
magicolor 1680MF

Reference Guide

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***Operation on
Mac OS X***

1



System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer installed with the following processor: <ul style="list-style-type: none">– PowerPC G3 or later processor (PowerPC G4 or later is recommended)– Intel processor
Connecting the computer and machine	USB connection
Operating system	Mac OS X 10.2.8/10.3/10.4/10.5
RAM	128 MB or more
Available disk space	256 MB or more (for storing images)
Supported languages	English, French, German, Italian, Spanish, Portuguese, Czech, Korean, Simplified Chinese, Traditional Chinese, Polish, Slovak, Hungarian, Russian, Japanese

Installing the Printer Driver



You must have administrator privileges in order to install the printer driver.



Before proceeding with the installation, be sure to exit all running applications.



In the following text, "TWAIN driver" may be used to indicate the scanner driver.

Installing Ghostscript

If you are using Mac OS 10.3 or later, skip to "Installing the Printer Driver" on page 1-7. If you are using Mac OS 10.2, you must first use the following procedure to download and install Ghostscript before you install the printer driver.

1

The latest version of Ghostscript can be downloaded from http://sourceforge.net/project/show-files.php?group_id=18073#&package_id=19793.



Here we explain how to install the software from the **espgs-7.05.5-0.ppc.dmg** disk image file.

2

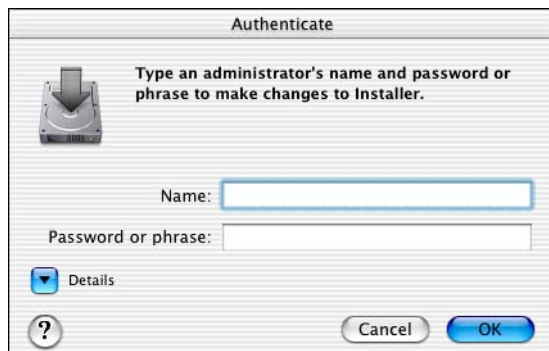
Double click the **espgs-7.05.5-0.ppc.dmg** file. The disk image **Install ESP Ghostscript 7.05.5** appears on the desktop.

3

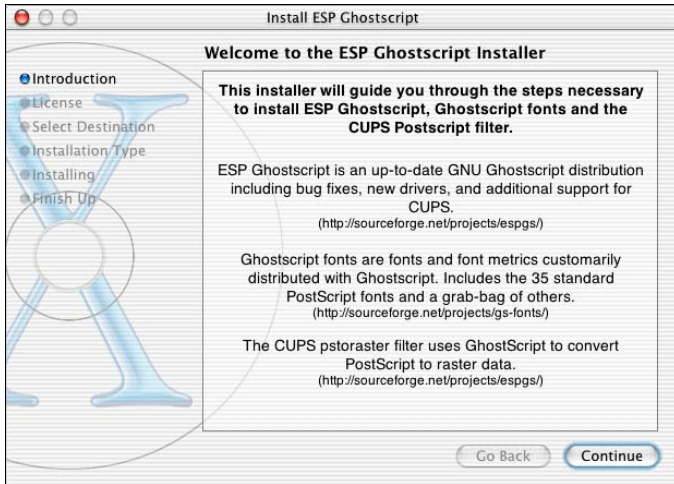
Double click the **ESP Ghostscript.mpkg** package file in the disk image.

4

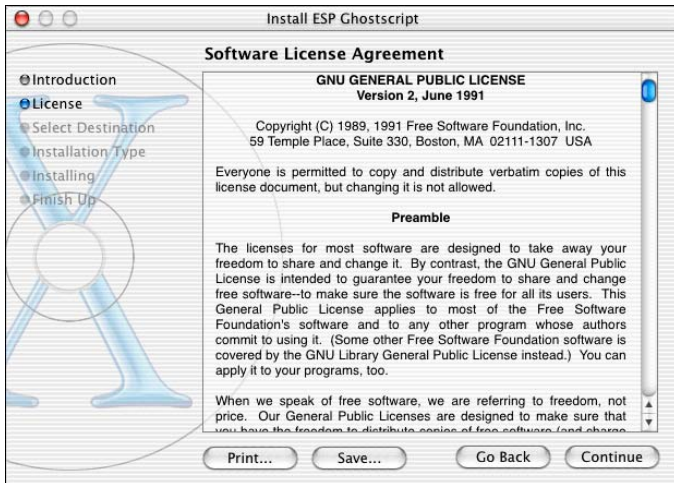
Enter the administrator user name and password in the **Authenticate** dialog box, and then click **OK**.



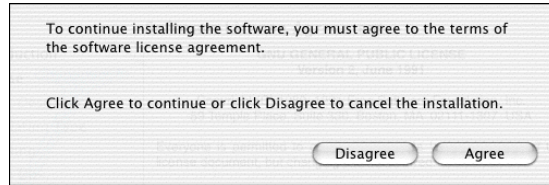
5 Click **Continue**.



