B Print options

The print options provide you access to all the special features of the DocuColor 2006. Print options can be specified in several places—in Printer Setup, from the printing application, from ColorWise Pro Tools, and from Fiery WebSpooler.

The table in this chapter briefly describes each print option, gives its default setting, and provides information on any constraints or requirements in effect.

Where to set print options

- During Setup

  Some settings are specified during Setup. For information on the current default printer settings, check with the system administrator or the printer operator.

- From applications

  With the Adobe PostScript and PCL printer drivers, you can specify job settings when you print a job. Refer to the chapter *Printing from the Windows workstations* or *Printing from the Mac OS workstations* for more information.

- From ColorWise Pro Tools

  Refer to the chapter *Using ColorWise Pro Tools* to set the default RGB Source Profile, CMYK Simulation Profile, Output Profile, CMYK Simulation Method, and RGB Separation settings.

- Overrides from the Fiery WebSpooler

  To change job settings from Fiery WebSpooler, double-click a job to display the Override Print Settings dialog box. For more information, refer to the chapter *Using Fiery WebSpooler*.

Print option override hierarchy

Print options can be overridden in the following cases:

- Application settings will override the Printer Setup and ColorWise Pro Tools settings

- Settings made from the Fiery WebSpooler will override user printer driver settings

Default settings

In the following table, underlined settings in the **Option and settings** column indicate default printer driver settings (PPD/PDD defaults). If you do not use the printer driver interface to configure a particular option, the DocuColor 2006 prints the job with the default setting.

For options that can be configured during Setup from the Control Panel, WebSetup, or ColorWise Pro Tools selecting **Printer default** results in a print job that uses the Setup settings. For options that cannot be configured during Setup, the DocuColor 2006 prints the job with a pre-configured printer default setting. Some options are not supported by various operating system. For more information, refer to the **Requirements, constraints, and information** column.

To review the current Printer Setup defaults, print the Configuration page from the Printer Control Panel.

Print options table

Options and settings (Default setting underlined)	Description	Requirements, constraints, and information
(Other) Gamma <u>Printer default</u>/1.0/1.2/1.4/1.6/ 1.8/2.0/2.2/2.4/2.6/2.8/3.0	Specify a source gamma value for printing RGB images, objects, and text.	Setting this option to **Printer default** produces the same result as the 2.2 setting. To enable this option, RGB Source Profile must be set to **Other**. For more information, refer to *Using ColorWise Pro Tools*. This option is not available for PCL printing.
(Other) Phosphors <u>Printer default</u>/Hitachi EBU/ Hitachi-Ikegami/NTSC/ Radius Pivot/SMPTE/Trinitron	Specify a source phosphors value for printing RGB images, objects, and text.	Setting this option to **Printer default** produces the same result as the **SMPTE** setting. To enable this option, RGB Source Profile must be set to **Other**. For more information, refer to *Using ColorWise Pro Tools*. This option is not available for PCL printing
(Other) White Point <u>Printer default</u>/5000 K (D50)/ 5500 K/6500 K (D65)/7500 K/9300 K	Specify a source white point value for printing RGB images, objects, and text	Setting this option to **Printer default** produces the same result as the **5000 K (D50)** setting. To enable this option, RGB Source Profile must be set to **Other**. For more information, refer to *Using ColorWise Pro Tools*. This option is not available for PCL printing

Black Overprint Printer default/Off/On	Select **Off** to print black text with knockouts. Select **On** to overprint black text.	The **Printer default** setting reflects the setting specified in Printer Setup. For Windows, select **Expert Color** as the Color Mode to access this option. If this option is set to **On**, the Combine Separations option must be set to **Off**. Setting this option to **On** automatically sets the Pure Black Text/Graphics option to **On**. More information follows this table. This option is not available for PCL printing.
Brightness Printer default/85% Lightest/ 90% Lighter/95% Light/ 100% Normal/105% Dark/ 110% Darker/115% Darkest	Select **85%** for a substantially lighter image, **115%** for a substantially darker image, or use one of the settings in between.	Setting this option to **Printer default** produces the same result as the **100% Normal** setting. This option is not available for PCL printing.
CMYK Simulation Method Quick/Full	Select **Quick** to utilize one-dimensional transfer curves to adjust density output of individual color channels. Select **Full** to utilize four-dimensional transfer curves, which adjust for hue as well as density of individual color channels.	For Windows, select **Expert Color** as the Color Mode to access this option. For more information, refer to *Using ColorWise Pro Tools*. This option is not available for PCL printing.

