

COVERGOLD



3D
ready



CRUSE Scanners are factory-equipped to detect surface textures in high quality.

Synchrortable Scanner

Perfect for all Applications

The CRUSE Synchrortable Scanner has been the absolute industry standard for years and offers the ultimate solution for digitally capturing materials for wooden floors, furniture design, ceramic tiles and laminates, wallpaper, and fabrics in the design and decoration industry.

For high-quality scans that both preserve the original textures and maximum color accuracy, which requires extensive lighting options, nothing can compete with a CRUSE Synchrortable Scanner.

We are constantly developing the Synchrortable Scanner series to meet the unique requirements of the industry and equipping it with new, innovative functions.

The high-resolution CMOS sensor scans with the highest possible quality. It guarantees maximum sharpness and excellent reproduction, even with large items.

The perfect color management and uniform illumination across the entire scanning range makes

the Synchrortable Scanner a high-end scanner for the highest demands.

The well-known and proven CRUSE scanning technology has been used for years in art reproduction and in the high-quality digitization of valuable documents in archives, cadastral offices, libraries, and museums.

Digital service providers also use our scanners in various sizes to offer their customers the best possible scan quality on the market.

Technical Features

- 15K CMOS trilinear sensor with 5.6 µm pixel size
- Resolutions up to 2000 ppi possible
- Table with vacuum function and adjustable suction force
- Heavy load up to 450 kg (992 lbs)
- Different light modes: left + right, texture effect, light angle device, rear light
- Color management with CRUSE Professional Profile
- Variable Reproduction Angle

Software

CRUSE Design Studio with the following modules:

- Scan Software
- Template Manager
- Image Stacking
- Factory
- Hybrid
- Printer Profiling

Areas of Application

Decor and Design Industries

The CRUSE Synchronizable Scanner has always been the industry standard for decor and design. It offers the optimal solution for digitally capturing materials for wooden floors, furniture design, ceramic tiles and laminates, wallpaper production, and fabrics.

CRUSE scanners deliver high-quality scans of original materials. It puts emphasis on uniform textures and structures across the whole scan surface, while also preserving exact color differences and accuracy in very dark and very bright areas.



With unique options such as a Variable Reproduction Angle, Light Angle Device, and LED Rear Light, the Synchronizable has been constantly improved to meet the special requirements in the decor and design sector.

Art Reproduction



CRUSE scanners are equipped with state-of-the-art technology to digitize and reproduce originals such as photographs, watercolors, oil paintings, graphic collections, and collages in high fidelity. The digital copies are absolutely faithful to the original's color and reproducible in high resolution. The lighting intensity on precious materials is minimal thanks to the latest LED technology.

With our Factory software it is even possible to capture and calculate height differences in the source materials to be reproduced on special 3D printing systems. Thus, every brushstroke of the original is not only visible, but touchable.

Our systems also provide a basis for dealing with cultural heritage and are aimed for institutions such as museums, galleries, auction houses, artists, and art collectors. We invite you to take a look at our scanners, to discover the best possible solution for your needs.

Archives and Libraries

The Synchronable Scanner with integrated book cradle is the best option to digitize rare and valuable materials such as hardcover books and documents. Our automatic book cradle complements the gentle scanning process with minimal lighting intensity and considerably accelerates the scanning process. Since the fully motorized book cradle minimizes manual intervention, it ensures error-free and fast digitization.

The Synchronable can also be operated without the book cradle, offering the ability to digitize paintings, documents, old city maps, etc. at the highest technical level. Design Studio facilitates the scanning process and even makes complete workflows possible for inexperienced users. The Synchronable with book cradle is a real all-rounder which is not only interesting for libraries and archives, but also for museums and art reproduction companies that reproduce your originals, preserve them for posterity, or display them online.



Museums



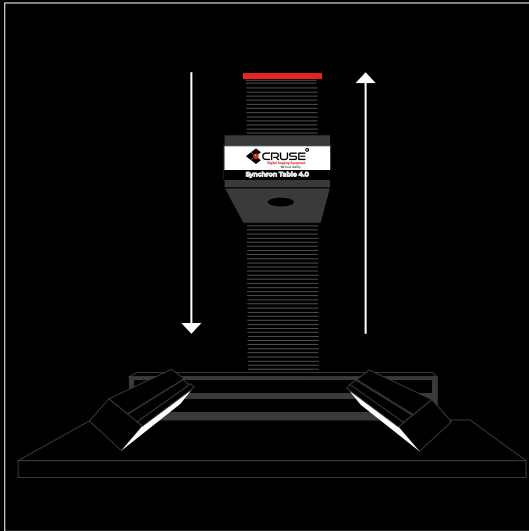
Original art pieces from museums pose diverse challenges because they require a wide range of resolution and variable light adjustment options. For this reason, it is important to find the best scanning and workflow solutions that can be adjusted and executed within the scanning process, even for inexperienced users.

Coins, seals, or other items can be digitized with individual light settings and very high resolution. Other exhibits like paintings are often larger than A0 size that is the maximum for conventional scanners. Glass plate negatives and slides can be scanned with a light box. These also frequently

require high resolutions. Thus, the CRUSE Synchronable Scanner is a particularly versatile scanning solution for a wide range of applications. It offers maximum quality for digital preservation and reproduction of your exhibits. Features like absolute color fidelity, variable light settings, and user-friendly software, simplify the digitization process. Originals are exposed to the lowest possible lighting intensity.

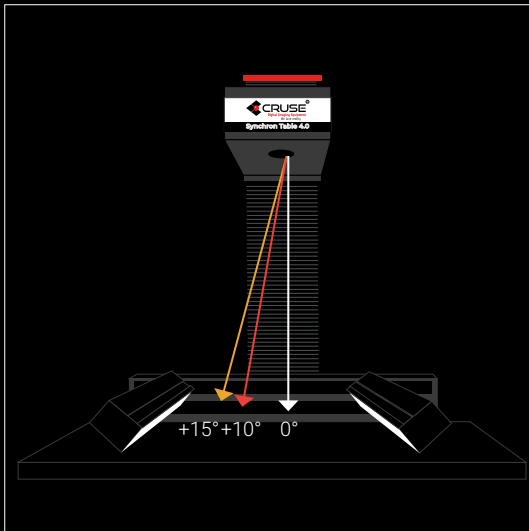
The Synchronable is modular and expandable, available with table sizes of up to 1.5 x 2.5 m (59 x 98 in).

Features



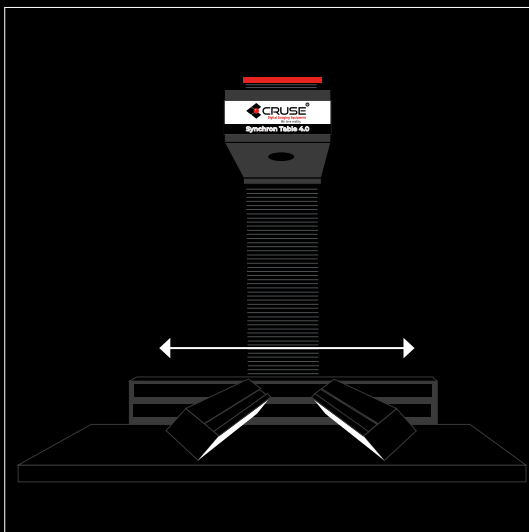
Variable Resolution

The vertically movable camera head allows variable optical scan resolutions up to 2000 ppi. The closer the camera head gets to the original, the higher the resolution. Focusing is fully automatic.



Variable Reproduction Angle

The horizontal movement of the sensor allows for a realistic viewing angle from different positions. This makes even the smallest differences on the surface and gloss effects visible.



Variable Texture Effect

Different horizontal positions of the lamps enhance the texture effects.

Light Settings & Effects

Left + Right

The homogeneous lighting from the left and right sides perfectly illuminate the original. Since textures on the original cast no shadow on the surface, it produces a flat look.



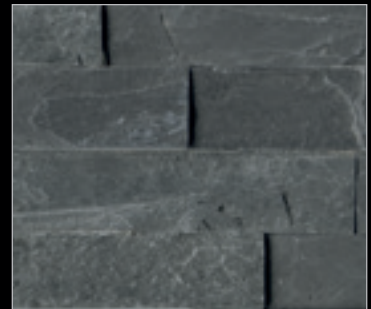
Texture Effect

The one-sided illumination (left or right) creates shading effects, which reveal textures. The scan gets a three-dimensional impression.



Variable Texture Effect

The texture effect can be enhanced or reduced by adjusting the position of the lamps accordingly. This allows the effect to be variable.



Light Angle Device

In Light Angle Device modes, the light is vertically deflected by 35°. This diagonal illumination visualizes vertical and horizontal structures.



Rear Light

The Rear Light LED option adds a temperature controlled LED light source that creates a strong 3D effect in the scan results. This very flat directed light emphasizes horizontal textures in the original and thus creates a unique look.



Hardware Options

Vacuum Table

CRUSE Synchronable scanners can be equipped with a vacuum table. The suction force is adjustable based on the material. This function helps with scanning curled and non-flat items.

