



**oXYgen Smart Tips**

# **Opening Scanned Images with Photoshop Software**





## oXYgen Smart Tips

oXYgen Smart Tips are designed to aid you in using the oXYgen application. Whether you're working on a PC or a Macintosh platform, Smart Tips address specific tasks in your workflow. Each Smart Tip points out straightforward ways for you to produce the highest quality results with Creo scanners and oXYgen.



# Opening Scanned Images with Photoshop Software

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## Introduction

It is important to the quality of your work that images you view in oXYgen appear the same when you use Adobe® Photoshop® software. To ensure this, it is recommended that you define the way the Photoshop software displays images to match the way they appear in oXYgen. This oXYgen Smart Tip details the procedure for you.

Please proceed to *Opening Scanned Images in Photoshop 5.0* on page 3 or *Opening Scanned Images in Photoshop 6.0 and 7.0* on page 7, according to the Photoshop software you are using.

## Opening Scanned Images in Photoshop 5.0

oXYgen takes full advantage of the operating system's color management mechanisms. As a result, the way images are displayed in oXYgen is equivalent to the printed output. Therefore, it is important that the way the image appears when you use Photoshop software is the same as it appears in oXYgen.

Photoshop 5.0 handles RGB images and CMYK images differently.



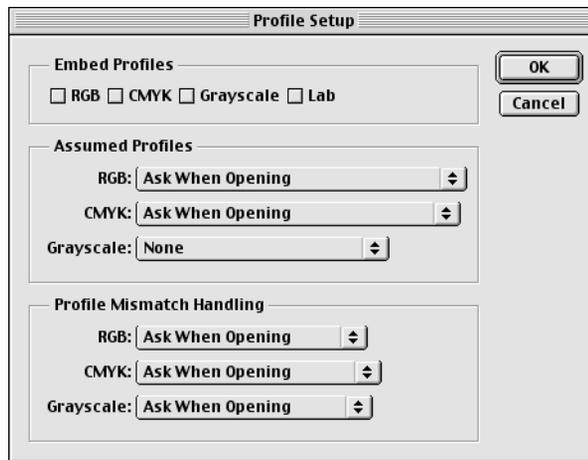
For more information about ICC color management, see the Web-based training module *Eversmart ICC Workflows* at [www.creo.com](http://www.creo.com) (in **Products>Scanning Systems>Color Scanners>Scanning Applications and accessories>WBT**).

## Setting Color Management Policies

Color management policies are set in the Profile Setup dialog box.

### To set the policies:

1. Select **File>Color Settings>Profile Setup** to open the Profile Setup dialog box.



2. In the **Assumed Profiles** section, select **Ask When Opening** in the **RGB** and the **CMYK** lists. With this option selected, you are informed of the profile that was embedded during scanning and of any mismatch between the embedded profile and a selected profile in Photoshop 5.0.

## RGB Images

Photoshop 5.0 supports only RGB color spaces. Therefore, when you want to work with scanned images in Photoshop 5.0, scan the images to a known color space. In cases in which the image has a destination other than Photoshop 5.0, but you still want to open the image in Photoshop 5.0 without the colors being altered, you should use the procedures outlined in this section.

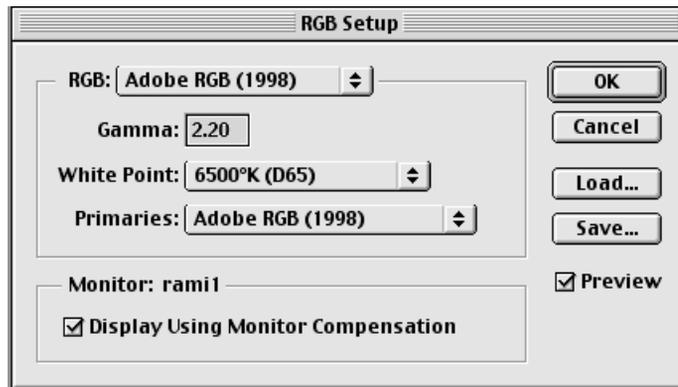
### Initial Setup

The initial setup is the general setup of the RGB color space.

#### To set up the RGB color space:

1. Select **File>Color Settings>RGB Setup**.

The RGB Setup dialog box opens.



2. Select an RGB working space.



**Note:** If you do not have a recommended color space, you should select **Adobe RGB**.

3. Select the **Display Using Monitor Compensation** check box so that Photoshop 5.0 displays images using the active monitor profile.

## Opening an RGB File

The method for opening an RGB file depends upon the type of profile embedded in the scanned image file.

### Embedded Scanner RGB profile

When Photoshop software opens a scanner RGB file the embedded profile is discarded. To maintain accurate representation of the original colors, you must enable Photoshop 5.0 to convert the image to Photoshop 5.0's RGB working space (as defined in the initial setup) or to Lab.

