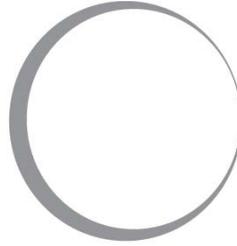


XANTÉ



ILUMINA

**DIGITAL COLOR PRESS
DIGITAL ENVELOPE PRESS
DIGITAL PRODUCTION PRESS**

Printing Guide

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Colophon

This manual was written using Adobe InDesign, Adobe Acrobat, Adobe Photoshop, Adobe Illustrator, and Microsoft Word. The typefaces for the main body of the manual are Times New Roman, Arial, Symbol and Wingdings.



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Chapter 1 - Introduction

About this Book

This book is delivered as an Adobe Acrobat PDF file. It provides a convenient on-screen reference for the driver software supplied with your Xanté Ilumina Digital Color Press.

You can use Acrobat bookmarks or search features to navigate and locate information in this manual. If you need to print part of the manual, use Adobe Reader's print command, and select which pages you want to print. Some pages are left blank deliberately so that the page format is appropriate for duplex (double-sided) printing.

Manual Conventions

The following conventions are used in this manual:



indicates that you need to press the Return key on a Macintosh or the Enter key on a PC.



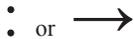
indicates additional or emphasized information to supplement the main text.



indicates caution and instructions that must be followed to avoid damage to files or equipment.



indicates danger and warns that instructions must be followed exactly to avoid personal injury.



indicates the path for a file or folder and links procedure steps.



indicates variable information such as the Ilumina's name.

How to Use the Driver Options

Most of the features described are accessed via the Ilumina's driver screens. How you access them depends on your computer and its operating system.

1. Driver Defaults

If you choose this method any changes you make will become the driver defaults. This means they will remain active for all your applications unless you specifically change them from within the Application Print Dialogue Box.

2. Application Print Dialog Box

If you choose this method, any changes you make usually only last for as long as the particular application is running, or until you change them again. In most cases, once you quit the application the driver defaults will return.



Settings made from the Ilumina's control panel are the Ilumina defaults. They determine how your Ilumina will behave unless you specify otherwise from your computer. The driver defaults override the Ilumina defaults and Application Print settings override both the Ilumina and driver defaults.

How to Set the Driver Device Options

This section explains how to ensure that your driver can utilize all of the hardware features installed in your Ilumina. Accessories such as hard disk, duplex unit (two sided printing), additional paper trays, etc., will be usable only if the Ilumina driver on your computer knows they are there.

In some cases, the hardware configuration of your Ilumina is detected automatically when the driver is installed. However, it is advisable to at least check whether all of the available hardware features are listed in the driver.



See the *Software Installation Guide* for information on adding these options on your operating system.

Chapter 2 - Blacks and Greys

Overview

- Black Overprint
- Black Generation
- Fine Line Enhancements
- Greyscale Printing

Black Overprint

Black overprint eliminates the white edge between the printed fonts and the colored background. Black overprint can be used only when printing 100 percent black text over a background color.



The Black Overprint feature is not included in the Windows PCL 6 driver. When the background color is very dark, the toner may not fuse correctly. Change the background to a lighter color.



Black Overprint may not be available with some software applications.

Black Generation

Your Ilumina prints the color black in either Composite Black or True Black.

Composite (Process) Black

The cyan, magenta, yellow, and black toners are combined to create composite black. This sometimes gives a glossier finish due to the increased amount of toner. It can also appear as a slightly brownish black. This feature is best used when printing photographs.

True (Pure) Black

Only black toner is used to print true black. This feature is best used when printing a combination of text and graphics. If you use True Black to print photographs, dark sections of the photos may appear black.



To use Black Generation you must select Office Color or Graphic Pro as the Print Mode.

Fine Lines Enhancement

This feature will emphasize the pen width of very fine lines (minimum line width).



With some software applications this feature can cause the spaces in between objects (i.e., bar codes) to become too narrow. If this happens, turn [Adjust Ultra Fine Lines] OFF.



This is a feature of the Windows PCL driver only.

Greyscale Printing

If you select Greyscale, the printer converts all colors into shades of grey, and prints using only black toner. Use Greyscale to speed up printing of proof copies or when you do not need to print a color document in color.

By clicking the [Advanced button, you will see additional features. Use optimized greyscale halftones will take slightly longer to print but will enhance the quality of your images.

The Ilumina also uses a built in halftone screen but you may choose custom screens from within your application if you deselect [Use Printer Halftone].

Chapter 3 - Color Matching

Overview

There are three methods by which your output color can be managed. This guide will only discuss the Ilumina Color Management. To learn more about your Application Program or Operating System color management, please see the documentation that was supplied with your application software or computer.

