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Digital Press Certification Application Data Sheet

Ricoh Company Limited – RICOH Pro VC70000

Note: Certification is in accordance with Idealliance Digital Press Certification Program v2.3 (Increment version number as necessary)

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

Ricoh Company Limited - 6300 Diagonal Highway, Boulder, CO 80301

II. Product Name

RICOH Pro VC70000

III. Overview

The RICOH Pro VC70000 is an aqueous pigment (extended gamut) based continuous feed ink jet printer. Printing at speeds up to 150 m/m on a variety of coated and uncoated stocks. It has a variety of application verticals but focuses on Direct Mail and Commercial Print Applications.

The RICOH Pro VC70000 is driven with RICOH's TotalFlow R600a Print Server. It is an intelligent and robust print controller that enables users to build and mange jobs for offset and digital through one common interface. Designed specifically for commercial print environments that utilize the prepress workflow system and employ a combination of offset presses and TICOH digital printing systems. It creates a hybrid model workflow, which allows these mixed environments to realize and capitalize on a true offset to digital conversion model.

IV. System Components and Printing Procedure

4 over 4 High Speed Inkjet Duplex Engine. Aqueous Based Pigment Inks. Perform System Calibration/Linearization and create an ICC Profile for the specific media.

No additional fluids other than the primary CMYK Pigments inks were used to create any of the printed output.

System Components

Printer: RICOH Pro VC70000

DFE: TotalFlow Print Server R600a

Paper: Verso Sterling Ultra Gloss 118 GSM

Software: X-Rite i1Profiler, Curves4

Measurement: Konica Minolta FD9 Spectrophotometer

Printing Procedure

Set Media information in Printer

1) Load Paper on Print Engine.

2) Perform alignment (validate the alignment of jetting, start/stop) and uniformity (validate print head to print head densities)

3) Move to ICC creation process.

Create a printer profile with i1Profiler.

1) In i1Profiler, change “User Mode” to “Advanced”.

2) In “Printer” menu, select “CMYK printer” at Device selection and click “Profiling”.

3) In “Test Chart” step, load TC1617 and click “save as” button to save the patch data as pdf.

4) Print “Test Chart”

5) Measure results with FD9 Spectrophotometer and import to i1Publish.

6) In the “measurement tab”, load data, import the FD9 Spectral Measurement CGATs text into i1Publish.

7) In “Profile Setting” step, set “Total Ink Coverage” to 210, Put a check mark to “use intelligent black” and go to the next step and use default profiling settings.

8) In “ICC Profile” step, input File name and click “Create and save profile” to create the Printer profile. (the created file format is “icm”.)

Print the Digital Press Forms.

1) Save the Digital Press Forms and the created profile on the DFE.

3) Import the created profile to the Color Management Tab on the DFE.

4) Select the newly created ICC Profiles as the Printer Profile

5) “Color” menu: Input Profiles: CMYK input profile: “GRACoL2013 CRPC6”

6) “Color” menu: Printer Profiles: Printer profile, front: (the imported profile)

7) “Color” menu: Printer Profiles: Rendering intent: “Relative Colorimetric”

8) Verify G7 performance via Curves4 software.

V. Finishing Procedures (Optional)

Roll to Sheet for delivery for testing. No specific finishing was used.

VI. Additional Data (Optional)

N/A