### To retain original colors:

- In the **Input Conversion** dialog box, select:
  - a. **To: RGB Color** to go to **RGB Color Space**
  - b. **To: Lab** to go to **Lab space**.



**Note:** When an image file is converted to an RGB working space, some saturated colors may be clipped by Photoshop 5.0.

### Embedded RGB color space profile

- If the embedded profile is the current Photoshop 5.0 RGB working space, select **Don't Convert** in the Input Conversion dialog box.
- If the embedded profile is not the current Photoshop 5.0 RGB working space, select **Convert**.

### Printed RGB color space profile

- In the Input Conversion dialog box, select **Don't Convert**.

## CMYK Images

### Initial Setup

The initial setup is the general setup of the CMYK color space.

#### To set up the CMYK color space:

1. Select **File>Color Settings>CMYK Setup**.



2. Select the following options in the CMYK Setup dialog box:

- **CMYK Model: ICC**
- **Profile:** the same profile that you used when scanning
- **Engine: Apple ColorSync**

**Note:** Do not select the **Black Point Compensation** check box.



### Opening a CMYK File

- If the embedded CMYK profile is the same as the current Photoshop software CMYK profile, Photoshop 5.0 opens the file automatically.
- If the embedded profile is different than the current Photoshop software CMYK profile, the Embedded Profile Mismatch dialog box appears. Select the option that best suits your requirements or change the profile in the CMYK Setup dialog box.

## Opening Scanned Images in Photoshop 6.0 and 7.0

oXYgen takes full advantage of the operating system's color management mechanisms. As a result, the way images are displayed in oXYgen is equivalent to the printed output. Therefore, it is important that the way the image appears in the Photoshop software is the same as it appears in oXYgen.



**Note:** The color management settings in Photoshop 6.0 and 7.0 differ (in some cases, the image display also differs slightly).



Settings files for Mac or PC can be downloaded at [www.creo.com](http://www.creo.com) (see **Products>Scanning Systems>Color Scanners>Scanner Applications and accessories>Smart Tips**).

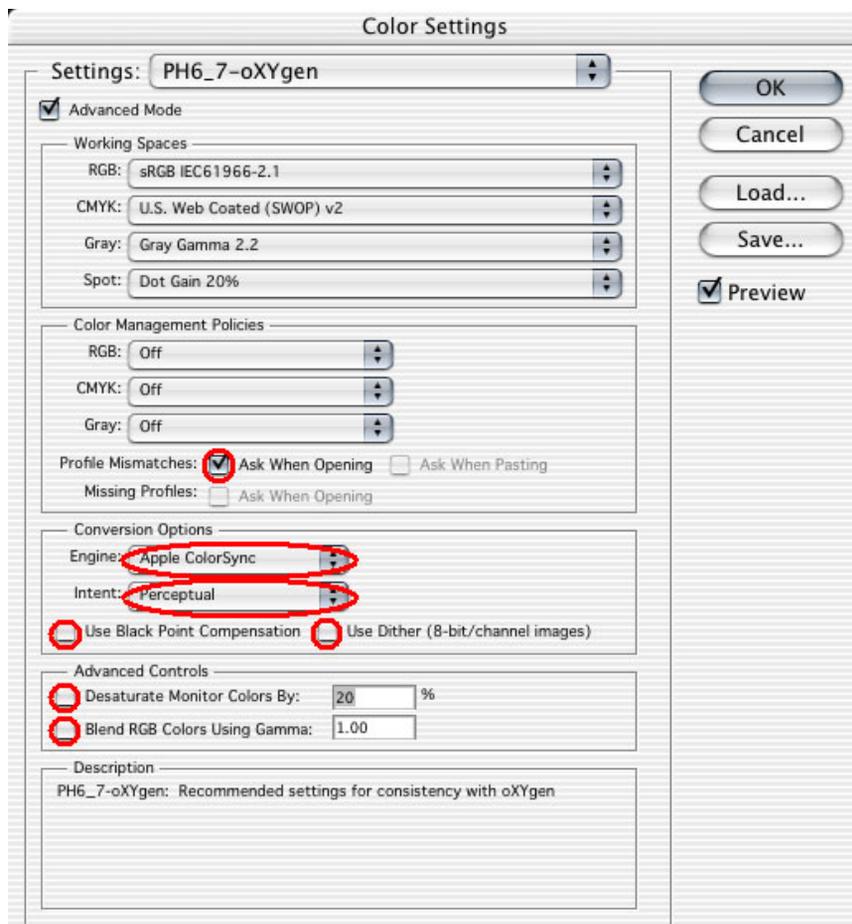
For more information about ICC color management, see the Web-based training module *Eversmart ICC Workflows* at [www.creo.com](http://www.creo.com) (see **Products>Scanning Systems>Color Scanners>Scanner Applications and accessories>WBT**).

