



ProfilerPLUS™

User Guide

Edition: May 2002

All efforts have been made to ensure the accuracy of this Guide. However, should any errors be detected, we would appreciate being informed of them. Changes are periodically made to the information and will be incorporated in new editions of this Guide. ColorVision Inc. reserves the right to make improvements and/or changes in the product(s) and/or program(s) in this Guide at any time.

© 2002 ColorVision Inc. All rights reserved.

COLORVISION™ and other ColorVision Inc. trademarks are the property of ColorVision Inc. PANTONE® and other Pantone, Inc. trademarks are the property of Pantone, Inc. All rights reserved. Adobe and Photoshop are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. Mac is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

ProfilerPLUS User Guide

Overview

The following 10 steps describe the correct procedures for making ProfilerPLUS RGB profiles. Each section includes detailed individual settings for most situations. Additional information, including screen shots, is available in the ProfilerPLUS RGB User Guide installed in the PANTONE® COLORVISION™ folder of your computer. For Windows® users, this folder is installed at the root level of the C Drive. For Macintosh users, the folder is installed on the start-up drive - Macintosh HD. The correct procedures for Steps 4 and 10 are dependent on your OS and Adobe® Photoshop® version. Select the section that applies to your configuration.

Just follow the steps below:

Step 1: Install the ProfilerPLUS Plug-ins

Quit Adobe Photoshop or Adobe Photoshop Elements if they are open.

Run the ProfilerPLUS Installer.

For Windows - Enter your serial number, including the dashes, at the prompt.

For Macintosh - You will be prompted for the serial number when you launch ProfilerPLUS for the first time.

Step 2: Configure Adobe Photoshop

Set the RGB working space.

We recommend using Adobe RGB (1998) for the RGB working space.

Adobe Photoshop 6.0 – 7.0

Edit-> Color Settings Menu.

Select Adobe RGB (1998) for the RGB Working Space.

Adobe Photoshop 5.0 – 5.5

File-> Color Settings -> RGB Setup.

Select Adobe RGB (1998) from the RGB pop-up menu.

Check – Display using Monitor Compensation.

Adobe Photoshop Elements

No setting required.

Step 3: Start the profiling process.

Check your printer for proper operation. Your printer must be able to produce a clean print with no dropouts or streaks. If necessary, consult your printer manual for maintenance instructions.

Launch Adobe Photoshop.

Launch Profiler RGB:

File->Automate->ProfilerPLUS – RGB.

Load the Calibration Chart.

Select **a. Load Calibration Chart** from the pop-up menu.

Note: When the chart is loading, if you get a prompt about a profile mismatch in

Adobe Photoshop 6.0 – 7.0 ->, select “Discard the Embedded Profile”

(don’t color manage).

Adobe Photoshop 5.0-5.5 -> Select “Don’t Convert.”

Step 4. Set-up the printer to print the Calibration Chart

Different print drivers will have slightly different options in the print dialogs. Please note that the critical settings are in **bold**.

Adobe Photoshop 6.0 – 7.0 - Macintosh:

File -> Print.
Source Space - **Document** (radio button).
Print Space - Select **Same as Source** from the top of the menu.
Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Note: Starting with Photoshop 7, in order to access the "Print Space" for selecting your custom printer profiles, you now need to use the " File> Print with Preview" command in Photoshop, instead of the standard "File> Print" command, then at the bottom of the main print window, select "Show More Options", and in the popdown menu this displays, choose "Color Management". Then the usual source, proof, and print space choices will be displayed.

Adobe Photoshop 6.0 – 7.0 - Windows:

File -> Print.
Source Space - **Document** (radio button).
Print Space - Select **Same as Source** from the top of the menu.
Setup → Properties.
Mode-> Custom --> Advanced.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Note: Starting with Photoshop 7, in order to access the "Print Space" for selecting your custom printer profiles, you now need to use the " File> Print with Preview" command in Photoshop, instead of the standard "File> Print" command, then at the bottom of the main print window, select "Show More Options", and in the popdown menu this displays, choose "Color Management". Then the usual source, proof, and print space choices will be displayed.

Adobe Photoshop 5.0-5.5 - Macintosh:

File -> Print.
Space – **RGB Color**.
Printer Color Management – Not Checked.
Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop 5.0-5.5 - Windows:

File -> Print.
Space – **RGB Color**.
Printer Color Management – **Not Checked**.
Setup → Properties.
Mode-> Custom --> Advanced.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop Elements - Macintosh:

File -> Print.
Source Space – Automatic.
Print Space - Select **Same as Source** from the top of the menu.
Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.

Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop Elements - Windows:

File -> Print.

Source Space – Automatic.

Print Space - Select **Same as Source** from the top of the menu.

Setup → Properties.

Mode-> Custom --> Advanced.

Color Adjustment - select **No Color Adjustment**.

Select – the Paper, DPI settings, etc., you will use for the final print.

