

Color management expertise & industry knowledge combined

Digital printing is the answer to many challenges in surface decoration: batches are getting smaller, orders are more individual and quality demands are increasing. ColorGATE is your technology partner who thinks outside the box and makes a crucial contribution to the success of your digital project with software, measurement technology, services and know-how!



With ColorGATE solutions, you develop an efficient, customized digital printing workflow that delivers the best results at low cost:

- Digitization of analog artwork, design development and design selection – with **3D Surface Director**
- First print run, approval, production reference generation – with **Décor Productionserver, Fingerprint Module** and other modules
- Optional: generation of decentralized production references with **Décor Productionserver, Fingerprint Module** and proof printer
- Color-accurate reprinting with **Décor Productionserver, Fingerprint Module** and other modules
- Support of various measuring technologies for linearization, profiling and **Color Correction Loop Module** – including ColorGATE's **Rapid Spectro Cube** and IPAC ICMS/ACMS

Your benefits:

- A comprehensive production strategy, from decor data to the final product
- You maximize the potential of your digital printing equipment
- Consistent color, from design to production, even across multiple sites
- Color management technology that enables you to meet the highest quality standards
- Reduced cost through ink savings, greater process efficiency and elimination of physical references and printing plates

Together with you, we create your new digital printing workflow from the following components:

Décor Productionserver

The central component of your production workflow



With Décor Productionserver, you work with the actual color and surface impression of your end product throughout production. You can work with all common file formats from the widely used Adobe creative programs and drive practically all relevant digital printers in the decór sector.

You will get consistent and repeatable results on different formats, production lines, printing systems and even across different locations!

ColorGATE also enables you to use the widest range of printer ink combinations, from CMYK to special furniture color spaces and light colors. In combination with ColorGATE's unique measurement technologies, you can perform the necessary color measurement processes extremely quickly and precisely. This provides you with a complete workflow and color management system for the production of decorative materials.

Color Correction Loop Module

Automated color correction during production



With the Color Correction Loop Module, you can detect and correct color deviations during the production process! With a compatible measuring device (e.g. IPAC ICMS/ACMS), you can monitor the ongoing production. If a color deviation occurs, ColorGATE's Productionserver calculates a color correction that can be imported during ongoing production if the production system is designed accordingly. This way, you can correct even the smallest deviations early in the process so that any rejects are not produced in the first place!

Out of Gamut Module

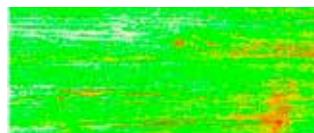
Avoid rejects, save time and material!



One of the most common causes of complaints in digital printing is that the printing system cannot fully reproduce the color gamut of the design. The Out of Gamut Module shows you possible color deviations precisely in the form of a "heat map". You can select the acceptable color tolerance yourself.



Design



Heatmap

Retouch Module

For color-accurate retouching before final production



ColorGATE enables you to achieve precise color reproduction, even in complex production processes. But what if, after color management has been completed, you still need to make "last-minute" changes to the print data?

With the Retouch Module, you can retouch the color-corrected ColorGATE print data in external image processing software, such as Adobe Photoshop, without having to recalculate them afterwards. You can also process multi-channel files with up to eight color channels in a color-representative view.

After processing, you load the file again into Productionserver, where it goes through linearization and is finally printed.

Inksaver Technology

A reduction of ink application with many advantages!



Did you know that in many cases you can significantly reduce the amount of ink printed without changing the appearance of the print result? On the one hand, this saves you ink costs, but on the other hand you also achieve other advantages of the lower ink application, such as shorter drying times, more robust prints or a more stable color impression in changing light conditions.

- Save up to 30% on ink costs
- No visual quality loss
- Stabilization of the printing process
- Reliable color impression in changing light conditions
- Shorter drying times

