

Matchprint Virtual

for Smart Review System

Version 5.1

Quick Start Guide

English

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What Is Matchprint Virtual?

Kodak® Matchprint® Virtual software allows users who run Apple® Mac OS® X systems with an approved color monitor to perform color-accurate proofing of files in Smart Review. The monitor is calibrated against a color target, and then the file can be checked in Smart Review for color accuracy and approved, rejected, or marked for corrections.

This document explains how to set up your system for color management of files in Smart Review. The steps are:

- Install Matchprint Virtual monitor calibration software on your Mac® computer, and connect the calibrator—see page 1.
- Set system preferences—see page 2.
- Calibrate the color monitor—see page 3.
- Set monitor luminance levels—see page 4.

Software/Hardware Requirements

You must use an approved and calibrated Mac system to ensure color-accurate viewing. For the latest hardware and software requirements, see the *Matchprint Virtual 5.1 Release Notes*, available under **Product Documentation** at http://graphics.kodak.com/matchprintvirtual/.

Installing the Calibration Software

Before you can view color-accurate files, you need to be sure that your monitor can consistently display a standard quality of color. Use only Apple Mac OS X systems with qualified EIZO® ColorEdge® or Apple Cinema Display™ color calibration monitors, and calibrate the monitors daily using the Kodak Matchprint Virtual software.

Matchprint Virtual calibration software runs the monitor through a sequence of color patches, measures each color, compares it to predefined color settings, and records the results.

Note: For a list of qualified monitors, see the *Matchprint Virtual Release Notes,* available under **Product Documentation** at http://graphics.kodak.com/matchprintvirtual/.

Install the latest version of Matchprint Virtual calibration software on each Mac computer that will be used to perform monitor proofing.

If you have version 3.2 of Matchprint Virtual calibration software installed, you must remove it first—see *Troubleshooting Monitor Calibration* on page 5.

1. Log on to the Mac computer as the Administrator.
2. Open a Web browser and locate the Matchprint Virtual Web site at http://graphics.kodak.com/matchprintvirtual
3. Click **Downloads** in the navigation bar on the left.

4. Download the Matchprint Virtual calibration software and all updates to your Mac desktop.

   Tip: You can also download a quick reference card that shows how to use the Matchprint VIrtual calibration software.

5. Double-click the installer icon and follow the instructions.
6. Restart the computer.
7. Double-click any updater icon and follow the prompts to complete installation of the updates.
8. Restart your computer.
9. Connect the calibrator to the USB port on the computer or monitor, or to a self-powered USB hub.

   Important: Do not use the USB port located on the keyboard.

To use the calibration software, see *Calibrating the Color Monitors* on page 3.

Configuring the Energy Saver and Screen Saver

If your computer system is running the Energy Saver feature, or your screen saver is set to start frequently, you need to adjust the settings so that they do not interfere with monitor calibration.

Configuring the Energy Saver

The Energy Saver feature puts your computer and your monitor into sleep mode whenever they are inactive for a defined period of time. It can also be set to start your computer automatically each working day.

If the Energy Saver shuts down your monitor and it stays off for more than five minutes, you must wait an hour for it to warm up before you can calibrate. To avoid the wait, ensure that the sleep mode is disabled. You may also want to set the Energy Saver to start the computer each working day at least an hour before you expect to calibrate.

1. Select **Apple > 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 username and password to unlock it.
4. Under **Put the computer to sleep when it is inactive for**, set the sliding scale to **Never**.
5. Under **Put the display to sleep when the computer is inactive for**, set the sliding scale to **Never**.

   Important: Matchprint Virtual software will not calibrate a monitor if it detects an Energy Saver setting other than **Never**.

6. Ensure that the check box beside **Put the hard disk(s) to sleep if possible** is cleared.

7. Click **Schedule**.
8. Select the check box beside **Start up or wake**.
9. From the menu, select a day or days. Beside **at**, type a time of day.
10. Click **OK**.
11. Click the lock to prevent anyone else from changing the settings.
12. Close the Energy Saver window.

Configuring Screen Savers

You must prevent your screen saver from launching during calibration and interfering with measurement.

