Digital Press Certification Application Data Sheet

HP Indigo 5600/7600 Digital Press, CGS ORIS Press Matcher // Web, Sterling Ultra Digital

Note: Certification is in accordance with IDEAlliance Digital Press Certification Program v1.0

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

Color management:
CGS Publishing Technologies International LLC
100 North Sixth Street
Minneapolis, MN 55403
USA
Presses:
HP Indigo Division

Certified on April 30, 2012

II. Product Name

1. *HP Indigo 5600 Digital Press / HP SmartStream Production Pro Print Server 4.5 / ORIS Press Matcher // Web / Sterling Ultra Digital 148gsm*

2. *HP Indigo 7600 Digital Press / HP SmartStream Production Pro Print Server 4.5 / ORIS Press Matcher // Web /Sterling Ultra Digital 148gsm*

III. Overview

CGS ORIS Press Matcher // Web uses patented iterative color matching technology to stabilize the grey balance of a press and enable cross-fleet color matching to any desired color specification. Intended markets are digital matching to offset quality in commercial printing, photobook and book printing.

HP Indigo leading the market with it's a varied presses for the commercial, photo, direct mail, labels and packaging market. HP Indigo presses have the highest digital quality in the market with offset look and feel, flexibility and unmatched color capabilities including 7 ink stations and any spot color. Its image quality, unmatched color consistency, accuracy and offset matching make it the perfect solution for short runs and VDP jobs.

IV. System Components and Printing Procedure

HP SmartStream (setup)

- The HP Indigo digital press is calibrated, using HP recommended procedures, on the recommended substrate.

- A ticket template with ICC color management disabled is used on the HP *SmartStream Production Pro Print Server* to create the color match (see *HP SmartStream Production Pro Print Server – User Guide*).

CGS ORIS Press Matcher // Web (color match)

- The ORIS Press Matcher // Web (PMW) **Add Queue** wizard is used to create an iterative color match to the ISO 12647-8 color space using the wizard-based instructions clearly presented on-screen

- Target ICC profile is **GRACoL2006_Coated1.txt** (available at www.gracol.org)

- Test Chart is **IT8.7/4**, which is included in **Digital Press Form 1_v2.1.pdf** (available at www.idealliance.org, *Digital Print Certification downloads*)

- These options are enabled for color matching: **Keep K100, Keep pure black**

- For each iteration, PMW will deliver an IT8.7/4 test chart to the input folder of the HP *SmartStream Production Pro Print Server*. The sheet is then printed using the ticket template without color management (5 copies).

- The sheet is measured using the X-Rite i1 iSis spectrophotometer. When prompted by the **Add Queue** wizard, the measurement is loaded and results are reported in dE2000.

- For each iteration, PMW will optimize the color and build an optimized color table. Normally two iterations will suffice to bring the press within ISO 12647-8. The operator has the option to continue with a further iteration, if required. The expected average and maximum dE2000 are < 0.8 and < 4, respectively.

- After the iterative color match is complete, the PMW wizard offers to generate a device link ICC profile.

HP SmartStream (finish workflow)

- The device link ICC profile is imported using the Manage ICC Profiles function in SmartStream. Then it is assigned to the CMYK input profile for in SmartStream's ticket template.

V. Finishing Procedures (Optional)

VI. Additional Data (Optional)