1. Application Color Management

Some graphics and desktop publishing programs such as Adobe Photoshop, Adobe Illustrator, and QuarkXPress have their own built-in color management systems. Most applications do not have these color management features and rely instead on the Ilumina or operating system.

2. Operating System Color Management.

Your operating system has built in color management, it is called Windows ICM Color Management on PC or Apple ColorSync on Mac OS 9 and X.

3. Ilumina Color Management.

When you modify print settings in the Ilumina driver, the Ilumina performs color adjustments when the job reaches the Ilumina.



Only use one color management system if you want the best results from your Ilumina. If you wish to use your Ilumina Color Management system, ensure that your application or operating system color management is switched OFF otherwise applying color management in multiple places will yield unpredictable results.

About RGB and CMYK Color

Some application programs give you the choice to create and edit documents using either RGB color or CMYK color. Typically, only professional graphics and desktop publishing software support CMYK color. Most application programs only support RGB color, for example Microsoft Office programs or web browsers.

The RGB color model is based on the three primary colors of light; Red, Green and Blue. This model is used by scanners, digital cameras, and computer monitors.

The CMYK color model is based on Cyan, Magenta, Yellow, and Black digital color press inks or toners. Depending on your operating system, you may have the choice of different drivers to use with your Ilumina. You may wish to select a Ilumina driver based on whether it supports CMYK data.

	Support for RGB Data	Support for CMYK Data
PCL driver (Windows)	Yes	No
PCL 6 driver (Windows)	Yes	No
PostScript driver (Windows)	Yes	Yes
PostScript driver (Mac)	Yes	Yes

Ilumina Color Management

Introduction

Your Ilumina has two color management systems – Office Color and Graphic Pro.

1. Office Color

This is a simpler color management system designed for ease of use. Office Color is recommended for users who are not experts in color but want good results when printing from programs such as Microsoft Office.

2. Graphic Pro

This is a powerful color management system based on ICC color profiles. Profiles can be downloaded to the Ilumina hard disk drive using a special utility, and then color matching can be applied to all incoming print jobs. The Graphic Pro color management system is recommended for users who are already familiar with ICC profile-based color matching and require more control over color.

Office Color Explained

There are two different sets of options in Office Color:

RGB Options	CMYK Options (PostScript Only)
Monitor (6500K) – Auto	SWOP
Monitor (6500K) – Perceptual	Euroscale
Monitor (6500K) – Vivid	Japan Color
Monitor (9300K)	
Digital Camera	
sRGB	

Although the Office Color options contain controls for CMYK data, it is *strongly* recommended that you use the Graphic Pro options instead. If you are printing CMYK data, the Graphic Pro options provide more power and flexibility.



The options for CMYK data are not present in the Windows PCL or PCL 6 drivers. These drivers only support RGB color data.

Office Color - RGB Options

Office Color provides a collection of several different color matching presets for RGB data. These presets change the color of your print in a slightly different way.

These RGB color matching options are available in all digital color press drivers.

Preset	Explanation
Monitor (6500K) – Auto	The best color match preset will be selected based on the type of information in the document.
Monitor (6500K) – Perceptual	Optimized for printing photographs. colors are printed with emphasis on saturation.
Monitor (6500K) – Vivid	Optimized for printing photographs combined with text. This setting uses more saturation than the Perceptual setting.
Monitor (9300K)	Colors are printed with emphasis on Lightness. Use this setting when printing from Microsoft Office applications.
Digital Camera	Optimized for printing photos taken with a digital camera. Your results will vary depending on the subject and the conditions under which the photograph was taken.
sRGB	The Ilumina will try to reproduce the sRGB color space. This may be useful if color matching from an sRGB input device such as a scanner or digital camera.

Customizing RGB Office Color with the Color Correct Utility

If the Office Color presets are not sufficient for your needs, the Color Correct Utility provides a means of further adjustment by providing two methods for customizing the Office Color settings:

1. You can modifying Hue, Saturation and Gamma.
2. You can modify specific palette colors used in Microsoft Office applications. These adjustments only affect one specific palette color at a time.



The Color Correct Utility is available for Windows only. For more details, see the *Utilities Guide*.

Graphic Pro Explained

The Graphic Pro color matching system is both powerful and flexible. It can be used to match the Ilumina to your RGB input devices by using the ICC profiles for your scanner, digital camera, or monitor. It can also be used to simulate the color output of another digital color press or the color output of a commercial printing press (SWOP, Euroscale, or Japan Color inks). You may also create your own custom profiles with third-party ICC profile creation software for download to the Ilumina hard disk drive using the Profile Assistant Utility.

How to Apply Profiles

The ICC-based color matching system can be used to simulate the output on commercial printing presses. To print CMYK Ink Simulations, you must use a PostScript driver for the Ilumina. You can select the ink types most commonly used in different regions of the world (Euroscale – Europe, SWOP – US, Toyo – Japan).

