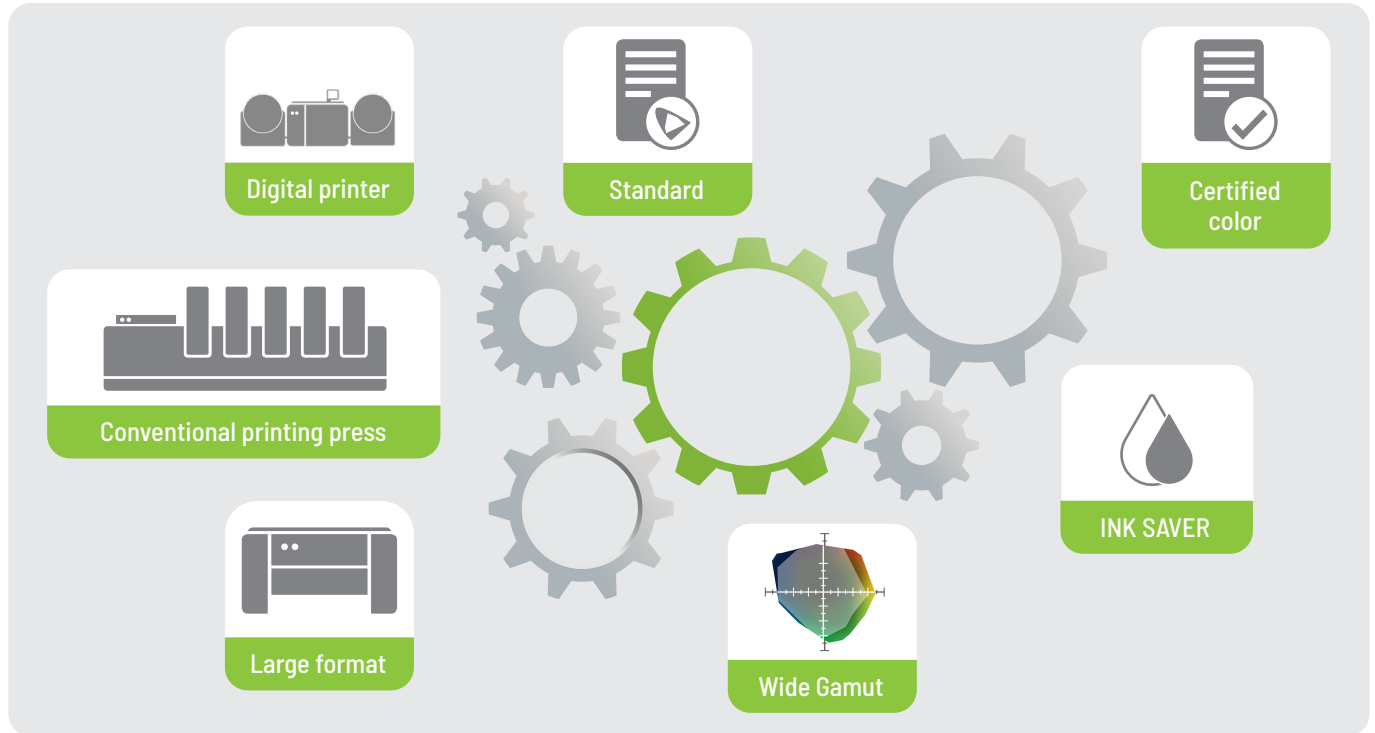


**CGS
ORIS****PRESS
MATCHER**

Accurate and consistent color across multiple printing devices



Trying to achieve consistent color on different printing devices and different printing conditions without a professional color management software causes a lot of unnecessary effort.

PRESS MATCHER was specially developed to maximize the productivity of all your output devices with just a few clicks. The software lets you produce the same results on any device and repeat print jobs easily, quickly and reliably – today, tomorrow or even after a longer period of time.

Whether there are international industry standards such as ISO, GRACoL or SWOP or specially defined in-house standards of your customers – PRESS MATCHER is the ideal tool to handle all of your color management requirements.

There are many options and features available to customize the software ideally for your individual needs in your daily business, like the INK SAVER module, which helps you to further optimize your production processes to work even more efficiently and save more time and money.