1. Select **Apple > System Preferences**.
2. Click **Desktop & Screen Saver**.
3. Click the **Screen Saver** tab.
4. Select a screen saver.
5. Under **Start screen saver**, set the sliding scale to at least 1 hour 30 minutes.
6. Close the Desktop & Screen Saver window.

Calibrating the Color Monitors

You must calibrate your monitors every 24 hours to ensure accurate color viewing. The monitors must be turned on for at least one hour before they can be calibrated.

1. At the Dock, click and hold the **Matchprint Virtual** icon. 
2. Select **MVP Calibrate System**.
3. Follow the prompts to calibrate the monitors.

During calibration, your Matchprint Virtual calibration software checks the deltaE and white point luminance of your monitor. If the deltaE exceeds 2.5, or if the display cannot achieve the luminance value that is set in the software, calibration fails.

Monitor Calibration Reminder

When calibration expires, a reminder appears. You can select **Dismiss for 24 hours**, or **Calibrate**.

The reminder may also appear when the ambient room temperature increases or decreases by 5°C or more, or when the calibrator is left on the monitor.

For more information about calibrating color monitors, see the *Matchprint Virtual Monitor Calibration Quick Reference Card*, available under **Product Documentation** at http://graphics.kodak.com/matchprintvirtual/.

Setting Monitor Luminance Levels

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.

In a dual-monitor system, it is also important that the luminance of the two monitors matches so that color perception is not affected.

To check the maximum luminance settings of a new monitor:

1. At the Dock, click and hold the **Matchprint Virtual** icon. 
2. Select **MVP Preferences**.
3. Click the **Settings** tab, select a monitor, and click **Show Settings**.

   Tip: You can also double-click the monitor name to open its **Preferences** dialog box.
4. Ensure that **Maximum Luminance Method** is selected.
5. Click **Save**.
6. If you are calibrating a dual-monitor systems, repeat steps 1 to 5 for the second monitor.
7. Calibrate the monitor—see *Calibrating the Color Monitors* on page 3.

   When calibration is complete, the following message appears:

   ```
   Calibrate System on this monitor passed
   Color Verification:
   Luminance:
   ```
8. Record the color verification and luminance values.

To change to a fixed luminance setting:

1. At the Dock, click and hold the **Matchprint Virtual** icon. 
2. Select **MVP Preferences**.
3. Click the **Settings** tab, select the monitor, and click **Show Settings**.

   Tip: You can also double-click the monitor name to open its **Settings** dialog box.

   a. Select **Fixed Luminance Method**.

   b. Type a value that is 10% less than the lower of the two luminance values you recorded when you calibrated the monitors.

      Example (calibrating a single monitor):

      Your monitor has a luminance value of 255. Type `230` (255 - 25). This is the luminance value that the monitor must achieve for calibration to succeed.

Example (calibrating a dual-monitor system):

Your first monitor has a luminance value of 280 and your second monitor has a luminance value of 255. Since 255 is the lower value, type 230 (255 - 25). This is the luminance level that both monitors must achieve for calibration to succeed.

4. Click **Save**.
5. Wait 15 minutes and recalibrate the monitor.
6. If you are calibrating a dual-monitor system, repeat steps 1 to 5 for the second monitor.

Troubleshooting Monitor Calibration

Calibration 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.

- The monitor cannot achieve the fixed luminance level or the required deltaE (2.5 or less), due to ageing.
  Solution: Change back to the maximum luminance method, recalibrate, and then use the fixed luminance level. Perform the following steps:
  a. Change back to the maximum luminance method—see *Setting Monitor Luminance Levels* on page 4.
  b. Wait 15 minutes and recalibrate the monitor.
  c. Record the maximum level that each monitor can achieve.
  d. Change to the fixed luminance method and set a value that is 10% less than the lowest maximum luminance value you recorded.
  e. Wait 15 minutes and recalibrate the monitor.
  f. If the monitor still fails to calibrate, try again using a different colorimeter.

  When the luminance of the monitor can no longer be matched to the luminance of the viewing booth, consider replacing the monitor.

Tip: If the monitor continues to fail, select **MATCHPRINT Virtual > LogFiles** from the Dock and send a copy of the log file to your Kodak representative for help.

Message to Recalibrate Appears

If you try to view a file, but a message appears 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, 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:
  - From the **Apple** menu, select **System Preferences**.
  - Click **Displays** and then click **Options**.
  - Select **Disable Brightness Buttons**.
  - Click **OK**.