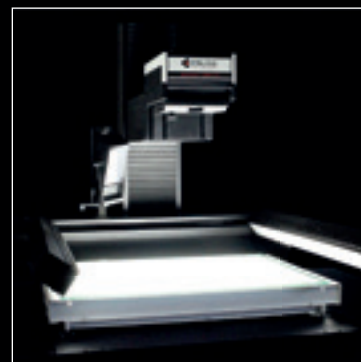
Additional magnetic strips help to fix the materials.



Light Box

With the Light Box option, film and transparent items can be scanned.

The Light Box is available in different sizes.



High Resolution Kit

With the High Resolution Kit, even the smallest details will not be missed. An additional lens mounted on a turntable gives significantly higher optical resolutions. This increases the maximum standard resolution from 1000 ppi to 2000 ppi. It also allows extreme enlargement of reproductions without loss of quality.



Security System

Protect your scanner and valuable materials with the new security system. The system constantly checks the distances between the lamps and the originals during the scanning process. If your valuable document gets too close to the lamps, the security system stops scanning immediately and prevents collisions with the LED lamps, damage to the scanner, and damage to the original.



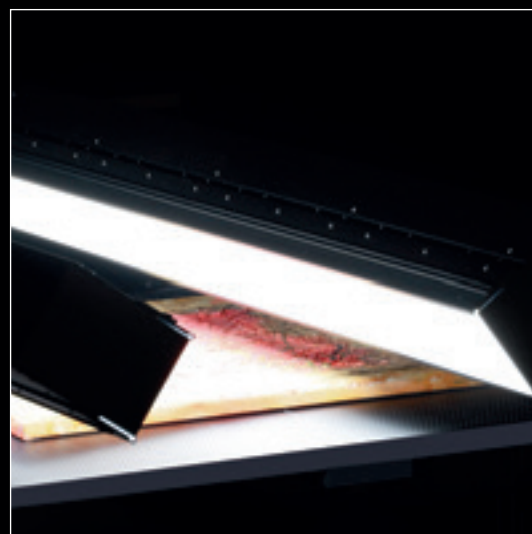
Available Standard Sizes for the Synchronatable

Model/Type	Table Size	Pixels	Resolution at maximum area	Resolution with standard lens	Resolution with High Resolution Kit
CS-130 ST	70 x 100 cm	10000	360 ppi	optical 1000 ppi adjustable 2000 ppi	optical 2000 ppi adjustable 4000 ppi
CS-155 ST	92 x 122 cm	15000	400 ppi	optical 1000 ppi adjustable 2000 ppi	optical 2000 ppi adjustable 4000 ppi
CS-185 ST	100 x 150 cm	15000	380 ppi	optical 1000 ppi adjustable 2000 ppi	optical 2000 ppi adjustable 4000 ppi
CS-220 ST	120 x 210 cm	15000	300 ppi	optical 1000 ppi adjustable 2000 ppi	optical 2000 ppi adjustable 4000 ppi
CS-295 ST	150 x 250 cm	15000	250 ppi	optical 1000 ppi adjustable 2000 ppi	optical 2000 ppi adjustable 4000 ppi

Light Quality and Color Accuracy

Many factors affect color reproduction, including the interaction of LED spectral distribution, optics, the quality of the built-in lens, and camera noise. All these factors must be carefully designed and tuned.

All CRUSE scanners are equipped with high-quality components whose interaction guarantees consistent illumination of the originals and exact color reproduction on a wide variety of printing systems. With the CRUSE color management and the printer profiling software, you get a complete package for reproducing your scans at the highest level.



Color Management

The color management of the CRUSE scanners, developed in 2010 and continuously improved since then, consists of two components: the CRUSE Professional Profile software and a specifically developed profiling target (CRUSE Professional Target). This target consists of more than 800 color patches of different materials (common targets for scanner calibration usually consist of 96 or less color patches).

Our highly specialized software selects color samples out of more than 20,000 spectrally measured patches, collected in a database. These enable the scanner to cover the largest possible color gamut for any type of material, thus achieving the highest possible color accuracy.



Each CRUSE Professional Target is manually produced and spectrally measured for accuracy. This profiling target is not available for purchase, but a one-time calibration of the CRUSE scanner is sufficient to guarantee permanently perfect results.

With the very large color gamut and metamerism the CRUSE Professional Target is very demanding compared to other profiling targets. With this strict target, CRUSE scanners achieve a color accuracy of $\Delta E < 1.0$. On standard profiling targets, the ΔE value is even significantly lower than 1.0. To put this into perspective, the average human eye cannot perceive deviations below 1.

“Experiments were performed to analyze the color accuracy of five camera systems used for museum image-archiving applications [...] Only the [experimental] Sinar and CRUSE systems produced acceptable results, systems optimized for archival imaging [...]”

Quoted from: Analysis of Color Management Default Camera Profiles for Museum Imaging Applications

by Roy S. Berns, Rochester Institute of Technology, and Stanley Smith, J. Paul Getty Museum (USA)



Highest quality and longevity – without compromises!

With all new improvements, we are always true to our standards and make no compromises in the quality of the scans.

On the hardware side, for example, we stay committed to moving the original table beneath the camera. This is far less sensitive than having a camera move over the original while scanning.

Since the size of the pixels in the sensor are significantly smaller than on the table, even the slightest vibrations or mis-positioning will produce scanning errors. A moving table with a non-moving sensor is significantly less sensitive.

The central and even loading of the scan table and its guides are another great advantage of this design. The uniform and low load on the drives compared to the moving sensor and lighting unit give a very positive effect on the longevity of the scanner.

COVERGOLD



Software

From scanner control and color profiling to 3D export, CRUSE offers comprehensive software that supports users in their daily workflows.

The modular design of the CRUSE software allows for adapting your workflow easily. Our internal development team ensures continuous improvements to the software so that all applications are optimally matched to our scanner series and your requirements.

The uncompromising decision for high optical quality and sharpness in contrast to digitally processed scans is a unique selling point of CRUSE.

Our commitment to pure raw data eases subsequent digital processing.

For us, quality means a commitment to open and established standard formats. We not only realize this in the interfaces, but we also deliberately do not use proprietary and closed formats. This ensures that using the scans with any common imaging software will not cause problems in the future.



Unique Features

CRUSE offers powerful tools for image processing. Nevertheless, it is important to us that our scanners initially provide completely unprocessed raw scans which have not been optimized or otherwise digitally modified. This is because, with any applying of filters or algorithms that change the scan data, there is always the danger of irreversibly distorting important details in the image. This approach leaves the customer to decide how and when digital filters should be used.

An example is digital sharpening. Although digital filters often provide a good result, there is no algorithm that perfectly guarantees a good result on all resolutions and lighting variants in combination with each source material.



Design Studio

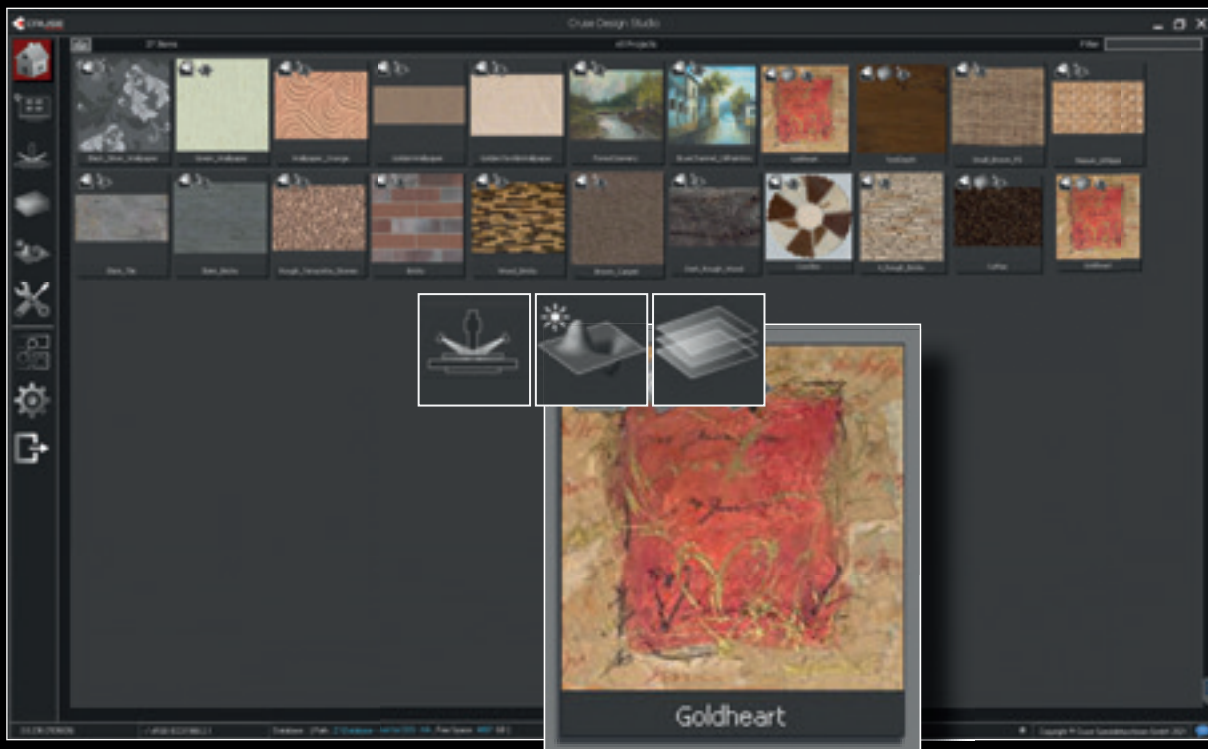
CRUSE Design Studio is an innovative, easy-to-use software framework that includes all available CRUSE application modules.

