How to use an ICC profile with the Epson driver

The photographic workflow examples included in this document are created with Adobe Photoshop CS. The workflow with other versions of Photoshop may vary slightly. Refer to Adobe's documentation for details. The Epson printer driver selections shown in the examples may very slightly from model to model.

Installing ICC Profiles

To use any RGB ICC Profile you must first place them in your operating system's standard location for profiles. Here is where you must copy your ICC profiles:

Operating System	ICC File Location
Windows 98 & ME	Windows / System / Color
Windows NT	Winnt / System32 / Color
Windows 2000	Winnt / System32 / Spool / Drivers / Color
Windows XP	Windows / System32 / Spool / Drivers / Color
MAC OS 8 & 9	System Folder / ColorSync Profiles
MAC OS X	Library / ColorSync / Profiles

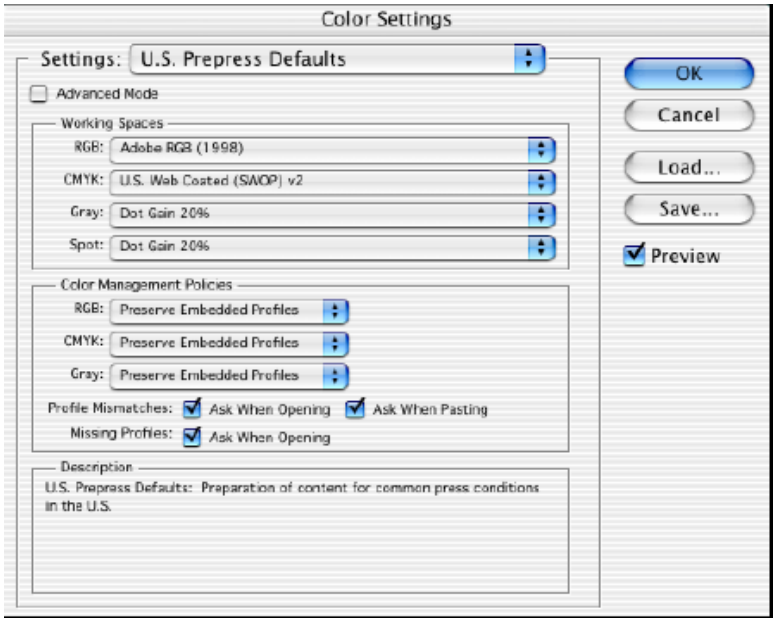
Although standard ICC profiles will produce excellent results, it is always best to create profiles on the actual printer, media and ink you are using.

Configuring Adobe Photoshop CS

Macintosh OS X

1. Open Adobe Photoshop CS and choose **Color Settings** under the **Photoshop** menu. Select **U.S. Prepress Defaults** from the Settings pull-down menu. This sets **Adobe RGB (1998)** as the RGB working space and activates warning messages for profile mismatches and missing profiles. Verify the dialog boxes look like this and click **OK**.

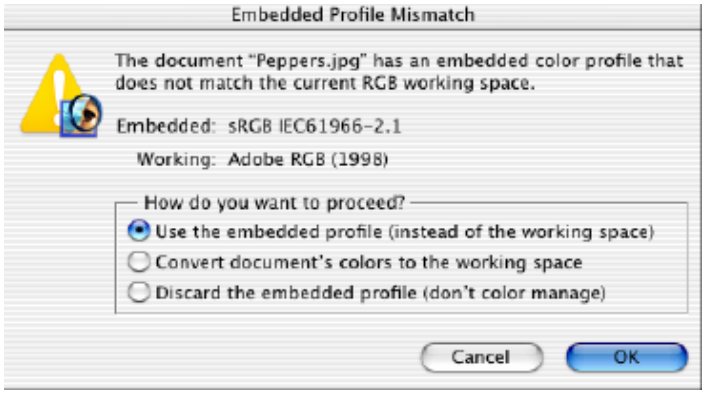
   Note: *Depending on your workflow the settings on this screen may change.*



