

Overview

The Output Preview feature of Painter 5 uses the Kodak Color Management System to provide on-screen previews of how your artwork will print on a specific device. In addition to providing real time previews of how your image will look, Painter can also perform color separations of your image when saved out as an EPS file.

To activate Output Preview, select Canvas/Output Preview/Kodak Color Correction from the menu bar.

Installing

In order for the Kodak Output Preview system to work, the following files must be installed in your system. The Painter Installer automatically copies these files to your computer during installation.

Macintosh

System Folder:Extensions

- KODAK PRECISION CP1
- KODAK PRECISION ProfileAPI

System Folder:Startup Items

- KODAK PRECISION Startup

System Folder:CMSCP

- CP01

Because several other programs, like Adobe Photoshop and PageMaker also use the Kodak Color Management system you may find additional Kodak files in these locations.

If you have problems using Output Preview, for example, receive error messages similar to "Can not find Color Processor" it is likely that another application that was installed after Painter removed a critical file, or replaced a file with an older version. To fix this problem, you may either run the Painter Installer again, selecting Custom Install and choosing the Kodak Color Management System. Or, you can copy the files from the Painter CD-ROM to the proper location of your system folder. You will find all the necessary files in the Kodak folder.

Selecting Profiles

Output Preview works by using profiles that describe the characteristics of different color devices. From the Output Preview dialog, you select ICC device profiles that describe your system.



Fractal Design Painter

Windows

Windows directory

- KPCP32.DLL

- KPSYS32.DLL

- MSVCRT40.DLL

- SPROF32.DLL

Under almost all circumstances you will only select Monitor and Output device profiles. The Input Device should be set to None. When images are imported or acquired from a device, like a scanner or a Photo CD, the color is almost always adjusted for you automatically. The only time to select a device for Input Profile is when the acquired image has not been adjusted and is in a raw data format. As a rule of thumb, if your original image looks "normal" set Input Profile to None. If your original image looks "washed out" or "tinted", then you should select an Input Profile that matches the source.

The Painter Installer copies about 15 of the most popular profiles during an Easy (Typical) install, and when you select Kodak Color Management from the Custom Install options. Additional profiles are available on the CD-ROM. To add ICC device profiles to your system, either run the Painter Installer, selecting Custom Install and choosing the Additional ICC profiles option, or copy the profiles from the ICC Profiles directory of the CD-ROM to machine. Profiles should be placed in the folder:

Macintosh

System Folder:Preferences:Colorsync™ Profiles

Windows 95

\\Windows\\Color

Windows NT

\\winnt\\system32\\Colors

For a complete description of available profiles, refer to About ICC Profiles in the ICC Profiles directory of the CD-ROM.

If a profile for your device is not on the Painter CD-ROM, or installed on your computer, contact the device manufacturer. The company that builds the device should provide ICC profiles.

Photoshop Preview

As part of the Painter installation, a special profile was installed on your system. This profile allows Painter to preview how Photoshop will perform a CMYK conversion. This profile was developed to allow Painter artists to create within Painter and continue to use Photoshop as their primary separation program.

When you select "Photoshop RGB to CMYK" from the Output Profile popup list, Painter provides a preview of the default Photoshop CMYK conversion. Because the process of

converting from RGB to CMYK involves many variables, we have made several assumptions about your Photoshop Color Settings in the development of this profile.

When your Photoshop Color Settings (File Menu) are set to the following values, the Output Preview is extremely accurate. If you have adjusted your settings, or use custom tables your results may vary.

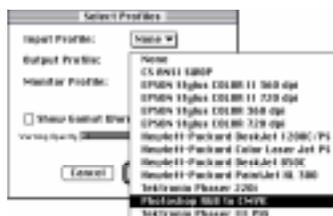
- Monitor Setup
 - Gamma: 1.8
 - White Point: 5000 K
 - Phosphors: Trinitron
 - Ambient Light: Medium
- Printing Inks Setup
 - Ink colors: SWOP (Coated)
 - Dot Gain: 20%
 - Gray Balance: 1,1,1,1
- Separation Setup
 - Type: GCR
 - Black Generation: Medium
 - Black Ink Limit: 100%
 - Total Ink Limit: 300%
 - UCA Amount: 0%
- Separation Tables
 - To CMYK: Use Separation Setup
 - From CMYK: Use Printing Inks Setup

In Photoshop version 4.0, if you have ColorSync installed, Photoshop can build a separation table using a device ICC profile. If you have created your Photoshop separation tables this way, simply select the same device within Painter's Output Preview dialog. Your Painter preview and Photoshop separation will match.

Hexachrome Preview

As part of the Painter installation, two special profiles were installed. These Pantone® Hexachrome™ profiles allow Painter to provide high-fidelity (HiFi) color separations and on-screen preview. Pantone Hexachrome is a special 6-color printing process. It allows for much greater color reproduction than standard CMYK printing.

To activate Hexachrome Output Preview, select Pantone Hexachrome from the Output Profile popup in the Output Preview dialog. You also need to select a Monitor Profile that matches your display. Select "Generic P22 1.8 Gamma Monitor" if your display is not listed.



When Output Preview is on, Painter provides an on-screen preview of how your artwork will look if printed with Pantone Hexachrome. To perform the 6-color separation, select File/Save As and choose EPS from the Type popup. Painter will write out the 6-plate separation.

Note: Output Preview must be ON to perform the 6-color separation. If Output Preview is OFF, Painter will perform its default separation.

Printing & Separating

When printing your document, selecting "Use Output Preview" on the Print dialog will allow Painter to use the Output Preview device settings to separate your document. With "Use Output Preview" disabled on the Print dialog, Painter will use its internal color separation tables for printing.

Some profiles, like Hexachrome, that don't support a standard CMYK color space, can not be printed to a standard printer. In this case, the Use Output Preview checkbox is disabled.

When saving your document as an EPS file, if Output Preview is ON, your document will be separated using the Output Preview settings. If Output Preview is OFF, Painter will use internal tables (ColorStudio tables) for performing the separation.

General

- You should always choose a Monitor profile. Select "Generic P22 1.8 Gamma Monitor" if your display is not listed.
- At least two profiles must be active for Output Preview to work -- for example a Monitor profile and a Output Profile.
- Output Preview can be used for printing. Select Use Output Preview on the Print dialog.
- On the Print dialog, if the Use Output Preview checkbox is disabled it means either no profiles are selected, or the selected profiles do not support a standard CMYK color space.
- Output Preview can be used for creating separations. Turn Output Preview ON and select File/Save As and choose EPS from the Type popup.
- If Output Preview is OFF when you save an EPS file, Painter uses internal tables for the separation.