As a core functionality, the Design Studio provides clear management and archiving of the captured data and is the starting point for all further processing steps. Design Studio guides users by means of defined workflows (CRUSE workflows) to achieve the desired result. Currently running jobs are synchronized and processed fully automatically between the applications.

You can easily adapt all options of a CRUSE workflow to the workflow of your company, save in user- and job-specific templates, and re-use at any time. Even complex scans and further processing steps become a matter of a few clicks even for inexperienced users. Of course, this is also possible via the network, when several users want to work with the data at the same time. CRUSE Design Studio is modularly expandable. Following, you will find an overview of its most important features.

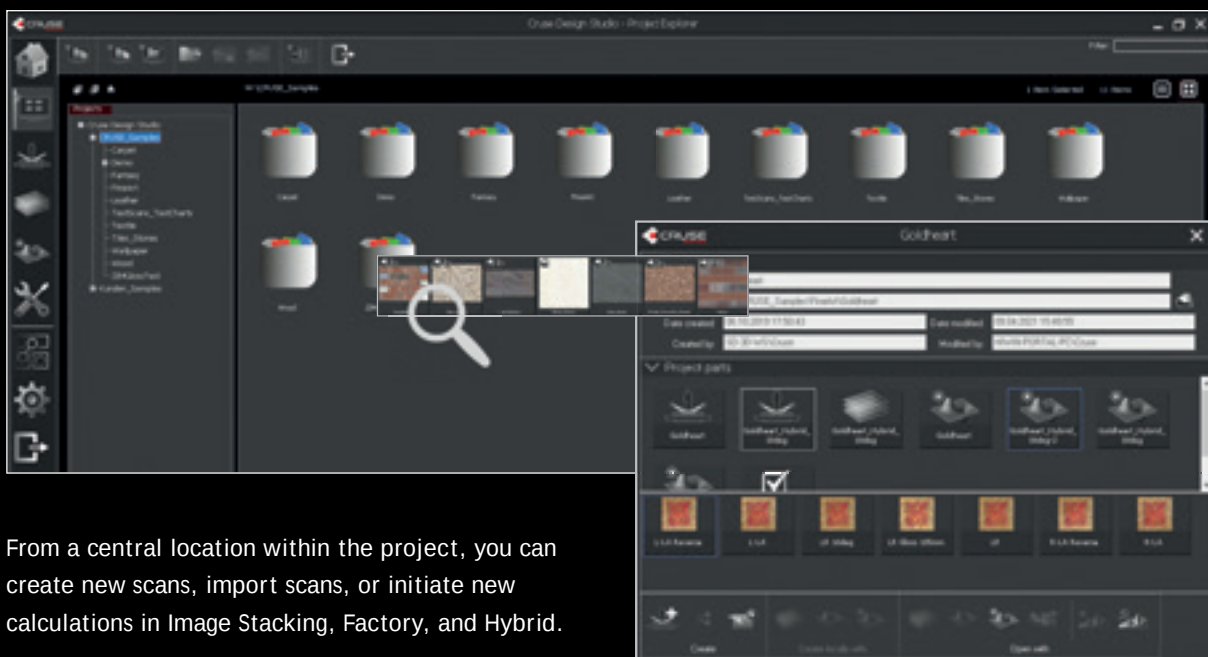
Home View

This view provides a list of recent projects. Icons within the thumbnails give more detailed information about the type of the project and its content.



Project Explorer

The Project Explorer view allows you to organize projects. Projects can be created, edited, moved, deleted, and organized into folders. Projects can be displayed as thumbnails or a list as needed.

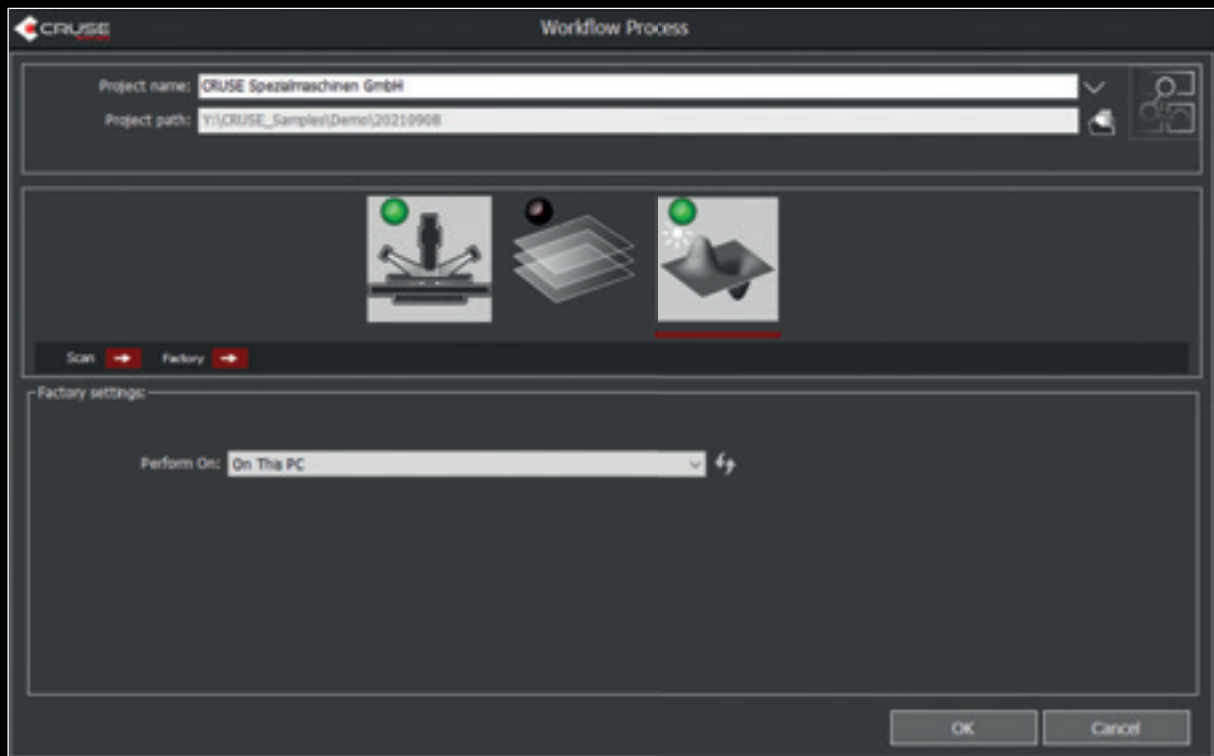


From a central location within the project, you can create new scans, import scans, or initiate new calculations in Image Stacking, Factory, and Hybrid.

Workflow Manager

The Starting Point for Scans and Further Processing

Even before the scanning process, you can choose in which of the modules (image stacking, factory, or hybrid) further processing of the scan data should take place. After completion of the scanning process, the scan data is automatically transferred to the desired application. It is also possible to specify which workstation should be used for calculation and completion.



Networked Workstations and Notifications between Workstations

Design Studio allows for editing jobs from multiple workstations and in a local network. For example, a scan operator can already concentrate on the next project, while another employee processes and exports 3D scans at a second workstation. Design Studio keeps track of which task is next in each workflow.

All pending tasks within the workflow, such as 3D retouching with Factory or a post-exposure with Image Stacking, are displayed in the integrated notification center on the corresponding workstation.

Even when processing several projects on different workstations simultaneously, users get an overview of which tasks are next.