3D Surface Director

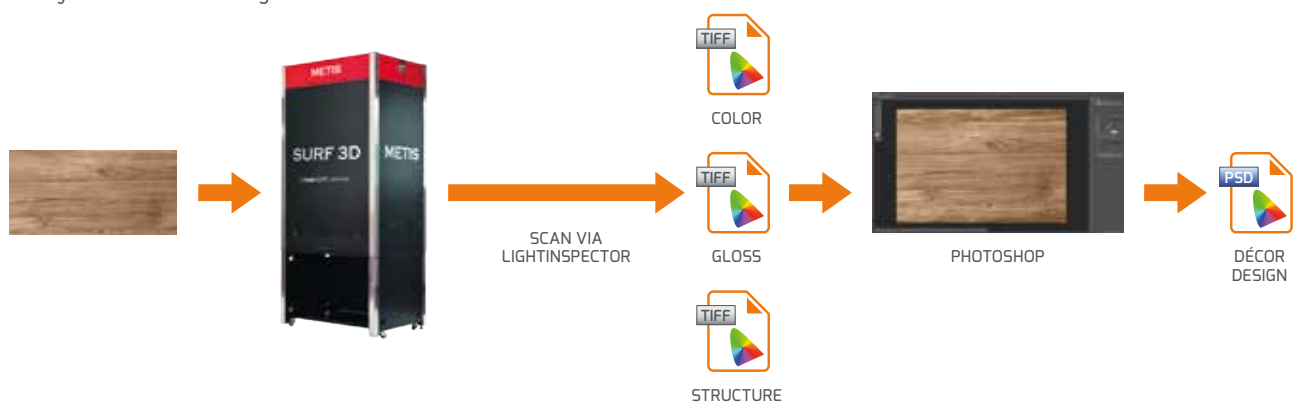
Fast and accurate digitization of surfaces for an efficient digital printing workflow

Would you like to digitize existing décor designs? Or create completely new designs with creative structures? With the 3D Surface Director, there are no limits to your creativity! Color, gloss and texture are captured and merged into one SuperScan.

The hardware component consists of a first-class surface scanner from Metis srl:

- SURF 3D scanner with up to 450 dpi resolution and maximum depth of field
- 8 independently controllable light sources
- Only 30 seconds scanning time

You also get ColorGATE's software solution with functions for scanning, transforming and outputting surface description data. Our software also supports popular image editing programs, so you can edit your data directly and create new designs.



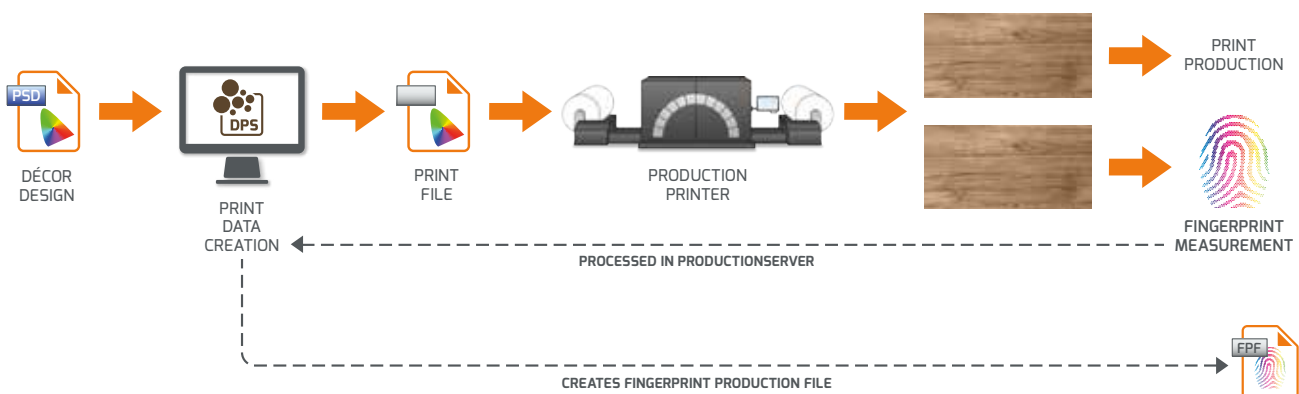
Fingerprint Module

The digital twin of your production reference

A reference is the approved production sample that represents the standard for subsequent productions. Keeping and distributing such references leads to workload, costs and capital commitment. ColorGATE has developed an easy way to digitize the production reference.



With our Fingerprint Module, you create a "Fingerprint Target" that contains colorimetric patches specially optimized for your design and goes through the same production steps as a conventional reference. After colorimetric capture of this reference, a fingerprint file is created that contains the color characterization as well as the print data capturing. Thus, the file becomes the digital twin of your production reference. For future reprints or in decentralized production, Productionserver ensures that the production result is identical to the production reference - even on different production systems and technologies.



ColorGATE Rapid Spectro Cube LED

With our Rapid Spectro Cube, colorimetric detection of decorative surfaces and edge bands and the creation of high-quality ICC color profiles from the measured data is particularly easy.

You can create measurement charts flexibly, even with the smallest measurement patches, and capture the printed targets within a few seconds. In the latest version, with internal LED illumination of the measuring field, the Rapid Spectro Cube achieves highly precise and reliable results. The profiles generated can be used especially well with Décor Productionsserver, but also in other ICC-based color workflows to achieve outstanding color quality.



Start your digitized surface decoration production now!
Call us at +49 511 94293-0, or come to
www.colorgate.com and click on a contact button!

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