Key Facts & Benefits

- Accurate, consistent color reproduction on different printing presses and processes
- Easy repeatability of recurring print jobs
- Color matching and certification to in-house or industry standards such as ISO Coated v2 (FOGRA39), PSO Coated v3 (FOGRA51), GRACoL
- Normalization of print data including conversion of various file formats (e.g. PDF, EPS, TIFF, JPEG ...)
- Optimal gray balance based on automatic color stabilization
- Media-relative color matching
- Use of CxF data as well as creation and application of spectral data
- Create custom test charts for various measuring devices
- Optimal use of the color gamut of every output device thanks to wide-gamut workflow
- Process optimization and cost reduction with INK SAVER
- Simple handling through intuitive, wizard-based user interface
- Fully automated process
- Easy integration into existing processes and workflows

color your process

Accurate and consistent color across multiple printing devices



Automated repeatability and consistent colors

Different operators on different days? Jobs that need to be reprinted periodically? PRESS MATCHER is the answer.

Color balance is automatically maintained, day-in, day-out and the patented technology guarantees to achieve ideal print results – even after a longer period of time, anywhere around the world and across different devices and printing processes.

Neutral gray

Due to changes in the environment, print-outs vary from day to day as the gray balance shifts. Ideally, the system should always remain a perfect balance between Cyan, Magenta and Yellow, also called neutral gray. Achieving this manually is challenging and can be time-consuming.

PRESS MATCHER is the first solution in digital printing that recognizes color shifts and automatically compensates them.

Smooth gradients

Gradients are a quality characteristic. Smooth gradients depend on an optimal color management setup and an interaction between calibration, paper profiling and neutral grays.

The setup of this balance can be very time-consuming and cost-intensive. PRESS MATCHER unifies all these steps into one single process, ensuring that colors stay repeatable and stable.

Standardization

PRESS MATCHER complies with industry printing standards, like GRACoL, SWOP, FOGRA, ISO Coated and Uncoated. More recent standards such as PSO Coated v3 (FOGRA51) or PSO Uncoated v3 (FOGRA52) are also supported.

Normalization

Not all digital files are created in the same way. User errors, non-standard desktop applications and legacy file formats lead to unprintable files and production downtimes.

PRESS MATCHER's normalization functions take the worry out of this by automatically creating clean printable files. This guarantees a stable and seamless print production process.

Wide gamut workflow

PRESS MATCHER's wide-gamut workflow makes use of the print device's entire color gamut. This ensures high-quality RGB color reproduction with stable and reproducible print results. Wide-gamut color matches can be optimized iteratively. Different input color spaces such as sRGB and Adobe RGB within the same PDF are handled perfectly, as ICC input profiles and rendering intents can be set individually.

This workflow is the ideal way to render RGB data – with vivid saturated colors and stable neutral gray tones. This is important for the production of photo books, posters, banners, signboards and similar products.

Saving cost & optimize processes

PRESS MATCHER's INK SAVER module enables you to reliably optimize your ink and toner consumption. This has a positive impact on print quality and your entire production process, such as better shadow details and shorter drying times. Please follow the links below for more information.

Spectral data

With PRESS MATCHER you can also create and process CxF/X-4-defined spectral color data. The use of spectral data allows you to match spot colors and overprints perfectly and consistently. To create, edit and analyze spectral data, we recommend the use of our CXF TOOLS application.

Central control

With the EVALUATE certification software, prints can quickly and easily be checked for color accuracy. The direct interface allows all data from different devices and locations to be collected and evaluated centrally, giving you a detailed overview.

