



## Harlequin<sup>®</sup> ColorPro<sup>™</sup>



**Harlequin ColorPro** for the Harlequin RIP and Harlequin Host Renderer provides excellent color process control, giving accurate, consistent and predictable color reproduction for a wide range of workflows. Harlequin ColorPro provides full support for industry

standard ICC profiles (including device link profiles) avoiding dependence on the generic, system level color management of the computer's operating system.

### ColorPro features include:

- N color profile support
- Grey Profile support
- Custom Rendering Intents
- Global Color Correction in LAB space
- Emulation - Allows for RGB-LAB-CMYK workflows. Based on research and discussions within the ICC body, the future of pre-press workflow will move in part to RGB. This feature will allow an RGB workflow to produce a press accurate proof. Mixed colorspace (RGB/CMYK) page layouts can be accurately proofed as well.
- Black threshold control added to Rendering intents – fine tune the black requirements for your proofs to simulate UCR/GCR requirements.

### In-RIP Color Management

Decisions about color and output devices can be made late in the production process. With Harlequin ColorPro, a job can be targeted (or re-targeted) to a particular printing process or proofer at the last moment, without requiring any changes in the job itself.

### Accurate Color Reproduction on any Device

Reproducing color outside of the color gamut of a particular device is handled by Harlequin ColorPro through the use of "rendering intents", including support for object-based rendering intents.

### Customized Color Corrections

Apply global color corrections (e.g., "warmer", "brighter") using the color slider controls when creating custom rendering intents.

### ICC Profile Support

Harlequin ColorPro provides full support of the ICC profile format (through version 4.x of the ICC specification), defined by the International Color Consortium, to allow the installation and use of any profile meeting this industry standard.

### Unique "Device-Link" Profile Support

Harlequin ColorPro delivers full "device-link" profile support for direct CMYK-to-CMYK color transformations, providing the most accurate color possible while delivering an efficient color production workflow.

### Calibration

Harlequin allows you to keep your output color correct without needing to re-profile frequently by providing a much simpler and faster calibration process that can account for differences between your device and the master for which a profile was made, or for the day-to-day drift that can occur, especially when switching to a new batch of media. Multiple calibration curves are provided to account for variations in different parts of the process separately, e.g. for plate-making and the press.

### PANTONE<sup>®</sup> support

Harlequin ColorPro includes full tables for all PANTONE Uncoated, Coated, Goe and Plus colors. These are used when printing spot colors with process, HiFi or PhotoInk ink sets to ensure accurate color reproduction. The user can choose to use the latest colors from PANTONE

Plus, or to ensure an accurate repeat printing of older jobs by selecting the previous color for each PANTONE color name.

### Fogra certification

Harlequin with ColorPro and the Epson Stylus Pro 7890 has been certified as a FograCert Contract Proofing System by Fogra. This is one of the first such certifications using off-the-shelf Epson papers and inks, demonstrating the exceptional color control provided by the system. Harlequin ColorPro delivers an accurate and optimal use of the proofer's gamut to enable vendors and users to achieve certification with other proofers and through other certification authorities.

## FEATURES

<b>Profiles</b>	ICC input and output profiles ICC device link profiles Harlequin format device profiles Override (pre-existing) profiles in file
<b>Rendering Intents</b>	File-based rendering intents Object based rendering intents: <ul style="list-style-type: none"><li>- Auto-switch within ICC Profile</li><li>- User-configurable</li></ul> User selectable default styles (absolute colorimetric, perceptual, relative colorimetric, saturation) Custom rendering intents Selectable black generation Maximum ink Global color adjustment (color sliders) Selectable default input profiles for CMYK, RGB and Gray data Act on "output intent" profiles in PDF/X and PDF/VT files
<b>Other Controls</b>	Accurate rendering of named PANTONE colors PANTONE Uncoated, PANTONE Coated, PANTONE Goe, PANTONE Plus Preserve 100% process black Selectable paper background Device calibration sets Device emulation Selectable viewing conditions Selectable black-point compensation

Harlequin ColorPro is available in Harlequin Server RIP from v6.0 (Eclipse Release) and later. Features listed above are included in ColorPro for Harlequin Server RIP v9.0.

Global Graphics also provides a ColorTool for making HQ RIP specific profiles called SetGold Pro. This tool insures color accuracy suitable for color proofing, POP printing, digital data being sent CtoP devices along with digital presses.

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[www.globalgraphics.com](http://www.globalgraphics.com)

#### Global Graphics Software Inc.

Somerset Court, Suite 320  
281 Winter Street  
Waltham, MA 02451, USA  
Tel: +1-978-849-0011

#### Global Graphics Software Ltd.

Building 2030  
Cambourne Business Park  
Cambourne, Cambridge  
CB23 6DW UK  
Tel: +44 (0)1954 283100  
Fax: +44 (0)1954 283101

#### Global Graphics KK

704 ALOS Toranomon Bldg.  
1-6-12 Nishishimbashi, Minato-ku,  
Tokyo 105-0003  
Japan  
Tel: +81-3-6273-3740  
Fax: +81-3-6273-3741