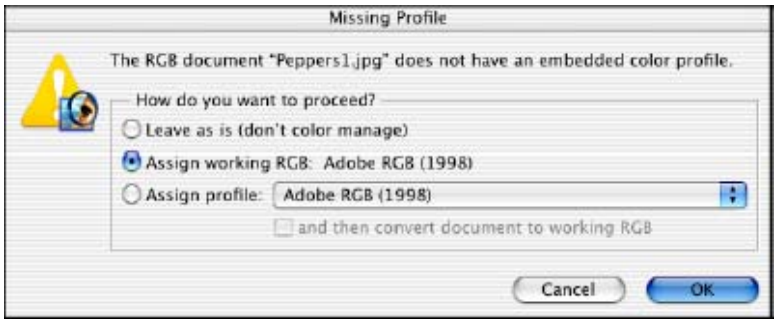
2. Open the photo you want to print. You may see one of the message shown below:

   Note: *The message you see will depend on your workflow.*

   a. If you see the “Embedded Profile Mismatch” message shown below, select **Use the embedded profile** (instead of the **working space**) option and click **OK**. It is generally best to use the embedded profile.



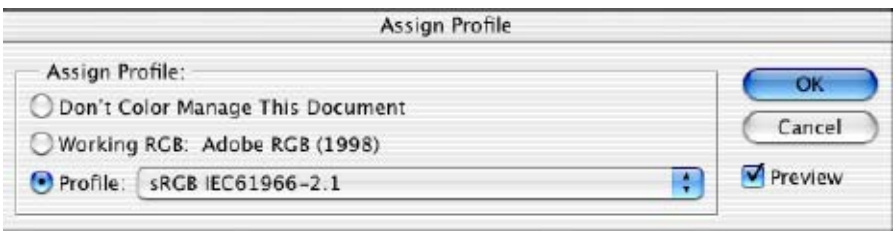
   b. If you see the “Missing Profile” message shown below, select **Assign working RGB**: **Adobe RGB (1998)** and click **OK**.



3. When your image appears, evaluate the color balance and contrast as displayed on your monitor. If they need improvement:

   a. Select **Image > Mode > Assign Profile**.
   b. Click the **Preview** box so you can see the effects of your profile choice on the screen.
   c. Click **OK** to accept your changes, or **Cancel** to exit.

   Your monitor should be calibrated regularly to maintain color accuracy.



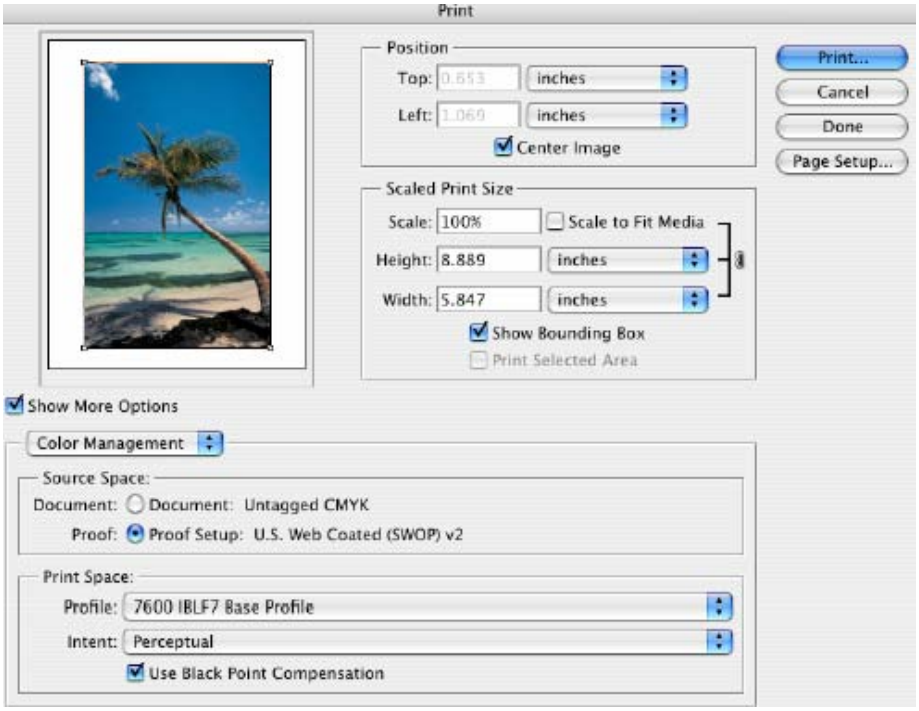
   Note: *Assigning a profile to the image doesn’t alter the image data, only the interpretation of the data by your software and how it appears on your monitor and in a printout. This is the best way to improve the color balance and contrast in your image.*

