

Matchprint Virtual

For InSite Prepress Portal and Kodak PressProof

Version 5.0

System Administration Guide

English

731-00787B-EN Rev B

Copyright

© Kodak, 2008. All rights reserved.

This document is also distributed in Adobe Systems Incorporated's PDF (Portable Document Format). You may reproduce the document from the PDF file for internal use. Copies produced from the PDF file must be reproduced in whole.

Trademarks

Kodak, Creo, Matchprint, Prinergy, InSite, and PressProof are trademarks of Kodak.

Adobe, Acrobat, Adobe Illustrator, Distiller, Photoshop, PostScript, and PageMaker are trademarks of Adobe Systems Incorporated.

Apple, AppleShare, AppleTalk, iMac, ImageWriter, LaserWriter, Mac OS, Power Macintosh, and TrueType are registered trademarks of Apple Computer, Inc. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S.A. and other countries.

Hexachrome, PANTONE, PANTONE Goe, PANTONE Hexachrome, and PANTONE MATCHING SYSTEM are the property of Pantone, Inc.

PEARL, PEARLdry, PEARLgold, PEARLhdp, and PEARLsetter are registered trademarks of Presstek, Inc.

XEROX is a trademark of XEROX CORPORATION.

Limitation of Liability

The product, software or services are being provided on an “as is” and “as available” basis. Except as may be stated specifically in your contract, Kodak expressly disclaims all warranties of any kind, whether express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose and non-infringement.

You understand and agree that, except as may be stated specifically in your contract, Kodak shall not be liable for any direct, indirect, incidental, special, consequential or exemplary damages, including but not limited to, damages for loss of profits, goodwill, use, data or other intangible losses (even if Kodak has been advised of the possibility of such damages), resulting from: (i) the use or the inability to use the product or software; (ii) the cost of procurement of substitute goods and services resulting from any products, goods, data, software, information or services purchased; (iii) unauthorized access to or alteration of your products, software or data; (iv) statements or conduct of any third party; (v) any other matter relating to the product, software, or services.

The text and drawings herein are for illustration and reference only. The specifications on which they are based are subject to change. Kodak may, at any time and without notice, make changes to this document. Kodak assumes no liability for technical or editorial errors or omissions made herein, and shall not be liable for incidental, consequential, indirect, or special damages, including, without limitation, loss of use, loss or alteration of data, delays, or lost profits or savings arising from the use of this document.

graphics.kodak.com
731-00787B-EN Rev B

Revised April 2008

Contents

1 Setting Up the System 1

Introduction 2
Licensing the Matchprint Virtual Software 2
Installing the Calibration Software 3
Installing the Color Monitors and Calibrator 3
Mounting a Color Monitor 3
Installing the Calibrator 4
Setting Up the Prepress Portal System 4
Setting Color Roles 4
Setting Paper Background Size for Smart Review 4
Setting Up the Color Targets 5
Setting Up the PressProof System 5
Configuring the Location of Surfaces 5
Installing the PressProof Client Software 6
Upgrading the PressProof Client Software 6
Setting Up the Color Targets 6
Resources 7

2 Managing the Viewing Environment 9

Introduction 10
About the Viewing Environment 10
Monitor Luminance 10
About Viewing Booths 11
About Luminaires 12
Replacing Lamps 12
Correct Viewing Techniques 13
Do Not Hold the Press Sheet Next to the Monitor 13
View Images Straight On and at Actual Size 13
Do Not Tilt the Monitor Except When Calibrating 13
Position the Proof Correctly in the Viewing Booth 14
Remove Distracting Colors 14
Reduce the Impact of External Lighting 14
Keep the Room Temperature Constant 14
Correct Monitor Setup and Maintenance 14
Calibrate the Monitor Every 24 Hours 15
Leave the Monitor Turned on at All Times 15
Disable the Monitor's Energy Saver Feature 15
Disable the Monitor's Brightness Buttons 16
Do Not Adjust the Contrast Level 16
Clean the Monitor With Approved Cleaners 16
Disable Fast User Switching 16
Troubleshooting Calibration 17
Calibration Software Fails 17
Message to Recalibrate Appears 17

3 Managing Color Profiles 19

Introduction 20
About Color Profiles 20
Using the Color Target Manager 20
Importing ICC Profiles 20

Removing Color Targets 21
Applying Color Targets in the Prepress Portal Software 21
Setting a System Default Color Target 21
Applying Color Targets to Jobs and Pages 21
Applying Color Targets in the PressProof Software 23
Using Control Files 23

Glossary 27

1

Setting Up the System

Introduction 2
Licensing the Matchprint Virtual Software 2
Installing the Calibration Software 3
Installing the Color Monitors and Calibrator 3
Setting Up the Prepress Portal System 4
Setting Up the PressProof System 5
Resources 7

Introduction

The Kodak® Matchprint® Virtual software is monitor-proofing software that enables designers and printers to ensure color accuracy throughout the publishing cycle—from creative through prepress to production. Matchprint Virtual is available as a licensed option with the Kodak InSite™ Prepress Portal software (to view content and color accuracy of pages using Smart Review), and is a key component of the Kodak PressProof™ software (to view color-accurate surfaces or pages in the pressroom.)