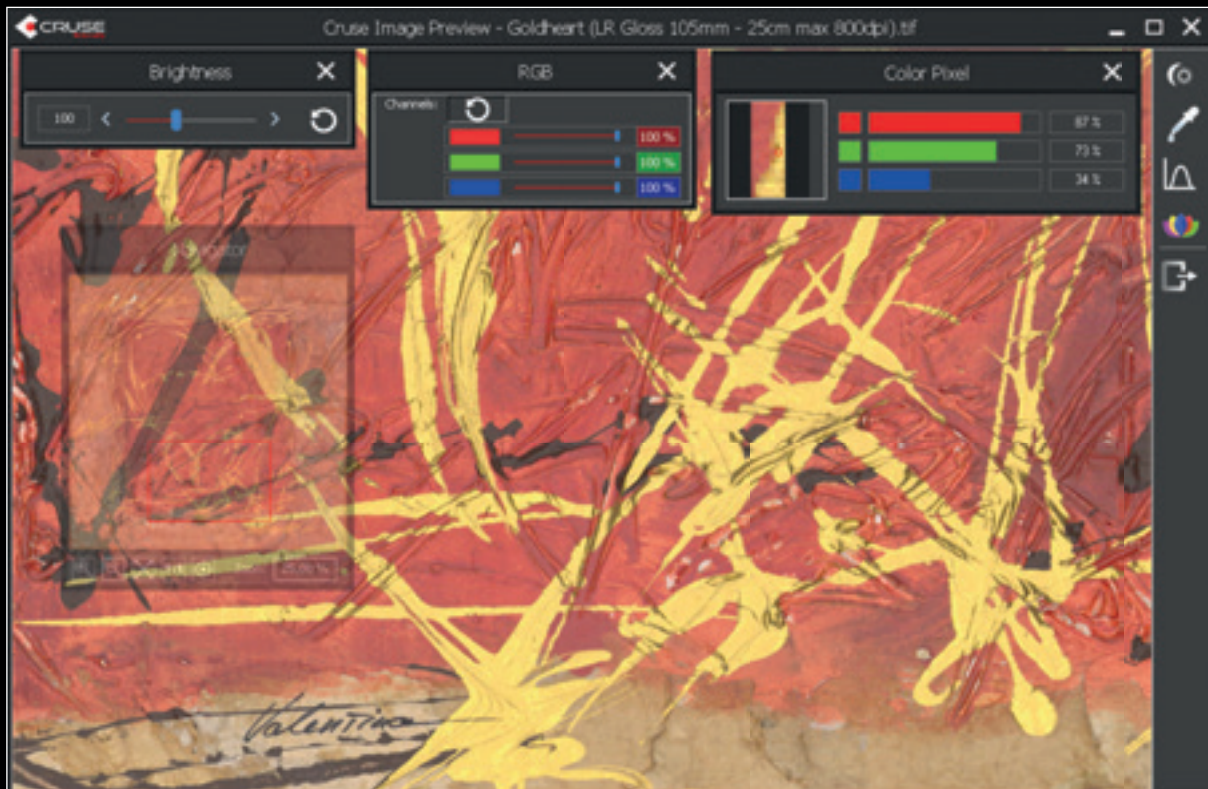


Image Preview

Quickly and easily check your scan data

The Image Preview tool is integrated into Design Studio to check your scanned data easily.

The viewer even opens image files of several gigabytes in seconds. Just as quickly, the viewer can switch between different zoom levels. For quick quality control, simple settings such as contrast and brightness can also be changed.



Template Manager

You can easily create scan templates with predefined settings for recurring scan jobs to optimize and speed up your workflow.

Our developers have programmed the Template Manager so that repetitive scanning tasks do not have to be set up each time. Even inexperienced users can load created templates and start the predefined scanning process. It is also possible to store and reload workflows that include Image Stacking or Factory.





Scan Software

The Scan Module starts the digitization of your object.

All functions for setting the resolution, lighting, and viewing configurations are intuitively accessible via the interface. The Scan Module is your control center for controlling the CRUSE scanner hardware and for starting the scanning process.

The scan module is fully integrated into CRUSE Design Studio and CRUSE workflow. Key settings can be taken from a CRUSE template with one click.

Features

- Record all relevant scan parameters in file names and metadata
- Automatically transfer scans for further processing with CRUSE workflows
- Quickly select default formats (A5, A4, A3, A0, etc.)
- Output images in common file formats
- Utilize integrated color management
- Monitor the feedback of temperature and environmental influences on color rendering



Image Stacking

Image Stacking is your tool for combining CRUSE scans

Our Image Stacking software is designed to give users an easy way to overlay single scans of the same object to create a new mix. For this purpose, you create a group scan with various texture scans, which are then automatically loaded with the workflow function in Image Stacking for further processing.

Mathematically, such a mixture corresponds to a scan in which the illuminations of the input scans overlap. If, for example, lightings from left and right are mixed, lighting from both sides can also be digitally derived. Compared to a single scan, such a digital derivation is faster and even possible when the original is no longer available for scanning.

Our scanners capture your original under multiple different lighting configurations. This results in scans in which the structures on the surface can be specially emphasized or uniformly illuminated.

Innovative Mixing by Mouse Movement

Unlike Photoshop, Image Stacking allows you to easily and innovatively mix your scans by simply moving the mouse, thus creating unique designs.



Tools

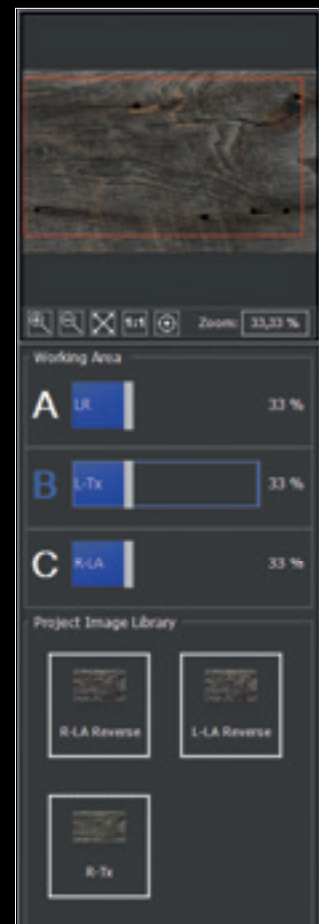
Mixing Scans

By moving the sliders you create a new, real mixture of your scans.

Alternatively, you can hover over the surface with the mouse button pressed in the directions of the 3 loaded images (A+ B +C). The new lighting

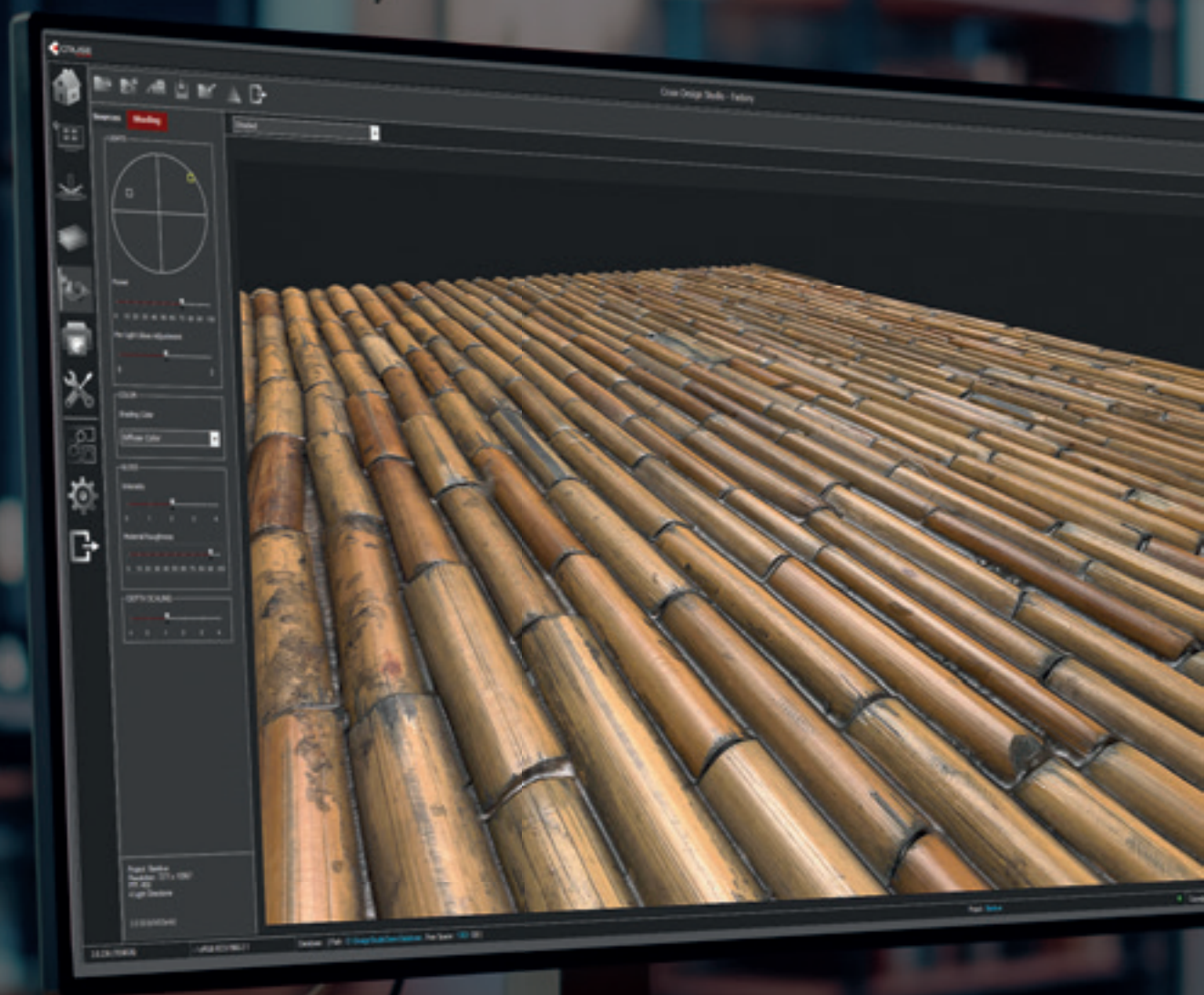
Scan Data Library

You have the possibility to mix 3 scans at a time. More scans can be found depending on how many scans have been created in the group scan. Simply drag and drop another scan with different texture or light settings into the mixing area and move the sliders to get a new impression.