Setting Page Setup and Print Setting

1. Select **File > Page Setup**. Select the printer you are using from the **Format for** menu.

2. Select the size of the paper you loaded as the **Paper Size** setting and your image orientation. Click **OK** to continue.

3. Select **File > Print with Preview**. Click **Show More Options**, then select **Color Management**.



4. **Print Space** selections.

    a. **Profile:** select a profile for your printer and the paper you'll use for the print.

    b. **Intent:** Select **Relative Colorimetric** for images within the gamut of the printer. For images outside of the printer's gamut select **Perceptual**.

5. Select the **Use Black Point Compensation** checkbox. Click the **Print** button.

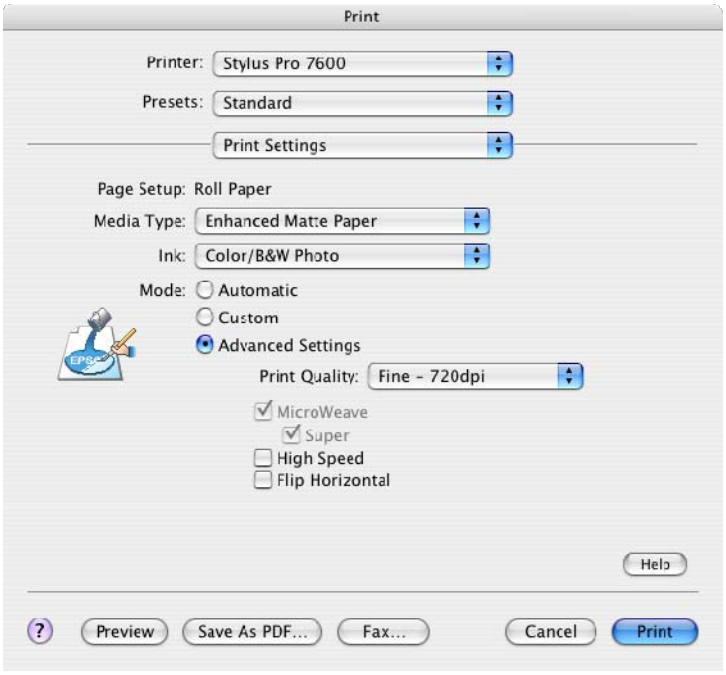
6. Select your printer from the **Printer** menu.

    Note: *Always select the exact same setting as the* ***Printer*** *option in the* ***Print window*** *and the* ***Format*** *for option on the* ***Page Setup*** *windows. If the settings are different you may get unexpected results.*

7. Select **Print Settings** from the pull-down menu. Select the **Media Type** setting for the paper you'll use for the print.

8. Click the **Advanced Settings** button. Select the **Print Quality** option that will give you the level of quality you want in your print.