Note: To use Matchprint Virtual 5.0, you must have Prepress Portal or PressProof version 4.5.0.2058 or later.

This document provides information about setting up Matchprint Virtual for use with the Prepress Portal software and the PressProof software.

Licensing the Matchprint Virtual Software

The Matchprint Virtual software is licensed using the License Manager in your Prepress Portal or PressProof software. A valid Universal Serial Bus (USB) dongle must be connected to the server. This dongle was installed when your system was installed.

To view the licensed options, on the Prepress Portal or PressProof server, select **Start > Programs > Creo InSite > License Manager**.

If you need to apply a new license key, perform the following steps on the server:

1. Stop the InSite and W3svc services.
   a. From the **Start** menu, select **Run.**
   b. Type `cmd`
   c. In the Command window, type
      `net stop insite and net stop w3svc`
2. Select **Start > Programs > Creo InSite > License Manager.**
3. Click **Enter License Key**.
4. Select **Start > Programs > Accessories > Notepad.**
5. From the **File** menu in Notepad, select **Open**.
6. Locate the license key (**E:\InSiteStuff** or **E:\PPStuff**) and click **OK**.
7. Select the license key, right-click and select **Copy**.
8. Paste the license key in the **New License Key** box.
9. Click **Apply**.
10. Restart the InSite service.
    a. From the **Start** menu, select **Run.**
    b. Type `cmd`
    c. In the Command window, type
       `net start insite`

Installing the Calibration Software

To ensure color-accurate viewing, users must install the Matchprint Virtual calibration software on a qualified Apple® Mac® computer, and must run Matchprint Virtual daily to calibrate the monitor. If the deltaE exceeds 2.5, calibration fails.

1. Log on to the Mac computer as the Administrator.
1. Open a browser window and locate the Matchprint Virtual Web site at http://graphics.kodak.com/matchprintvirtual/.
2. Click **Downloads** in the navigation bar on the left.
3. Download the calibration software, including any updates, to your desktop.

   Tip: You can also download a quick reference card that shows how to use the Matchprint Virtual calibration software.
4. Double-click the installer icon and follow the instructions.
5. Restart the computer.

Installing the Color Monitors and Calibrator

The Matchprint Virtual calibration software must be installed on qualified Mac computers that use qualified color monitors.

For information about platforms, operating systems, color monitors, and viewing booths, see the *Matchprint VirtualRelease Notes*, available under **Product Documentation** at http://graphics.kodak.com/matchprintvirtual/.

Mounting a Color Monitor

Mounting Monitors on a Wall

To mount a qualified monitor onto a wall or a press station, install an Ergotron® mount LCD arm.

- For Cinema Display monitors, use the Cinema Display VESA Mount Adapter Kit, available from your Apple dealer or from the manufacturer, Ergotron. You can order from the companies' Web stores, as follows:
  - Apple Web store: http://store.apple.com/
  - Ergotron Web store: http://www.ergotron.com/

  For 23" Cinema Display monitors, order the Ergotron 200 Series Wall Mount Arm, which is sturdy enough to hold the weight. For 30" Cinema Display monitors (single or dual), contact Ergotron for the correct mounting arms.
- For EIZO monitors, order mounting arms either from EIZO or from Ergotron.
  - EIZO Web site for monitor accessories: http://www.eizo.com/products/accessories/
  - Ergotron Web store: http://www.ergotron.com/

Mounting Monitors on a Viewing Booth

If you use an approved GTI viewing booth, you can mount 20" or 23" Cinema Display monitors on the booth walls, including dual monitors. You can also mount a single 30" Cinema Display monitor. Contact GTI to discuss your specific needs.

To mount dual 30" Cinema Display monitors side-by-side in portrait mode in a viewing booth, you must use a customized GTI EVS-3552/SP large-format executive viewing station. You can either specify the dual mounts when you order the booth, or upgrade later, as follows:

- If you specify the mounts for dual 30" monitors when you first order the GTI booth, GTI modifies the internal structure of a standard booth and adds a second vertical mounting track.
- If you already have an EVS-3552/SP viewing booth and want to upgrade it, GTI ships a new rear wall with extra reinforcement, another mounting track, and two new mounting arms.

Installing the Calibrator

The Matchprint Virtual calibrator must be connected to a USB port on the computer or monitor or to a self-powered USB hub.

Important: Do not plug the calibrator into the USB port on the keyboard.

Setting Up the Prepress Portal System

Setting Color Roles

Users of the Prepress Portal software must have a role that contains the Edit Color Management right in order to access Matchprint Virtual features, and a role that contains the Color Approval right in order to give final color approval for pages.

If you cannot assign the appropriate role, you may have exceeded the number of Color Customers that your license allows. View the details of your licensing—see *Licensing the Matchprint Virtual Software* on page 2.

If a user is unable to view a page in Full Screen View in Smart Review, or is unable to approve a page for color, that user may not have the correct role.

For information on assigning user rights, see the Prepress Portal Help.

Setting Paper Background Size for Smart Review

You can configure the size of the paper background that appears behind pages in Smart Review.