Recommended system configuration

We recommend the following computer equipment for optimum performance and high throughput:

- Intel Core i7 or i9 latest generation, or equivalent
- 16 GB Memory (RAM) or more
- 1 TB SSD or RAID system
- Graphics card: DVI output, DirectX 9c support and Direct 3D acceleration
- Windows Workstation Pro 11, 10
- Internet Explorer 11 or newer

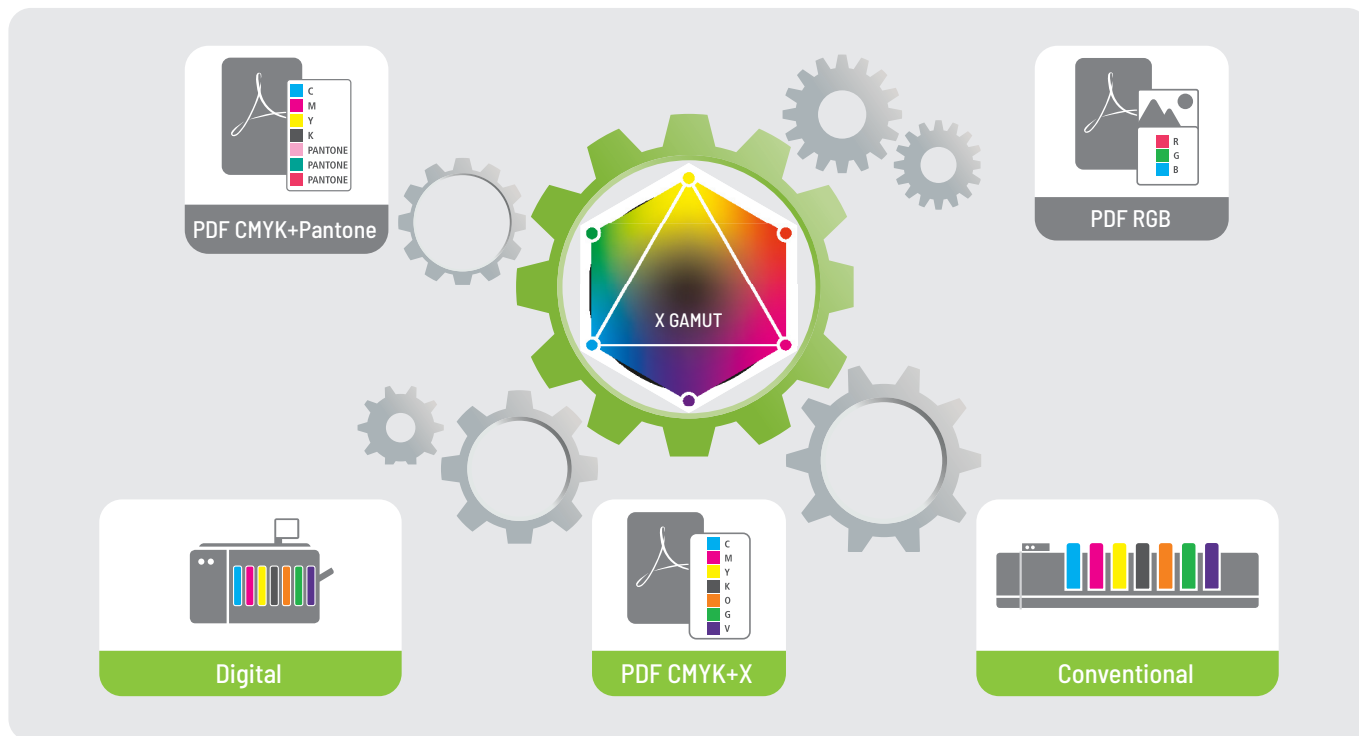
The exact hardware configuration depends on the type and number of output devices.

Supported measurement devices

- All current models from X-Rite
- All current models from Konica Minolta
- Barbieri Spectro Swing, LFP/LFP qb and LFP qb NET
- Techkon SpectroDrive, SpectroDens, SpectroJet
- ColorScout A+: Hand-held devices from X-Rite and Konica Minolta



Multicolor printing: Achieve accurate spot colors and brilliant images – simply using CMYK+X



Special colors are especially eye-catching, but to work with them requires effort and expense. Extra inventory, higher prices, frequent color changes and subsequent wash-up and press downtime all add up to reduced flexibility in job processing and significantly impact the whole production workflow.

As a result, the printing press is not used to the best of its potential and productivity drops. That costs time and money.

With X GAMUT, the fully automatic color management software for extended color printing on digital and conventional presses, spot colors can be accurately reproduced by using a standard fixed 7 or 8 color ink set (CMYK+X). Commonly, orange, green and violet are added to CMYK. That means, you do not need to mess around with special ink mixes anymore. This considerably streamlines the production process since no press washups, changeover times are necessary, greatly reducing ink inventory and waste. As a result, the software helps to reduce allover costs enormously – for printers and clients alike.