CMYK Simulation Profile SWOP-Coated/ DIC/Euroscale/Simulation-1/ Simulation-2/Simulation-3/ Simulation-4/Simulation-5/ Simulation-6/Simulation-7/ Simulation-8/Simulation-9/ Simulation-10/<u>None</u>	Specify the simulation goal to be used for the current print job.	For Windows, select **Expert Color** as the Color Mode to access this option. More information follows this table. This option is not available for PCL printing.
Electronic Collation <u>Off</u>/On	Specify how to output multiple-page/multiple-copy jobs.	More information follows this table. This option is not available for PCL printing.
Color Mode <u>CMYK</u>/Grayscale (from the Mac OS driver) OR <u>Standard Color</u>/Expert Color/Grayscale (from the Windows drivers)	Specify the color mode for the current print job. Select **CMYK**, **Standard Color**, or **Expert Color** for a full-color document. Select **Grayscale** for a grayscale or black-and-white document.	For Windows, you must select **Expert Color** to set other color print options, including Pure Black Text/ Graphics. This option is not available for PCL printing.
Copies <u>1</u>-999	Specify the number of copies of the job to print.	Do not enter a value greater than **999**.
Duplex <u>Off</u>/Long Edge Binding/Short Edge Binding	Specify whether the job should print one-sided or two-sided (duplex), by specifying the orientation of printed images.	The Duplex option cannot be selected with the 12x18 Paper Size or the Heavyweight Media Type. Face-Down Printing must be set to **On** and Page Order set to **Forward** for all two-sided jobs. More information follows this table.
Layout <u>1-up</u> through 16-up	Select the Layout print bar and the desired orientation. Select the desired Layout setting to place multiple pages on a single sheet of paper.	

Media Type (Paper Type) Plain Paper /Transparency/ Cover/Glossy/Coated/Labels/ Heavyweight/Card/Envelope/ Side 2 Plain Paper/Side 2 Cover/Side 2 Coated/Side 2 Glossy/Side 2 Heavyweight	Select Transparency if you will be printing on transparencies. Select Transparency Interleave to print multiple transparency sheets with a blank, plain paper sheet inserted between each transparency.	PCL supports only Normal and Transparency.
Mirror On/Off	Select the Layout print bar and the desired orientation. Select the Mirror check box to print a backward or mirror image of the page or document.	
Negative On/Off	Select the Layout print bar and the Negative check box to reverse colors in printing.	Not available in Windows NT 4.0
Orientation Portrait/Landscape	Select the Layout print bar and specify whether the job should be printed long-edge feed (portrait) or short-edge feed (landscape).	The Printer default setting reflects the setting specified in Printer Setup
Output Top Output Tray (Face-Down) Side Output Tray (Face-Up)	Select **Off** to print your document on the top of the paper. Select **On** to print your document on the bottom of the paper (i.e., the document will output from the copier with the text facing down).	The Printer default setting reflects the setting specified in Printer Setup. The Media Type option must be set to **Plain Paper** or **Heavyweight** if Face-Down Printing is set to **On**. This option is not available for PCL printing.
Output Profile Printer default/ Output-1/Output-2/ Output-3/Output-4/Output-5/ Output-6/Output-7/Output-8/ Output-9/Output-10	Specify the output profile to be used for the current print job.	The **Printer default** setting reflects the setting specified in ColorWise Pro Tools. For Windows, select **Expert Color** as the Color Mode to access this option. More information follows this table. This option is not available for PCL printing.

Page Order Forward/Reverse	Select **Forward** to print the pages of your job from first to last. Select **Reverse** to print the pages of your job from last to first.	This option is not available for PCL printing. *Note: If you set Page Order to **Reverse** and print a job with more than 1000 pages, or a job that is too large to be saved to the printer memory and disk (based on currently available space), then the job may print in sections that have to be manually rearranged after printing. For example, if you print a 1500-page document in reverse order, the printer might divide the job into two portions, first printing page 1000 to page 1, and then page 1500 to page 1001.*
Page Range All/From/To	Specify which pages of the document to print.	This option is available only as an override from Fiery WebSpooler. More information follows this table.
Paper Size Standard sizes include: 11x17-Tabloid/ 12x18-Tabloid extra 13x18-inch/ A3/A4/ A4-SEF/A5/ B4/B5/ Legal/Letter/Letter-SEF/ A3 Over/ Executive/DL/ Monarch/Comm10 Custom page 1/ Custom page 2/ Custom page 3	Specify the size of the paper on which to print the document.	For a complete list of supported media, refer to the *Recommended Materials List* for this product.
Paper Source AutoSelect/Tray 1/ Tray 2/ Tray 3/ Bypass Tray/ A3 OversizeTray/ Transparency Tray	Specify the paper tray to use for your job.	The **AutoSelect** setting automatically selects the tray containing the paper size specified for the job.