1. On the InSite Administration home page, click **Configuration Settings > Color Management.**
2. Set the amount of paper background that appears in a color-managed page. The default is 72 pt.

Setting Up the Color Targets

For information on setting up an ICC profile as a color target for the Prepress Portal system, see *Using the Color Target Manager* on page 20.

Setting Up the PressProof System

Configuring the Location of Surfaces

A PressProof server must be configured with the location of the surface files. If you use the Kodak Prinergy® software, PressProof must also be configured to use Prinergy JTPs or pools for rendering surfaces.

1. On the InSite Administration home page, click **Configuration Settings > PressProof**.
2. In the **Location of Surfaces** list, select the server where your surface files are located, and then click **Update**.
   - **Prinergy**: Select this setting if the surface files are on a Prinergy server, and then complete the **Prinergy Proofing Pool for Rendering Surfaces** and **Prinergy Colormatching Pool for Rendering Surfaces** settings.
   - **FileSystem**: Select this setting if the surface files are on a non-Prinergy software system, and then complete the **File System Surface Paths** setting.
   - **Both**: Select this setting if the surface files are on both a Prinergy server and a non-Prinergy server, and then complete the **Prinergy Proofing Pool for Rendering Surfaces**, **Prinergy Colormatching Pool for Rendering Surfaces**, and **File System Surface Paths** settings.
3. In the **Prinergy Proofing Pool for Rendering Surfaces** box, if you use the Prinergy software, type the name of the proofing pool, and then click **Update**.
4. In the **Prinergy Colormatching Pool for Rendering Surfaces** box, if you use Prinergy software, type the name of the color-matching pool, and then click **Update**.
5. In the **File System Surface Paths** box, type the UNC directory path or paths to the location of the TIFF surfaces on your network, and then click **Update**.
   The UNC format is: \\servername\sharename
6. Select the **Enable Internet (WAN) Access** check box to allow users to access PressProof over the Internet, and then click **Update**.

For more information about PressProof configuration settings, see the InSite Administration Help.

Installing the PressProof Client Software

If you are setting up a PressProof system, after the Matchprint Virtual calibration software is installed on each press station, you must install the PressProof client software.

1. On the Mac computer, from the **Go** menu, select **Connect to Server**.
2. Type `smb://<ServerIPAddress>`

   Where `<ServerIPAddress>` is the IP Address of the PressProof (or Prepress Portal) server.
3. Click **Connect**.
4. Type the administrator user name and password for the PressProof (or Prepress Portal) server (usually ARAXI/ARAXI).
5. In the SMB Mount dialog box, select **Installers** as the share.
6. Click **OK**.
7. Open the **PressProof** folder, double-click **Kodak Pressproof.dmg**, and follow the instructions.

   Tip: If users cannot log on after you install PressProof software, you may have exceeded the number of licensed users—see *Licensing the Matchprint Virtual Software* on page 2.

Upgrading the PressProof Client Software

After upgrading the PressProof software on the server to the next version (for example, from 4.5 to 5.0), when a user logs on to a PressProof client workstation, the message `A software update is available` appears. The PressProof software will not start until this update is installed.

Remind users to click **Install** to upgrade the computer immediately, and ensure that they know the administrative password so they can complete the installation.

The update message may also appear when a minor update is available (for example, from 5.0.1 to 5.0.3). The user can choose whether to install these minor updates or to continue to use the current version of PressProof.

Tip: Watch for an asterisk (*) beside the PressProof icon in the toolbar. It indicates that a software update is available.

Setting Up the Color Targets

For information on setting up an ICC profile as a color target for the Prepress Portal system, see *Using the Color Target Manager* on page 20.

Resources

The following resources are available to help you and your customers:

- Help systems

  Help is available while users are logged on. It provides information about the color-management features in the Prepress Portal and Smart Review software and how to use the PressProof software.

  Tip: To view the help system, look for **?** or **Help** on the Prepress Portal, Smart Review, or PressProof toolbars.

- Quick start guides and quick reference cards

  These guides explain to your customers and employees how to get started with the main color-management features in the Prepress Portal and PressProof software—for example, how to calibrate a monitor, how to view and approve color in Smart Review, and how to navigate in the PressProof user interface.

  Tip: To obtain copies of the quick start guides and quick reference cards, log on to the Matchprint Virtual Web site at http:/graphics.kodak.com/matchprintvirtual/ and click **Product Documentation**.

- Release notes

  Release notes describe the latest changes to the Matchprint Virtual software.

  Tip: To obtain a copy of the latest release notes, log on to the Matchprint Virtual Web site at http:/graphics.kodak.com/matchprintvirtual/ and click **Product Documentation**.

2

Managing the Viewing Environment

Introduction 10
About the Viewing Environment 10
Monitor Luminance 10
About Viewing Booths 11
About Luminaires 12
Correct Viewing Techniques 13
Correct Monitor Setup and Maintenance 14
Troubleshooting Calibration 17

Introduction

This chapter provides information about the recommended environment for color-accurate viewing.

