



## Digital Press Certification Application Data Sheet

# Xerox® FS100 Pro Print Server, Powered by Fiery®, for the Xerox® Color C75 Press and Xerox® ColorJ75 Digital Color Press

**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

Xerox Color C75 Press / Xerox FS100 Pro Print Server, Powered by Fiery / System 10 / Xerox Digital Color Elite Gloss 80lbs. (120 gsm) and

Xerox Color J75 Press / Xerox FS100 Pro Print Server, Powered by Fiery / System 10 / Xerox Digital Color Elite Gloss 80lbs. (120 gsm)

### 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:	Xerox FS100 Pro Print Server, Powered by Fiery
Software:	Fiery Command WorkStation Fiery Color Profiler Suite X-Rite ColorPort
Measurement:	EFI ES-1000 Spectrophotometer Eye-one iSis XL
Printer:	Xerox Color C75 / Xerox Color J75 Press
Paper:	Xerox Digital Color Elite Gloss 80lbs. (120 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-1000
- Patch layout : 34 Randomized Patches

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

- Job Info : Copies : 5
- Media : Media weight : 106-128 gsm
- Media : Media type : Coated
- Job Info : Copies : 5
- Image : Printer screen mode : Enhanced text

It is advisable to have at least 4 pages printed before measuring. Measure the last calibration sheet printed, and save the newly created calibration set and the output profile based off of the ‘Coated 120 gsm’ 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.

- Job Info : Copies : 5
  - Media : Paper Catalog: 12x18 120 gsm Elite Gloss
- Note: Paper Catalog makes the following Media selections:
- Media : Media weight : 106-128 gsm
  - Media : Media type : Coated
  - 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 : *[newly created calibration place holder]*
  - Image : Printer screen mode : Enhanced text

Next measure the IT8.7/4 section of the last printed press form with ColorPort, using an Eye-one Sis 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 XRGB" 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. After importing your measurements, make the following Black Control Settings, at the Apply Settings Pane:

Maximum total Ink: 260  
Maximum Black Ink: 100  
Black Start: 0  
Black Generation: 90  
Increase black in shadows: 0  
Maximum CMYK density ratio: 75  
Black Width: 75  
Black amount to extend gamut: 100

Also, it is advisable to check the Optimize colorimetric precision option ON, for best delta E matching. It is also important to ensure 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 this 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.

- Media : Paper Catalog: 12x18 120 gsm Elite Gloss
- 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 output profile]*
- Image : Printer screen mode : Enhanced text

For Digital Press Form 4 (Section 2.6) be sure to use these print properties.

- 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/Graphics

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 (Optional)

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## VI. Additional Data (Optional)

Users can also achieve this match using Color Profiler Suite (CPS) with EFI ES-2000 or other supported spectrophotometer. 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-1000 as directed by the Fiery Printer Profiler. Import Settings from the server or use generic CMYK and custom settings as necessary.

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