However, X GAMUT is not only ideally suited to reproduce spot and brand colors precisely. The perfect match of software features and intelligent workflow tools in X GAMUT enable printers to leverage the full gamut of the press and ink set so that images are brilliantly printed in all detail – without the need for special inks. This has made X GAMUT an important tool in the photo printing industry, too.

Key Facts & Benefits

- Accurate spot color reproduction with an extended standard ink set (CMYK+X)
- Photo printing with vivid, high saturated colors
- **Automatic** separation of PDF files with **spot colors as well as RGB data** into multi-channel data
- Generation of multi-channel profiles and custom test charts
- Interface to standard spot color libraries (e.g. Pantone)
- Create and edit your own color libraries
- Easy and quick creation, processing and exchange of CxF data and spectral measurement data
- Simple handling and perfect results thanks to wizard-based user interface
- Fully automated processes thanks to intelligent workflow tools
- Immediate process and quality control with CERTIFIED
- Intelligent automation: Route jobs automatically to the best press for the most accurate color reproduction

Accurate spot colors and brilliant images – simply using CMYK+X



Spot color reproduction and correction

With X GAMUT you can reproduce spot and brand colors easily, accurately and reliably with a fixed set of extended process colors. Typically, orange, green and violet are used, but many other combinations are possible.

No matter which ink configuration you use, X GAMUT makes optimal use of your printer's entire color gamut and reproduces spot and brand colors very precisely. The colors can also be optimized and verified.

Increasing image color saturation

Another important field where the strength of X GAMUT comes into play is the reproduction of RGB data.

The color management software makes optimal use of the extended color gamut and delivers stunning print results with vivid, saturated colors – perfect for photo printing applications.

Separation and optimization of spot colors and images

The key to a perfect result is the intelligent separation of the measured color into the extended fixed set of process colors used in the printing process.

Spot and brand colors are replaced and reproduced without any spot inks, while maintaining visual and colorimetric integrity.

The conversion process optimizes the color data by reducing the number of separations to a minimum, thus minimizing the risk of moiré and clouding.

As a positive "side effect" this also reduces the total ink coverage, leading to shorter drying times and a leaner production process.

Creation of multi color profiles

With X GAMUT you can easily create multi-channel profiles that can also be used in other applications.

Test chart generator

The built-in test chart generator allows you to create custom test charts for your printing presses.

These test charts are essential for the CMYK+X color conversion process to characterize the color space of your printing system.

X GAMUT supports all commonly used measurement devices, including the latest models from X-Rite, Konica Minolta or Barbieri.

Management of spot color libraries

The X GAMUT software includes standard spot color libraries from Pantone and HKS. In addition to that, you can also create your own libraries and import and edit color data via CxF. There is also a direct interface to the CXF CLOUD to communicate all colors with all of their spectral properties easily and quickly all over the world.

Central control

Trust is good, control is better: With our easy-to-use software CERTIFIED user are able to quickly verify prints for color accuracy and to store and evaluate all kinds of data from different devices in a central location. This gives every authorized user a detailed overview at any time.

Long-term experience & color expertise

We provide simple-to-use software solutions for all of your needs related to color management, proofing, prototyping, certification and quality control – the best and effective way to optimize your entire production process.

Our proofing solutions are complemented by a large portfolio of specially developed substrates for creating color-accurate proofs and packaging prototypes.

