# i1PROFILER RGB PRINTER: EPSON

## INTRODUCTION

This document will explain and walk you through the process to create an RGB printer profile for your Epson printer using i1Profiler in Basic mode. i1Profiler makes the process of printing the ICC profiling target and creating the custom printer profile easy to do.

To print the target, you must send RGB data to the printer with no conversions.

## PRINTING THE TARGET AND CREATING A PROFILE

1. From the i1Profiler main screen, set the User Mode to Basic by clicking the **Basic** radio button.
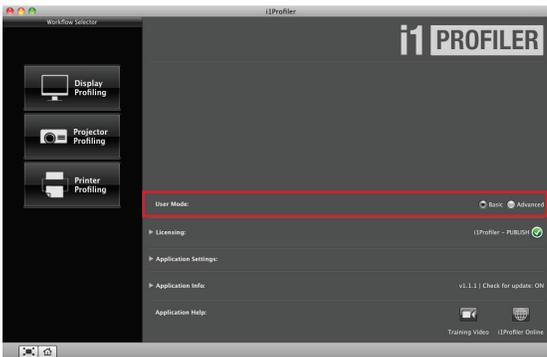


2. Under the "Workflow Selector" in the left pane, click the **Printer Profiling** icon.



3. Click the "Select printer" pull-down and choose the printer you wish to profile.
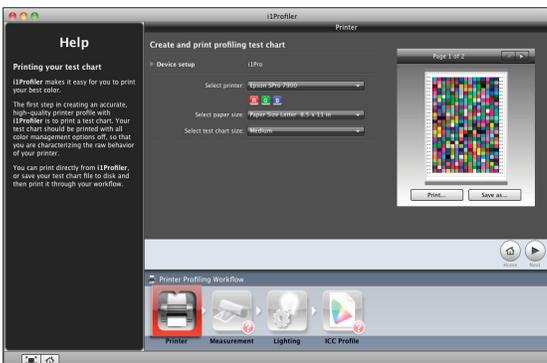


4. Click the "Select paper size" pull-down and select the paper size that is loaded in your printer.

5. Under the "Select test chart size" pull-down, you will see three options: **Small**, **Medium** and **Large**. In general, the larger the test chart, the longer it will take to read the patches, but the more accurate the profile will be.

6. Once you have finished generating your profiling target from i1Profiler, you are ready to print. There are two options. You can either click the **Print**... button to print from i1Profiler, or you can click the **Save as**... button to print from another application.

7. Next you must change the settings in your Epson print driver. The following settings will affect your print color and must be set to the same settings that you will use when applying the profile later.
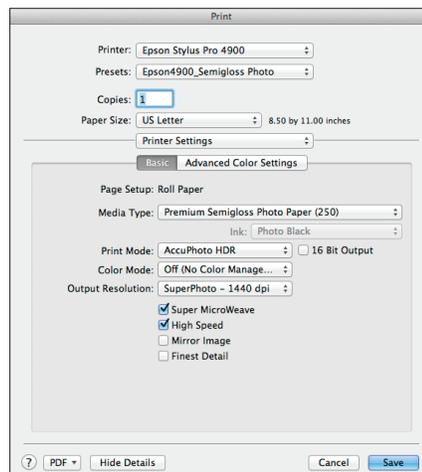


- Media Type: The type of media you select will determine the amount of ink that is laid down. To determine which to select, start by choosing a media name that is similar to the type of paper that is loaded in the printer.

- Print Mode: Choose either **Color print** or **Black and white print**.

- Color Mode: Set this to **Off (No Color Management)**.

**1**

- Output Resolution: Select the same output resolution you will use in production.

- Super MicroWeave, High Speed, Flip Horizontal, and Finest Detail: If you check any of these boxes, you must mark them later when you use your profile.

- Under the "Advanced Color Settings" tab, there should be text: **Epson Driver Color Management is Off**.

8. If you save these settings as a preset, you will be able to quickly use them when printing from your applications. To do this:

   - Click the "Presets" pull-down and select **Save As....**

   - Give your preset a meaningful name that includes the printer, paper type, and quality.

9. After your target has printed, either click the **Next** button, or click the **Measurement** button in the Printer Profiling Workflow to continue.



10. You will be prompted to calibrate your device. Once your device is ready, begin measuring your test chart.
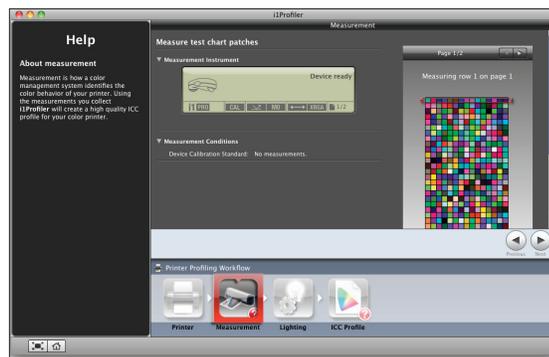


11. After your test chart has been measured, click the **Lighting** button under Printer Profiling Workflow to advance.

12. In the "Lighting" window, you can select the ambient light under which your prints will be viewed.

### Reference

*The graphic arts standard for viewing prints is D50 (5000K). If you are creating prints for a very specific lighting condition where the prints will be viewed under, such as Fluorescent lighting, you can select that lighting condition here and the profile will adjust for that specific color temperature.*

The majority of the time you will want to select the standard **D50**.