Pure Black Text/Graphics Off/<u>On</u>	Select **Off** to print black text and graphics as a four color black using C, M, Y, and K dry ink, and to use normal PostScript rendering. Select **On** to print black text and graphics as a one color black, using 100% black dry ink only.	For Windows, select **Expert Color** as the Color Mode to access this option. This option is automatically set to **On** if the Black Overprint option is set to **On**. This option is not available for PCL printing.
Rendering Style <u>Photographic</u>/ Presentation/ Relative Colorimetric/ Absolute Colorimetric	Specify a default color rendering dictionary (CRD) to be used when you print RGB images, objects, and text.	For Windows, select **Expert Color** as the Color Mode to access this option. More information follows this table. This option is not available for PCL printing.
RGB Separation <u>Output</u>/Simulation	Select **Output** for RGB jobs which you are printing to the final output device. Select **Simulation** for RGB jobs for which you want to simulate an output device that is not the device to which you are printing.	For Windows, select **Expert Color** as the Color Mode to access this option. This option is not available for PCL printing.
RGB Source Profile EFIRGB/sRGB (PC)/ Apple Standard/ Other/Source-1/ Source-2/Source-3/ Source-4/Source-5/ Source-6/Source-7/ Source-8/Source-9/ Source-10/<u>None</u>	Specify a source color space definition for printing RGB images, objects, and text.	For Windows, select **Expert Color** as the Color Mode to access this option. More information follows this table. This option is not available for PCL printing.
Scale 25 through 400%	Select the Layout print bar and specify whether the job should be reduced or enlarged when printed.	Printer default is 100%.

| Spot Color Matching Off/<u>On</u> | Select **Off** to print specified PANTONE colors in your job using the current CMYK Simulation and CMYK Simulation Method.

Select **On** to activate the PANTONE Lookup Table. The printer uses specified PANTONE colors in your job by matching the CMYK print blend to the same color from the PANTONE library. | For Windows, select **Expert Color** as the Color Mode to access this option.

This option is not available for PCL printing. |

More about print options

The following sections provide additional information about print options. See the table above for information on the settings, requirements, and constraints in effect for these options.

Black Overprint

When printing black text in combination with a color background or graphics, the text can be printed in one of two ways: either as part of the color background, or on top of the color background. Black Overprint allows you to select a specific way to print the black text for such a job.

- **Off**—Prints the black text with knockouts. The DocuColor 2006 first prints the color background with the black text areas *knocked out* (no color is printed in the text areas); the black text is then printed in the knocked out area, filling in the areas not printed in color. The result is a flatter appearance for the black text.

- **On**—Overprint the black text. Used in combination with the Pure Black Text/Graphics option, the DocuColor 2006 first prints the full color background, then lays the black text on top of the color background as 100% K dry ink. The result is a darker and glossier appearance for the black text. Overprinting also minimizes misregistration and 'haloing' problems.

CMYK Simulation Profile

You can use the DocuColor 2006 to proof offset press jobs or to simulate the output of other print devices by specifying settings for two print options: CMYK Simulation Profile and CMYK Simulation Method. These options affect CMYK data only.

CMYK Simulation Profile allows you to change the simulation goal for the current print job. As the job begins processing, the simulation goal selected in CMYK Simulation Profile is applied before printing.

Selecting the Printer default results in the job being printed with the simulation goal currently set on the DocuColor 2006.

When printing simulations on the DocuColor 2006, select the CMYK Simulation Profile setting corresponding to the press standard for which the CMYK data was prepared, or select a custom simulation profile. You can also create, save, and import custom simulation profiles using ColorWise Pro Tools.

- **SWOP-Coated**—Uses the United States press standard.

- **DIC**—Uses the Japanese press standard.

- **Euroscale**—Uses the European press standard.

- **Simulation-1 (2,3,4,5...10)**—Uses a custom simulation goal. Before selecting this setting, you are required to create a new simulation goal with ColorWise Pro Tools and link the new simulation to one of the custom simulation names, e.g., Simulation-1.