There are four classes of ICC profile supported by the Graphic Pro:

Profile Type	Description
RGB Source (RGB Input)	These profiles describe the device that used to capture RGB data (e.g. scanner or digital camera). The RGB Input Profile also may be your monitor profile if you are trying to match to your screen.
CMYK Simulation (CMYK input)	These profiles describe the CMYK device whose colors you are trying to simulate. Typically, this would be another manufacturer's digital color press or an offset printing press. Profiles are built-in to the Ilumina for commercial printing press inks such as SWOP.
Digital Color Press (CMYK Output)	This profile describes the color characteristics of your Ilumina. The Ilumina has factory default profiles built-in, but you can replace these profiles with your own if required.
Link Profile	This is a special type of ICC profile that converts directly from CMYK to CMYK. For example, a link profile could convert directly from the CMYK space of another digital color press to the CMYK space of your Ilumina.



Be aware that if the device you are trying to simulate has different color capabilities from your Ilumina, exact color simulation will not be possible. For example, it may be difficult to reproduce the exact colors of an inkjet printer on a toner-based digital color press. Additionally, differences in the range of printable colors between different devices can make simulation using RGB source data inaccurate. To achieve best results when simulating the color output of other digital color presses, it is advised to use CMYK data as a source.

Where can I get the profiles I need?

Profile Type	Where to Get Profiles
Source (RGB Input)	Obtain your RGB source profiles from your scanner, camera or monitor manufacturer.
CMYK Simulation (CMYK Input)	Obtain the simulation profile from the manufacturer of the digital color press you wish to simulate.
Digital Color Press (CMYK Output)	The factory default profiles for your Ilumina are built-in. If you need greater accuracy, you should create your own digital color press profile using CMZ.
Link Profile	You can create Link profiles using third-party ICC profile creation software. Note that not all ICC profile creation software can create Link profiles.

Although it is possible to perform CMYK ink simulations using the Office Color options in the Ilumina driver, we recommend that you use the Graphic Pro color matching system to perform CMYK ink simulations, as this provides additional controls, such as using the “Preserve Black” feature, or specifying an alternative digital color press output profile.

Using Color Profiles in Windows

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select the [Color] tab → [Graphic Pro] → and click the [Details] button.
3. Select [ICC Profile Color Matching] or [Printer Simulation]
4. Select an Input Profile (RGB or CMYK) that corresponds to the device you are trying to match such as your monitor, scanner or digital camera (RGB) or commercial printing press (CMYK).

If you selected [Printer Simulation] select the profile of the device you wish to simulate as the [Simulation Target Profile].

If you selected a CMYK Profile, you need to select the [CMYK Input Profile] that corresponds to the press you are trying to match.

5. Select a Output Profile. If [Auto] is selected, the factory default profiles embedded in the Ilumina will be used. If you created an Ilumina profile yourself using profile creation software, select it and a [Rendering Intent].

Using Color Profiles in Mac OS 9

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Go to [Color Options] in the drop down menu below [Printer]
4. Select [Graphic Pro] for the [Color Mode].
5. Go to [Color – Graphic Pro 1] in the same menu.
6. Select either [ICC Profile Color Matching] or [Printer Simulation] for the [Color Matching Task].
7. Select the [RGB or CMYK Profile] that corresponds to the device you are trying to match such as your monitor, scanner or digital camera (RGB) or commercial printing press (CMYK).

If you selected [Printer Simulation] select the profile of the device you wish to simulate as the [Simulation Target Profile].

If you selected a CMYK Profile, you need to select the [CMYK Input Profile] that corresponds to the press you are trying to match.

8. Go to [Color – Graphic Pro 2] in the same menu
9. Select the [Printer Output Profile] for your Ilumina. If [Auto] is selected, the factory default profiles embedded in the Ilumina will be used. If you created an Ilumina profile yourself using profile creation software, select it and a [Rendering Intent].

Using Color Profiles in Mac OS X

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Printer Features] from the drop down menu below [Presets].
4. Select [Color Options] from the [Feature Sets] menu.
5. Select [Graphic Pro] for the [Color Mode].
6. Select [Color - Graphic Pro 1] from the [Feature Sets] menu.
7. Select either [ICC Profile Color Matching] or [Printer Simulation] for the [Color Matching Task].
8. Select the [RGB or CMYK Profile] that corresponds to the device you are trying to match such as your monitor, scanner or digital camera (RGB) or commercial printing press (CMYK).

If you selected [Printer Simulation] select the profile of the device you wish to simulate as the [Simulation Target Profile].

If you selected a CMYK Profile Type, you need to select the [CMYK Input Profile] that corresponds to the press you are trying to match.

9. Select [Color - Graphic Pro 3] from the [Feature Sets] menu.
10. Select the [Printer Output Profile] for your Ilumina. If [Auto] is selected, the factory default profiles embedded in the Ilumina will be used. If you created an Ilumina profile yourself using profile creation software, select it and a [Rendering Intent].