Factory

CRUSE Factory takes your scans to the third dimension, giving you full control over 3D, gloss, and depth acquisition.



With Factory, you not only capture the color, but also the surface structure of the scanned items. Using the photometric stereo method, the software determines the 3D structure of the scanned object, based on calibrated scans with precisely defined light and camera positions. Our Virtual Relighting technique enables the re-exposure of scans with the help of virtually defined lighting scenarios. The optimum illumination of your original can be determined very easily, and a virtually illuminated scan can be calculated, even if the original is no longer available.

Application Areas of Factory Software

Art Reproduction

Create true-to-original replicas that can hardly be distinguished from the original in both color and 3D surface texture. Such a replica makes it possible for you to experience every brushstroke of the original.



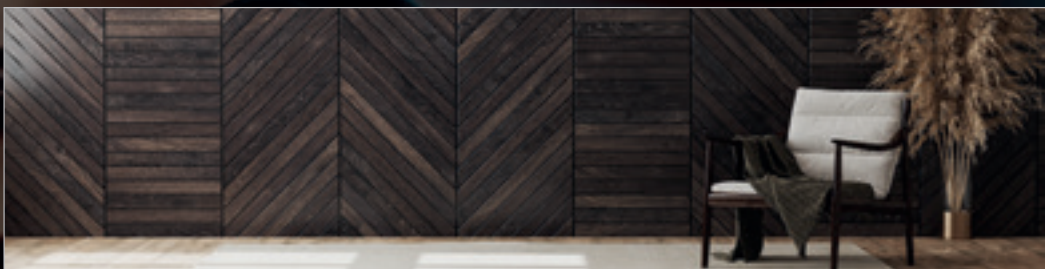
Decorative Surfaces

Thanks to the simple workflow and extremely fast processing, surfaces can now be reproduced cost-effectively, even for small numbers. Whether a floor, wall, or piece of furniture, there are no limits to your creativity.



3D Rendering

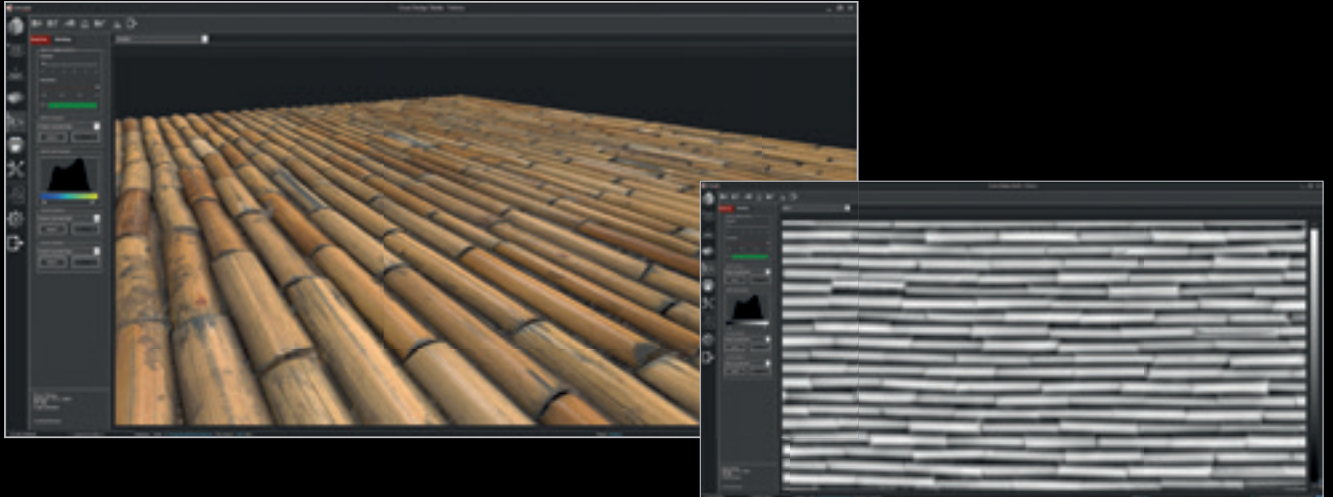
Use the scanned data for any kind of 3D rendering. The scanner provides all necessary data for PBR (Physically-Based Rendering) applications, in unique quality, for which CRUSE is known worldwide.



In detail, Factory calculates the following information:

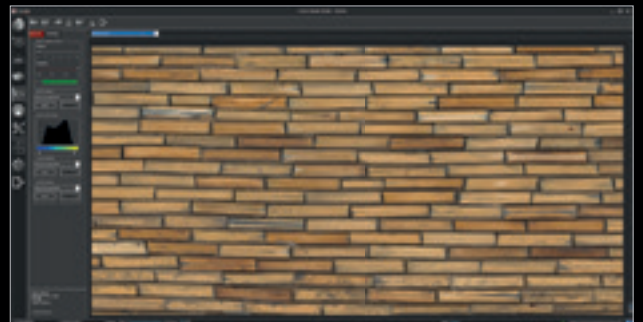
Surface structure in form of a height/depth image

For every pixel, the height above scan table is calculated. This can be displayed in a grayscale image, or directly in the integrated 3D view.



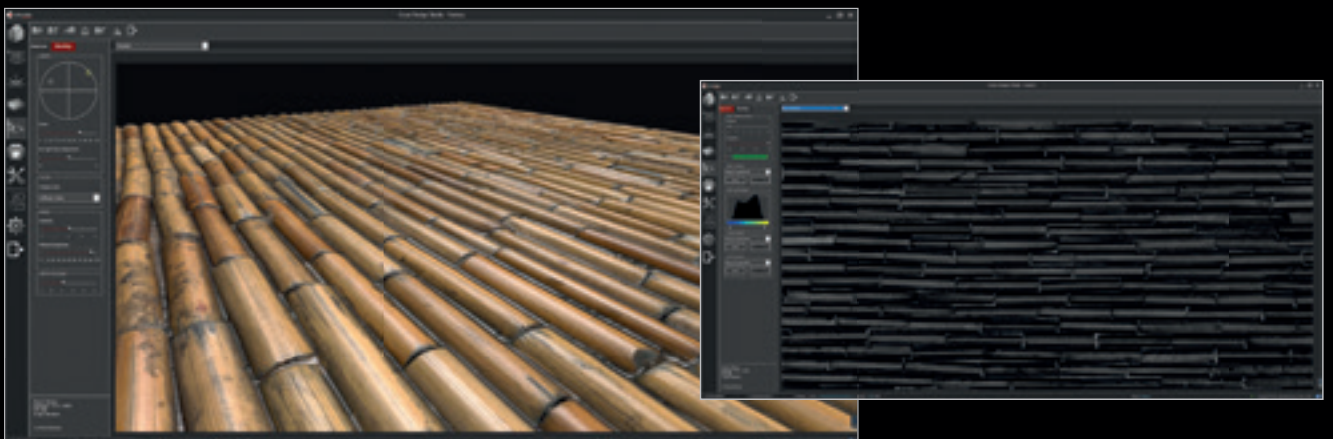
Diffuse Color

A color image of the scanned item in which all shades and highlights are eliminated.



Gloss

Gloss parameters are determined for every pixel, which can also be displayed as a grayscale image or in the integrated 3D view.



Flatness Filter with Real-Time Preview

Many times, objects are not completely flat and show a disturbing deformation, such as a sagging canvas or a warped wooden board. These deformations can be removed digitally using the integrated flatness filter.

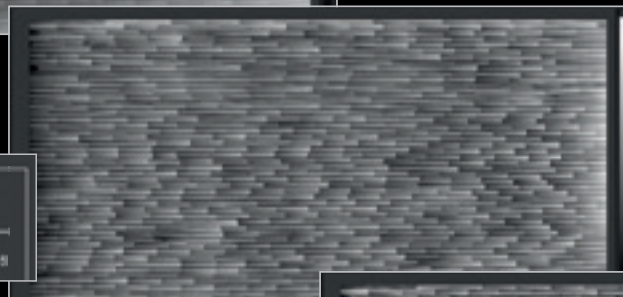
Detects unevenness over
the entire original.



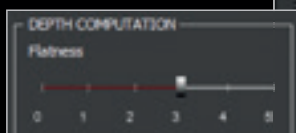
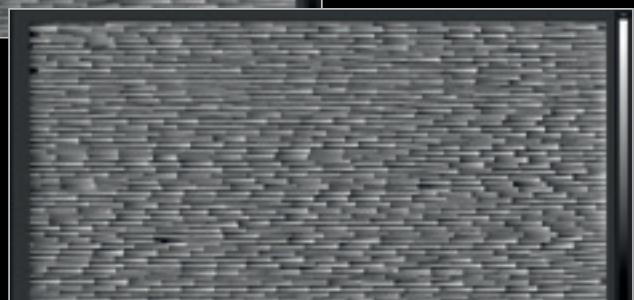
low



medium



high



User-selectable
smoothing factor.

