The Archive Suite is available as an upgrade for SilverFast SE Plus 8 included with the Perfection V850 Pro.

SilverFast Ai Studio 8

Using the intelligent frame-finding option and the fast saving of originals into lossless HDR file formats (48bit/16bit RAW data) enables you to digitize whole image collections quickly. That's how you effectively prevent your pictures from being destroyed or getting lost. The combination of SilverFast Multi-Exposure® and patented Auto IT8 Calibration provides the best quality and safety possible. Since calibration data gets embedded into the files, you don't need to calibrate again, when opening and processing the files with SilverFast HDR Studio 8 afterwards. A permanent gamma value synchronization of the 48bit/16bit data secures predictable and consistent brightness and color reproduction between SilverFast Ai Studio 8 and SilverFast HDR Studio 8.

SilverFast HDR Studio 8

After scanning with SilverFast Ai Studio 8 you convert the RAW files with SilverFast HDR Studio 8. The conversion process uses the HiRePP function. HiRepp means stunning fast opening of huge files in real time and being able to work on them almost instantly. Work with your RAWs at your workstation or in an external environment - or send them to Hawaii to have them processed there. The SilverFast Archive Suite 8 will enable you to perform all the necessary steps for the professional and lossless digital backup of your treasured collections (which may have taken years or even decades to establish) on your own, without having to give them up to someone else.

SilverFast® Archive Suite 8 with optimized Workflow

Fastest Image Digitization into RAW Files with SilverFast Ai Studio 8

Batch Scan into 64/ 48 bit HDR(i)/ DNG Formats

including

- Auto Frame Detection
- iSRD® infrared scan for dust and scratch removal
- SilverFast Multi-Exposure® for maximum Dynamic Range

Virtual Light Table for Browsing scanned Images SilverFast VLT

Browse, open, sort and rate scanned RAW Files

Select Images for Optimization and add them to the JobManager

Fastest Processing and Optimization of Image Data with SilverFast HDR Studio 8

Quick Image Correction with intelligent Image Automatics

Individual Image Optimization with SilverFast Tools

Batch Process and Output all Images

« If you are looking for a simple, fast and efficient way to archive your precious family slides and negatives, I highly recommend SilverFast Archive Suite from LaserSoft Imaging. »

John Barclay, professional photographer



Archiving Transparencies with the Perfection V850 Pro

The Epson Perfection V850 Pro is designed as a A4 flatbed scanner for graphic arts scanning. In addition, with its optional transparency unit, it is also an archiving solution for slides, negatives and filmstrips as well. Using different film holders, the V850 batch scans up to twenty-four 35mm negatives, fifteen 35mm slides, four 4x5" transparencies or three medium-format transparencies.

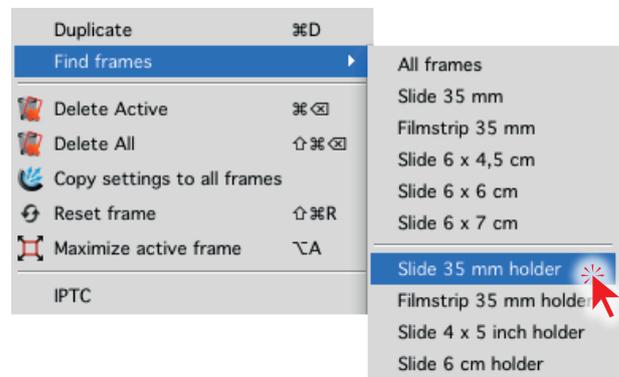
Workflow for archiving 35mm slides as 64bit HDRi RAW data

SilverFast's 64bit HDRi archive file format contains any readable image information. This RAW format is the best choice to preserve and archive film material. Image optimization and processing can be done any time later with SilverFast HDR Studio 8. For maximum Dynamic Range, SilverFast Multi-Exposure must be activated.

Up to 15 slides find place on the flatbed using an Epson film holders. An initial color calibration is recommended.

After a Prescan is performed, SilverFast's automatic Frame Detection can be used to detect and frame all slides, just with a single click.