Recommended system configuration

We recommend the following computer equipment for optimum performance and high throughput:

- Intel Core i7 or i9 latest generation, or equivalent
- 16 GB Memory (RAM) or more
- 1 TB SSD or RAID system
- Graphics card: DVI output, DirectX 9c support and Direct 3D acceleration
- Windows Workstation Pro 11, 10
- Internet Explorer 11 or newer

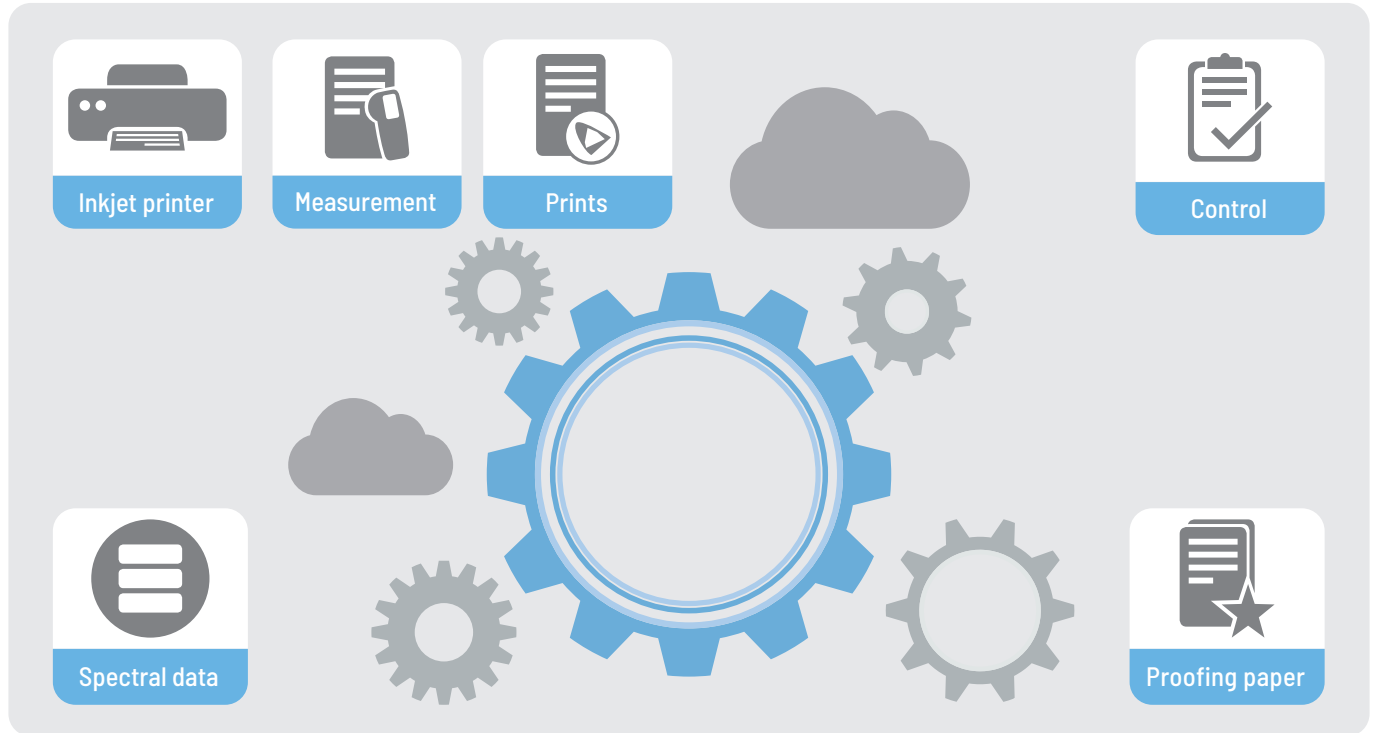
The exact hardware configuration depends on the type and number of output devices.

Supported measurement devices

- All current models from X-Rite
- All current models from Konica Minolta
- Barbieri Spectro Swing, LFP/LFP qb and LFP qb NET
- Techkon SpectroDrive, SpectroDens, SpectroJet
- ColorScout A+: Hand-held devices from X-Rite and Konica Minolta

**CGS
ORIS****COLOR
TUNER**

Remote proofing the easy way! Contract proofs for all standards



With COLOR TUNER you can easily create contract proofs for any printing standard. You don't even have to be a color expert to do that! The web-based application has an intuitive, wizard-based user interface and combines printer calibration and automatic color matching, which enables users to produce color-accurate printouts at local and remote locations anywhere in the world.

COLOR TUNER provides maximum flexibility and offers many powerful and innovative features such as perfect spot color matching or support for hexachrome and multi-channel profiles.