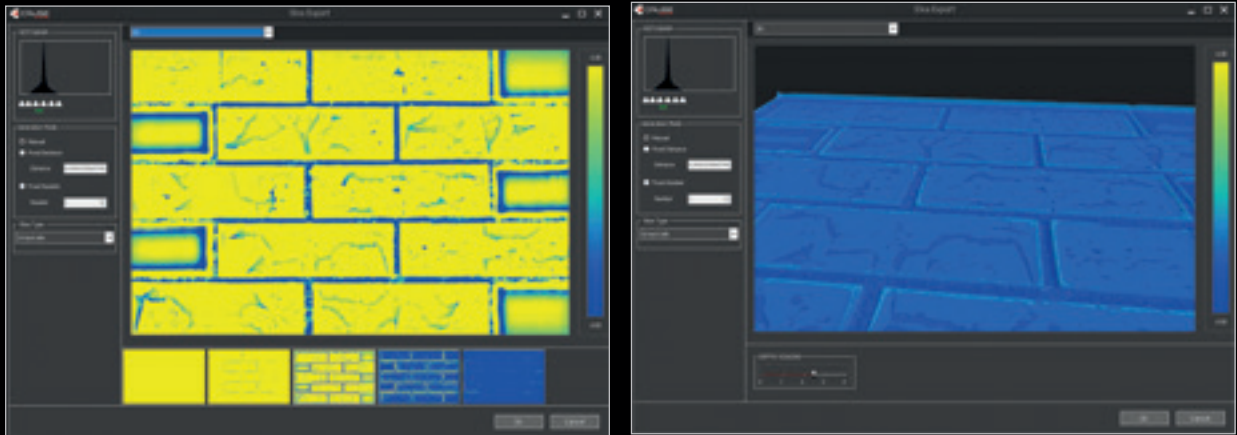
Factory also offers a variety of tools for processing all calculated information. For example, it can remove unwanted deformations found on the object with special filters, or exchange gloss, depth, or color information.

All calculations are optimized for multi-core systems and designed for very large items. Even large-format scans can be processed and displayed in real time, during the calculation. For example, parameters such as illumination, gloss, and structure of a scan can be adjusted.

A variety of export formats ensures smooth data transfer into your workflow and enables exchange with third-party software.

Depth Slicing

With the Depth Slicing function, the 3D surface structure can be separated into several grayscale images or masks as preparation for haptic UV printing, 3D printing or engraving machines.



There are different methods to split the height information and output each layer as a single file: a manual division of the layers, using fixed distances, using a fixed number of layers. There are also 2D + 3D, color, and grayscale views, as well as grayscale and boolean slice types. All settings you select for your calculations are displayed in real time in the export window.

Integrated Color Management

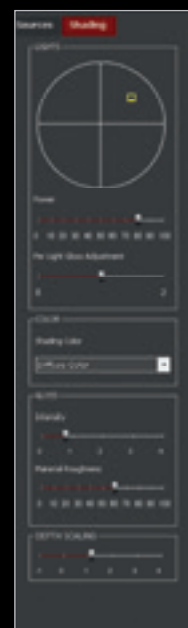
All views, 2D and 3D, are color calibrated, and all exports of color data contain a matching color profile.

Virtual Relighting

Virtual Relighting calculates a realistic exposure from the determined color, gloss, and surface data. They influence a variety of parameters, such as:

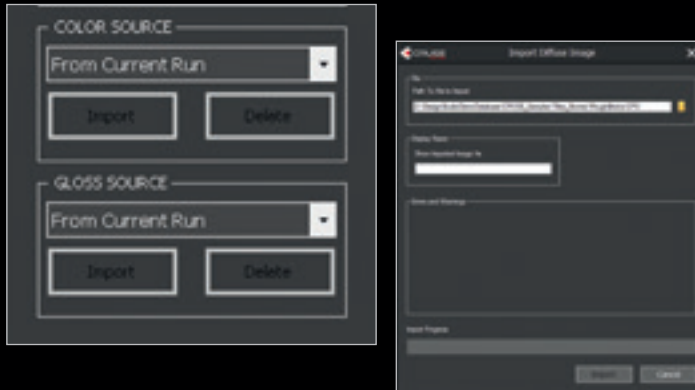
- **Lighting situation:** Define lighting scenarios with any number of light sources. Light sources are positioned via an intuitive interface.
- **Gloss intensity and material roughness:** Specify how strong and in what manner the surface should shine.
- **Surface structure:** Reinforce or suppress the surface structure.

With Virtual Relighting, users have full control and can illuminate their scanned items as they like. Another advantage: new exposures are still possible even when the items are no longer available to be rescanned.



Import Possibilities

The calculated results of 3D surface structure, color, and gloss data can not only be exported from Factory, but also imported again. For example, you can export, edit, and reload the depth channel for retouching. This works the same for color and gloss channels.



Data Export

All data calculated by CRUSE Factory can be exported in a variety of formats. In the software, details can be checked before the export, both in 2D and 3D representations, and optimized if necessary. All factory exports have the exact same size and are registered with each other, so that they can be opened as layers, for example.

Here is a selection of export options:

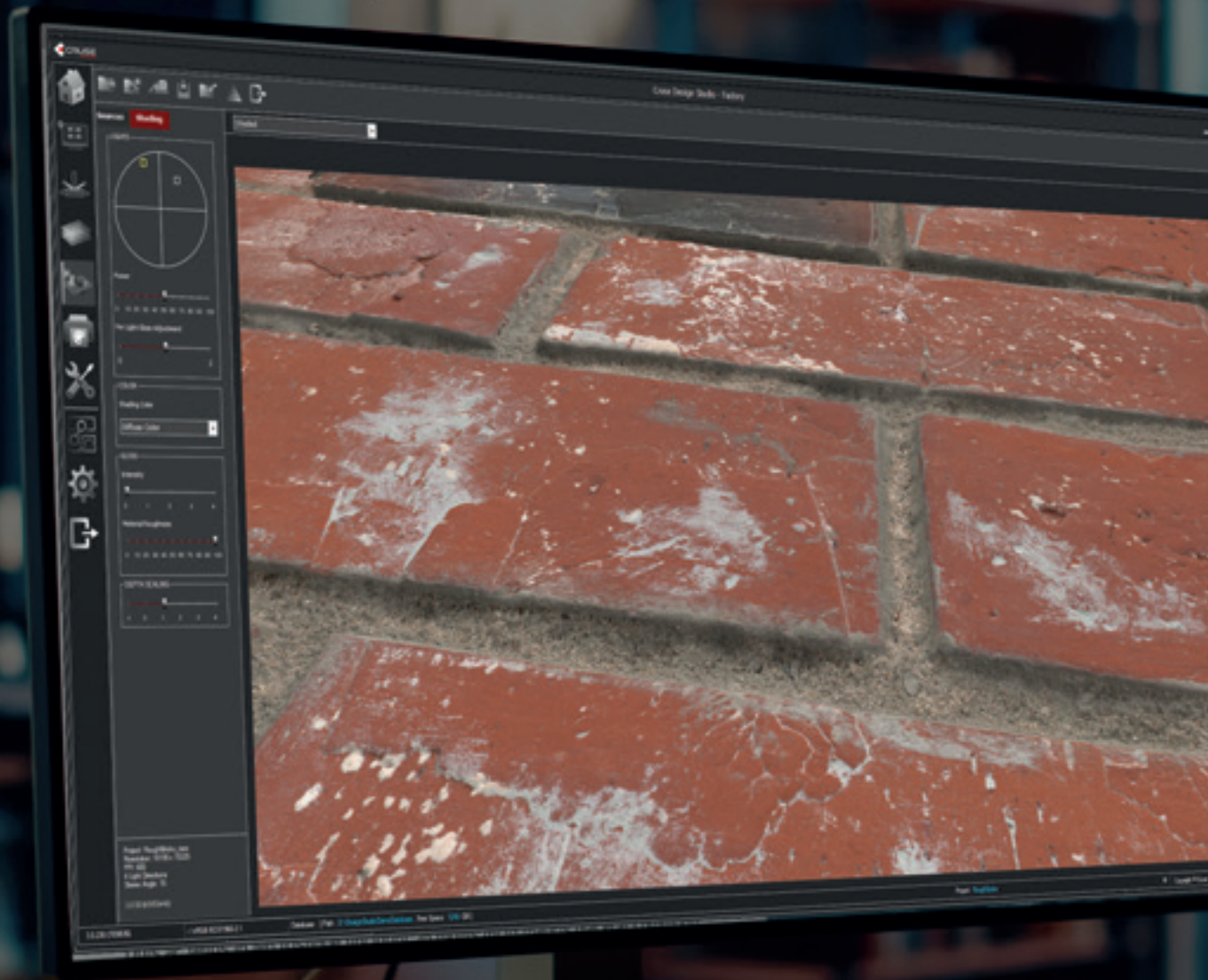
- Export of the surface as grayscale image
- Export of surface 3D data as Normal/Bump Map for PBR
- Export color and gloss
- Export 3D information
- Export the surface as separated masks or grayscale images (depth slicing)
- Export of virtually exposed surfaces (virtual relighting)

