



Digital Press Certification Application Data Sheet

EFI Fiery IC-306/IC-3600 for Konica-Minolta bizhub PRO® C6000/C7000/C8000

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



Certified: September 6, 2011

II. Product Name

Konica-Minolta bizhub PRO® C8000 / EFI Fiery IC-306 or IC-3600 / System 9R2 / EFI Laser Proof Paper XF130 Semimatt
Konica-Minolta bizhub PRO® C7000 / EFI Fiery IC-306 or IC-3600 / System 9R2 / EFI Laser Proof Paper XF130 Semimatt
Konica-Minolta bizhub PRO® C6000 / EFI Fiery IC-306 or IC-3600 / System 9R2 / 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:	EFI Fiery Fiery IC-3600
Software:	Command Work Station EFI Color Profiler Suite Xrite ColorPort
Measurement:	EFI ES-1000 Spectrophotometer Eye-one iSis XL
Printer:	Konica-Minolta bizhub PRO® C8000
Paper:	EFI Laser Proof Paper XF130 Semimatt 130 gsm

Printer Configuration

The Line 190 screen is used for stability and uniformity reasons. This can be enabled from the bizhub PRO's LCD.

Press the Utility button. 03 Administrator Settings, 01 System Settings, 05 Expert Adjustment, 07 Quality Adjustment, 05 Custom Screen. Set Line 1 equal to Line 190. Press Ok and then Exit.

Press the Utility button. 02 User Setting, 07 Image Quality Setting, 01 Screen. Set Line 1 equal to Permission. Press Ok and then Exit.

Warm up printer and calibrate

The Fiery Calibrator does not support printing of the Line 1 screen, and so the calibration page needs to be printed directly with Command Work Station. Import the calibration page, ES1000_Tabloid.eps, from the UserSW CD. Calibration pages can be found in the subdirectory: Calibration Files, Halftone Calibration Files, Other Applications.

Set the following Print Properties and print. It is advisable to print five or more copies, measuring the last print:

- Media : Paper weight : 106-135 g/m2
- Media : Paper type : Coated-ML
- Media : Output paper size : 12x18
- Color : Color Management : CMYK : ColorWise OFF
- Color : Color Management : Gray and black : CMYK : Off
- Color : Color Management : Expert Settings : Gray and Black Processing : Black text and Graphics : Normal
- Color : Color Management : Expert Settings : Gray and Black Processing : Black Overprint : Off
- Image : Advanced : Image halftone screen : Line 1

Perform Fiery Calibration using EFI ES-1000 Spectrophotometer and selecting the Coated-ML Calibration Set.

Create an output profile

Set "Fiery 80C-KM Matte Coated v1F" as the Default Output Profile in Command Work Station at Device Center : Color Setup : Color Management.

Print the Digital Press Form 1 pdf bypassing color conversion. Follows are the Print Properties needed to capture the Printers calibrated state, for creating an ICC profile. Any other settings should be set to the server's factory defaults besides some exceptions such as media tray settings.

- Media : Paper weight : 106-135 g/m2
- Media : Paper type : Coated-ML
- Color : Color Management : CMYK : Bypass Conversion
- Color : Color Management : Gray and black : CMYK : Off
- Color : Color Management : Expert Settings : Gray and Black Processing : Black text and Graphics : Normal
- Color : Color Management : Expert Settings : Gray and Black Processing : Black Overprint : Off
- Color : Color Management : Output Profile : Fiery 80C-KM Matte Coated v1F
- Image : Resolution : 1200dpi
- Image : Advanced : Image halftone screen : Line 1

Next measure the IT8.7/4 section of the press form into ColorPort, utilizing the Eye-One iSis, including UV data. Save the measurements in the CGATS format, conversion none.

Note: While Fiere Color Profiler Suite recognizes this format, the line with "DEVICALSTD 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 be successfully read by Fiere Color Profiler Suite.

Create Printer Profile with EFI Color Profiler Suite. Skip to Convert Measurements to Profile. Import settings from Fiere by following the GUI's instructions, and select the Fiere 80C-KM Matte Coated v1F profile. Generic or custom settings can also be used as needed. It is important to insure that the "Include ColorWise calibration goal" is Off. Save the new output profile to the server, or to a local file and import to the server.

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 weight : 106-135 g/m2
- Media : Paper type : Coated-ML
- Color : Color Management : CMYK : GRACoL2006 Coated 1 (EFI)
- Color : Color Management : CMYK : Full (Output GCR)
- Color : Color Management : Gray and black : CMYK : Off
- Color : Color Management : Output Profile : <newly created XF130 Profile>
- Color : Color Management : Expert Settings : Color Input : Paper Simulation : On
- Color : Color Management : Expert Settings : Gray and Black Processing : Black text and Graphics : Normal
- Color : Color Management : Expert Settings : Gray and Black Processing : Black Overprint : Off
- Image : Resolution : 1200dpi
- Image : Advanced : Image halftone screen : Line 1

For Digital Press Form 4 (Section 2.6) make these changes to the black handling:

- Color : Color Management : Expert Settings : Gray and Black Processing : Black text and Graphics : Pure Black On
- Color : Color Management : Expert Settings : Gray and Black Processing : Black Overprint : Text

For Digital Press Form 6 (Section 2.8, 2.9, 2.10) turn off color processing, and special text / line control.

- Color : Color Management : CMYK : ColorWise Off
- Image : Advanced : Text thinning / Reversed text enhancement : 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 Fiere Calibration.

V. Finishing Procedures (Optional)

N/A

VI. Additional Data (Optional)

Users can also achieve this match using Color Profiler Suite (CPS) with EFI ES-1000. 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 Fiere Printer Profiler. Import Settings from "Fiere 80C-KM Matte Coated v1F", 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.