



The ultra-high-speed screening engine for inkjet

- Optimizes the quality of your press
- Processes images at ultra-high-speed
- Reduces development time and gets you to market quicker

NOW WITH
PrintFlat™ technology



ScreenPro™ is a multi-level screening engine that improves the print quality from inkjet print heads. It does this by addressing in software many of the quality defects such as chaining, mottling and cross web density non-uniformity, that are difficult and expensive to correct mechanically. It achieves this irrespective of other software choices that may have been made. It can be supplied as a development component, a fully branded user interface that allows input and output folders to be configured, or, as a high-speed pipeline driving print electronics directly.

Unique technology

ScreenPro makes available for the first time, a solution to improve inkjet output quality that works for any inkjet press, with any workflow, any type of ink or substrate and any combination of printhead and electronics.

The improvements that ScreenPro introduces accelerate the development of your press, reducing time to market, and can make the difference between a press that can ship and one that cannot.

Blistering speeds

Multiple ScreenPro engines can be run on the same server or offloaded onto separate computers. This parallel processing of screens leads to blistering speeds, especially with dedicated ScreenPro engines sending print data at press speed directly to the drive electronics driving individual print bars for each color.

Use with any RIP

ScreenPro can be added to any RIP that can create eight-bit (or 16 bit) contone output (e.g. Esko, EFI and Sofha). The advantage of this is that if you have a RIP that consumes a PDL that Global Graphics doesn't support like IPDS and AFP, you can still benefit from Global Graphics' leading edge screening technology. Supporting input from JDF or the PDF Direct option, ScreenPro can integrate with almost any workflow.

Screening pedigree

Global Graphics has a long history in screening innovation dating back to its patented FM or stochastic screening technology of the 1990s. In the age of digital printing, and inkjet in particular, Global Graphics has developed new screening technologies from the ground up in response to press manufacturers' concerns about image quality in single pass inkjet applications.

AT A GLANCE

Screens to optimize print quality for your press

- Absorbent substrates
- Non-absorbent substrates
- Tuned to your hardware, substrate and ink choices

Now with PrintFlat™ Technology

- Corrects for cross web density non-uniformity

Reduces development time and gets you to market quicker

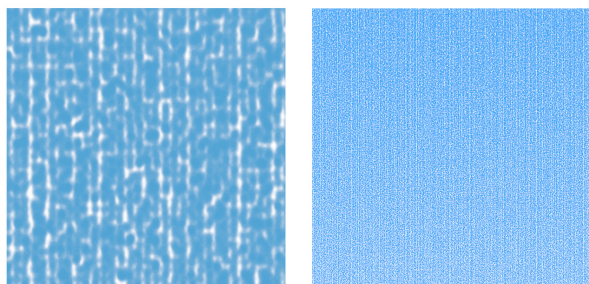
- Available as:
 - White label application that is fully brandable with your logo and styling
 - Cross platform development component to integrate into your workflow solution
 - High speed driver direct to print electronics
 - Use with any RIP, complements any workflow

OPTIMIZE PRINT QUALITY FOR YOUR PRESS

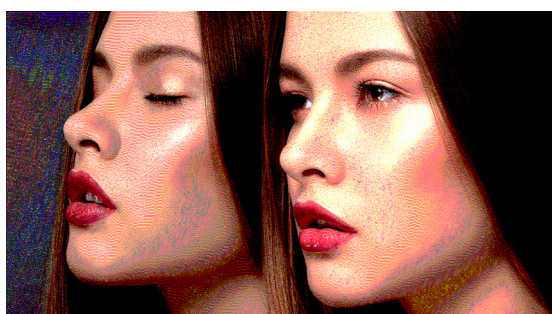
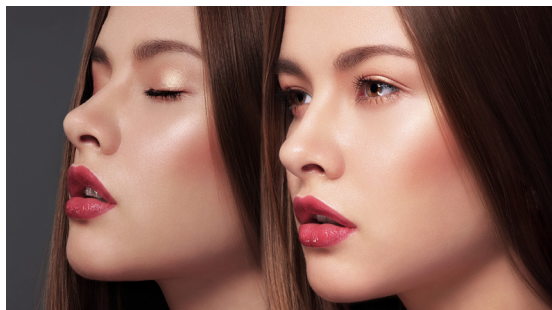
ADVANCED INKJET SCREENS

ScreenPro comes with a standard set of screens that have been tried and tested in the field. In 80% of cases these screens will significantly improve output quality. These "Advanced Inkjet Screens" correct for typical inkjet artifacts such as mottling and streaking. Use "Mirror" screens for non-absorbent media such as plastics or metal and use "Pearl" for absorbent substrates such as paper and board.

Advanced Inkjet Screen tools allow operators to set the drop sizes, transition points and overlap to achieve optimum print quality.



Advanced Inkjet Screens are specifically designed to mitigate common challenges in inkjet prints, such as this streaking.



These microscopic effects cause visible artifacts, often described as mottling

PRINTFLAT TECHNOLOGY

Printflat corrects for density non-uniformity across the web, commonly caused by variation within a print head, between heads or wear on the head(s). These attributes result in banding on the printed output which is very difficult to correct for in hardware, for example by tuning voltages.

In ScreenPro every nozzle can be addressed separately on any head/electronics to achieve very fine granularity. PrintFlat can adjust the density within Screenpro to produce uniform density across a print bar. The process can be automated for closed-loop correction and, unlike correction by adjustment of voltages, there is no effect on jetting stability or head lifetime, nor ink pressure and timing/drop speed variation.



Uncorrected



Corrected

White label application

ScreenPro is available as a white label application that is fully brandable with your logo and styling, ready to go to market. Available on Windows it comes with its own installer and license tool. Output drivers can be developed to convert print data into the format for your printer. A simple file based workflow with accurate ink calculation available out of the box.

Development component

The ScreenPro Core technology is available as a cross platform component to integrate seamlessly into your workflow solution.

ScreenPro Direct

ScreenPro Direct is a high-speed pipeline driving print electronics directly. ScreenPro Direct is independent of electronics manufacturer, and our Technical Services team will write output modules to talk to your inkjet head's electronics. ScreenPro Direct can be run on the same server or offloaded onto separate computers. Parallel processing of screens with dedicated ScreenPro engines driving individual print bars for each color without writing to disk is essential when delivering Variable Print Data at press speed.

Building blocks for your DFE

ScreenPro can be implemented on its own or as part of Fundamentals, Global Graphics' toolkit to build a DFE. Fundamentals provides you with a single source of the key software components that are essential to creating your digital front end. It includes best of breed software and can be used with Global Graphics' BreakThrough software engineering service. Our Technical Services team of experts will help you to breakthrough your technical challenges as you develop your inkjet press and get you to market quickly and will work with you to integrate ScreenPro into your existing workflow to optimize performance and quality for your printer and workflow architecture.

WORK WITH THE EXPERTS!

Global Graphics Software is one of the world's foremost experts in printing, PDF and digital document software. Ours is the software behind the perfect printed and digital communication. Through our various technologies for rendering, screening, and color management, we add value to solutions marketed by the world's leading brands, including HP, Canon, Roland, Delphax and Kodak. Global Graphics Software is a subsidiary of Global Graphics PLC listed on Euronext (GLOG).

OUR CUSTOMERS CHOOSE US BECAUSE:

- Our software is **technically superior** and **performs faster** than our competitors'
- We are **software innovators**
- We have a **flexible and open** commercial model
- We are easy to work with because we have a **partnership approach** to development
- We offer **superb technical support**

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