

Ricoh Company Limited – RICOH Pro VC80000

Note: Certification is in accordance with Idealliance Digital Press Certification Program v2.3.6

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 VC80000

III. Overview

The RICOH Pro VC80000 Continuous Feed Inkjet Printer is an aqueous pigment (extended gamut) based continuous feed ink jet printer. Printing at speeds up to 150 m/m on a variety of up to 23 inches wide coated and uncoated stocks. It has a variety of application verticals but focuses on Direct Mail and Commercial Print Applications.

The RICOH Pro VC80000 is driven with RICOH's TotalFlow R900a Print Server. It is an intelligent and robust print controller that enables users to build and manage 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 RICOH 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 VC80000 Inkjet Digital Web Press

DPE: TotalFlow Print Server R900a™

Paper: UPM Ultra Gloss 118 GSM 23 inch wide

Software: X-Rite i1Profiler™, Curve4Verifier™

Measurement: X-Rite i1iSis 2 XL™ Spectrophotometer

Calibration Date: 07/2024

Printing Procedure:

Load Paper on Print Engine.

1) Load paper parameters into the DPE.

2) Run Smart Start™ to automatically perform head cleanings, alignment (validate the alignment of jetting, start/stop) and uniformity (validate print head to print head densities)

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 iSis Spectrophotometer.
- 6) In the “measurement tab”, load data, import the iSis Spectral Measurement CGATs text.
- 7) In “Profile Setting” step, set “Total Ink Coverage” to 210.
- 8) In “ICC Profile” step, input File name and click “Create and save profile” to create the Printer profile.

Print the Digital Press Forms.

- 1) Save the Digital Press Forms and create 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 for Greyscale, Targeted and Colorspace via Curve4 Verify™ software.

V. Finishing Procedures (Optional)

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

Forms 1 – 6 Printed after G7 Colorspace performance confirmation.

Form 3 printed at hour 0, 1 and 24 hours.

VI. Additional Data (Optional)

N/A