Optional Functions When Using Color Profiles

Disable Color Matching for Profile Creation

If you are using your Operating System color matching, select [Disable Color Matching for Profile Creation Color Matching]. This option switches off all digital color press color management.

Use Application Color Matching

If you are using your application color matching, select [Use Application Color Matching]. This option switches off all digital color press color management.

Pure Black Text / Graphics Option

When your document is printed, often the pure black colors will not be printed using 100% black toner. Instead, these pure black colors are sometimes converted and printed using a mixture of CMYK toner (which can result in a slightly brownish black). Using the Pure Black Text/Graphics feature ensures that 100% black text or graphics in your document is printed using pure black toner.

Preserve Black

This option retains the original grey component (K channel) information for the document. If it is disabled, the grey component may be printed using a mixture of CMYK toner instead of just black toner.

Color Match Precision Option

When the Ilumina performs color matching, it must do many calculations to convert between different color formats (RGB, CMYK, etc). These calculations can take time to process. The [Color Match Precision] option allows you to choose between higher quality color matching (more time consuming) or faster but less accurate color matching.

Rendering Intents

When selecting the Printer Output Profile, if you select any other profile apart from [Auto], you can select the Rendering Intent. The rendering intents are essentially a set of rules that determine how colors that fall outside of the printable colors are treated.

Perceptual

This option is recommended for printing photographs. Typically, perceptual rendering desaturates all the colors when printing. This brings unprintable colors into the Ilumina's range, while keeping the relationships between the colors the same.

Saturation

This option is recommended for printing business graphics if you want vivid colors. This will not necessarily produce accurate color, as the emphasis is on saturation.

Relative Colorimetric

This option is best for printing solid colors and tints. Use this option when printing from a drawing program such as Adobe Illustrator, or Macromedia FreeHand.

Absolute Colorimetric

This option is recommended if you are proofing images on your Ilumina that are intended for final output on a printing press. This may result in a visible color cast on your print as it also will try to simulate the paper white of the target device.

Chapter 4 - Finishing Options

Overview

Your Ilumina offers a wide selection of document finishing options that help you to control the final form of your printed document. Depending on the hardware fitted, either as optional upgrades or included as standard, your Ilumina can offer the choice of double-sided (duplex) printing, booklet printing, and a wide range of custom sizes. It also can print posters as a series of tiles that can be joined together to make large posters, or print on very long media for banners.

For detailed information on finishing options see the sections:

- “Booklet printing (imposition)”
- “Collating”
- “Color Separation”
- “Separating Queued Print Jobs”
- “Cover Print”
- “Custom Page Size”
- “Duplex (Double-Sided) Printing”
- “Printing Multiple Pages on One Sheet (N-up)”
- “Poster Printing”
- “Scale to Page”
- “Watermarks”

Booklet Printing (Imposition)

Booklet printing in the Windows drivers allows printing of multi page documents with their pages ordered and arranged so that final printed output can be folded into a booklet. Typically, letter (or tabloid) pages would be reduced to half-letter (or letter) and printed side by side on both sides of letter (or tabloid) paper, so that the paper can be folded into a booklet.



To find out how much memory currently is installed, print a Configuration Page from the Ilumina control panel. See the *User's Guide*.

When using the PostScript driver, if you plan to print a long document, more than about 16 pages, consider printing it in sections of 8 or 16 at a time. This is called the “signature,” and will avoid having too thick a stack of paper to fold to make your booklet. Your document will then be printed in a series of booklets which can be stacked one above the other. This is usually a neater arrangement.

The above considerations do not matter when using the PCL driver as the signature can be set within the driver, and a long document can be printed directly as a series of booklets.

Note that the number of pages in a booklet is always a multiple of four, since two pages are printed on each side of each sheet of paper. If your document is not a multiple of four pages long, the last one, two or three pages in your folded booklet will be blank.



A few applications do not support booklet printing. This feature is not available in Windows 98 (PS), Mac OS 9 and X.

Windows (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Go to the [Layout] tab of the [Printing Preferences].
3. Select [Booklet] from the [Pages Per Sheet] drop-down list.
4. Set Duplex to [Flip on Short Edge].

Windows (PCL)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Booklet] from the [Finishing Mode] drop-down list
3. Click [Options] to set the [Signature] size, the number of [Pages] per side of paper and the [Binding Margin] if your document is going to be thick. The graphic in this window shows the effect of each choice you make.

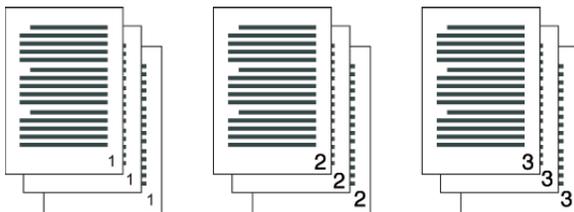


If the Booklet choice is not shown, check that the Duplex option is enabled in the driver under the [Device Settings} tab.