The application was the first proofing software to be certified by Fogra, SWOP, Sicograf, PPA and 3DAP and is now considered the most widely used high-end proofing software worldwide.

Thanks to its web-based client-server architecture, the application can easily be integrated into any existing workflow.

Key Facts & Benefits

- Soft and hardcopy proofs matched to the same standards, e.g. Fogra, GRACoL, SWOP, 3DAP
- Spectral data based proofing from any location in the world
- Contract quality, reproducible results thanks to patented iterative color management technology for process and spot colors
- Intuitive wizard-based user interface and printer setup – no color expertise required
- Comprehensive tool for selective color corrections and profile smoothing
- Halftone proofing option for color-accurate screened proofs
- Perfect remote proofing thanks to the support of the latest generation of inkjet printers with inline spectrophotometers
- Intelligent scatter-proof function
- Test chart generator for quickly creating CMYK and multi-channel test charts
- Easy-to-use profiling tool
- Full support for CxF/X-4 data including CxF CLOUD connection
- Visual creation and optimization of spot colors
- Browser-based communication
- Easy integration into existing workflows, can be combined with all other CGS ORIS applications

color your process

Remote proofing the easy way!

Contract proofs for all standards



Contract proofs

With COLOR TUNER you can create color-accurate proofs for all commonly used industry standards.

The software includes a setup wizard, automatic color matching and printer calibration in a web-based application that enables you to create color-accurate printouts from any location in the world.

COLOR TUNER also supports the Epson SureColor SC-P series of printers with built-in spectrophotometer. The fastest way to create highly accurate contract proofs, with no color expertise required.

Spot colors

Thanks to innovative features like using CxF/X-4 data in PDF files for perfectly rendering spot colors and the support of Hexachrome and multi-channel profiles, COLOR TUNER once again demonstrated its market position as the industry leading proofing application.

Integration and connectivity

Thanks to its web-based client-server architecture, COLOR TUNER can easily be integrated into any existing workflow and infrastructure.

The use of inline spectrophotometers enables automated remote color matching processes without any user intervention.

The direct interface to PantoneLIVE and CxF CLOUD also enables easy organization, management and communication of spectral color data.

Spectral color data

Spectral color data is the ideal solution to store and communicate colors with all associated properties. The use of spectral data eliminates modifications caused by exchange color spaces and provides much better color matching results for non-standard printing processes like flexo or gravure printing. In addition, spot color overprints can be rendered much more precisely.

Proofing papers

High grade proofing paper are essential to contract proof quality. That is why we have developed a large media portfolio based on the requirements of leading publishing houses and printing companies keeping industry standards in mind, which are specifically geared towards the production of color-accurate proofs.

An unique coating technology give the papers unique properties, such as better ink absorption, higher color density, greater reproduction of fine detail and shorter drying times than comparable media.

The entire portfolio is produced, controlled and continuously adapted to the current requirements of customers and markets under special conditions and strict specifications.

Recommended system configuration

We recommend the following computer equipment for optimum performance and high throughput:

- Intel Core i7 or i9 latest generation, or equivalent
- 16 GB Memory (RAM) or more
- 1 TB SSD or RAID system
- Graphics card: DVI output, DirectX 9c support and Direct 3D acceleration
- Windows Workstation Pro 11, 10
- Internet Explorer 11 or newer

The exact hardware configuration depends on the type and number of output devices.

