Idealliance®

Digital Press Certification Application Data Sheet

EFI Fiery® E-46/E-86 for Ricoh Pro C9200/C9210

Note: Certification is in accordance with Idealliance Digital Press Certification Program v2.3.6

The Idealliance Print Properties Digital Print Working Group has established a certification process for digital production presses (xerographic/inkjet). The following information is intended to assist printers and customers in understanding the printing conditions and how they were achieved and/or to replicate these results on a similar system.

I. Manufacturer

Electronics for Imaging
6750 Dumbarton Circle
Fremont, CA 94555

II. Product Name

EFI Fiery® E-46/E-86 / Ricoh Pro C9200/C9210 / Mohawk Color Copy Gloss Pure White 100 text

III. Overview

Flexible and scalable Fiery servers integrate into any print environment, deliver high performance, image with industry standard precision, and produce accurate color for all environments.
• Deliver professional color and consistency from anyone.
• Color Profiler Suite option provides tools and features to match press standards and monitor colorimetric conformance.
• Decreases set-up time, reduces errors, and costly reprints dramatically.
• Provides high return of investment with a flexible, scalable product line.
• Integrates into all print environments because of its open platform technology.
• Supports variable data printing.

IV. System Components and Printing Procedure

DFE:	EFI Fiery® E-46 / E-86
Software:	Fiery Command WorkStation
	Fiery Color Profiler Suite 5.3
Measurement:	EFI ES-2000 Spectrophotometer
	EFI ES-6000 XL
Printer:	Ricoh Pro C9200/C9210
Paper:	Mohawk Color Copy Pure White Gloss 100 text

Warm-up printer and calibrate
The printer should first be in a warmed-up state before proceeding.
Go to Server : Device Center : General : Tools : Calibrator : Calibrator Settings to set the following Properties:
• Printer Features : Print adjustment mode : High Quality
Next, choose Recalibrate, from the Calibrator's main screen.
• Select Calibration name : Coated-Glossy
Use of EFI ES-2000 Spectrophotometer is recommended for calibration.
• Settings : Select Large patch size
• Measurement method : EFI ES-2000
• Patch set : 51 Random
• Paper source : *[choose the paper tray with Mohawk 12x18 loaded]*
Complete and Apply the calibration process.

Create an output profile
The following print properties are used to capture the printer's calibrated state for creating an ICC profile. Any other settings should be set to the server's factory defaults with the exception of media tray settings. Print the Digital Press Form 1 PDF bypassing color conversion.
• Media : Paper type : Coated–glossy
• Media : Paper weight : Paper weight 4 (105.1 – 163.0 g/m2)
• Color : Output profile : Fiery Pro C9200-C9210 Coated-Glossy v1FR
[or any output profile associated with the calibrated Coated-Glossy Calibration]
• Color : Color Input : CMYK source : Bypass conversion
• Color : Color Settings : Black overprint (for pure black) : Off
• Color : Color Settings: Black text and graphics : Normal
• Image : Halftone mode : 200 dot + fine text

Next measure the IT8.7/4 section of printed (Bypass conversion) Digital Press Form 1 with i1Profiler, using an ES-6000 XL, in M1 (D50) measurement mode. Save the measurements in Custom CGATS format, with CMYK input and L* a* b* data included.

Create a printer profile with Fiery Color Profiler Suite. Click the "Convert Measurements to Profile" option.
Import measurements from Measurement file.
At the Apply settings pane, select the "Fiery Edge Factory Default Profiles : CMYK(Toner)" profile preset. Set the following profile settings.
Edit Black Controls : Black Controls : Basic black controls : Black start : 20%
Edit Black Controls : Black Controls : Basic black controls : Black generation : 75%
Edit Black Controls : Black Controls : Basic black controls : Black width : 30%
Save the new output profile to the server or as a local file to import later.
Important, Associate the output profile with the Coated-Glossy calibration set when importing into Command WorkStation.
If difficulties meeting the colorimetric tolerances of Section 2.2 are encountered, it is recommended that a press technician be consulted to ensure the press is performing in peak condition. It is also important that the print engine's environment is within its optimum humidity range.

Print the Digital Press Forms

Use the following set of print properties as a baseline for printing the press forms. There are individual exceptions for some of the press forms that will be noted.

- Color : Output profile : *[newly created output profile]*
- Color : Color Input : CMYK source : GRACoL2013 CRPC6 (EFI)
- Color : Color Input : CMYK rendering intent: : Absolute Colorimetric
- Color : Color Input : Print CMYK gray using black only : Off
- Color : Color Settings : Black overprint (for pure black) : Off
- Color : Color Settings : Black text and graphics : Normal
- Image : Halftone mode : 200 dot + fine text

For Digital Press Form 3 (Section 2.5), it is advised to recalibrate the engine using Fiery Calibrator prior to the 24-hour test prints.

For Digital Press Form 4 (Section 2.6), turn on Black overprint.

- Color : Color Settings : Black overprint (for pure black) : Text/Graphics
- Color : Color Settings : Black text and graphics : Pure Black On
- Image : Edge enhancement : Edge enhancement : check on

For Digital Press Form 6 (Section 2.8, 2.9, 2.10) turn off color processing.

- Color : Color Input : CMYK source: ColorWise OFF

V. Finishing Procedures (Optional)

VI. Additional Data (Optional)

Users can also achieve this match using Color Profiler Suite (CPS) with EFI ES-6000. Launch CPS and select Create Profile Printer Module. Select “Print Patches”. Specify 1617 random (CGATS IT8.7/4) patch set. Select “Use Current Calibration”, under Print Patches : Expert Settings. Set Print Properties as specified in the “Create an output profile” section above. Measure patches with the EFI ES-6000 as directed by the Fiery Printer Profiler, being sure to set M1 measurement condition.

Device Linker “Match to a Standard” iterative profile enhancement can be used to refine color match precision if desired.