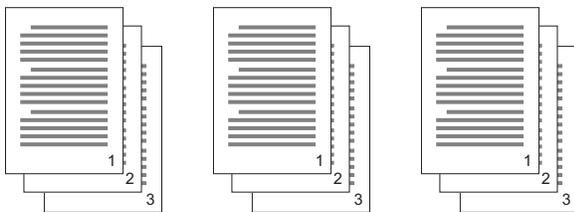
Collating

This feature allows multiple copies of a multi page document to be printed with the pages of each copy in sequence.

Uncollated pages print like this:



Collated pages print like this:



Application Collate

Some application programs have a collate feature in their print options. In this case the application performs the document collation and may send the job multiple times to the Illumina. Generally, this method is slower but can be more reliable.

Illumina Collate

This section describes the collate function built into the Illumina driver. In this case the job is stored temporarily in Illumina memory or on the Illumina hard disk drive, and the Illumina performs collation. This method is normally faster, but may not work from all applications.



If you experience problems using Illumina collate, use the collate option in your application's print options instead.

Windows

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select the [Job Options] tab and choose how many [Copies] you want to print.
3. Click the [Collate] check box.

Mac OS 9

1. Choose [File] → [Print] within your application program.
2. Select your Illumina from the [Printer] menu.
3. Select [General] and enter the number of [Copies] you wish to print.
4. Select [Job Options] and click the [Collate] check box.

Mac OS X

1. Choose [File] → [Print] within your application program.
2. Select your Illumina from the [Printer] menu.
3. Select [Copies & Pages] and enter the number of [Copies] you wish to print.



The [Collate] option in the [Copies & Pages] dialogue is for application collate not for Illumina collate.

4. Select [Printer Features].
5. Select [Job Options] from the [Feature Sets] menu.
6. Select the [Collate] check box to enable Illumina collate.

Color Separation

The color separation feature prints each of four primary colors as separate greyscale images. This is a proofing facility that indicates the relative densities of each of the four toner colors in your print document. The darker an area appears, the more of the corresponding toner color will be used when printing in full color.

Windows (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Go to the [Color] tab and click the [Advanced] button.
3. Select which [Separations] you want to print from the drop-down list.

Mac OS 9

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Color Options]
4. Select the separations you wish to print from the [Separations] menu.

Mac OS X

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Printer Features].
4. Select [Color Options] from the [Feature Sets] menu.
5. Select the separations you wish to print from the [Separations] menu.

Separating Queued Print Jobs

When you share an Ilumina with other users it can be useful to print a special page between print jobs to help locate each job in a paper stack at the Ilumina. In Windows this page is called a “separator page”. On the Mac it is called a “cover page”.



Do not confuse Cover Page with “Cover Print.” Cover Print is when the first page (cover) of a print job is fed from one paper tray and the remaining pages of the print job are fed from a different tray.

Windows

The separator page is set from the [Properties] window.

1. Select [Start] → [Settings] → [Printers] and right-click the Ilumina icon.
2. Select [Properties] and go to the [Advanced] tab.
3. Click the [Separator Page] button.
4. Click [Browse] and navigate to a file containing an image of the separator page you wish to use.
5. Click [OK] to apply.

Mac OS 9

The cover page is accessed from your application print dialogue box.

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Cover Page] and set the required options for the cover page.

Mac OS X

The cover page is accessed from your application print dialogue box.

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.

3. Select [Cover Page].and set the required options for the cover page.

Cover Print

Cover print is when the first page (cover) of a print job is fed from one paper tray, and the remaining pages of the print job are fed from another paper tray.

This feature is not available in the Windows PostScript Drivers.



Do not confuse Cover Print with “Cover Page”. A Cover Page is an identification sheet inserted between the print jobs of a network digital color press. See “Separating Queued Print Jobs” earlier in this chapter.

Windows (PCL)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Paper Feed Options]
3. Click the [Use Different Source for First Page] check box.
4. Choose the tray to feed the cover page from, the paper type in [Source] and media weight in [Weight] drop-down lists.

Mac OS 9.X

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [General].
4. Select the tray to pull the [First Page From] and the tray to pull [Remaining].

Mac OS X

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Paper Feed]
4. Select when to [Print Cover Page] and the [Type} of page to print.

Custom Page Sizes

This feature enables printing on non-standard sized print media. The multipurpose tray is used for feeding non-standard media sizes. Print media width can be from approximately 76 mm to 328 mm, and its length can be from 90 mm to 1200 mm. Actual limits vary slightly depending on which digital color press driver you use and the operating system used.



Some applications software may not produce the desired results with non-standard print media sizes, and some experimentation may be required to obtain the results you want.