Supported file formats

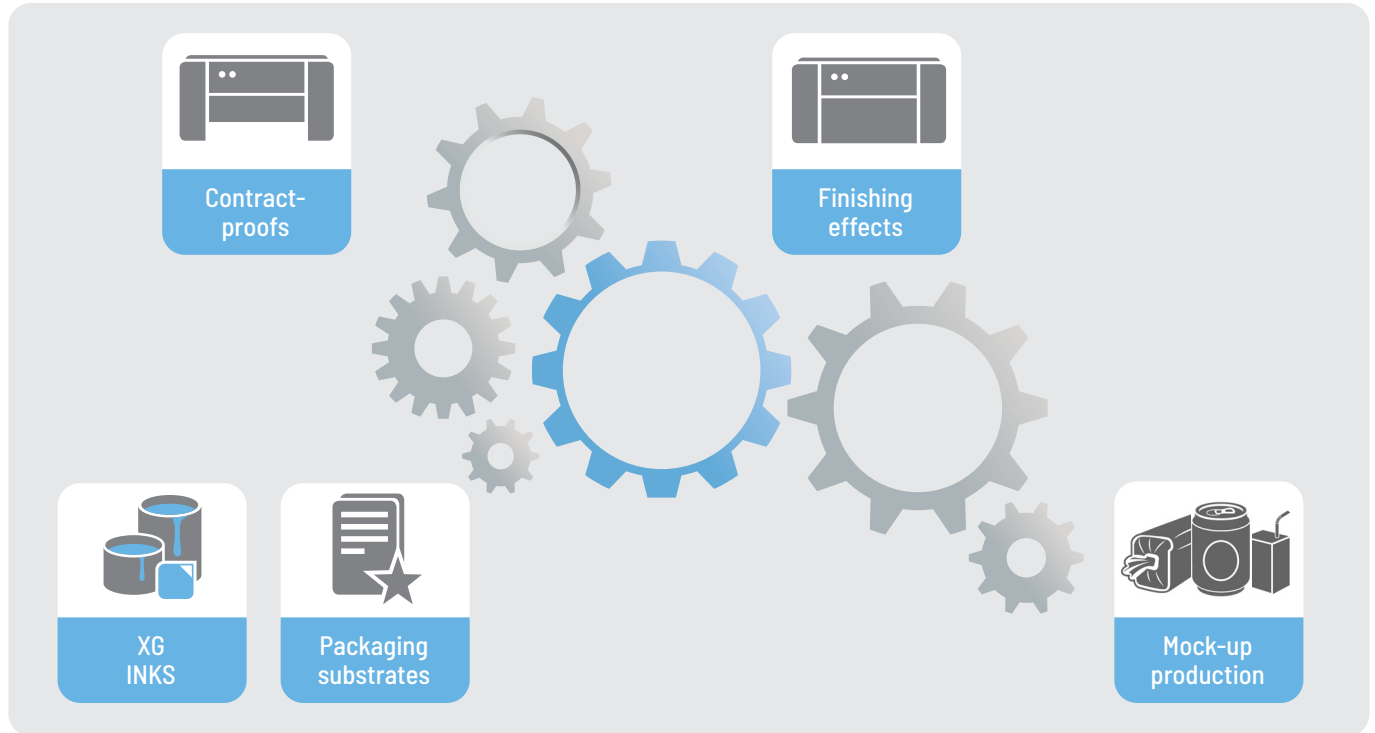
COLOR TUNER supports all commonly used prepress file formats including PDF/X, composite or separated, PDF and PostScript, EPS, DCS, JPEG, TIFF, TIFF/IT-P1, 1-bit TIFF, Esko LEN.

Supported measurement devices

- All current models from X-Rite
- All current models from Konica Minolta
- Barbieri Spectro Swing, LFP/LFP qb and LFP qb NET
- Techkon SpectroDrive, SpectroDens, SpectroJet
- Inline spectrophotometer from Epson and Canon

**CGS
ORIS****FLEX
PACK**

A perfectly tuned system – for color accurate production of packaging proofs and prototypes



Do you need to produce color-accurate packaging proofs and prototypes efficiently and with ease? Are complex finishing effects also a requirement? Then FLEX PACK is the right solution for you! The system was specially developed for these applications and offers everything you need to achieve perfect results accurately and cost-effectively.

A huge advantage: FLEX PACK was designed as a complete system. The ultimate combination of extremely powerful software, specific printer hardware, special extended gamut inks, and a large portfolio of proofing substrates are available. One of these, the PackPROOF Transfer Film, is particularly worth mentioning, as it allows proofs to be made on original substrates.

Of course, all components are perfectly harmonized – creating an ideal workflow and optimal results without any effort.

An additional plus: FLEX PACK was developed in close cooperation with leading companies in the packaging industry and has been used successfully worldwide for many years. End users appreciate the absolute precision, reliability and enormous flexibility of the system.

FLEX PACK and its continuous development benefits from years of packaging experience in coordination with our many customers and partners within the industry – and so do you: The packaging industry is always dynamic and subject to change. We react to these quickly and competently in order to always give our customers the optimum tools to improve their daily business.

