



ORIS Soft Proof™ Virtual Proofing System for the Eizo ColorEdge CG220 Display

SWOP®¹ Off-Press Proof Application Data Sheet

I. Manufacturer

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II. Product

The ORIS Soft Proof™ virtual proofing system consists of ORIS Color Tuner™ software, the ORIS Soft Proof workflow module and plugin for Adobe® Acrobat® 6 or later, and ORIS Certified Proof™, used in conjunction with the following third-party hardware and software:

- Apple Power Mac G4 or G5, with OS X 10.4 (Tiger) or later
- **Eizo ColorEdge CG220 display**, with monitor shade
- Adobe Acrobat Standard or Professional, version 6 or later
- Monitor calibration device, such as the GretagMacbeth Eye-One
- Monitor calibration software, such as GretagMacbeth ProfileMaker or X-Rite MonacoProfiler
- Viewing booth (5000° K, 2%-100% illumination adjustment) such as the Just Normlicht Image Pro 5000 XL DI, for verification only

III. Introduction

This document contains CGS/ORIS operating procedures for conformance to the SWOP Application Data Sheet for this system per SWOP specifications. The SWOP Review Committee has approved the use of off-press proofs as input material to publications. *(Please see explanations and recommendations as outlined on pages 21 and 22 of the 2001 edition of the SWOP Specifications.)*

IV. System Set-Up

In order to ensure the quality and consistency CGS specifies that an ORIS Digital Proof must be run in a controlled and calibrated workflow. This workflow is described as follows:

• Monitor Calibration

The monitor should be active for at least 30 minutes prior to the calibration process. Following the monitor calibration software manufacturer's instructions, calibrate and create a profile for the monitor. Once the monitor has been calibrated, disable the monitor's brightness controls in the "Displays" pane of "System Preferences."

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Suggested Monitor Profile Settings	
Color Temperature	4000K to 5000K
Gamma	1.8
Luminance	140

• **Monitor Verification**

The monitor in use must be in good working order, and verification must show that the monitor is capable of displaying minimum gamut requirements, based on the ORIS Certified Proof SWOP Monitor Reference file. Using the ORIS Certified Proof™ software application, perform a monitor certification measurement using the reference file provided by CGS (See Section V).

• **Viewing Environment**

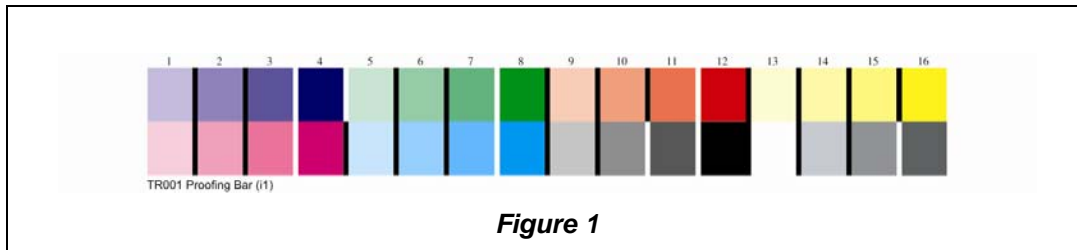
The room in which proofing is done must have controlled lighting, as dark as safety permits, and 5000K in temperature. The walls of the room should be neutral grey in color.

The person viewing the proof must be directly in front of the monitor with the monitor at eye level. The monitor must only be viewed at a 90° angle. Any other angle will cause the monitor color to shift and will cause incorrect viewing of the proof. The monitor should be active at least 30 minutes prior to viewing any proof.

The viewing booth is used to verify the soft proof with the hard copy reference. The luminance of the viewing booth must be adjusted, so that paper white has the same brightness as the paper white on the monitor.

