



Certified 07/07/08



## Off-Press Proof Application Data Sheet

# Canon iPF x100 Series Printer with EFI XF Technology for SWOP Coated #3

The IDEAlliance Print Properties Working Group has established a certification process for off-press proofs as input material to publications. In accordance with this process: "The appearance of a hard copy or monitor proof used in this application must have the ability to closely match specific CGATS or other documented characterization data sets within outlined tolerances. See further explanations and recommendations outlined on [www.swop.org](http://www.swop.org) or [www.gracol.org](http://www.gracol.org).

The following information is intended to assist producers and consumers in the use of vendor specified proofing materials in an off-press proof application:

### I. Manufacturer

Canon USA  
One Canon Plaza  
Lake Success, NY 11042

### II. Product

Canon iPF x100 series inkjet printer with the EFI XF software RIP technology and EFI Validation 190/155 Offset Proofing media.

### III. Introduction

The Canon iPF x100 Series printers including the iPF 5100/6100/8100/9100 models bundled with EFI XF RIP Technology and the EFI Validation 190 Offset Proofing media create a contract quality inkjet proofing system capable of producing off-press proofs as defined by the SWOP and GRACoL specifications for off-press proofing.

### IV. Control Guide

IDEAlliance specifies a control guide such as an ADS Proofing Certification Strip be supplied on every off-press proof. As a minimum, this guide should contain solids for the primary process colors (YMCK), two-color overprints (RGB) and a three-color overprint (YMC), as well as a 25%, 50%, and 75% tint in stated line screen resolution of each of the primary process colors and 3-color gray patches. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the creator.



## **V. System Components**

The following components and limited procedures shall be used with the Canon iPF x100 printer in order to achieve conformance with this Application Data Sheet.

The EFI XF proofing system consists of the latest version of EFI XF software (Fiery XF, Colorproof XF, Xpress version 3.1 or greater), EFI Validation 190 Offset Premium Proofing Media, a Canon iPF x100 series printer, an X-Rite DTP70 spectrophotometer and the EFI validation 190 media profiles for the Canon iPF series printer available for download at: <http://www.efi-media.com>.

Uncompress the .icc and .epl files from the download site. Place these files in the: C:\Program Files\EFI\XF Profiles\My Profiles directory on the EFI Server.

In a few moments these profiles will be available in the EFI Colorproof XF Client. In the Colorproof XF Client access the system manager and create a new workflow. Configure this workflow to match the requirements of your specific proof workflow. On the Color tab, choose the SWOP2006\_Coated3v2.icc profile as the CMYK source reference profile. Choose the Absolute colorimetric rendering intent. Save the changes to your workflow.

Connect this workflow to your Canon output device. On the Quality tab of the selected output device choose the Canon Pigment ink type, then choose the EFI Validation 190 Offset paper. Save these changes as a new Media Set and save the changes to the output device.

To validate and/or optimize your new SWOP workflow, launch the LinTool or ColorManager Tool and optimize this workflow to conform to a maximum delta E of less than 6.0 and an average delta E of less than 1.5 per the SWOP specifications for off-press proof conformance.

## **VI. Finishing Procedures**

No special finishing procedures are required for the Canon iPF x100 Printer with EFI XF technology Proofing system.

## **VII. Finished Proof Characteristics**

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the ADS Proofing Certification Strip having been properly made to all the listed system components and finishing procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

This system should be verified using an X-Rite DTP70 without an UV filter in place.

## **VIII. Sample Proofs**

Canon USA has supplied three (3) sets of hard copy proofs for retention or has had their monitor system verified that it conforms to this Application Data Sheet by an IDEAlliance certifying contractor.

## **IX. Additional Proof Data**

No additional proof data is required for the Canon iPF x100 Printer with EFI XF technology Proofing system.

**Appendix 1**  
**Characterization Data CIELab Values**

**IDEAlliance ISO 12647-7 Digital Control Strip 2007 for GRACoL 2006 Coated #1**

Patch ID	CIELab Data			Maximum
	L*	a*	b*	$\Delta E$ -2000
A1	30.05	-22.65	-28.82	-
A2	54.96	-37.12	-50.00	7
A3	66.60	-25.13	-37.01	-
A4	82.64	-9.99	-17.85	-
A5	26.45	41.59	-1.73	-
A6	47.93	74.11	-3.01	7
A7	60.35	51.93	-5.67	-
A8	80.03	20.38	-5.35	-
A9	48.53	-5.30	49.19	-
A10	88.94	-5.02	93.17	7
A11	90.56	-4.57	63.58	-
A12	92.84	-2.51	24.77	-
A13	52.53	-53.19	-19.34	-
A14	37.89	52.56	-22.07	-
A15	70.88	22.91	72.40	-
A16	50.86	15.13	33.06	-
A17	42.17	33.42	13.25	-
A18	34.60	23.09	-17.15	-
A19	52.45	-18.04	26.12	-
A20	36.56	-1.43	-26.62	-
A21	92.88	-0.08	-1.96	-
A22	87.93	-0.20	-1.98	-
A23	77.43	-0.40	-1.93	-
A24	59.77	-0.53	-1.61	-
A25	39.75	-0.57	-1.02	-
A26	25.57	-0.21	-0.53	-
A27	14.95	0.19	-0.14	7

Patch ID	CIELab Data			Maximum
	L*	a*	b*	$\Delta E$ -2000
B1	15.18	8.84	-24.61	-
B2	24.13	17.20	-46.14	7
B3	40.84	17.09	-35.77	-
B4	69.57	8.37	-19.26	-
B5	26.22	35.38	24.54	-
B6	47.37	68.25	48.79	7
B7	59.09	47.55	39.25	-
B8	78.62	17.92	18.20	-
B9	28.47	-39.38	12.04	-
B10	50.12	-68.43	25.00	7
B11	62.69	-41.44	20.96	-
B12	80.64	-14.75	8.25	-
B13	42.57	-16.27	-48.19	-
B14	48.28	70.95	17.76	-
B15	72.70	-25.21	65.09	-
B16	70.23	19.71	18.63	-
B17	53.40	36.61	28.63	-
B18	41.61	32.01	26.83	-
B19	45.40	-26.20	-3.82	-
B20	95.00	-0.02	-1.96	3
B21	92.43	0.19	-2.06	-
B22	86.74	0.31	-2.04	-
B23	75.52	0.07	-1.50	-
B24	57.54	-0.12	-1.44	3
B25	39.39	-0.30	-0.55	-
B26	23.00	0.17	-0.25	-
B27	8.46	0.34	0.44	-

**Note:** Color is measured with a calibrated EyeOne Pro spectrophotometer.