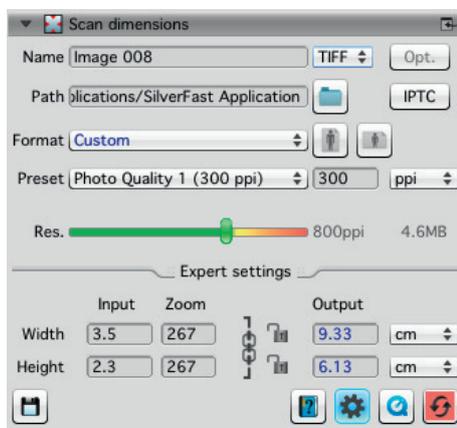
With all slides framed, the next step is to select a single frame, to adjust a few settings and to copy these settings to all frames.



Archiving Transparencies with the Perfection V850 Pro

For archiving HDR RAW data, select « 64 Bit HDRi » as output color format. Select « 32 Bit HDRi » for scanning grayscale transparencies. Image optimization tools and filters, like Selective Color Correction or Unsharp Masking, are now shown grayed out and cannot be activated. Image optimization is done later with SilverFast HDR Studio 8.

You can optionally turn on Multi-Exposure in the vertical toolbar. This will increase scanning time, but also the scanner's Dynamic Range.

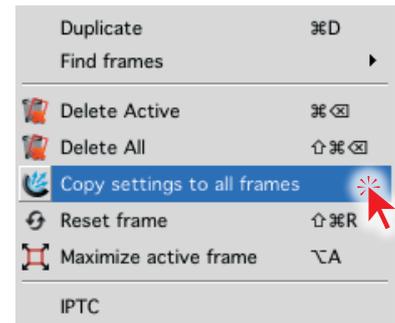
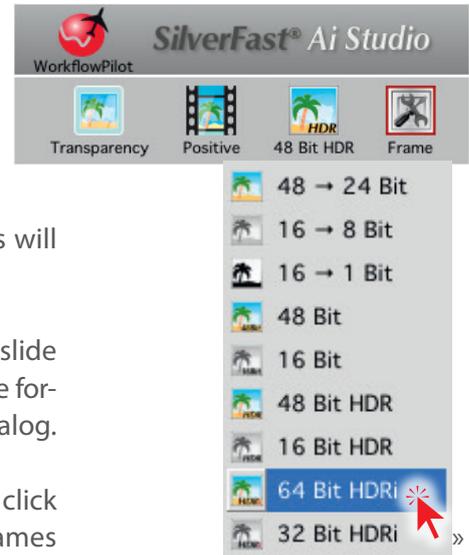


Adjust basic settings for your slide like file name, resolution and file format in « Scan dimensions » dialog.

Open the « Frame » menu and click on « Copy settings to all frames » to assign this frame's settings to all scan frames.

Start the batch scan and SilverFast will create individual 64bit HDRi files for all slides on the flatbed. This is the most easiest way to protect

analog image collections against loss or destruction. Image optimization can be done later depending on individual needs.



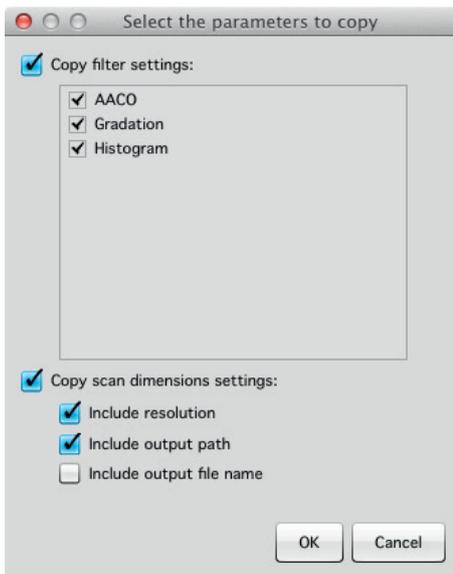
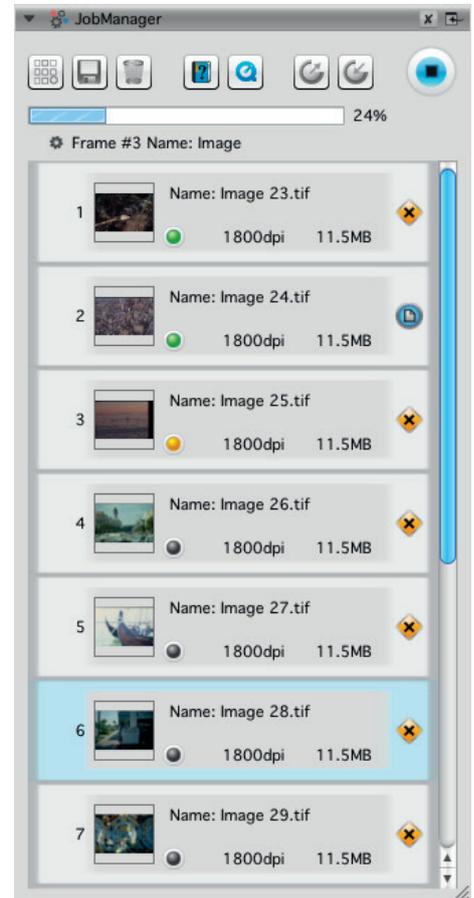
Archiving Transparencies with the Perfection V850 Pro