## Defining Color Management Policies

In the Color Settings dialog box, you define the color management policies that provide the best match between oXYgen and Photoshop 6.0 and 7.0.

### To open the Color Settings dialog box:

- On a PC, select **Edit>Color Settings** or use the shortcut SHIFT+CTRL+K.
- In Mac OS 9, select **Edit>Color Settings** or use the shortcut SHIFT+COMMAND+K.
- In Mac OS X, select **Photoshop>Color Settings** or use the shortcut SHIFT+COMMAND+K.



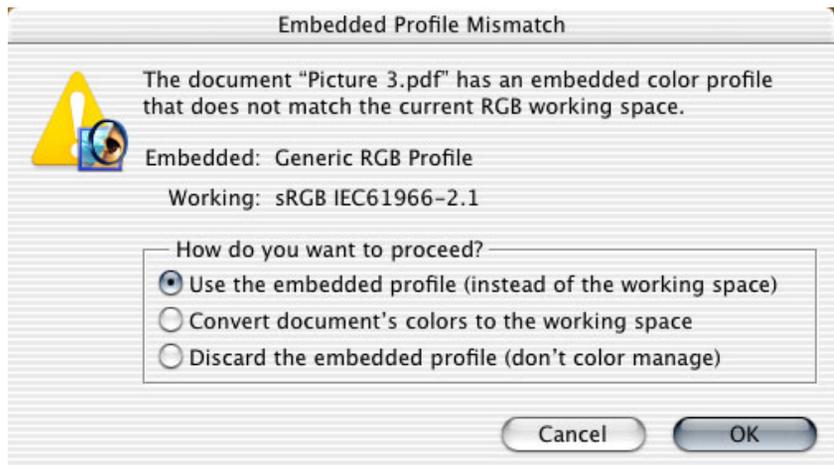
Color Settings window, with important settings for manual loading circled (as seen in Photoshop 7.0 for OS X)

## Preserving an Embedded Profile



**Note:** If you cannot use the downloaded settings, use the settings shown in the Color Settings window in this section.

It is recommended that you embed a profile in the final scan. When the **Profiles Mismatches: Ask When Opening** check box is selected in the Color Settings dialog box, and there is a mismatch between the embedded profile and the selected color working space in Photoshop 6.0 and 7.0, the Embedded Profile Mismatch dialog box appears.



Embedded Profile Mismatch window (as seen in Photoshop 7.0 for OS X)

For a correct color management process, you must select **Use the embedded profile** option.

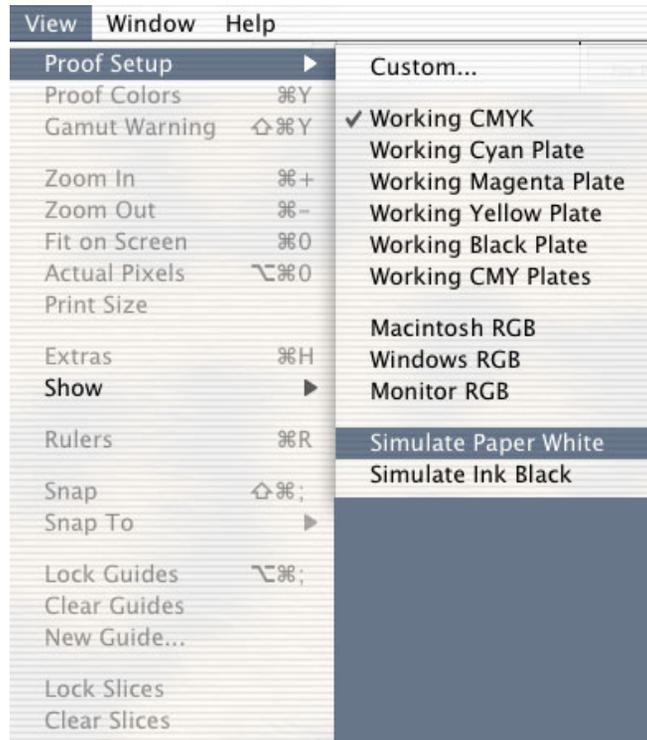
## Proof Simulation

With Photoshop software, you can select different settings for proof simulation.

When you select the **Absolute Rendering Intent** option as the **Display Method** in the ICC Flow Setup window in oXYgen, it is important that you use the appropriate settings in Photoshop 6.0 and 7.0 for a good simulation of the printed proof.

**To produce a good simulation of a printed proof:**

- From the **View** menu, select **Proof Settings>Simulate Paper White**.



View>Proof Setup>Simulate White Paper, as seen in Photoshop 7.0 for OS X

This simulation resembles the results obtained when you select **Absolute Rendering Intent** for viewing on screen.

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