V. ORIS Digital Proof Control Strip

All Eizo CG220 displays should be verified against the ORIS Proof Control Strip (see Figure 1), using ORIS Certified Proof reference and target data. This comparison should be done using the Delta E 2000 calculation method. The monitor should be verified at the start of each proofing session. The control strip and target data are available on the CGS web site (<http://www.cgs.de/support/downloads>):





VI. Creation of soft proof files using ORIS Color Tuner

To create an ORIS Soft Proof which is color managed to SWOP specifications, you must process files using the Softproof hotfolder specification template. Setup and configuration of hotfolders are specified in the online user manual in Color Tuner 5.1. The output color correction is defined by the ORIS SWOP profile (ORIS_SWOP_TR001.icc) included in the ORIS Color Tuner application. The resulting SWOP-corrected PDF/X-3 file can be opened using Adobe Acrobat, version 6.0 or later, with the ORIS Soft Proof plugin, to verify color management status and calibration.

VII. Viewing soft proof files using the ORIS Soft Proof plugin and Adobe Acrobat

Open PDF files created with ORIS Hotfolder Manager™ in Adobe Acrobat Standard or Professional 6.0 or higher, with the ORIS Soft Proof plugin installed. Verify the soft proof status of the file, using the plugin's Status window. Green check mark icons indicate that the proof is valid and that color management is functioning correctly. Red "X" icons indicate that the proof is invalid, or that there is a problem with color management.

In order for a PDF file to be a valid ORIS soft proof, three conditions must be met. First, PDF file must have been created using an ORIS Softproof hotfolder in ORIS Hotfolder Manager. Second, Adobe Acrobat's color management settings must be turned on. Third, the monitor's profile must have been updated within the time range specified in the ORIS Softproof hotfolder. The default setting is one day, but a different setting may be selected by a system administrator.

VIII. Final proof characteristics

Color	CMYK Values	L*	a*	b*
Blue 25%	25,25,0,0	68.66	6.3	-11.04
Blue 50%	50,50,0,0	51.69	10.08	-21.64
Blue 75%	75,75,0,0	38.3	15.29	-31.11
Blue 100%	100,100,0,0	27.09	16.7	-39.02
Green 25%	25,0,25,0	78.02	-13.1	10.23
Green 50%	50,0,50,0	68.29	-26.56	16.35
Green 75%	75,0,75,0	59.75	-40.51	20.6
Green 100%	100,0,100,0	52.56	-59.56	24.61
Red 25%	0,25,25,0	75.51	14.56	16.71
Red 50%	0,50,50,0	63.85	30.26	28.55
Red 75%	0,75,75,0	54.7	46	36.23
Red 100%	0,100,100,0	46.63	61.77	41.19
Yellow 25%	0,0,25,0	87.29	-2.52	22.8
Yellow 50%	0,0,50,0	86.14	-3.8	40.39



Yellow 75%	0,0,75,0	85.11	-4.7	58.04
Yellow 100%	0,0,100,0	84.38	-5.29	78.47
Magenta 25%	0,25,0,0	76.52	16.85	0.17
Magenta 50%	0,50,0,0	65.35	34.23	-1.07
Magenta 75%	0,75,0,0	55.55	51.04	-2.08
Magenta 100%	0,100,0,0	47.74	64.28	-0.5
Cyan 25%	25,0,0,0	79.5	-10.26	-8.06
Cyan 50%	50,0,0,0	71.07	-18.78	-19.45
Cyan 75%	75,0,0,0	63.79	-27.38	-29.08
Cyan 100%	100,0,0,0	57.6	-38.9	-37.51
Black 25%	0,0,0,25	72.57	-0.7	2.76
Black 50%	0,0,0,50	56.49	-0.73	1.28
Black 75%	0,0,0,75	40.14	-0.42	1.46
Black 100%	0,0,0,100	23.19	-0.6	1.26
Paper	0,0,0,0	88.72	-0.38	3.87
Gray Highlight	25,16,16,0	71.52	-1.19	1.13
Gray Midtone	50,39,39,0	54.98	-2.57	1.45
Gray Shadow	75,63,63,0	41.25	-3.26	1.22

The above CIE L*a*b* measurements were made using a calibrated GretagMacbeth Eye-One (spectral response, no filter, emission and a 2° observer) using CGS' ORIS Certified Proof software.

IX. Sample Proofs

Sample CGS Publishing Technologies International LLC ORIS Soft Proof™ Virtual Proofing System for the Eizo CG220 proofs conforming to this Application Data Sheet have been demonstrated to the SWOP Technical Committee for their inspection and verification to this Application Data Sheet at a SWOP Certification Program Evaluation.