Workflow for batch scanning and optimizing 35mm slides



The SilverFast JobManager® is the perfect tool for optimizing images immediately within the batch scanning process. Like for the RAW data archiving workflow, a color calibration can be done first. A following Prescan shows an overview of the flatbed and SilverFast's automatic Frame Detection detects and frames all slides.

Every scan frame, also referred to as a job, can have its individual resolution and image optimization settings. The JobManager shows a list of all jobs containing preview thumbnails, file names and other basic information. Single jobs or complete job lists can be saved and reopened later on.



A main feature, making it so comfortable and efficient to work with the JobManager, is its possibility to copy and paste frame settings from one job to another, or to several other jobs. If images are similar in tone, the same modifications on histogram and gradation curve may apply. Thus, a lot of time can be saved by adjusting settings just once, but applying them to many images. The user can thereby determine, which image optimization settings he wants to be copied to other jobs, selecting all or just some of the active SilverFast tools.



SilverFast SE Plus 8 Highlights

LaserSoft Imaging has gained 25 years experience in the development of digital imaging software that now has been incorporated in the redevelopment of scanner software SilverFast. In combination with a variety of innovative ideas and the use of current software technology, SilverFast 8 has been created. We can proudly present our best scanner software ever.

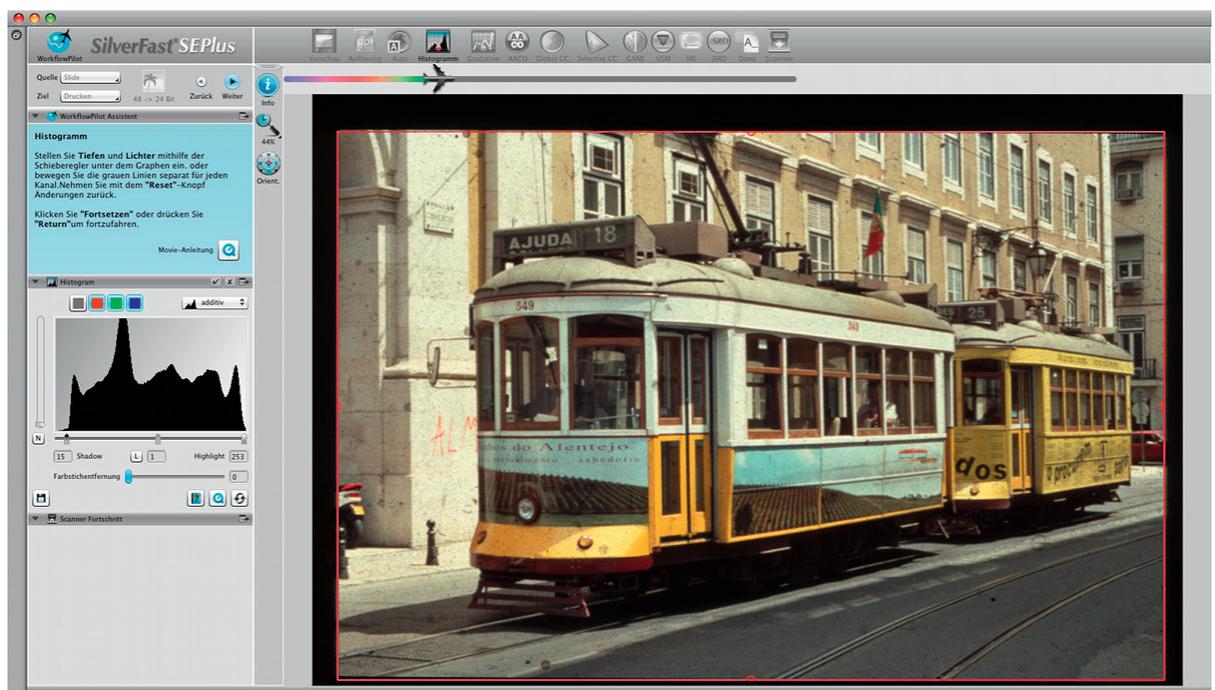
Features of SilverFast SE Plus 8 – each a unique highlight