13. Select the ICC Profile from the "Printer Profiling Workflow" to create your profile.

14. Give your profile a meaningful name. This should include the printer name, the paper type, and any additional settings that you used in the print driver.

### Reference

*On a Mac there are two locations you can save a profile: on the User level if you don't want anyone else to have access to it, or on a System level if you wish to have this profile available to any user on the computer. Once you select one of these choices, the profile will automatically be placed in your profiles list in your desktop publishing applications. You also have a Hot Folder option that will allow you to save the profile in an additional location. This can be useful if you want to share the profile with others using the printer, or want easy access for e-mail or posting on a server.*

NEED TO KNOW

15. After giving your profile a name and selecting the distribution level, click the **Create and save profile** button.



16. After your profile has been created, you will see a 3D Lab plot of your profile. Check it for sharp spike, holes, and other imperfections that could represent a poor profile.
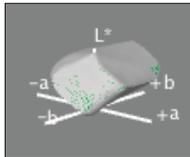


## USING YOUR NEW PROFILE

Once you have printed the target and created a new profile, you can use it to print from Adobe® Photoshop®, or another design application.

### How to Print From Photoshop

If you print from Photoshop, follow these steps to disable color management in the Epson driver. When using your profile, be sure to use the same printer driver settings as when you originally printed the profiling target.

1. In the Photoshop "Print" dialog, select **Photoshop Manages Colors,** your new printer profile, and a rendering intent.
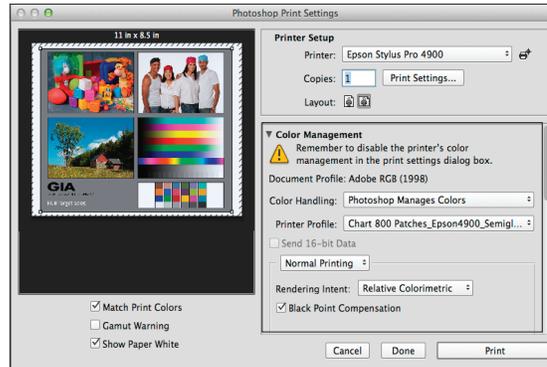


2. Click the **Print Settings**... button in Photoshop's "Print" window to change the Epson Print Driver Settings. Use your saved presets or the exact same settings you set in the "Printer Settings" window.

3. From the "Layout" pull-down, select **Color Matching**. Make sure that "Epson Color Controls" is selected. This option may have been grayed out when printing the profiling target.
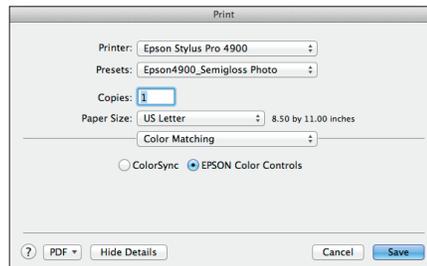


4. Once you have matched your print settings, click **Save** from the Print Driver, then **Print** from Photoshop.

### How to Print From Other Design Applications

Unlike Photoshop, applications such as Adobe InDesign® will not automatically disable color management in the "Color Matching" window in the Epson driver. When printing from these applications utilizing your new custom profile, follow these instructions:

1. Open your file and select **File > Print**.

2. From the Color Management tab, set "Color Handling" to **Let application determine colors.**

Set the "Printer Profile" to your new custom built profile.

3. On the bottom of the dialog box, select **Setup...** in Adobe Illustrator and **Printer...** in Adobe InDesign to set up the print driver.

4. Select the "Layout" menu and choose **Color Matching**. Make sure **Epson Controls Colors** is selected.

5. If you saved your presets when you profiled your printer, use the "Presets" pull-down and select the saved presets for your printer, media type, and print quality.

6. If you did not save your presets or you want to make sure your settings are the same as before, under **Printer Settings** use the same Paper Type and Quality you selected when you made the profile. Make sure that "Color Mode" is set to **Off (No Color Management)**.

7. When you have made all changes in the application color management window and the printer driver, print your document.

## FOR MORE INFORMATION

X-Rite Color Services offers a variety of classroom, on-site, seminar and online training opportunities. These courses are highly interactive and taught using the latest equipment and software.

If you would like to learn more about color management or the advanced features of i1Profiler, visit our website at http://www.xrite.com/training to view our available courses.
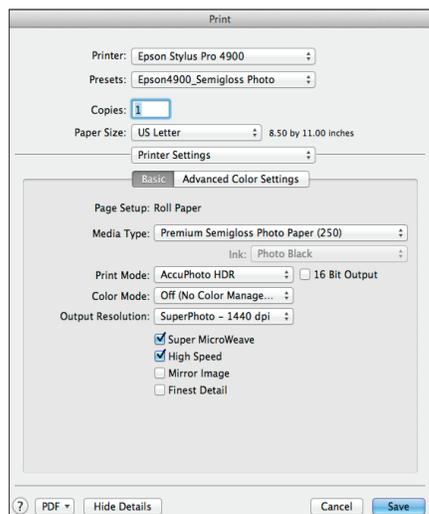


For information on a variety classroom, custom on-site, and highly interactive on-line training options, see X-Rite's Color Services web site at http://www.xrite.com/top_services.aspx

Contact us at:

Email: training@xrite.com

Phone: 800.248.9748 x2685

Classroom Training   On-Site Training   eLearning Training