About the Viewing Environment

When you compare colors displayed on a qualified monitor side-by-side with colors on a hard proof or press sheet in a viewing booth, the colors will look different if the viewing environment is not consistent. To achieve consistency, consider the following factors:

- The monitor display must simulate the effects of the light source and the paper and color properties of the press sheet.
- The ambient light level in the viewing booth must produce an overall brightness from the press sheet that matches the brightness of the monitor display.
- The viewing booth must have lamps that conform to the IS0 3664:2000 graphics viewing standard. They must not be aged (that is, they must have burned for less than 2500 hours). The brightness of the viewing booth lamps must be adjustable via a dimmer control.
- Any ambient light must be controlled so that it does not contaminate the light output from the viewing booth or monitor.

You are responsible for assessing and adjusting the viewing environment before installing and using your Matchprint Virtual software.

Note: If the viewing environment does not meet the standards for color-critical comparison, comparison of monitor proofs to hard proofs or press sheets may be compromised.

For information on best practices for color-accurate viewing, see *Correct Viewing Techniques* on page 13.

Monitor Luminance

The Matchprint Virtual calibration software checks a monitor for its maximum luminance—that is, the greatest brightness possible for the monitor. Set the luminance to a value that is somewhat less than its maximum luminance to extend the useful life of the monitor for color-accurate viewing.

For example, if a new monitor achieves a maximum luminance of 280 and the viewing booth has controlled, dimmable lighting, you can set a fixed luminance value of 200 to extend the life of the monitor while still providing excellent viewing.

For information about how to set monitor luminance levels, see the *Matchprint Virtual Quick Start Guide*, available under **Product Documentation** at https://graphics.kodak.com/matchprintvirtual/.

About Viewing Booths

A viewing booth is required if you are comparing a hard proof or press sheet side-by-side with a digital image on a monitor. A viewing booth is not required if you are viewing color-accurate pages in Smart Review without comparing them to a hard proof.

To compare pages and surfaces on a monitor to hard proofs or press sheets, consider using the following viewing booths from GTI:

- GTI SOFV-1ex (desktop soft-proofing viewing booth)
- GTI EVS-3552/SP (large-format executive viewing station)

Determine the dimmer setting for the GTI SOFV-1ex viewing booth from Table 1, using the monitor luminance setting from your latest monitor calibration. For example, if your monitor luminance is 193, set your viewing booth to 53.

Table 1: Recommended dimmer settings (for GTI SOFV-1ex viewing booth only)

Monitor Luminance	Dimmer Setting
245-253	61
236-244	60
228-235	59
222-227	58
216-221	57
211-215	56
206-210	55
197-205	54
191-196	53
185-190	52
180-184	51
175-179	50
168-174	49
163-167	48
151-162	47
131-150	46
126-130	45
110-125	44

Compare a press sheet to the same image on your monitor to make any final adjustments to the dimmer setting, or to adjust to your personal preference.

For information on dimmer settings for other types of viewing booths, contact your Kodak representative.

About Luminaires

The ambient lighting, or overall illumination, also affects the accuracy of color viewing. In the light fixtures of rooms where Matchprint Virtual users work, install CIE D50 (5000K) fluorescent halogen lamps that meet the IS0 3664:2000 graphics viewing standard. D50 illuminants, such as GTI Graphiclite® color viewing lamps, are designed for color-accurate viewing.

If you are unsure whether your light fixtures meet the ISO standard, contact your Kodak representative.

Replacing Lamps

As luminaires and lamps in viewing booths age, they tend to emit a yellowish tint. To maintain a consistent light color, follow these best practices:

- Ensure that all the lamps come from the same manufacturer. Do not mix lamps from different manufacturers.
- Replace lamps that have burned their expected life span (usually +2500 hours).
- Replace all lamps in a viewing booth at the same time. Do not use lamps that have different life spans in the same viewing booth.
- Order replacement lamps from GTI and ask for *MVP certified* replacement lamps. These lamps are manufactured to Kodak requirements and conform to the IS0 3664:2000 graphics viewing standard.

  Note: For the GTI SOFV-1ex viewing booth, order the L517-I lamp replacement kit—see *Replacing Lamps in the GTI SOFV-1ex Viewing Booth*.
- Burn new lamps for 100 hours before using the viewing booth or luminaire for color-accurate viewing.
- If the viewing booth has a usage counter, reset it after you replace the lamps.

Replacing Lamps in the GTI SOFV-1ex Viewing Booth

If you use a GTI SOFV-1ex desktop viewing booth, you can monitor the usage counter on the LCD display on the front panel of the booth. Periodically check this usage counter, or set a strict schedule for replacing lamps.

When you replace the lamps, order an L517-I lamp replacement kit directly from GTI. This kit contains five (5) lamps that are suitable for use with the Matchprint Virtual software and that GTI has “burned in” for 100 hours.

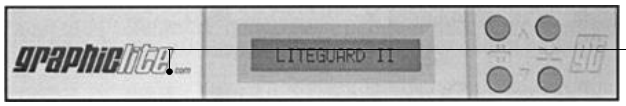
To replace a GTI SOFV-1ex viewing booth lamp, perform the following steps:

1. Record the setting that the dimmer knob or LCD display is at.
2. When the lamp is cool, remove it.

3. Install the new lamp.
4. Turn the dimmer knob or LCD display up to its maximum setting.
5. Leave the lamp on for 60 minutes.