Benefits at a glance

- Unique system, especially developed for the production of color-accurate packaging proofs and mock-ups
- Highly efficient and reduced cost to manufacture
- Patented, iterative 4D color management technology
- Perfectly tailored features and modules, e.g. for preflighting, soft proofing and proof certification, support of raster data
- Packaging-related spot color management: Ideal overprinting of spot color using spectral color information
- Perfect visualization of finishing effects like cold foiling, embossing or varnish
- Huge packaging substrate portfolio, specially developed for the needs and requirements of the packaging industry
- Color-accurate proofing on original substrate
- Easy to use, quickly integratable into existing workflows, infrastructures and to any other CGS ORIS application

color your process

A perfectly tuned system - for color accurate production of packaging proofs and prototypes



FLEX PACK - The software for packaging proofs and samples

The software was especially designed for the characteristics and highest requirements of the packaging industry. It is based on our patented iterative 4D color management technology and contains all functions and modules to produce various packaging proofs and packaging samples immediately, easily and cost-effectively. Functions such as preflighting, soft proofing and proof certifications are integrated, raster data such as Esko LEN are supported and the program, naturally has packaging-specific spot color management that converts spectral data natively and even simulates the overprinting of spot colors perfectly. Furthermore, cloud-based color databases such as the CGS ORIS CxF CLOUD or PantoneLIVE can be integrated.

FLEX PACK + Roland DG - The proven classic

In this version, FLEX PACK is with special approved printers from the In contrast to conventional UV printing systems, these work with eco-solvent inks offering a brilliant print image and also white and metallic. Thanks to the specially developed, highly pigmented INKS which also contain orange and green, a colour space is achieved with which almost all special colors can be exactly reproduced.

There are no limitations for the production of packaging proofs and prototypes: From 'no-label-look' labels to stand-up pouches, bottles with shrink film labels to metal or luxury packaging with partial varnishing and embossing in any form that ensure the unique look and the special feel.

Packaging proofs: The PACKProof family

To ensure that you always have the right substrate available for any kind of job, we offer a large selection of proofing media that have been specially developed for this purpose and tailored to the special requirements. Find out more about the broad portfolio of the PackPROOF family and its unique properties.

One key element is the PackPROOF Transfer Film, as it enables the production of packaging proofs and samples on the original production substrate.

Optionally, the system can be upgraded with additional hardware components, such as media preconditioning, drying systems or media holders. We also offer any necessary peripheral equipment, such as laminators, punches and register devices.

The system is fully customizable to your individual needs and requirements.

XG INKS

In addition to the exclusive substrate portfolio, we offer you highly pigmented XG INKS, which were specially developed. They are the basis to produce color-accurated packaging proofs and packaging proofs with an exact representation of special and brand which is really important.

The light colors (Lc, Lm) have been replaced by orange and green and the CMYK inks have been completely redefined. This significantly expands the reproducible color space. For example almost all PANTONE colors can be reproduced with contract proof accuracy.

Simulation of finishing effects

Modern packaging increasingly features complex finishing effects such as partial varnish or embossing. They contribute to the special appearance and feel of a product. Products such as lids or folding cartons made from recycled material are also refined inline today.

However, this causes challenges when producing proofs or prototypes, as these effects could not be reproduced before or they led to color shifts in printing, e.g. by overprinting varnishes.

With the FLEX PACK system, it is also possible to reproduce such effects on a proof or sample perfectly and precisely.

The finest partial matte or gloss varnishes can be produced as well as embossing effects or textured varnishes, whereby both density and the thickness of the varnish layer can be adjusted in the software. Cold foil can also be applied or hot foil stamping can be simulated.

Recommended system configuration

We recommend the following computer equipment for optimum performance and high throughput:

- Intel Core i7 or i9 latest generation, or equivalent
- 16 GB Memory (RAM) or more
- 1 TB SSD or RAID system
- Graphics card: DVI output, DirectX 9c support and Direct 3D acceleration
- Windows Workstation Pro 11, 10
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The exact hardware configuration depends on the type and number of output devices.