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Internal: 731-00978A-EN Rev A
Release date: 12 March 2007

Technical Bulletin

Testing Color Matching Using the Kodak Verification Proof

The Kodak® Verification Proof is a single-page, hard proof that has been produced using the Kodak Approval™ proofing system or the Kodak Veris™ digital proofer. The Verification Proof is color-accurate to an associated target ICC profile, and each proof is stamped with an expiry date to ensure color accuracy.

This document outlines the procedure for using the Verification Proof to ensure that a file viewed on a qualified monitor, using Kodak InSite™ or Kodak PressProof™ software, is color-accurate. The monitor must be calibrated using Kodak Matchprint® Virtual calibration software and must use the same ICC profile as the hard proof.

Prerequisites

Before beginning this procedure, contact your Kodak representative to obtain the following files:

- Soft Verification Proof file:
  - For use with InSite software: **MV_Master.pdf**
  - For use with PressProof software: **MV_Master.tif**
- Hard Verification Proof: A date-stamped Verification Proof from the Kodak Veris digital proofer or the Approval proofing system

  Note: You cannot use the verification proof after its expiry date. If the expiry date has passed, order a new proof.
- The ICC profile that the Verification Proof uses.

You must also ensure that you have the following software:

- Latest supported version of the Matchprint Virtual software, installed and operating correctly. Download the software from the Matchprint Virtual Web site at http://graphics.kodak.com/matchprintvirtual
- Latest supported version of the InSite or PressProof software, installed and operating correctly
- A Color Customer license, installed in the InSite software

Managing the Viewing Environment

The viewing environment can significantly affect how color appears, both on the monitor and in the viewing booth. Ensure that you have managed the environment conditions, and that you use best practices when viewing. For example, eliminate external lighting sources wherever possible (turn off lights, close blinds).

For information, see the *Matchprint Virtual and PressProof System Administration Guide*, available on the Matchprint Virtual Web site at http://graphics.kodak.com/matchprintvirtual .

Calibrating the Monitor

You must view the soft Verification Proof on a qualified color monitor that has been successfully calibrated using the Matchprint Virtual calibration software. For instructions, see the *Matchprint Virtual Monitor Calibration Quick Reference Card*, available on the Matchprint Virtual Web site at http://graphics.kodak.com/matchprintvirtual .

Creating the Color Target for the Verification Proof

The InSite or PressProof software requires that a color target be associated with the soft Verification Proof, in order to display the file accurately on the monitor. Create the color target by importing the Verification Proof's ICC profile, using the Color Target Manager.

1. On the InSite server, from the **Start** menu, select **Programs > Creo InSite > Color Target Manager**.
2. In the Manage Color Targets window, from the **File** menu, select **New Color Target**.
3. In the **Source Profile** box, locate the ICC profile and select it. Make sure that you select the ICC profile used by the hard Verification Proof (see Prerequisites).
4. In the **Color Target Name** box, type `VerificationProof`
5. Click **Import**.
6. Close the Color Target Manager.

Viewing the Soft Verification Proof

When the color target is created, your monitor is successfully calibrated, and the viewing environment is suitable for color-accurate viewing, you are ready to set up the Verification Proof file for viewing in the InSite or PressProof software.

Viewing the Verification Proof in the InSite Software

The following procedure describes how to upload and process the Verification Proof file in the InSite software, assign the color target, and view the Verification Proof in full screen mode using the Kodak Smart Review system.

1. Log on to the InSite software and select an existing job.
2. In the Job Home view, click **New Upload**.
3. Upload the Verification Proof file, as follows:
   a. In the **Upload Name** box, type `Verification Proof`

b. Using Microsoft® Windows® Explorer, locate the **MV_Master.pdf** file, and drag it to the **Files to Upload** box.

c. Click **Upload**. When the upload is complete, click **Close**.

d. In the Upload Details dialog box, click **Refresh** to see the status of file copying or refining.

e. When the copying or refining of the files or folders is complete, close the Upload Details dialog box

4. In the Pages view, select the check box beside **MV_Master.p1.pdf**.
5. On the Operations Palette, click **Set Pages to Approval Required**.
6. In the Request Approval view, set the page to be color-managed and assign the color target, as follows:

   a. Select the **Request Color-Managed Proofs** check box.

   b. From the **Color Targets** list, select **VerificationProof**.

   c. Click **Request Approval**, and click **OK**.
7. In the Pages view, click **MV_Master.p1.pdf** to open it in the Smart Review system.
8. View the status information in the bottom-left pane of the Smart Review system to confirm that the correct color target is assigned, and that the monitor is successfully calibrated.
   - If the color target is incorrect, reassign the color target by repeating steps 5 and 6.
   - If the calibration has expired or failed, recalibrate. See *Calibrating the Monitor* on page 2.
9. On the Smart Review toolbar, click **Full Screen Preview**.

The page appears in full screen mode. You are now ready to compare the soft Verification Proof with the hard proof. See *Comparing the Verification Proofs* on page 4.

Viewing the Verification Proof in PressProof Software

The following procedure describes how to assign the color target to the Verification Proof file and view the Verification Proof in full screen mode.

1. Assign the color target to the Verification Proof file, as follows:
   - If you have InSite software installed, follow steps 1 to 6 in *Viewing the Verification Proof in the InSite Software* to upload the **MV_Master.tif** file and assign the color target.
   - If you do not have InSite software, create a control file that contains the name of the color target and store it as follows:

     a. Place the **MV_Master.tif** file in an existing job folder on the server.

     b. From the **Start** menu on the server, select **Programs > Accessories > Notepad**.

     c. Type `VerificationProof` (the name of the color target) on the first line.

     d. From the **File** menu, select **Save As**.

     e. Type `colortarget.txt`

f. Under **Save in**, locate the job folder and save the control file into it as follows:

- In a Kodak Prinergy® Connect™ or Kodak Prinergy Powerpack™ workflow, place the **colortarget.txt** file at: **<JOBNAME>\control\userconfig\insitedata**

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

- In any other type of production workflow system, locate the folder structure that contains the **MV_Master.tif** file, and place the **colortarget.txt** file in a subfolder.

2. Log on to the PressProof software.
3. In the Select Job dialog box, select the job folder where the Verification Proof file is located.

   Note: If the job list is long, you can search for the job by typing the first letters of the job name in the **Filter** box.
4. Click **Choose**.
5. In the **Pages** list, click the **MV_Master** file.

The page appears in full screen mode. You are now ready to compare the soft Verification Proof with the hard proof. See *Comparing the Verification Proofs* on page 4.

Comparing the Verification Proofs

When you have successfully opened the soft Verification Proof for viewing in full screen mode, you can compare it with the hard proof that is placed in a viewing booth.

- If the color on the monitor matches the color of the hard Verification Proof, the Matchprint Virtual system is ready to use for viewing production files.
- If the color on the monitor does not match the color of the hard Verification Proof, there may be a problem with lighting conditions in the viewing booth or room. Contact your Kodak representative for assistance.

About Kodak Graphic Communications Group (GCG)

The leading provider of graphic communications solutions worldwide, Kodak's Graphic Communications Group (GCG) offers image capture systems; professional color, copydot, and high-speed document scanning systems; inkjet printing and proofing systems; workflow and color management software; thermal imaging devices for film, plates, and proofs; high-quality proofing media, printing plates, and recording film; on-demand color and black-and-white printing systems; data storage products; and professional services. With corporate headquarters located in Rochester, N.Y., Kodak (NYSE: EK) has the largest global sales force and is committed to a digitally oriented growth strategy.

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