   Note: For color-accurate viewing, new lamps need to be "burned in" for 100 hours.
6. Turn the dimmer knob or LCD display to the setting that you recorded in step 1.
7. Reset the usage meter.
   a. Press the dot in **Graphiclite.com** beside the LCD display, using the end of a paper clip.
   b. Hold down the dot until the unit beeps twice.

      The usage meter resets to zero (0) hours.



Correct Viewing Techniques

This section describes optimum techniques for viewing color on a display monitor. Ensure that your customers and employees who use Matchprint Virtual are informed about and are practicing good viewing techniques.

Do Not Hold the Press Sheet Next to the Monitor

Keep the press sheet flat on the viewing booth surface. Do not lift it up and hold it next to the monitor.

View Images Straight On and at Actual Size

- View the image on the monitor straight on. If you do not, you will see a yellow tone on the file.
- When viewing color images in Smart Review, always view images at actual size (1" = 1"). Zooming affects your color perception.

Do Not Tilt the Monitor Except When Calibrating

Ensure that the monitor is upright when you view images. A tilted monitor surface affects your color perception.

When you place the calibration device on the monitor, you may tilt the monitor slightly backwards to keep the device securely in place.

Position the Proof Correctly in the Viewing Booth

Position the hard proof in the viewing booth according to the manufacturer's instructions. Incorrectly positioning the hard proof affects your color perception.

Remove Distracting Colors

Strong colors (even brightly colored clothing) near the viewing booth may affect your color perception.

- Remove colored objects from your field of vision.
- Walls and surroundings should be light gray or a neutral color with no more than 60% reflectance.
- In the Smart Review or PressProof software, disable any surrounding colors (such as borders) that might affect your color perception.

Reduce the Impact of External Lighting

Uncontrolled lighting is one of the leading causes of color-matching inaccuracies. If overhead lights, daylight, or desk lamp lights infiltrate the viewing area, the quality of the light in the viewing booth and your color perception are affected. External lights can also cause reflections or glare on the monitor display.

- Remove all sources of external lighting—for example, turn off overhead lights, close doors, lower window blinds, and so on.
- If you cannot remove the source of external lighting, change the external lights to the 5000K spectrum.

Keep the Room Temperature Constant

The temperature of the room affects the color of the monitor display light. It is important to keep the room temperature constant. A temperature sensor in the Matchprint Virtual calibrator detects variations in room temperature greater than +/- 5°C. Variations greater than +/- 5°C require a new calibration.

- Set the room temperature to less than 35°C.
- Keep the room temperature constant; it should not vary more than 5°C.

Correct Monitor Setup and Maintenance

This section describes optimum techniques for setting up and maintaining the display monitor. Ensure that your customers and employees who use the Matchprint Virtual software are informed about correct monitor setup and maintenance.

Calibrate the Monitor Every 24 Hours

To ensure the monitor displays color accurately, you must calibrate the monitor every 24 hours using the Matchprint Virtual calibration software. The calibration software will automatically provide a reminder when 24 hours has passed since the last calibration. The reminder will continue to appear every hour until you calibrate the monitor.

For instructions about monitor calibration, see the *Matchprint Virtual Quick Reference Card*, available under **Product Documentation** at http://graphics.kodak.com/matchprintvirtual/.

When calibrating your monitor:

- Keep the calibrator free from dust.
- Do not plug the calibrator into the keyboard. Plug it directly into the Mac computer's USB drive or into the monitor's USB drive.

  Note: If you plug the calibrator into the keyboard, the Matchprint Virtual software does not detect it.
- Ensure that the monitor's USB cable is securely plugged in.
- Do not disconnect the calibrator during working hours.

Leave the Monitor Turned on at All Times

Do not turn off the monitor during use. The monitor cannot be calibrated until it has warmed up for 60 minutes.

If the monitor is accidentally turned off, turn it on, leave it on for 30 minutes, and then try to calibrate the monitor again. If the monitor has not warmed up enough, a countdown clock displays how many minutes you must wait before calibrating.

Disable the Monitor's Energy Saver Feature

Never allow the Energy Saver feature on the Mac computer to turn off the monitor. Lock the display settings to prevent other users from altering them.

To disable the Energy Saver feature, perform the following steps:

1. From the Apple menu, select **System Preferences**.
2. Click **Energy Saver**.
3. If the lock at the bottom of the Energy Saver window is closed, it must be unlocked before changes can be made. Click the lock and enter the administrator user name and password to unlock it.
4. Set both sliding scales to **Never**.
5. Clear the **Put the hard disk(s) to sleep if possible** check box.
6. Click the lock to prevent anyone else from changing the settings.

Disable the Monitor's Brightness Buttons

Never manually adjust the brightness of the monitor using the keyboard, display buttons, or control panel. Always use the Matchprint Virtual calibration software to set the brightness. If the monitor brightness is changed manually, you must calibrate the monitor again.