9. For the best quality output turn off the **High Speed** option.



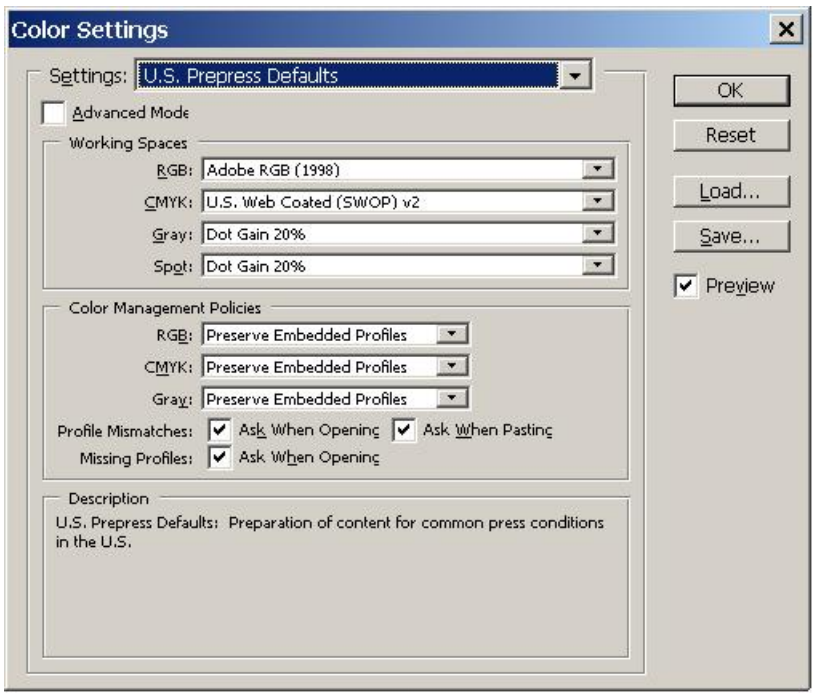
10. Select **Printer Color Management** from the pull-down menu, then select **No Color Adjustment**.

    Note: *Make sure that you select* ***No Color Adjustment****. If you don't, the printer driver will apply additional correction to the image data, producing inaccurate results.*

11. Click **Print** to print.

Windows XP

1. Open Adobe Photoshop CS and choose **Edit > Color Settings.** Select **U.S. Prepress Defaults** from the Settings pull-down menu. This sets **Adobe RGB (1998)** as the RGB working space and activates warning messages for profile mismatches and missing profiles. Verify the dialog box looks like this and click **OK**.

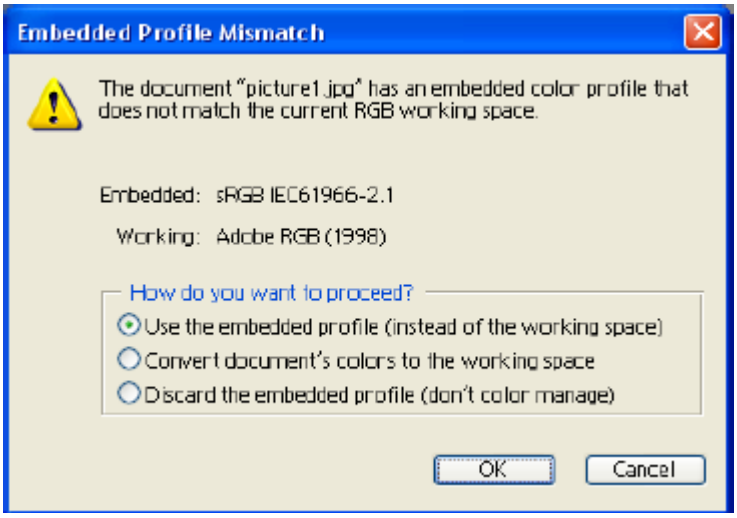


.

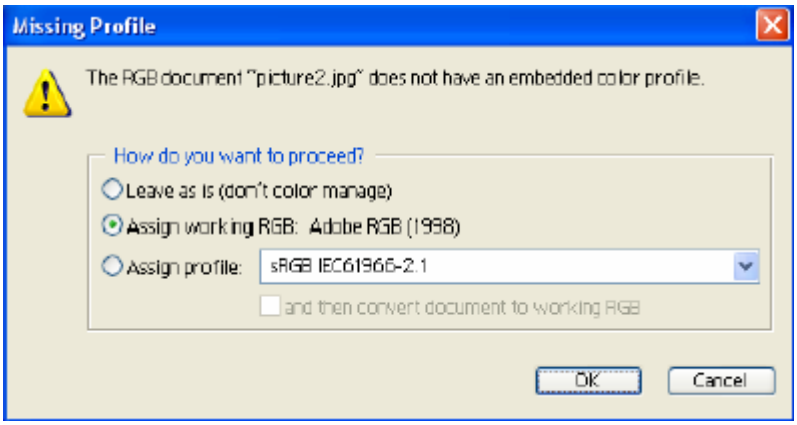
2. Open the photo you want to print. You may see one of the message shown below:

   Note: *The message you see will depend on your workflow.*

   a. If you see **Embedded Profile Mismatch**, select **Use the embedded profile** (instead of the **working space**) option and click **OK**. It is generally best to use the embedded profile.