In addition, CRUSE Factory offers interfaces to third-party software, which are constantly extended. These third-party interfaces include:

- Export in Canon Touchstone
- Export to Roland VersaUV
- EExport to swissQprint printer
- Export to AVA Structure Simulation



Hybrid

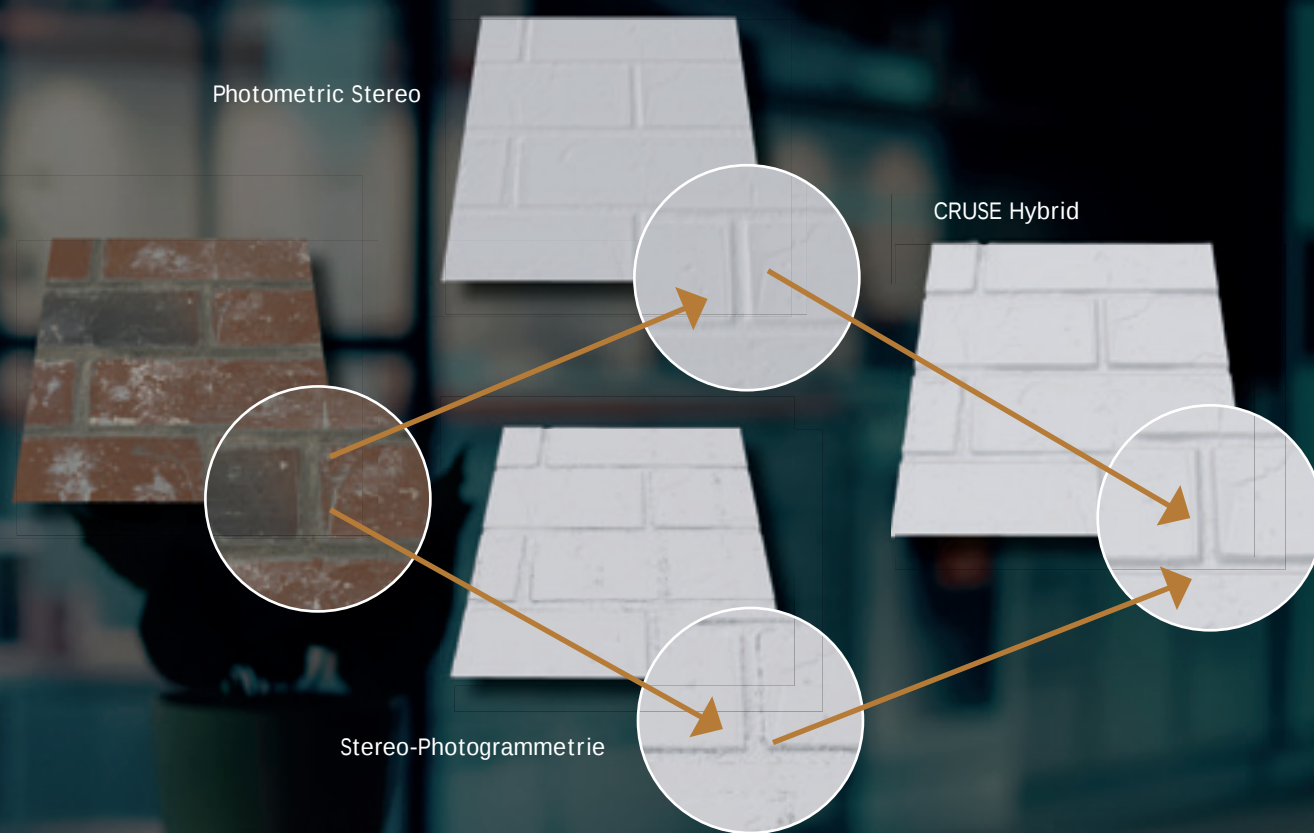


CRUSE Hybrid, an extension to Factory, allows the calculation of 3D surfaces through a fusion of two proven methods for structure acquisition from image data: photometric stereo and stereo photogrammetry.

With Hybrid 3D, users can capture 3D surface information even more precisely and with exact height information. CRUSE Hybrid delivers impressive results, especially for objects whose structure is located on two or more different height ranges.

The photometric stereo method calculates the 3D surface information based on its shading. Despite lower a lower amount of data and faster processing, the user can capture the finest details even with low-resolution scans. Also, there is no noise with stereo photogrammetry. However, the disadvantages of the photometric stereo method are, that it smoothens sharp edges and lacks absolute depth values.

CRUSE Hybrid combines both methods in a unique way, so that the advantages of both approaches add up without their respective disadvantages. The detailed and error-free photometric results are combined with the exact height data of stereo photogrammetry using two additional scans at different angles. The result is a very high degree of details in fine structures with simultaneously high dynamics of several inches and exact reproduction of height relations.



Differences between Factory and Hybrid

Factory

Requires 4 scans with different light directions and a left + right scan for accurate color information.

With this approach, many details are captured at low resolution.

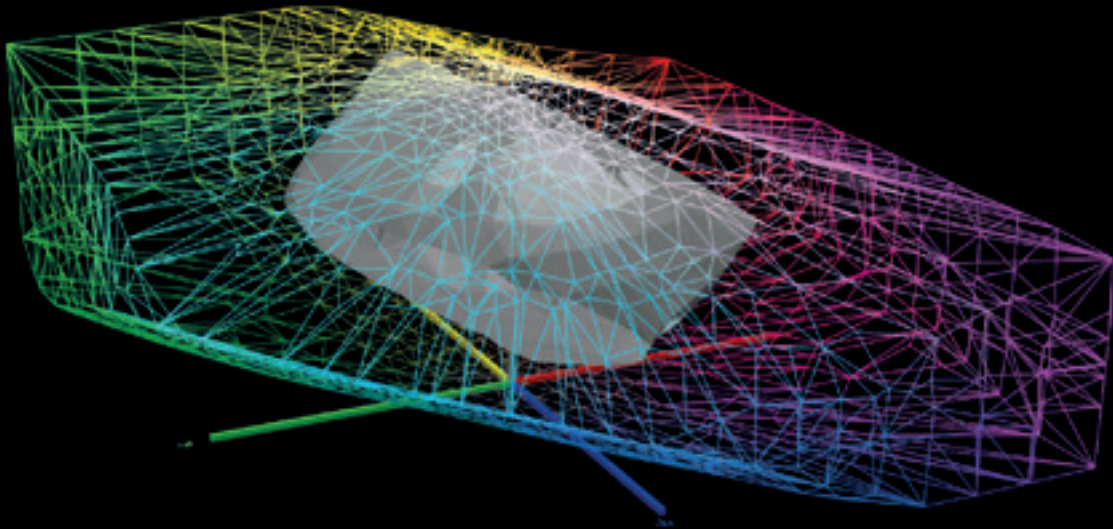
The calculation process is faster, the dynamic range is lower than Hybrid, discontinuities and jumps appear smoothed.

Hybrid

Uses at least 4 scans with different light directions, left + right scan for accurate color information, plus one additional angle scan.

The process is fast, provides reliable absolute height information, and a correct reproduction of edges and discontinuities. Compared to a calculation in Factory without Hybrid, the dynamic range is much higher with a simultaneously very good resolution of details.

At the same time, CRUSE scanners have an exceptionally large color gamut (see illustration), which completely covers the color gamut of printing devices like inkjet printers. Simply, the scanner color gamut is limited, but clearly large enough for printers.



Using spectral photometers for profiling, the number of color patches is usually limited for practical and efficiency reasons. Profiling with CRUSE scanners is basically unlimited in the number of patches. Since a higher number of color patches significantly contributes to the quality of the profile, this method overcompensates the limited scanner color gamut in typical applications.