WorkflowPilot® - The patent-pending WorkflowPilot is an essential core element of SilverFast 8. This novel feature, which guides the user as a kind of wizard in the correct order through all processing steps required for his individual workflow, is unique in the world. Depending on which material should be digitized for what purpose, there is a different workflow that will be worked on step by step after starting the WorkflowPilot. In addition, the user is supported by the wizard with informational texts and QuickTime movies that are directly callable from within the software. The WorkflowPilot prevents potential errors during the operation, which could result in applying various tools in an incorrect order. Of course, the advanced user can also work completely free without using the WorkflowPilot.



SilverFast GUI - The user interface of SilverFast 8 is newly developed by current standards, for the user can operate all major functions quickly and easily. The GUI also offers the possibility to flexibly arrange the control elements anywhere on the screen to fit personal preferences easily by dragging and dropping using the mouse. This proves especially useful when working with two monitors. In WorkflowPilot mode, the required tool dialogs automatically open in the foreground.





Preview Concept - The SilverFast Preview Concept allows to immediately see a preview of the final scan result of any adjusted setting. Even the results of complicated image enhancement functions, such as iSRD for infrared-based dust and scratch removal and Unsharp Masking USM, can be assessed with SilverFast 8 in advance. A 100% zoom facilitates to properly evaluate and set the parameters of these tools.



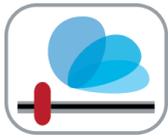
SCC® - A Selective Color Correction is achieved as quick as a flash in a simple manner. One mouse click onto the object to automatically recognize the color to be changed. Then the color correction is easily achieved with either HSL sliders, the color wheel or with presets. Thus, SilverFast's selective color correction is particularly intuitive. For more complicated cases, there is the possibility to use scalable vector masks to perform independent color corrections on 4 layers.



Compatibility - SilverFast 8 is compatible with Windows 7, Vista and XP, and it runs natively on Mac OS X systems from version 10.5 (including 10.7 Lion). 32bit systems are as well supported as 64bit machines. The support of multi-core processors and cleverly developed calculation rules allow significant speed advantages - in some cases, SilverFast 8 is almost up to 40 times faster than the previous version.



Multi-Tasking - SilverFast 8 is multitasking capable. Thus, the user is never forced to interrupt his workflow in order to wait for the scanner or a complex SilverFast calculation to get ready. For example, if several originals should be scanned in a row, the user can already set the image optimization adjustments of the second scan, while the scanner captures the first original.



Multi-Exposure® (LaserSoft Imaging Patent) - Multi-Exposure is a revolutionary technology by LaserSoft Imaging for rapidly increasing a scanner's dynamic range. Scanning the same original twice using different exposure times clearly reveals more details and minimizes image noise.



Auto Adjust - Image optimization with just a single mouse click is, what the intelligent algorithms of SilverFast's Auto Adjust make possible. These automatic image optimization is a welcome help not just for beginners. The advanced user can customize the image automatics according to his needs.



iSRD® - iSRD is a particularly reliable and comprehensive solution to remove dust and scratches with infrared technology. With a preview functionality and all parameters controllable in combination with the possibility to work on different layers, iSRD stands apart from similar tools such as ICE.



Descreening - This tool removes the printing screen every printed original contains for production reasons. Thus, unwanted Moiré effects are avoided. SilverFast's Descreening is the only tool of its kind recognizing and preserving printed text.



NegaFix® - With well over 120 film profiles available, NegaFix guarantees best results and color fidelity in the conversion of negatives to positives.