Windows XP/2000 (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select the [Layout] tab and click [Advanced].
3. Under [Paper/Output], choose [PostScript Custom Page Size].
4. The PostScript Custom Page Size Definition window will appear.
5. Choose your [Paper Feed Direction] from the drop-down list.

The available choices are:

Short edge first	The page is portrait (tall) format and you will feed the top of the page into the Ilumina.
Long edge first	The page is landscape (wide) format and you will feed the top of the page into the Ilumina.
Short edge first flipped	The page is portrait (tall) format and you will feed the bottom of the page into the Ilumina.
Long edge first flipped	The page is landscape (wide) format and you will feed the bottom of the page into the Ilumina.

Notice that the size ranges available swap places when you change the paper feed direction between a portrait and a landscape choice.

Remember that the width of the multipurpose tray is limited to the width of an A3 sheet (297 mm), so if your paper is longer than this you will have to feed it short edge first.

6. You can also position the page image on the paper to avoid printing too close to the edge by choosing an [Offset].
Offset relative to [Perpendicular] direction adds to your left margin.
Offset relative to [Parallel] direction adds to your top margin (normal feed) or bottom margin (flipped feed).
7. Click [OK] to close the PostScript Custom Page Size Definition window.
8. Click [OK] to close the Advanced Options window.
9. Select the [Multipurpose Tray] as the [Paper Source] and click [OK].

Windows 98/ME (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select the [Setup] tab
3. Choose a “Custom Page Size” for [Size].
4. To create a new custom size:
 - a. Click the [Custom Size] button.
 - b. Enter a name for your new custom size in the [Name] box.
 - c. Enter the page dimensions in the [Width] and [Length] boxes.

- d. Click [OK] to save your new custom size.
5. Click [OK] to exit the [Properties]
6. Print your document.



The Windows 98 PostScript driver allows up to three custom page sizes to be defined and saved for future use.

Windows (PCL)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select the [Setup] tab.
3. Click the [Paper Feed Options] button, and click [Custom Size].
4. To create a new custom size:
 - a. Enter its dimensions in the [Width] and [Length] boxes.
 - b. Enter a name for the new size in the [Name] box, and click [Add].
5. Click [OK] to exit the [Properties].
6. Print your document.

Mac OS 9

1. Choose [File] → [Page Setup] within your application program.
2. Select [Custom Page Sizes].
3. Click the [New] button to define a new paper size.
4. Enter the [Width] and [Height] of your paper.
5. Specify paper [Margins] as required.
6. Enter a [Name] for your new size and click [OK].

Mac OS X

1. Choose [File] → [Page Setup] within your application program.
2. Select [Custom Page Sizes].
3. Click the [New] button to define a new paper size.
4. Enter the [Width] and [Height] of your paper.
5. Specify paper [Margins] as required.
6. Enter a [Name] for your new size and click [OK].

Duplex (Double-Sided) Printing

Your Ilumina duplex feature allows you to print on both sides of the paper to save paper, weight, bulk, and cost.

Limitations

- Only paper can be used for duplex printing, not transparencies or other media.
- Use paper stock of 75–120 g/m². If you experience excessive curling with 75–90 g/m² paper, use 105 g/m².
- Use standard sized paper stock only, e.g. A4, A3, Letter, etc.
- Load the paper print side up. Ream wrappers are usually marked with an arrow, indicating which is the print side.
- Paper can be fed from standard paper trays, including the high capacity feeder if you have one, but not from the multipurpose tray.
- Do not set the paper weight to Ultra Heavy.
- Do not enable the White Page Skip function.

Windows (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Layout] tab on Windows XP/2000 or [Setup] tab on Windows 98/Me.
3. Select the binding edge you want under [2-Sided Printing].

Windows PCL

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Setup] tab.
3. Select the binding edge you want under [2-Sided Printing].



For portrait (tall) page layout, the usual choice is [Long Edge].
For landscape (wide) page layout, the usual choice is [Short Edge].
Choosing [Off] will print your document single-sided.

Mac OS 9

1. Choose [File] → [Page Setup] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Layout].
4. Click [Print on Both Sides].
5. Select the binding edge that you want.

The graphic shows how you paper will be flipped, either on the short or the long edge. Which choice you make usually will depend on whether your page format is portrait (tall) or landscape (wide) and on how you plan to turn the paper over to read the second side.

Mac OS X

1. Choose [File] → [Page Setup] within your application program.

2. Select your Ilumina from the [Printer] menu.
3. Select [Layout].
4. Select [Two Sided Printing].
5. Select either [Long Edge Binding] or [Short Edge Binding].