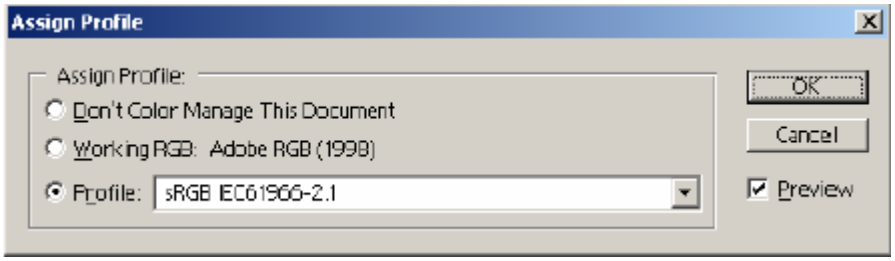
b. If you see the **Missing Profile** message shown below, select **Assign working RGB**: **Adobe RGB (1998)** and click **OK**.



3. When your image appears, evaluate the color balance and contrast as displayed on your monitor. If they need improvement:

   a. Select **Image > Mode > Assign Profile**.
   b. Click the **Preview** box so you can see the effects of your profile choice on the screen.
   c. Click **OK** to accept your changes, or **Cancel** to exit.

Your monitor should be calibrated regularly to maintain color accuracy.



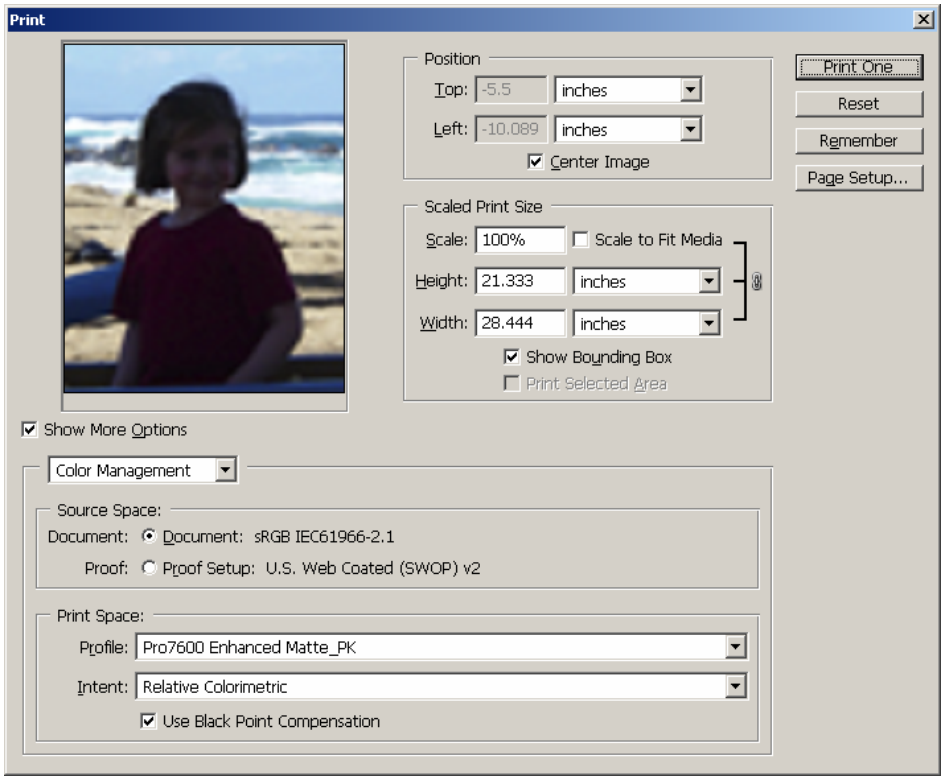
Note: *Assigning a profile to the image doesn't alter the image data, only the interpretation of the data by your software and how it appears on your monitor and in a printout. This is the best way to improve the color balance and contrast in your image.*

Setting Page Setup and Print Setting

1. Select **File > Page Setup**. Click the **Printer** button. Make sure the correct printer is selected, then click **OK**.