Targets and Profiles at the Touch of a Button

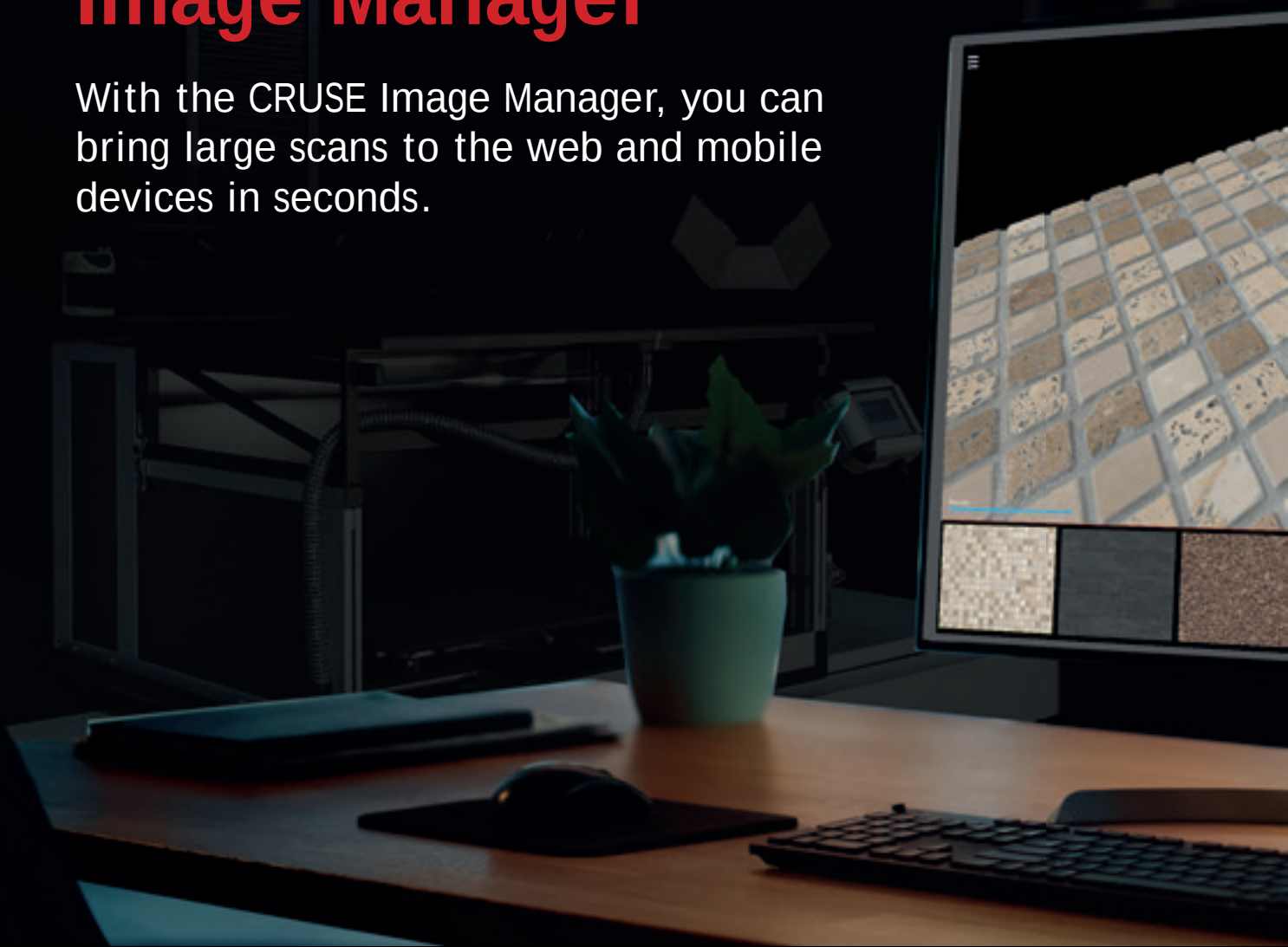


With Profile Scan, you can easily create and manage profiling targets and printer profiles. The size of the targets can be adapted to your needs. The sizes can significantly exceed the standard chart sizes such as A4 or even A3. Since the measurements are fast, profiling targets with 10,000 or more color patches are feasible. Each CRUSE Profile target is registered and labelled with a machine-readable QR code. This code is automatically recognized by CRUSE Profile scans.

With one click, a target is scanned and identified, and profile creation starts immediately. The integrated target and profile management keeps track of all profiling targets, printers, and profiles.

Image Manager

With the CRUSE Image Manager, you can bring large scans to the web and mobile devices in seconds.

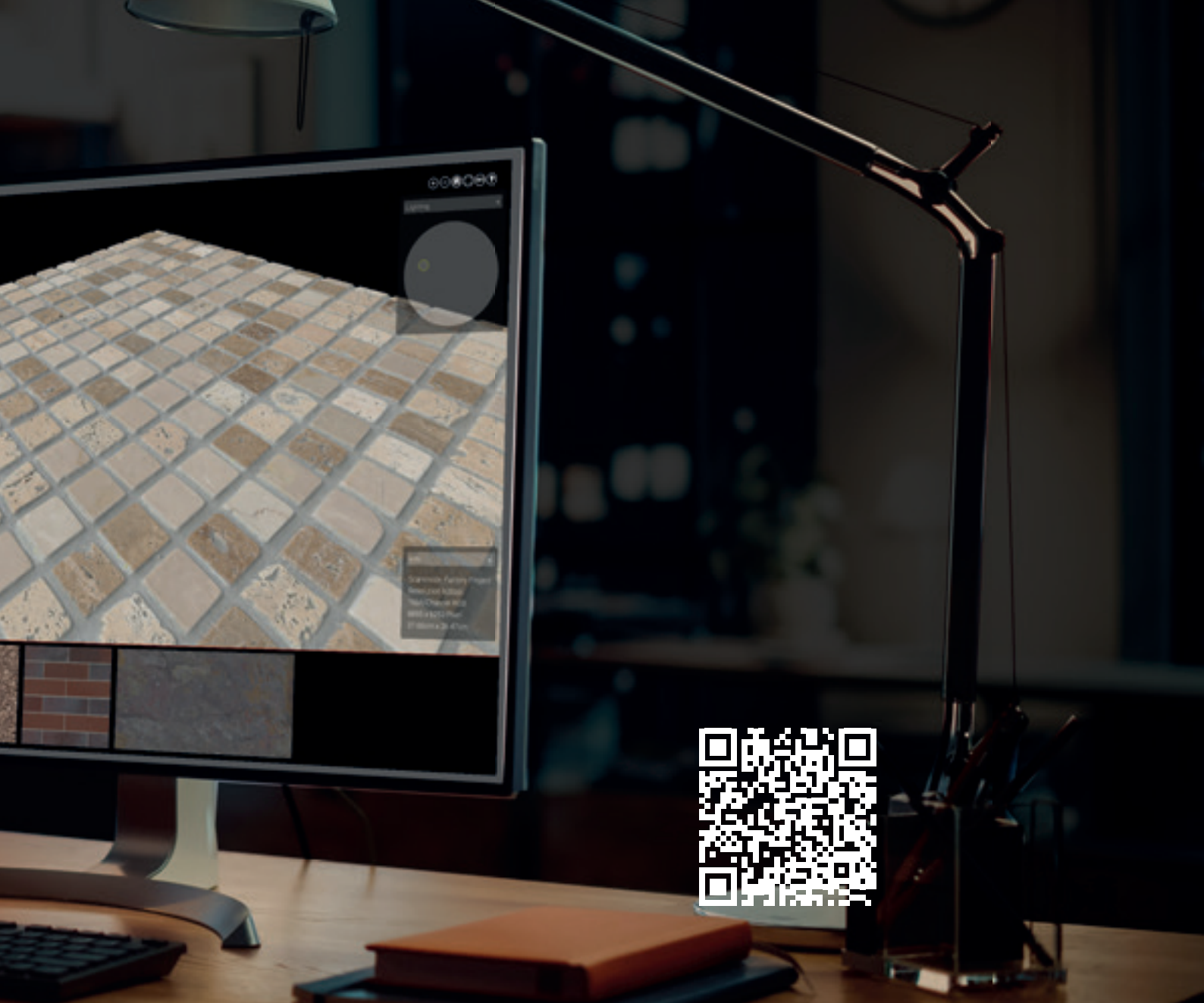


The CRUSE Image Manager consists of a server component as well as web and mobile applications.

Thanks to our intelligent streaming technology, only relevant data is transmitted to the viewer. In addition, the image data is stored in several resolutions and compressed. The result: scans with several gigabytes can be displayed on mobile devices or on the web without delay.

Features

- Navigation in scans of any size: Zoom on mobile devices and web
- Manage scans with a simple web interface
- Categorize into groups and define tags
- Users and rights management: Set access rights for images and users
- Optional link for downloading scans



With the 3D-Viewer option for the Image Manager, users can also bring 3D structure scans with gloss from CRUSE Factory to the customer. The CRUSE Image Manager 3D Viewer integrates easily into your website and displays your scan in 3D.

3D Viewer Features

- 3D rotation, zoom
- Pivoting light source
- Support for mobile browsers and gestures
- Easy-to-integrate 3D viewer component based on Javascript/WebGL



samples.cruse Scanner.com

Checklist

Synchrortable

Room Conditions for CRUSE Scanners

- The floor in the room must be stable and free of any vibrations.
- The scanner environment should be kept as dark as possible to prevent the effects of scattered light on the scan result. Ideally, the walls and ceilings should be painted black/dark grey.
- The room temperature must be between 20-25 °C (60-77 °F). Since the room can heat up strongly with frequent use of the scanner (especially with LED lamps), the room must be air-conditioned.
- Humidity should not exceed 70%.
- The environment should be as dust-free as possible.
- Power supply: secured current path 230 V/16 A .118 x .098 in with grounding
- Direct connection with .118 x .098 in or CEE
- Grounded sockets.

Scanner PC Configuration

- Powerful computer
- 2 Gigabit network cards (one for the scanner and one for the home network)
- Hardware calibratable monitor
- Windows 10 / 64 bit
- Internet connection necessary to license the software
- Adobe Photoshop (recommended)

Factory / Hybrid PC Configuration

- High-performance computer
- Minimum 64 GB RAM, 128 GB recommended for the Synchrortable 295.
- High-performance graphics card
- Hardware calibratable monitor
- Windows 10 / 64 bit
- Internet connection necessary to license the software
- Adobe Photoshop (recommended)

COVERGOLD



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