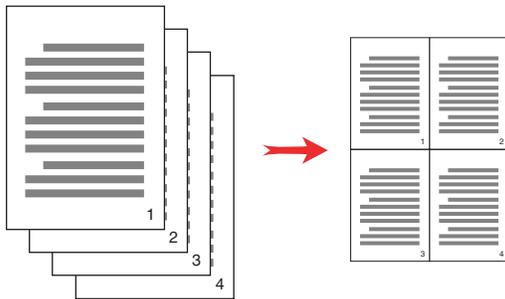
Which choice you make usually will depend on whether your page format is portrait (tall) or landscape (wide), and how you plan to turn the paper over to read the second side.

Printing Multiple Pages on One Sheet (N-Up)

This feature scales the page size of your document for printing and reproduces several pages per sheet.

This is useful when you simply want to proof your page layout, or distribute your document in a more compact format. It saves paper, bulk, weight, and cost.

If you have a duplex unit installed, you can even combine this feature with duplex printing to save even more.



Windows (PS)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Layout] tab on Windows XP/2000 or [Setup] tab on Windows 98/Me.
3. Choose the number of pages [N-up] you want to print on each sheet. 1-up is normal, 16-up is maximum.

Windows (PCL)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Layout] tab on Windows XP/2000 or [Setup] tab on Windows 98/Me.
3. Choose the number of pages [N-up] you want to print on each sheet. 1-up is normal, 16-up is maximum.
4. Click [Options] to choose from the available options for this feature. From here you can choose the page printing order, the page layout, whether you want printed page borders, and a binding margin if you need it.

Mac OS 9

1. Choose [File] → [Page Setup] within your application program.
2. Select your Ilumina from the [Printer] menu.

3. Select [Layout].
4. Select the number of pages you want to fit onto a single sheet of paper from the [Pages per Sheet] menu.
5. Change the direction to best fit the number of pages.

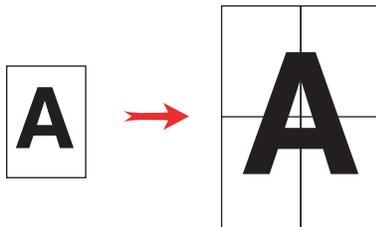
Mac OS X

1. Choose [File] → [Page Setup] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Layout].
4. Select the number of pages you want to fit onto a single sheet of paper from the [Pages per Sheet] menu.
5. Change the direction to best fit the number of pages.
6. If desired, add a border to each page.

Poster Printing

This option allows you to print posters by dividing a single document page into multiple pieces (sometimes called “tiles”). Each piece prints, enlarged, on a separate sheet. Then, you combine the separate sheets to create a poster.

Poster Print is only available with the Windows PCL drivers.



Windows (PCL)

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Setup] tab.
3. Choose [Poster Print] under [Finishing Mode].
4. Click [Options] to open the Options window.
 - a. Choose the [Enlargement] required for your document to fill the poster.
 - b. [Registration Marks] can be printed if required so that your printed pages (tiles) can be trimmed exactly to the edge of the image.
 - c. An [Overlap] may help you to match adjacent tiles when making up your final poster.

Scale to Page

Scale to Page allows you to print data formatted for one size page onto a different size page, without modifying the print data.

This feature is only available with the Windows PCL drivers.

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Setup] tab and click the [Options] button.
3. Select [Fit to Page].
4. Choose the scaling factor you need from the [Conversions] drop-down list.

Watermarks

A watermark is typically faint text that is superimposed on a printed document. This can be used to indicate that the document is “Draft”, or perhaps “Confidential”.

This feature is not available on Mac OS X.

Windows

1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Job Options] tab and click the [Watermark] button.
3. To Create a New Watermark
 - a. Click [New].
 - b. Enter the text you want for your watermark.
 - c. Adjust the font, size, color, angle, position and border (trim) as required.
 - d. Click [OK] to accept your changes.
4. To Edit an Existing Watermark
 - a. Click the name of the Watermark you want to edit.
 - b. Click [Edit].
 - c. Make any adjustments.
 - d. Click [OK] to accept your changes.
5. To Print Using a Watermark
 - a. Click the name of the Watermark you want to use.
 - b. Click [OK] to close the [Watermarks] window.
 - c. Click [OK] to close the [Properties] window.
 - d. Print your document.

Mac OS 9

The illustrations here are for the Adobe PostScript driver.

1. Choose [File] → [Page Setup] within your application program.
2. Select [Watermarks].

3. Select which pages you want to print watermarks on):
Choices are [None], [First], or [All].
4. Choose the type of watermark data to use:
Choices are: PICT file, EPS file, or plain text.
5. Click [Edit] to create or edit the text for a watermark,
6. Make any adjustments.
7. Click [OK] to accept your changes.
8. Print your document.

Chapter 5 - Secure Printing

Overview

Secure printing allows you to print confidential documents on Iluminas that are shared with other users in a network environment. The document does not print until a PIN (Personal Identification Number) is entered through the Ilumina's control panel. You must go to the Ilumina and enter the PIN.

