



Certified 04/08/08



Off-Press Proof Application Data Sheet

DALiM DiALOGUE – EIZO CG211 - SWOP Coated #3

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 or www.gracol.org.

NOTE: It is important for the industry to understand that performing certification on any one display with any one monitor proofing system does not necessarily guarantee the same result on a different display of the same model of monitor. IDEAlliance notes that each monitor of a particular brand and model is unique. That is, for any given brand of monitor, while our experience in certification shows that while most displays pass the ISO criteria, an individual monitor may fail the ISO criteria due to manufacturing issues or may fail at some point in the future as a result of use. IDEAlliance therefore recommends that in addition to calibrating each monitor routinely, users should also verify the uniformity of the display over time as well. The monitor proofing systems vendors have agreed to provide a monitor uniformity test with their system and over the next 12 months will implement software to automate that process for users.

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

Dalim Software GmbH
Strassburger Strasse, 6
Kehl am Rhein, D-77694
Germany
<http://www.dalim.com>

II. Product

Dalim Software / DALiM Engine / EIZO CG211 / SWOP Coated #3

III. Introduction

DALiM DiALOGUE is a standalone system that allows the real time high-resolution viewing and collaboration of a job to be conducted from a standard web browser, without the requirement of pre-installing an application-specific browser plug-in or downloading any client software. Using 100% in-house developed technology, DALiM DiALOGUE has the ability to stream data to the browser, allowing the user to view the file at high resolution in real-time.

DALiM DiALOGUE is compatible with almost any 3rd party automated workflow or asset management system. It is also JDF-enabled, allowing systems interconnectivity to a range of other JDF-enabled devices.

DALiM DiALOGUE uses advanced color management technology and incorporates ICC profile calibration. The ICC profile support allows all DALiM DiALOGUE users to see color-accurate, high-resolution soft proofs in real-time,

VI. Finishing Procedures (Calibration)

System set-up

- Start-up the computer.
- Turn on the EIZO CG211 Display, setting it to maximum brightness.
- Turn on the viewing booth.
- Have Spectrophotometer and profile creation application standing by.

Calibration of Monitor using X-Rite Eye-One Pro and ColorNavigator 5

Before starting the calibration procedure, the display should have been turned on since at least 60 minutes.

- 4.1. Use X-Rite Eye-One Pro and EIZO Color Navigator 5 to create the monitor profile
- 4.2. Use a pre-set white-point setting of D50 or 5000K that matches the viewing booth specifications.
3. Select a Gamma setting of 2.2.
4. Choose to get a monitor luminance of 160 cd/m²
5. Open the Macintosh "System Preferences" application. Make sure that the right monitor profile is selected in the "Monitor -> Color" preferences pane.

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Activate Monitor Profile on DALiM DiALOGUE Server

1. Launch web browser and enter the DALiM DiALOGUE server URL to connect to the DALiM DiALOGUE system. Type in your login and password.
2. Click on the 'Color Management' icon in the user interface (5th from the left).
3. Select the ICC monitor profile (as created above), and click on "Upload".
4. Select this monitor ICC profile as being your default Monitor Profile.

Set-up Document Profile on DALiM DiALOGUE Server

1. Click on the 'Job' icon in the user interface (1st from the left).
2. Navigate through to the folder containing the files of the documents to be assessed.
3. Select the correct Document Profile by clicking on the "Job Profile" icon in the user interface (1st on the right).
4. Select the SWOP 2006 Coated 3 ICC profile
5. Click on the 'Job' icon again and click on the document icons to launch the DALiM DiALOGUE remote soft-proofing applet.
6. In the user interface, select the 'Absolute Colorimetric' color analysis check button.
7. Use the "Zoom Factor" selection to render the displayed file at the same size as the printed sheet.
8. Select a neutral gray background in the 'Preferences...' menu.

VII. Finished Proof Characteristics (Checking)

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from theIDEAlliance ISO 12647-7 Digital Control Strip 2007 having been properly made to all the listed system components and procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

An Eye-One Pro spectrophotometer was used to perform the measurements.

You must check that the monitor displays the correct colors of the control strip. To do so, we provide an application utility CMYK to RGB that prepares tables for X-Rite Measure Tool.

1. Open the CMYK to RGB application, select the table containing the reference values for the ISO 12647-7 patches for GRACoL 2006 Coated #1 (values are in Appendix I), the corresponding ICC profile, the monitor ICC profile and generate the RGB-values table.
2. Save the table in a file.
3. Import this file into X-Rite MeasureTool and start measuring the real XYZ values.
4. Save the resulting file.
5. Copy and paste the measured values into the "DALiM SWOP ISO Control Strip Checking" spreadsheet

in the colored area. The spreadsheet will automatically calculate the normalized X_N , Y_N , Z_N values and the $\otimes E_{2000}$ with given X , Y , Z values.

To pass, please refer to the Appendix I criteria.

VIII. Sample Proofs

Dallim Software has made this Application Data Sheet and the corresponding monitor proofing system available to the IDEAlliance certifying contractor to perform independent, corroborating measurements in the course of certification.

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*	$\Delta E-2000$
A1	31.96	-21.01	-26.32	-
A2	56.99	-37.23	-44.95	7
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	7
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	7
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	7

Patch ID	CIELab Data			Maximum
	L*	a*	b*	$\Delta E-2000$
B1	15.57	11.13	-25.12	-
B2	26.85	18.10	-44.32	7
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	7
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	7
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	3
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	3
B25	39.80	-0.33	0.14	-
B26	24.79	0.22	-0.52	-
B27	8.91	-0.43	-0.21	-

Note: Color is measured with an EyeOne Pro spectrophotometer.