- The monitor's display luminance has fallen below the fixed luminance setting in the MVP preferences.
  Solution: Reset the monitor luminance levels—see *Setting Monitor Luminance Levels* on page 4. Recalibrate the monitor.
- Fast user switching is turned on.
  Solution: Disable fast user switching
  - From the **Apple** menu, select **System Preferences**.
  - Click **Accounts**.

    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.
  - Click **Login Options**.
  - Clear the **Enable fast user switching** check box.
  - Click the lock to prevent anyone else from changing the settings
- You are not the person who last calibrated the monitor.
  Solution: Recalibrate the monitor.

Removing the Calibration Software

This section describes how to remove the Matchprint Virtual calibration software.

Note: You do not need to remove Matchprint Virtual calibration software before you upgrade to a later version, as long as you are replacing version 4.0 or later.

To uninstall Matchprint Virtual calibration software, version 3.x:

1. Log on to the Mac computer as an Administrator.
2. Delete the **MATCHPRINT Virtual** icon from the Dock.
3. Insert the Matchprint Virtual calibration software CD, version 3.x, into the CD drive.
4. Double-click the **MVP-LCD v3.x.x Installer** icon on your desktop.
5. Double-click the **MVP LCD v.3.x.x Installer** icon.
6. Type your Administrator password.
7. In the License dialog box, click **Accept**.
8. In the Installer dialog box, select **Uninstall** from the menu and click **Uninstall**.
9. Click **Continue**.

   The Matchprint Virtual calibration software is removed. A confirmation message appears.
10. Click **OK** and **Quit**.

To remove Matchprint Virtual calibration software, version 4.0 or later:

1. Log on to the Mac computer as an Administrator.
2. Open your Apple Safari™ browser software and type `http://graphics.kodak.com/matchprintvirtual/`
3. Under **MATCHPRINT Virtual Monitor Calibration Software**, click **Download now.**
4. Under **Uninstallers**, click the version of Matchprint Virtual calibration software that you want to remove and download it to your desktop.
5. Double-click the Uninstaller icon on your desktop.
6. Type your Administrator username and password.

   The Matchprint Virtual calibration software is removed. A confirmation message appears.
7. Click **OK**.

Color-Accurate Viewing With Photoshop

You can use Adobe® Photoshop® CS3 software for color-accurate viewing on your qualified, calibrated monitor by doing the following setup:

Note: The color will be slightly less accurate than when using Smart Review for viewing, because Photoshop does not use the Kodak Color Fidelity Module (CFM) to convert the image.

1. Set up Matchprint Virtual to generate a Photoshop-compatible profile:
   a. At the Dock, click and hold the Matchprint Virtual icon.
   b. Select **MVP Preferences**.
   c. Click the **Settings** tab and double-click **MVP Profile**.
   d. Select the **Generate MV PS profiles** check box.
   e. Click **Save**.
2. Calibrate your qualified color monitor using Matchprint Virtual version 5.1.
3. Adjust the color settings in Adobe Photoshop CS3:
   a. Start the Adobe Photoshop CS3 software.
   b. Select **Edit > Color Settings**.
   c. In the **Conversion Options** area, clear the **Use Black Point Compression** and **Use Dither** check boxes.

      Note: If you cannot see the **Conversion Options** heading, click **More Options**.
   d. Click **OK**.

4. Assign a CMYK ICC profile to the image file that you want to view:
   a. Open the CMYK image file in Photoshop.
   b. Select **Edit > Assign Profile**.
   c. Select a CMYK ICC profile from the list.
   d. Click **OK**.
5. Set the proofing view:
   a. Select **View > Proof Setup > Custom**.
   b. In the **Device to Simulate** box, select the same ICC profile that you selected in Step 4.
   c. Select the **Preserve CMYK Numbers** check box.
   d. In the **Display Options** area, select the **Simulate Paper Color** check box.
   e. Click **Save** and type a file name to store the proof setup (**.pfs**) file for future use.

      Note: By saving the **.pfs** file, you simplify the setup for the next Photoshop file you want to view using the same ICC profile. The saved file appears in the **Custom Proof Condition** list.
   f. Click **OK**.

You can now view the image for color accuracy using Photoshop.