USM - The Unsharp Masking USM is a sophisticated tool for luminance-based calculation of detail contrast in order to improve image sharpness without compromising color saturation and tonal values of the image. With the preview feature, the user can already assess the resulting sharpness before scanning.



Auto Frame Alignment® - When positioning multiple images on the scanner, the Auto Frame Alignment in combination with the Automatic Frame Detection is especially helpful. It will not only find and frame the originals, but it will also align them in a rectangular order with a single mouse click.



SC2G® - The SC2G tool converts color images into vivid, high-contrast grayscale images. The user here has the ability to assign a matching shade of gray to each color or himself.



QuickTime Movies - The SilverFast movies are very helpful for beginners. They can be opened directly from within the software dialogs the user is currently working with.



Neutral Pipette (MidPip) - By setting up to 4 neutral points, even complex color casts can be removed safely. Further adjustment options of these neutral points provide total control over this process for the user.



Kodachrome Features - Kodachrome film is particularly difficult to scan. SilverFast offers efficient tools to scan Kodachrome slides in true color, with maximum Dynamic Range and free of blue cast, dust and scratches.





System Requirements

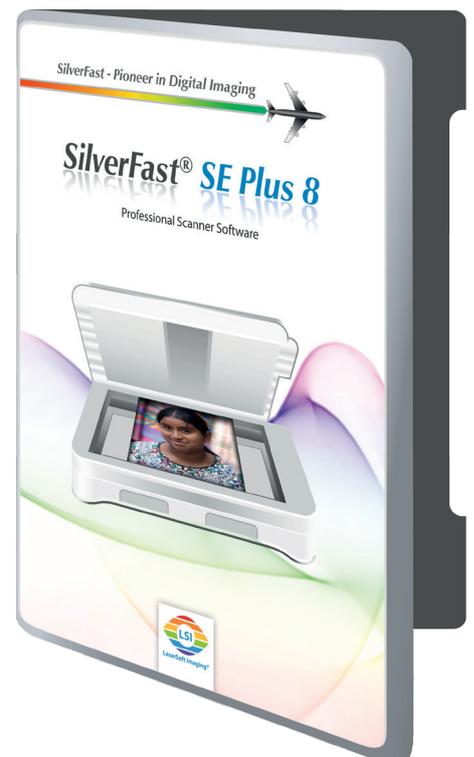
SilverFast 8 is available for Mac and PC systems. The following minimum equipment is required to use SilverFast 8 without restrictions:

- OS: Apple Mac OS X from 10.5 (Intel Mac only)
or Windows XP, Vista, Windows 7 or 8
- Processor: min: 2 GHz recommended: Dual Core > 2,5 GHz
- RAM: min: 2 GB recommended: 4 GB
- HDD: min: 10 GB recommended: 25 GB
- DVD drive or internet connection
- Flatbed or film scanner, which is supported by SilverFast 8
- Recommended: Color calibrated monitor

Available Languages

SilverFast 8 is supporting the following nine languages:

- | | | |
|--------------|---|-----------|
| • Chinese |  | 中國 |
| • English |  | ENGLISH |
| • French |  | FRANÇAIS |
| • German |  | DEUTSCH |
| • Italian |  | ITALIANO |
| • Japanese |  | 日本語 |
| • Portuguese |  | PORTUGUÊS |
| • Russian |  | РУССКИЙ |
| • Spanish |  | ESPAÑOL |



Want to learn more?

Visit the SilverFast homepage www.SilverFast.com to learn more about the software including: awards won, key features, product details, screenshots and more.

About SilverFast and LaserSoft Imaging

SilverFast Software

The SilverFast range of products includes software for scanners, digital cameras, printers and for HDR imaging, as well as several specialized solutions such as the connection of high-end Heidelberg drum scanners to modern operating systems. LaserSoft Imaging produces very high quality targets for IT8 color calibration. Many well-known scanner manufacturers bundle their products with SilverFast.

Company Background

LaserSoft Imaging is renowned worldwide as a pioneer in the field of scanner and imaging software – both in the area of private and professional usage. The core product SilverFast® manages to regularly come up with advanced technical innovations.