To disable the monitor's brightness buttons, perform the following steps:

1. From the Apple menu, select **System Preferences**.
2. Click **Displays** and then click **Options**.
3. Select **Disable Brightness Buttons**.
4. Click **OK**.

Do Not Adjust the Contrast Level

To see color on the monitor, the Universal Access setting for contrast must be set to black on white. Do not adjust the contrast level.

To check the contrast setting, perform the following steps:

1. From the Apple menu, select **System Preferences**.
2. Click **Universal Access**.
3. Click **Seeing**.
4. Select **Black on White**.
5. Clear the **Use Gray Scale** check box.
6. Do *not* adjust the **Enhance Contrast** slide bar.

Clean the Monitor With Approved Cleaners

- Only clean the monitor display with cleaners that are approved for use on LCD displays. Do not use glass cleaners or other general cleaning fluids.
- Do not touch the monitor display with your fingers or writing instruments.

Disable Fast User Switching

If you calibrate the monitor and then switch to a different user using the fast user switching feature in the Mac OS operating system software, the automatic calibration check that runs every hour does not find any Matchprint Virtual calibration data and marks the monitor as uncalibrated for all users.

To disable the fast user switching feature, perform the following steps:

1. From the Apple menu, select **System Preferences**.
2. Click **Accounts**.
3. If the lock at the bottom of the Accounts window is closed, it must be unlocked before changes can be made. Click the lock and enter the administrator user name and password to unlock it.
4. Click **Login Options**.

5. Clear the **Enable fast user switching** check box.
6. Click the lock to prevent anyone else from changing the settings.

Troubleshooting Calibration

Calibration Software Fails

If you start the calibration software but it fails, check for the following causes:

- The calibrator is disconnected.
  Solution: Connect the calibrator to a USB port on the computer or monitor, or to a self-powered USB hub. Do not connect it to the keyboard. Restart the calibration software.
- The calibrator is connected, but the software failed unexpectedly after it established a connection with the calibrator.
  Solution: Disconnect the calibrator and reconnect it. Restart the calibration software.
- Your permissions settings contain errors. The Mac OS software assigns access privileges to the Matchprint Virtual software, folders, and documents.
  Solution: Repair permissions using the permissions repair feature in the Disk Utility software. Perform the following steps:
  a. In the Finder, select **Applications > Utilities**. Double-click the **Disk Utility** icon.
  b. Click the startup disk icon.
  c. On the **First Aid** tab, click **Repair Disk Permissions**.
     Disk Utility resets any files and folders that have incorrect settings.

For more information, see the Apple knowledge base article http://docs.info.apple.com/article.html?artnum=106712.

Message to Recalibrate Appears

If you try to view an image using the Prepress Portal or PressProof software, but a message warns that the monitor is not calibrated, check for the following causes:

- More than 24 hours has elapsed since the last calibration.
  Solution: Recalibrate the monitor.
- You are using an incompatible version of Mac OS.
  Solution: Install a qualified version of Mac OS software (for information about software requirements, see *Mounting Monitors on a Wall* on page 3.), and then calibrate the monitor.
- The monitor has been turned off and on.
  Solution: Recalibrate the monitor.
- The computer has been turned off and on.
  Solution: Recalibrate the monitor.

- The ambient temperature has changed by more than 5°C.
  Solution: Recalibrate the monitor. Consider ways to keep the ambient temperature more constant in the future.
- The brightness was manually adjusted using the keyboard or buttons on the monitor.
  Solution: Recalibrate the monitor to reset the brightness levels. Consider disabling the manual brightness settings—see *Disable the Monitor's Brightness Buttons* on page 16.
- The monitor's display luminance has fallen below the fixed luminance setting in the MVP preferences.
  Solution: Reset the monitor luminance levels—see *Monitor Luminance* on page 10. Recalibrate the monitor.
- Fast user switching is turned on.
  Solution: Disable fast user switching—see *Disable Fast User Switching* on page 16.
- You are not the person who last calibrated the monitor.
  Solution: Recalibrate the monitor.

3

Managing Color Profiles

Introduction 20
About Color Profiles 20
Using the Color Target Manager 20
Applying Color Targets in the Prepress Portal Software 21
Applying Color Targets in the PressProof Software 23

Introduction

This chapter provides information about setting up and managing your system's color profiles.

About Color Profiles

Color profiles define the range of colors that a device can produce. A color profile makes it possible to accurately convert the color space of one device (such as an inkjet printer) to another device (such as a computer monitor). You must have an ICC color profile to create color targets for use with the Matchprint Virtual software.

Tip: You may purchase a custom ICC profile from Kodak. For information, contact your Kodak representative.

Note: Remember to back up the folder containing your ICC profiles on another server.

When you use Color Target Manager to import an ICC profile, the ICC profile converts into a device link profile that matches the monitor's color space to that of your proofing device or press. This device link profile is called a *color target*.

After assigning the color target to pages or surfaces, you can view the pages or surfaces with color accuracy on your qualified, calibrated monitor.

Using the Color Target Manager

The Color Target Manager enables you to convert an ICC profile into a color target and to modify existing color targets. The Color Target Manager is available on your Prepress Portal or PressProof server.

