



Digital Press Certification Application Data Sheet

EFI Fiery Color Controller E-42 and E-82 for

Ricoh Pro™ C901 Graphic Arts + / Ricoh Pro™ C901s Graphic Arts +

Note: Certification is in accordance with IDEAlliance Digital Press Certification Program v2.2

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
303 Velocity Way
Foster City, CA 94404

II. Product Name

Ricoh Pro™ C901 Graphic Arts + / EFI Fiery Color Controller E-42 or E-82 / Fiery FS100 Pro /
EFI Laser Proof Paper XF130 Semimatt
Ricoh Pro™ C901s Graphic Arts + / EFI Fiery Color Controller E-42 or E-82 / Fiery FS100 Pro /
EFI Laser Proof Paper XF130 Semimatt

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:	Fiery Color Controller E-82
Software:	Fiery Command WorkStation Fiery Color Profiler Suite X-Rite ColorPort
Measurement:	EFI ES-2000 Spectrophotometer Eye-one iSis XL
Printer:	Ricoh Pro C901S
Paper:	EFI Laser Proof Paper XF130 Semimatt 130 gsm

Warm-up printer and calibrate

The printer should first be in a warmed-up state. To accurately calibrate the printer, a new calibration set should be created. Go to Device Center : General : Tools : Calibrate : Preferences to set the following properties:

- Measurement method : EFI ES-2000
- Patch layout : 34 Sorted Patches

Next, choose Calibrate : Manage and create a new calibration set, by clicking “Create New..”, and using Coated-Glossy as you basis for print properties. Set a Name and Recommended Paper for the new calibration set, being sure to also set the following properties:

- Job Info : Copies : 5
- Media : Paper weight : Paper weight 4 (105.1 – 163.0 gsm)
- Media : Paper type : Coated-glossy
- Image : Halftone mode : 175 line + fine text

It is advisable to have a least 4 pages printed before measuring. Measure the last calibration sheet that’s printed. Save the newly created calibration set, and output profile based off the “Coated-Glossy” standard profile.

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 (pick what is appropriate for your configuration). Print the Digital Press Form 1 PDF bypassing color conversion.

- Adobe PDF Print Engine Preferred : Off
- Job Info : Copies : 5
- Media : Paper type : Coated-glossy
- Media : Paper weight : Paper weight 4 (105.1 - 163.0 gsm)
- Color : Expert Settings : Color Input : CMYK/Grayscale : Bypass conversion
- Color : Expert Settings : Gray & Black Processing: Gray : CMYK : Off
- Color : Expert Settings : Gray & Black Processing : Black : Black text and graphics : Normal
- Color : Expert Settings : Output : <new calibration set name>
- Image : Halftone mode : 175 line + fine text

Next measure the IT8.7/4 section of the last printed press form into ColorPort, using the Eye-one iSis XL, including UV measurements. Save the measurements in the CGATS format, conversion none.

Note: While Fiery Color Profiler Suite recognizes this measurement file format, the line with “DEVCALSTD XRGA” present in certain measurement file headers should be commented out or deleted. This allows the ColorPort measurement file to conform to the CGATS file specification and successfully read by Fiery Color Profiler Suite.

Create a printer profile with Fiery Color Profiler Suite. Skip to the “Convert Measurements to Profile” module. At the Apply Settings pane set:

- Settings : Generic CMYK
- Edit Black Controls : Black Start : 10%
- Edit Black Controls : Black Generation : 90%

Import Settings... from Coated-Glossy profile and/or Optimize colorimetric precision can be used as necessary.

It is important to insure that the “Include ColorWise calibration goal” is Off, if available. Save the new output profile to the server, or as a local file to import later. Associate the new output profile with your previously created calibration set when importing into Command WorkStation.

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.

- Adobe PDF Print Engine Preferred : Off
- Media : Paper type : Coated-glossy
- Media : Paper weight : Paper weight 4 (105.1 - 163.0 gsm)
- Color : Expert Settings : Color Input : CMYK/Grayscale : GRACoL2006 Coated1 (EFI)
- Color : Expert Settings : Color Input : CMYK/Grayscale : Processing method : Full (Output GCR)
- Color : Expert Settings : Color Input : CMYK/Grayscale : Paper simulation : On
- Color : Expert Settings : Gray & Black Processing: Gray : CMYK : Off
- Color : Expert Settings : Gray & Black Processing : Black : Black text and graphics : Normal
- Color : Expert Settings : Output : <newly created profile>
- Image : Halftone mode : 175 line + fine text

For Digital Press Form 4 (Section 2.6) make these changes to the black handling and image options.

- Color : Expert Settings : Gray & Black Processing : Black : Black text and graphics : Pure Black On
- Color : Expert Settings : Gray & Black Processing : Black : Black overprint (for pure black) : Text

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

- Color : Expert Settings : Color Input : CMYK/Grayscale : ColorWise OFF

For Digital Press Form 3 (Section 2.5), the repeatability test.

It is recommended for best results to perform calibration prior to making these prints. Always use the same device as the initial Fiery Calibration.

V. Finishing Procedures

VI. Additional Data (Optional)

Users can also achieve this match using Color Profiler Suite (CPS) with EFI ES-2000. 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-2000 as directed by the Fiery Printer Profiler. Import Settings from “Coated-Glossy” profile or use generic CMYK or custom settings as necessary.

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