2. Select the size of the paper you loaded as the **Size** setting, select the source and your image orientation. Click **OK** to continue.

3. Select **File > Print with Preview**. Click **Show More Options**, then select **Color Management**.



4. **Print Space** selections.

    a. **Profile:** select a profile for your printer and the paper you'll use for the print.

    b. **Intent:** Select **Relative Colorimetric** for images within the gamut of the printer. For images outside of the printer's gamut select **Perceptual**.

5. Select the **Use Black Point Compensation** checkbox. Click the **Print** button.

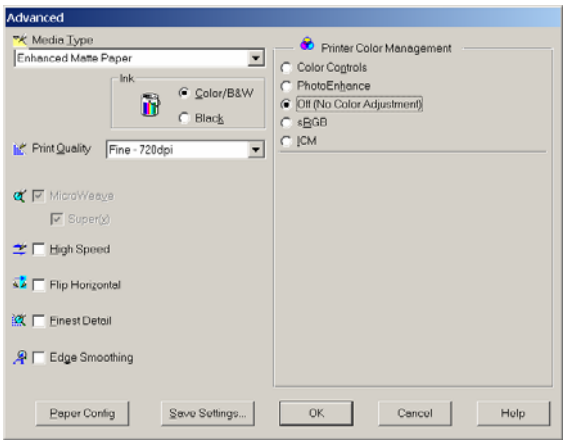
6. Select your printer from the **Printer** menu.

    Note: *Always select the exact same setting as the **Printer** option in the **Print window**. If the settings are different you may get unexpected results.*

7. Make sure your printer is selected, and click the **Properties** button.

8. Select **Custom** then click the **Advanced** button. Select the **Media Type setting** for the paper you'll use for the print, then select the correct resolution setting.

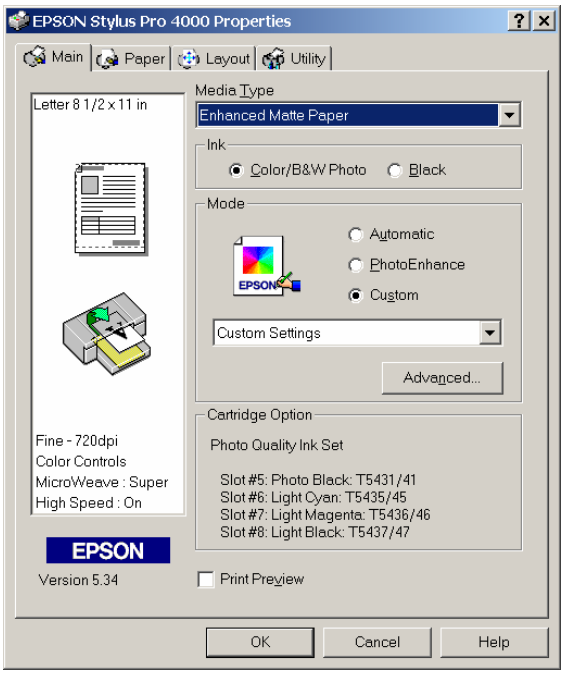
9. Turn **off** the **High Speed** option. Click **No Color Adjustment** under **Color Management**.



Note: *Make sure that you select* ***No Color Adjustment****. If you don't, the printer driver will apply additional correction to the image data, producing inaccurate results*

10. Click **OK** to exit the **Advanced** menu.

11. On the **Main** menu **Uncheck Print Preview**.



12. Click **OK** to exit **Properties.**

13. On the **Print** screen click **OK** to print your document.

.