Importing ICC Profiles

1. On the server, select **Start > Programs > Creo InSite > Color Target Manager**.
2. In the Manage Color Targets window, select **File > New Color Target**.
   a. Beside **Source Profile**, locate the ICC profile and select it.
   b. Beside **Color Target Name**, type the target name that you want users to see in Smart Review or PressProof.
   c. Click **Import**.

      Your new color target is ready to be assigned to pages for review in Smart Review, or to surfaces for viewing in PressProof.
   d. Repeat steps a-c for each color profile that you want to import.
   e. Close the Color Target Manager.

Removing Color Targets

1. On the server, select **Start > Programs > Creo InSite > Color Target Manager**.
2. In the Manage Color Targets window, select the color target that you want to delete.
3. From the **Edit** menu, select **Delete Color Target**.
4. Click **Yes**.
5. Close the Color Target Manager window.

Applying Color Targets in the Prepress Portal Software

After you create a color target, you can apply it to pages and jobs in the Prepress Portal software. You can also apply a color target to the entire system as a default.

Setting a System Default Color Target

Using InSite administration settings, you can apply a color target to all Prepress Portal jobs.

1. On the desktop of the Prepress Portal server, double-click the **InSite Administration** shortcut.
2. Select **Configuration Settings > Color Management**.
3. Beside **Default Color Target**, select the target you want from the list.
4. Click **Update**.
5. Close InSite Administration.

Note: Job-specific and page-specific color targets override the default system color target.

Applying Color Targets to Jobs and Pages

In the Prepress Portal software, you can assign a color target to jobs and pages in the following ways:

- For a specific job (and all the pages in that job), assign the color target to the job using the **Edit Properties** view.
- For specific pages in a job, assign the color target on the **Pages** tab.
- For multiple jobs, assign the color target in the **Edit Properties** view for a job template. When new jobs are created in the Prepress Portal software and linked to the job template, the color target is automatically assigned to all the pages in the jobs.

Note: A page target overrides a job target.

Tip: If you are unable to apply a color target, your server may not be licensed for the Matchprint Virtual option—see *Licensing the Matchprint Virtual Software* on page 2.

Applying Color Targets to Jobs

1. Log on to Prepress Portal as a staff user.

   Note: Your role must include the Edit Color Management right in order to set a color target.

2. In the Jobs view, click the name of the job that you want to set a color target for.
3. On the **Summary** tab, click **Edit Properties**.
4. Select the **Use Matchprint Virtual** check box.
5. In the **Color Target** list, select the color target that you want to set.
6. If you require the pages to be approved for color, click **Require Color Approval**.

   When you select this option, the user who does a final approval on the page must approve color first. If the user's monitor has not been calibrated or the user does not have a role containing the Color Approval right, the user will not be able to approve the page.

7. Click **Update**.
8. Click **Done**.
9. Click **X** to log off of Prepress Portal.

You can also apply a color target to new jobs by adding the color target to the job template. For information on using job templates in the Prepress Portal software, see the Prepress Portal Help.

Apply Color Targets to Specific Pages

A color target can be assigned to a specific page, but only when its status is being changed to Approval Required.

1. Log on to Prepress Portal as a staff user.

   Note: Your role must include the Edit Color Management right in order to modify a color target.

2. In the Jobs view, click the name of the job that you want to set a color target for.
3. Click the **Pages** tab.
4. Select the pages that you want to modify.
5. Click **Set Color Target**.
6. In the **Color Target** list, select the color target that you want to set.
7. If you require the pages to be approved for color, click **Require Color Approval**.
8. Click **Set Color Target**.
9. Click **X** to log off of Prepress Portal.

For more information about using Prepress Portal, see the Prepress Portal Help.

Applying Color Targets in the PressProof Software

After you create a color target, you can apply it to pages and surfaces in the PressProof software in either of the following ways:

- Use Prepress Portal software, if installed.
- Create a control file that describes the target that you require and store it with the surfaces in your workflow file system.

Note: Surfaces in PressProof inherit color targets that are assigned using Prepress Portal. For information on applying color targets using Prepress Portal, see *Applying Color Targets to Jobs and Pages* on page 21.

Using Control Files

A control file is a text file that contains the name of one color target. When you open a surface in PressProof, the software looks for a control file named **colortarget.txt** in the folder structure where your surfaces are stored and retrieves that color target.

The location of the control file determines which surfaces the target applies to.

Storing Control Files

If you use a Prinergy workflow without Prepress Portal, you can create a control file and place it in the following locations:

- In the **<JOBNAME>\control\userconfig\insitedata** folder
  All surfaces in that job inherit the target.
- In the Prinergy template job folder
  All new jobs created using the template job inherit the target.

In any other type of production workflow system, you can create a control file and place it in the following locations:

- At the root of the file system
  All surfaces within the file system inherit the target.
- In a sub folder in the file system
  All surfaces within the sub folder inherit the target.