- **None**—Uses no simulation goal. Select this setting when the CMYK data for your job has already been separated for your specific printer (for example, when using the Color Management System built into your computer to convert the CMYK data to the color space of the printer).

Use the CMYK Simulation Method print option to specify the quality of simulation desired: Quick or Full.

For more information, refer to the chapter *Using ColorWise Pro Tools*.

Electronic Collation

Use this option to specify sorting options.

- **Off**—Copies of a complete job are output, uncollated into the top tray.

- **On**—Copies of a complete job are collated and output into the top tray.

Custom Output Direction

You can specify whether a custom page size job prints with the short edge first (SEF) or the long edge first (LEF) along the width of the media.

To specify the output direction of a standard page size, use the corresponding page size. Page sizes such as Letter and A4 print with the *long* edge first. Page sizes that have **SEF** as part of their names print with the *short* edge first.
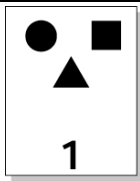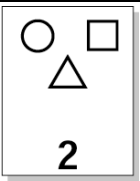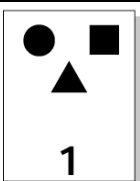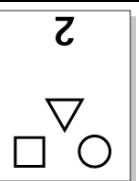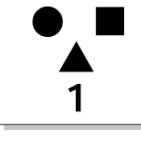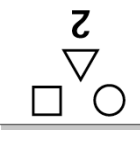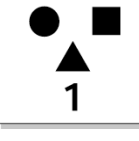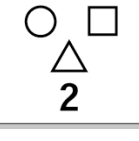
Duplex

If your DocuColor 2006 has a duplexing unit for two-sided printing, you can print with the Duplex Long Edge Binding or Short Edge Binding settings.

To print two-sided pages using a duplexing unit:

1. Select **Print** in your application, and locate the Duplex print option.

    The location of DocuColor 2006 print options varies, depending on the printer driver you are using.

2. Select one of the **Duplex** settings:

    *   **Long Edge Binding**—Prints the top of the long edge side 1 image on the same edge of the page as the top of the side 2 image. For Portrait documents, this creates a book effect. For Landscape documents, this creates a landscape effect.

    *   **Short Edge Binding**—Prints the top of the side 1 short edge image on the opposite edge of the page from the top of the side 2 image. For Portrait documents, this creates a calendar effect. For Landscape documents, this creates a book effect.

3. Set other options and select **OK**.

4. Select **Print**.

5. Print the job.

    The following table shows how the Duplex settings correspond to printed output:

	Long Edge Binding	Short Edge Binding
Portrait		
Landscape		

Output Profile

Output-1 through Output-10—Uses a custom output profile. Before selecting this setting, you are required to download or create the output profile with ColorWise Pro Tools, then link it with one of the custom output profile names, e.g., Output-1.

Page Range

The operator can specify a page range override, but this range applies only to the pages included in the active job. For example, if a user specifies Odd for Page Range in the original job, even if the operator specifies a Page Range override of All, only the odd pages of the original document are printed (*all* the odd pages).

Rendering Style

Use this option to select a default color rendering dictionary (CRD) to be used when you print RGB images, objects, and text.

- **Photographic**—Optimizes the range of colors on the DocuColor 2006 to produce the best results for photographic or bitmapped images.

- **Presentation**—Optimizes the output of pure, saturated colors such as those used in business presentations.

- **Relative Colorimetric**— Provides a close match to the CMYK device being simulated, regardless of the media being used.

- **Absolute Colorimetric**— Provides the closest match to the CMYK device being simulated, including rendering the paper color as the background.

RGB Source Profile

This option is used to specify a source color space for RGB data.

- **EFIRGB**—Optimal source space for printing to the DocuColor 2006. This setting provides consistent output across platforms.

- **sRGB (PC)**—Specifies the source space of a generic Windows computer monitor.

- Apple Standard—Specifies the source space of a Mac OS computer monitor.

- **Other**—Allows you to specify a custom RGB source setting using the (Other) Gamma, (Other) Phosphors, and (Other) White Point print options.

- **Source-1 through Source-10**—Uses a custom source profile. Before selecting this setting, you are required to download the source profile to the printer with ColorWise Pro Tools, then link it with one of the custom source profile names, e.g., Source-1.

For information more information about color management, refer to the chapter *Using ColorWise Pro Tools*.