IDEAlliance® Hard Copy Proof Application Data Sheet

CMA ColorPortal Epson x900 series printers using CMA Contract Proofing Semimatte 210 for GRACoL 2013 Coated #1, SWOP2013 #3, SWOP 2013 #5

The IDEAlliance Print Properties Working Group has established a certification process for hard copy proofs. In accordance with this process the appearance of a hard copy proof must have the ability to closely simulate specific CGATS or other documented characterization data sets within tolerances outlined in this document.

The following information is intended to assist producers and consumers in the use of vendor specified proofing materials in a hard copy proofing application.

I. Manufacturer

CMA Imaging Americas Inc.
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Florida 33146
United States of America
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II. Product

CMA ColorPortal – Epson x900 printer and CMA Contract Proofing Semimatte 210 GRACoL 2013, SWOP 2013 #3, SWOP 2013 #5

III. Introduction

The CMA ColorPortal use the most advanced 4 Dimensional Color Management Technology for Contract Proofing combined with the Epson x900 inkjet printer based on the ISO 12647-7 including:

- CMA ColorPortal with 4 Dimensional color engine
- CMA ColorPortal with Color Editor
- CMA ColorControl to certify proofs toward standards

CMA ColorPortal uses a web based Client/Server architecture that enables to be easily and quickly integrated with your existing workflow, independent of your operating system or web browser. CMA provides the ultimate flexibility in color proofing technology.
IV. Control Guide

IDEAlliance specifies that a Control Guide: the IDEAlliance ISO 12647-7 Digital Control Strip, or a similar target containing the same patches or a super-set thereof, be included on every hard copy proof. The control guide file should be checked for accuracy of the original CMYK percentage values, as listed in the Annex.

NOTE: The IDEAlliance ISO 12647-7 Digital Control Strip 2008 supercedes any previous ADS Proofing Certification Strip for conformance to this process. The control guide can be downloaded from the IDEAlliance.org web site. Practical production tolerances are discussed in the Read Me file included with the Control Guide.

The rendered control guide shall adhere to the appropriate characterization data and tolerances shown in the Annex.

CMA recommends usage of the IDEAlliance ISO 12647-7 Digital Control Wedge 2013

V. System Components and Manufacturing Procedures

The following CMA ColorPortal components and calibration procedures must be used to achieve conformance with this specifications:

- CMA ColorPortal Proofing System Components
- CMA ColorPortal Software v2 or later
- Epson x900 series printer
- CMA Contract Proofing Semimatte 210

Standard Operation Procedure (SOP)

1. Configure your Workflow to print SWOP or GRACoL 2013 proofs (see software manual to configure workflow)
2. Click on Settings (A)
3. Under the Color Correction, select Edit (B)
4. Select => I want to continue color matching (C)
5. Print and measure
VI. Finishing Procedures

By using the CMA Proofing System described in this ADS, no finishing procedure is required.

VII. Finished Proof Characteristics

Note: Verbal forms for the expressions of provisions referenced below are: shall means 'is required' and should means 'is recommended'.

A proof that has been rendered utilizing the system components, process steps, and finishing procedures contained in the Application Data Sheet should exhibit the color characteristics referenced in the Annex when measured from the IDEAlliance ISO 12647-7 Digital Control Strip or similar target.

Visual evaluation of finished proofs should take place under standard D50 lighting, as specified in ISO 3664.

Proof Tolerances (Summary for IDEAlliance Hard Copy Proofing System Certification Process Version 19)

- Solid cyan, magenta, yellow, black shall be Delta E\textsubscript{ab} $\leq 5.0$ from the characterization data set.
- Solid red green and blue shall be Delta E\textsubscript{ab} $\leq 6.0$ from the characterization data set.
- The difference between the characterization data set white point and the proof white point (excluding fluorescence) shall be no different than; $\Delta L^* \pm 2.0$, $\Delta a^* \pm 1.0$, $\Delta b^* \pm 2.0$ and have a maximum Delta E\textsubscript{ab} $\leq 3$.
- The difference between the 3% CMY gray balance patch values and the characterization data set should be Delta E\textsubscript{ab} $\leq 2.5$ or shall be $\leq 3.0$.
- The difference between all other (10%, 25%, 50%, 75%) CMY gray balance patch values and the characterization data set should be Delta E\textsubscript{ab} $\leq 2.5$.
- The average difference for all patches in the IDEAlliance ISO 12647-7 Color Control Wedge and the characterization data should be Delta E\textsubscript{ab} $\leq 1.5$ or shall be $\leq 2.5$.

Note: The verbal forms of should and shall are used to indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted i.e. shall "is required" and should "is recommended".

All measurements to control and verify SWOP 2013 and GRACoL 2013 proofs must be done with the X-Rite Eye One Pro 2 (D50, 2° observer, white backing, M1)

VIII. Sample Proofs

CMA IMAGING has supplied three (3) sets of hard copy proofs to the IDEAlliance Proof Certification Process for measurement and retention, and the system has been verified to conform to this Application Data Sheet.

X. Additional Proof Data

Additional proof data can be added in this section for clarification of specific proof detail or legacy information such as TVI, Print Contrast, Trap, or other colorimetric information.
Annex 1
Characterization Data Values Per Hard Copy Certification Process
IDEAlliance ISO 12647-7 Digital Control Strip 2013 for GRACoL 2013 Coated #1

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Annex 2
Characterization Data Values Per Hard Copy Certification Process
IDEAlliance ISO 12647-7 Digital Control Strip 2013 for SWOP 2013 Coated #3

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Annex 3
Characterization Data Values Per Hard Copy Certification Process
IDEAlliance ISO 12647-7 Digital Control Strip 2013 for SWOP 2013 Coated #5

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