Linking PressProof to Control Files in a Prinergy Workflow

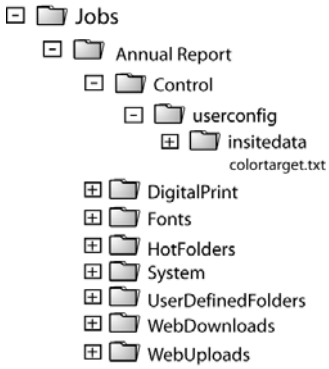
1. On the server, select **Start > Programs > Accessories > Notepad**.
2. Type the name of the color profile (for example, `SWOP`) on the first line.

   Note: The name inside the **colortarget.txt** file must exactly match the name of the target in the Color Target Manager—see *Using the Color Target Manager* on page 20.
3. From the **File** menu, select **Save As.**
4. Type the file name **colortarget.txt**.
5. Under **Save in**, locate **Desktop** and click **Save**.
6. Locate the folder structure that contains your surface files and move the control file into it. Choose the directory level that you require:

- To apply the color target to an individual job, store the control file in the root of the job folder at:
  <JOBNAME>\control\userconfig\insitedata\colortarget.txt
- To apply the color target to a template job, store the control file in the template job folder at:
  <TEMPLATEJOBNAME>\control\userconfig\insitedata\colortarget.txt

  If the folders **userconfig** and **insitedata** do not exist, create them.

  Example:



In this example, the SWOP® target will be used for all surfaces in the job called "Annual Report".

If the "Annual Report" job is a template job, all new jobs that are created using it inherit this SWOP target—the system places the **colortarget.txt** file in the new job's **insitedata** folder automatically.

Note: If you replace the control file in a template job with a new color target, the new target does not apply to jobs already created using the template job. To change an existing job to the new target, replace the control file in the **insitedata** folder for that specific job.

Linking PressProof to Control Files in a TIFF Workflow

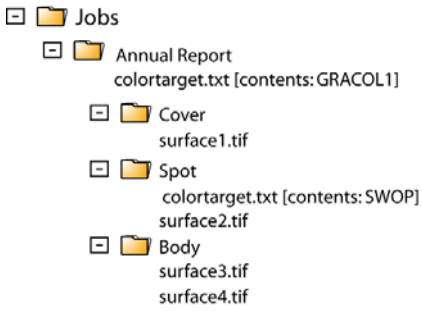
Note: No Prinergy software is required.

1. Create the **colortarget.txt** file.
   a. On the server, select **Start > Programs > Accessories > Notepad**.
   b. Type the name of the color target (for example, `SWOP`) on the first line.

      Note: The name inside the **colortarget.txt** file must exactly match the name of the target in the Color Target Manager.
   c. On the **File** menu, select **Save As.**
   d. Type the file name **colortarget.txt.**
   e. Locate a temporary folder to store the control file in.
   f. Click **Save**.
   g. Locate the folder structure that contains the surface files and move the control file into it. Choose the directory level that you require:

- To apply the color target to all surfaces, store the control file at the root of the surface files on the workflow server.
- To apply the color target to a specific surface, store the control file in the surface's subfolder.

Example:



In this example, the GRACOL1 target is at the root and will be used for surfaces 1, 3, and 4. The SWOP target is in a subfolder and will be used only for surface 2.

Glossary

color target	To match the monitor's color space to that of a proofing device or press, an ICC profile is converted into a target profile that the monitor can achieve. This converted profile is called a *color target*. See also *color profile, Matchprint Virtual,* and *PressProof*.
color profile	The range of colors that a device can produce. A color profile makes it possible to accurately convert the color space of one device (such as an inkjet printer) to another device (such as a computer monitor). See also *color target*.
customer	A company that purchases printing services from a printer—also called a print buyer.
customer user	Someone for whom a customer user account has been created. Customer users are associated with a customer. Typically, each of the customer's employees that uses the Matchprint Virtual software has a customer user account. Customer users can access only jobs associated with the customer to which they belong. See also *staff user.*
device link profile	A type of ICC profile that describes the color space of a device, such as an inkjet proofing device or a computer monitor. See *ICC profile* and *color profile*.
ICC profile	An industry-standard color profile. See also *color profile*.
InSite	A group of Kodak software products that enable collaboration on creative projects, store design work in libraries, and work with prepress jobs
InSite Administration	Software that a printer uses to create customer accounts and staff user accounts and to configure the InSite system. See also *InSite*.
job	A unit used to organize work. A job typically corresponds to a publication.
light booth	See *viewing booth*.
luminance	Perceived brightness or grayscale level of a color. Luminance and chromaticity together fully define a perceived color. See also *chromaticity*.
Matchprint Virtual	Optional software that enables users to review and approve pages for color accuracy in Smart Review, or to view surfaces and pages in PressProof. See also *Smart Review* and *PressProof.*
Prepress Portal	InSite software that a printer's customer uses to create customer user accounts and to work with jobs. See also *InSite*, *InSite Administration*, and *customer user.*

PressProof	Software that enables press operators to view color-accurate surfaces. PressProof can be implemented with any production workflow.
reference target	See *color target*.
Smart Review	A component of the InSite software that allows reviewers to view and annotate pages separately or in a single session.
target	See *color target*.
viewing booth	An enclosed area with controlled lighting for evaluating color proofs and press sheets. Also known as *light booth*, *viewing box*, and *viewing station*.