There are three parts in secure printing covered in this chapter:

1. Sending the document to the Ilumina (Windows and Mac)
2. Printing the document
3. Deleting the document when it is not required.

This feature requires the hard disk drive in your Ilumina be enabled in the Ilumina's driver and is not available for Mac OS X.



If there is not enough hard disk space for the spooled data, a "Disk Full" message displays, and only one copy prints.



The secure printing feature may not be available from within some PC applications. If your application software has a collate print option, turn it [OFF] or secure printing will not work.



The [NAME] may be up to 16 alpha-numeric characters. If you have more than one print job stored on the Ilumina when you come to print, you will need a distinctive name to distinguish between each of your print jobs.



Your [PIN] must be unique on this Ilumina.
Each user should be allocated a PIN by the system administrator.

Sending the Document

Windows

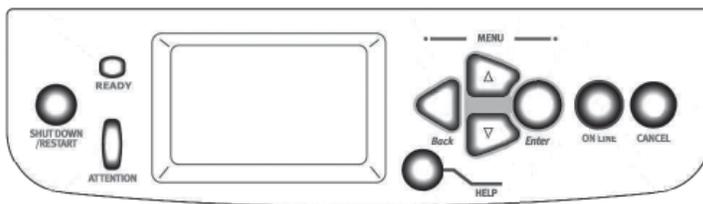
1. Choose [Properties] within your application print dialog box or use [Start] → [Settings] → [Printers] to change the default settings.
2. Select [Job Options] tab and select [Secure Print].
3. The Job PIN (Personal Identification Number) window will open. If the PIN window does not open, click the [PIN] button.
4. Enter a [Name] for this print job.
5. Enter a number from 0000 to 9999 in the [PIN] box.
6. Click [OK] to accept your changes.
7. Click [OK] to close the Printer Properties window.
8. Print your document.
The print job will be sent to the Ilumina, but will not print until you release it.

Mac OS 9

1. Choose [File] → [Print] within your application program.
2. Select your Ilumina from the [Printer] menu.
3. Select [Job Type].
4. Select [Secure Printing].
5. Enter a [Job Name] for this print job.
6. Enter a number from 0000 to 9999 in the [PIN] box.
7. Print your document.
The print job will be sent to the Ilumina, but will not print until you release it.

Printing the Document

Your secure print job is printed using the control panel on the front of the Ilumina.



1. Confirm that the Ilumina is idle (Ready to Print indicated in the display).
2. Use the ∇ Δ buttons to select [PRINT SECURE JOB] and press [ENTER].
3. Use the ∇ Δ buttons to enter the first digit of your [PIN] and press [ENTER].
4. Repeat step 3 to enter the remaining three digits.
5. Use the ∇ Δ buttons to select the [JOB NAME] and press [ENTER].
6. If necessary, use the ∇ Δ buttons to highlight [PRINT] and press [ENTER].
7. Select the number of collated copies and press [ENTER].
When all required copies have been printed, your document is deleted automatically from the Ilumina hard disk drive. It also is possible to print and delete secure documents remotely from your PC using the Storage Device Manager Utility.

Deleting a Secure Print Document

If you change your mind about printing a secure document, you can delete it from the Ilumina hard disk drive without printing it first.

1. Follow steps 1 to 5 in the preceding procedure for printing the document.
2. Use the ∇ Δ buttons to highlight [DELETE] and press [ENTER].
3. If necessary, use the ∇ Δ buttons to highlight [YES] and press [ENTER].

Chapter 6 - Store to Hard Disk

Overview

This feature allows print jobs to be created on the PC and stored on the Ilumina hard disk drive for printing on demand. This is good for forms, generic memos, letterhead, stationery, etc. If you use this feature for standard forms, for example, you can walk up to the Ilumina at any time and print off your forms without having to resend them from the PC.

The difference with job spooling is that the document is not deleted automatically from the Ilumina hard disk drive after printing. It remains on the drive for future use until you delete it using the Ilumina control panel or from your PC with the Storage Device Manager Utility.

There are three parts in job spooling covered in this chapter:

1. Sending the document
2. Printing the document
3. Deleting a stored document

This feature works in exactly the same way as the secure printing feature and it is available only in the Windows PostScript and PCL drivers.



If this choice does not appear in the driver screens, or if it is greyed out, check to ensure that the hard disk is enabled in the Ilumina driver.

Sending the Document

Follow the same procedures as described in “Sending the Document” section under secure printing, except that on the [Job Options] tab, click [Store to HDD].

Printing the Document

Follow the same procedures as described in “Printing the Document” section under secure printing. In this case, the document will not be deleted after it has printed.

Deleting a Stored Document

Follow the procedure in “Deleting a Secure Print Document” section under secure printing. Like secure print documents, any other documents stored on the Ilumina hard disk drive can also be deleted remotely from the PC using the Storage Device Manager Utility.

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