Digital Press Certification Application Data Sheet

Xerox® EX C60/C70 Print Server Powered by Fiery®

Xerox® EX-i C60/C70 Print Server Powered by Fiery®

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
6750 Dumbarton Circle
Fremont, CA 94555

II. Product Name

Xerox® EX C60/C70 Print Server Powered by Fiery® / Xerox Color C60/C70 Printer / 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: Xerox® EX C60/C70 Print Server Powered by Fiery®
Software: Fiery Command WorkStation
                   Fiery Color Profiler Suite 4.5
                   X-Rite ColorPort
Measurement: EFI ES-2000 Spectrophotometer
                   Eye-one iSis XL
Printer: Xerox Color C60/C70 Printer
Paper: EFI Laser Proofing Paper XF130 Semimatt

Warm-up printer and calibrate
The printer should first be in a warmed-up state before proceeding.

Use of EFI ES-2000 Spectrophotometer is recommended for calibration. Go to Device Center : General : Tools : Calibrate : Preferences to set the following Properties:
• Calibration method and patch layout : Measurement method : EFI ES-2000
• Calibration method and patch layout : Patch layout : 21 Sorted Patches
• Fiery Color Profiler Suite – Printer Profiler : Measurement method : X-Rite i1iSis XL
• Fiery Color Profiler Suite – Printer Profiler : Settings : Measurement mode : M0 – UV included
• Fiery Color Profiler Suite – Printer Profiler : Patch layout : 1617 random (CGATS IT8.7/4)

Next, choose Calibrate : Manage calibration settings. To create a new calibration set, by clicking "Create New...". Use "Coated Gloss Text" as the basis for the printing properties. Set Name and Recommend Paper for the new calibration set, being sure to set the following properties:
• Job Info : Copies : 5
• Media : Media weight : 129-150 gsm
• Media : Media type : Coated 1
• Image : Printer screen mode : Enhanced text
• Finishing : Output delivery : Face up - reverse order

Measure the last calibration sheet that is printed. Save the newly created calibration set, and (placeholder) output profile based off the "Coated Gloss Text" standard profile.

Create an output profile
Create a printer profile with Fiery Color Profiler Suite. Start at Create Printer Profile : Print Patches. Connect to the Fiery with the Select Fiery Server pull down. At the Print Settings window make the following settings.
• Instrument : X-Rite i1iSis XL
• Instrument : Settings : Measurement mode : M0 – UV included
• Patch Layout : 1617 random (CGATS IT8.7/4)

Print the patches making sure to make the following Job Property selections
• Job Info : Copies : 5
• Media : Media weight : 129-150 gsm
• Media : Media type : Coated 1

• 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 set placeholder name]*
• Image : Printer screen mode : Enhanced text
• Finishing : Output delivery : Face up - reverse order

Measure the last profiling patch page printed, and save the measurements.

From the Import settings option, select the "Generic CMYK" profile preset. Change the following profile settings:
Gamut Mapping : Colorimetric Mapping : Closest dE (closest numerical match)
Edit Black Controls : Maximum total ink : 300%
Edit Black Controls : Black start : 5%
Edit Black Controls : Black Generation : 90%
Edit Black Controls : Maximum CMYK density ratio : 100%
Profile optimization : Optimize colorimetric precision : disable

Save the new output profile to the server or as a local file to import later.
Important : Associate this output profile with the newly created 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. Re-create an ICC profile from new measurements if press service has been preformed, or environmental conditions have changed significantly.

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. It maybe advantageous to create a Job Properties Preset (at Device Center : Workflows : Job Presets) as a base line of Job Properties.
• Media : Media weight : 129-150 gsm
• Media : Media type : Coated 1
• 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
• Finishing : Output delivery : Face up - reverse order

For Digital Press Form 3 (Section 2.5), it is advised to recalibrate the engine using Fiery Calibrator prior to the 1-hour and 24-hour test prints.

For Digital Press Form 4 (Section 2.6), turn on Black overprint.
• Color : Expert Settings : Gray & Black Processing : Black : Black text and graphics : Pure Black On
• Color : Expert Settings : Gray & Black Processing : Black : Black overprint : Text/Graphics
• Image : Text/graphics quality : Best

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

V. Finishing Procedures (Optional)

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 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.