Step 5. Print the Calibration Chart

Use the settings in Step 4 and print the ProfilerPLUS RGB Calibration Chart. Examine the print for printing errors (striping, dropouts, etc.). Allow the chart to dry. The print of the Calibration chart will appear darker and more vivid than the original digital image; this is what you should expect to see.

Step 6. Configure the Scanner

To correctly adjust for scanner differences, ProfilerPLUS assumes certain baseline settings were used for the scan.

Generic Settings:

Use the scanner's standard mode.

If available, set the Black point to 0 (Shadow).

If available, set the White point to 255 (Highlight).

If available, set the Gamma to 1.5 (Midtone).

Turn off sharpening and other filters.

Set the resolution to 300 DPI at 100%.

Create a scan selection around the colored patches, leave about 1/4 inch of white border. Do not scan the entire scanner bed!

Epson Scanner Settings

Set the Destination to **Screen**.

Set the Midtones to 150.

For scanners with only Brightness and Contrast settings, use the default settings initially.

Step 7. Scan the print of the Calibration Chart

Clean the glass on the scanner bed. Place the print of the Calibration Chart on the scanner bed.

Scan the Calibration Chart using the settings in Step 6.

Step 8. Check the Scan

Open the scan in Adobe Photoshop. The white square on the scan should be at the lower right corner. If it's not, use Image->Rotate Canvas to locate the white square at the lower right corner. Save the scan so you can use it later. You can use either a TIFF or JPEG (Quality 9) format.

Step 9. Building the Profile

In order to build the Profile, the scan of the Calibration Chart print MUST be the front window. Profiler RGB uses the scanned image color data to build the profile.

Launch Profiler RGB File->Automate-> ProfilerPLUS – RGB.
Select b. **Build Profile** from the pop-up menu.
Set the Precision to High.
Leave the 6 Sliders at the default 0 setting.
Leave “Show Edits in Preview” - checked (default).
Click “OK” and name your new profile. Choose a descriptive name you will recognize later. For example, “Epson 1280 matt hwt.”

Step 10. Make a Test Print - Printing using a Profile

Use a reasonable image for a test print. An image that includes grays so you can check the gray balance is preferable. The PDI target included with the ProfilerPLUS is recommended (look in the PANTONE COLORVISION folder). The ProfilerRGB User Guide provides three methods for printing using an ICC profile. Method #2, which we detail below, works reliably on all printers. **Note: All the printer setups are exactly the same as the ones you use to print the Calibration Chart EXCEPT you select your ProfilerPLUS Profile in Print Space.**

Adobe Photoshop 6.0 – 7.0 - Macintosh:

File -> Print.
Source Space - **Document** (radio button).
Print Space - Select your new ProfilerPLUS Profile from the menu.
Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop 6.0 – 7.0 - Windows:

File -> Print.
Source Space - **Document** (radio button).
Print Space - Select your new ProfilerPLUS Profile from the menu.
Setup → Properties.
Mode-> Custom --> Advanced.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop 5.0-5.5 - Macintosh:

File -> Print.
Space – Select your new ProfilerPLUS Profile.
Printer Color Management – Not Checked.
Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop 5.0-5.5 - Windows:

File -> Print.
Space – Select your new ProfilerPLUS Profile.
Printer Color Management – **Not Checked**.
Setup → Properties.
Mode-> Custom --> Advanced.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop Elements - Macintosh:

File -> Print.
Source Space – Automatic.
Print Space - Select your new ProfilerPLUS Profile from the menu.

Mode-> Custom --> Advanced Settings.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Adobe Photoshop Elements - Windows:

File -> Print.
Source Space – Automatic.
Print Space - Select your new ProfilerPLUS Profile from the menu.
Setup → Properties.
Mode-> Custom --> Advanced.
Color Adjustment - select **No Color Adjustment**.
Select – the Paper, DPI settings, etc., you will use for the final print.

Step 11. Adjusting a Profile using the Editing Sliders

Because of the differences in scanners, inks and personal preferences, it will probably be necessary to make small edits to a profile to "zero it in." This is normal and the reason ProfilerPLUS has six adjustment sliders.

- 1) Evaluate the print made with the base profile. Examine the gray areas for a color shift first. Profiles that produce neutral grays are usually correctly balanced.
 2. Open the scan of the ProfilerPLUS Calibration Chart you saved in Step 7 earlier.
- 2) Launch ProfilerPLUS.
Select b. Build Profile.
Make the adjustments using the ProfilerPLUS editing sliders.

Tip: In the beginning, adjust one slider at a time so you can see the affect without confusion. If you think you need to adjust both the brightness and the hue, first adjust the hue sliders. This can affect the brightness slightly depending on the adjustment made. "+" adjustments will lighten, "-" adjustments will darken very slightly. For example, if your grays look too yellow, adjust the yellow <-> blue slider to +10, build a new profile and choose a descriptive name for it like "Epson 1280 matt hwt +10 Blue." Print out another target and evaluate the results.