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# IDEAlliance® Off-Press Proof Application Data Sheet

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## ORIS Digital Proofing System™ using ORIS PearlPROOF™ Commercial for Epson x900 Series printers

### SWOP®<sup>1</sup> Grade 3 Off-Press Proof Application Data Sheet

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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

CGS Publishing Technologies International, LLC.  
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Minneapolis, MN 55403  
Telephone +1 (612) 870-0061  
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Certified: Jan 26, 2009

#### II. Product

ORIS Digital Proofing System™ for Epson 7900 and 9900 printers consists of the ORIS Color Tuner™, Epson 10-color Epson® Ultrachrome HDR™ K3™ ink sets and ORIS PearlPROOF™ Commercial (PSMC) paper.

#### III. Introduction

The Epson printer models listed above in section (II) is a non-half-tone, digital ink-jet proofing system. It utilizes Epson's Micro Piezo™ technology and HDR K3 ink set, allowing it to achieve photo reproduction quality continuous tone proofs. This document contains CGS ORIS operating procedures for conformance to SWOP #3.

#### IV. Control Guide

IDEAlliance specifies a control guide such as an IDEAlliance ISO 12647-7 Digital Control Strip 2007 be supplied on every off-press proof. As a minimum, any control guide used for proofing applications 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 ORIS Digital Proofing System™ in order to achieve conformance with this Application Data Sheet.

Software: ORIS Color Tuner Pro software, ORIS Certified Proof for verification of IDEAlliance ISO 12647-7 Digital Control Strip 2007

Measurement Devices: Embedded Spectroproofer by X-Rite or X-Rite i1 Isis for Calibration, X-Rite i1 Pro (UV-included) for IDEAlliance ISO 12647-7 Digital Control Strip 2007

Setup Guide: Color Tuner Calibrate+ApplyMatch.pdf (GRACoL/SWOP) *Contact CGS for guide.*

## VI. Finishing Procedures

Proofs should not be measured for 15 minutes to allow for ink dryback. No special Finishing requirements are needed for ORIS Digital Proofing System.

## VII. Finished Proof Characteristics

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the IDEAlliance ISO 12647-7 Digital Control Strip 2007 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.

X-Rite i1 Pro rev B. (UV-Included) was used to measure IDEAlliance ISO 12647-7 Digital Control Strip 2007  
(ORIS Certified Proof setup files and procedures available upon request)

## VIII. Sample Proofs

**CGS Publishing Technologies International, LLC.** has supplied three (3) sets of hard copy proofs for retention that conform to this Application Data Sheet by an IDEAlliance certifying contractor.



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

**IDEAlliance ISO 12647-7 Digital Control Strip 2007 for SWOP 2006 Coated #3**

Patch ID	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
A1	31.96	-21.01	-26.32	-
A2	56.99	-37.23	-44.95	5
A3	66.07	-27.13	-33.53	-
A4	80.52	-11.80	-15.33	-
A5	25.80	40.75	-2.90	-
A6	47.84	72.08	-3.11	5
A7	58.95	51.61	-4.46	-
A8	78.03	20.64	-3.18	-
A9	47.67	-4.29	45.76	-
A10	87.97	-5.03	88.10	5
A11	89.28	-5.09	62.78	-
A12	91.24	-2.93	25.28	-
A13	54.86	-51.51	-16.56	-
A14	38.04	51.19	-21.63	-
A15	69.74	23.44	67.23	-
A16	49.55	15.84	31.56	-
A17	40.89	33.29	12.00	-
A18	34.01	22.69	-16.52	-
A19	52.24	-17.96	25.88	-
A20	36.91	-2.13	-25.08	-
A21	90.46	-0.06	-0.21	-
A22	85.69	-0.18	-0.70	-
A23	75.49	-0.39	-1.61	-
A24	58.21	-0.51	-2.27	-
A25	39.28	-0.34	-1.80	-
A26	26.88	-0.14	-0.89	-
A27	18.06	0.01	-0.11	5

Patch ID	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
B1	15.57	11.13	-25.12	-
B2	26.85	18.10	-44.32	5
B3	40.85	16.19	-34.08	-
B4	67.49	7.60	-17.17	-
B5	25.19	35.01	22.46	-
B6	46.86	66.21	45.03	5
B7	57.68	47.17	37.42	-
B8	77.94	18.06	18.43	-
B9	29.42	-36.88	12.46	-
B10	52.12	-64.75	24.83	5
B11	63.15	-41.26	21.06	-
B12	79.23	-15.72	8.94	-
B13	44.63	-16.62	-44.13	-
B14	47.87	69.02	16.49	-
B15	72.78	-24.61	60.84	-
B16	68.56	20.02	18.67	-
B17	52.11	36.50	27.30	-
B18	40.29	32.11	25.13	-
B19	45.95	-26.09	-3.01	-
B20	92.50	0.00	0.00	-
B21	90.08	-0.02	-0.08	-
B22	84.59	-0.04	-0.22	-
B23	73.54	-0.15	-0.48	-
B24	56.29	-0.48	-0.41	-
B25	39.80	-0.33	0.14	-
B26	24.79	0.22	-0.52	-
B27	8.91	-0.43	-0.21	5

**Note:** Color measurements comparing measured proof data to this reference data requires the use of a calibrated spectrophotometer.