Physicist and visionary Karl-Heinz Zahorsky founded LaserSoft Imaging in 1986 and developed the concept of SilverFast in 1994. Mr. Zahorsky, involved in the early days of desktop imaging and color management on the Macintosh, was the first promoter for products such as video digitizers, including Pixelogic's "ProViz and Truvel's "TrueScan", which was the first professional color scanner for the Macintosh. It was first shown at CeBIT 1988 in Hannover, where LaserSoft Imaging was invited by Apple Computer. Today, Mr. Zahorsky, is the Chief Executive Officer of LaserSoft Imaging.

LaserSoft Imaging's headquarters is located in the baltic city of Kiel, the capital of the most northern German federal state of Schleswig-Holstein. Kiel is also known as the European sailing city with international annual sailing events. A subsidiary for the Americas was opened in Sarasota, Florida, in 1997.

- 1988 - LaserSoft Imaging is invited to CeBIT by Apple
- 1995 - Presentation of the first SilverFast scanner software at CeBIT
- 1998 - SilverFast features IT8 Color Calibration
- 2002 - LaserSoft Imaging becomes joint stock company LaserSoft Imaging AG
- 2008 - Patented technology of Auto IT8 Calibration and Multi-Exposure
- 2008 - EDP award as „Best Color Management Software of the Year 2008“
- 2009 - 64bit support and new HDRi format including infrared data
- 2011 - SilverFast 8 is released as a completely redeveloped software
- 2012 - SilverFast HDR 8 is released
- 2013 - Printing solution PrinTao 8 for Epson and Canon large format printers
- 2014 - New SilverFast Archive Suite 8 including virtual light table VLT

Users

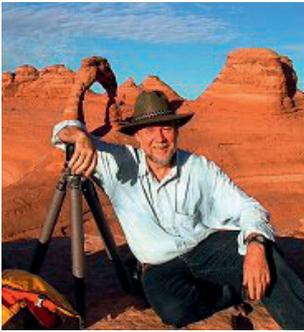
SilverFast is the most successful scanner software in the world. The comfortable handling and the professional quality of the results are two of the main reasons for SilverFast's popularity in the different user groups. Some typical user groups are the following:

- Home users who want to preserve their parents' slide collection
- Advanced amateur photographers who value high quality
- Professional photographers and editors who must also pay attention to efficiency
- Museums, universities and many well-known small and large businesses

SilverFast



Editors, Photographers and Press about SilverFast for Epson



Bruce Dale has worked exclusively for the National Geographic Magazine for 30 years. During this time he has travelled to 75 countries and shot more than 2000 photos that appeared in the magazine. Bruce uses SilverFast since several years for scanning his photographs. He likes the excellent control and output.

« SilverFast has been my standard for scanning software during the past 7 years. It provides excellent output and having a uniform software system for all my digital devices is a real time saver in the long run. Excellent control and uniformity across all my scanners. »

Bruce Dale, photographer



« Another solution we've long recommended is LaserSoft Imaging's SilverFast Ai Studio. It's worth purchasing separately. The latest version creates a high density file from two samples (one exposed for the highlights and another for shadow detail) that is faster and more effective than most multi-pass approaches. It can also automatically

calibrate the scanner using a special IT8 target barcoded by LaserSoft Imaging. We don't use any other software to test scanners. »

Mike Pasini for imaging resource



« The full version with IT8 calibration is magnificent! [...] The IT8 calibration with the custom targets is by far my favorite tool. Color correction is a very time consuming characteristic of digital imaging. Good scans equal less time processing my images for true color. »

Jerry Greer, photographer

SilverFast Archive Suite 8

Preserve the World Cultural Heritage of Analog Image Originals, create your Digital Image Archive with SilverFast Software.



VLT
New Virtual Light Table included



DNG
Adobe Digital Negative



Watch Movie



Images scanned with **EPSON** Perfection Scanner

Save Your Memories and Scan Your Images Efficiently and Easy using the Powerful and Worldwide Unique SilverFast Tools.



before



after

Auto IT8 Calibration –
Automatically color calibrate your Scanner in 2 Minutes



before



after

Multi-Exposure – Increasing Dynamic Range for more Image Details and less Image Noise



before



after

iSRD –
Infrared-based Dust and Scratch Removal



www.SilverFast.com – Pioneer & Expert in Digital Imaging