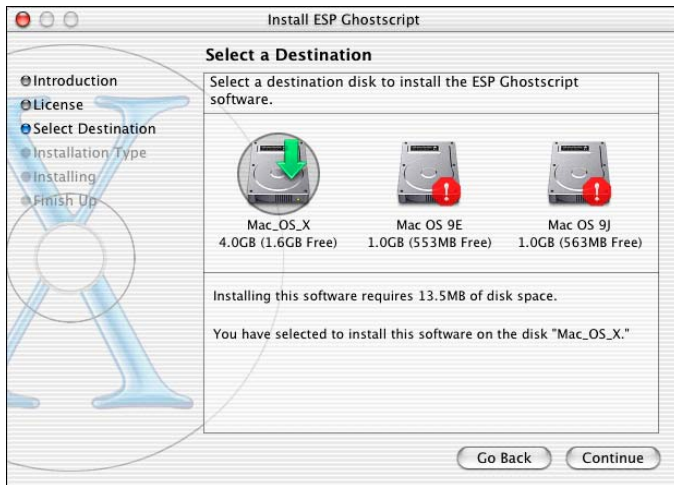
6 Check the details of the license agreement and click **Continue**.



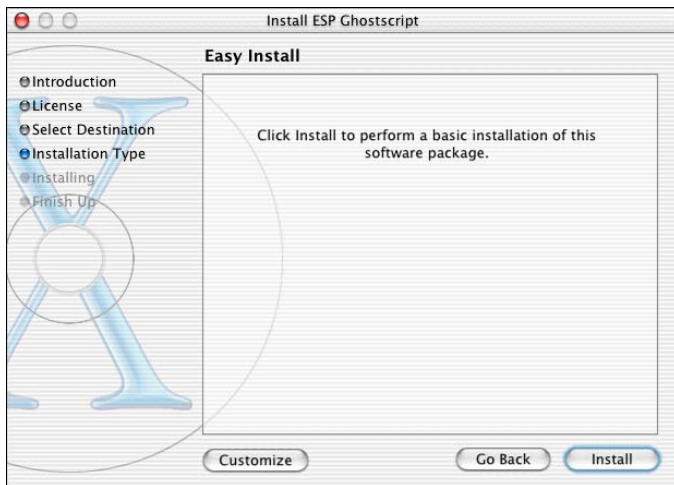
- Click **Agree** in the confirmation dialog box, if you agree to the terms of the license.



- In the **Select a Destination** page, select the disk in which you wish to install the software, and then click **Continue**.

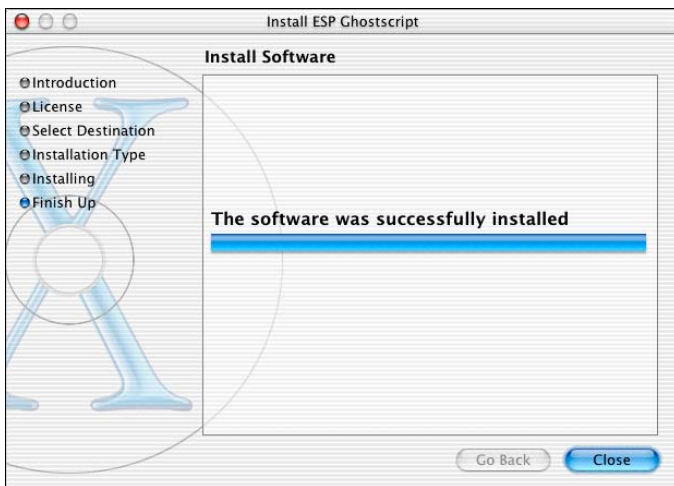


9 Click **Install** in the **Easy Install** page.



Installation starts.

10 After the installation has been completed, click **Close**.



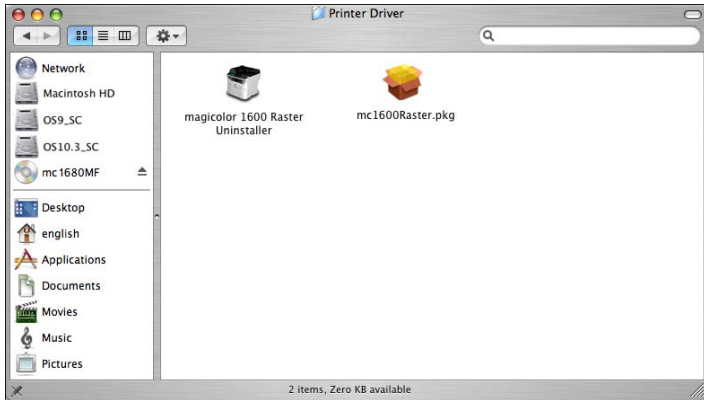
This completes the installation of Ghostscript.

Installing the Printer Driver



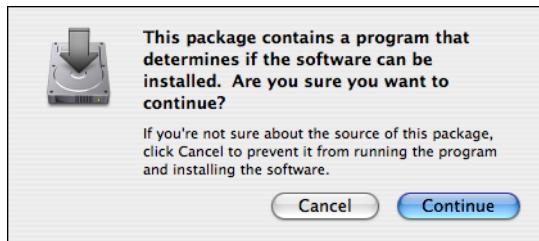
The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 1 Insert the Drivers CD/DVD in the CD/DVD-ROM drive of your Macintosh.
- 2 Double-click the CD icon on the desktop, Mac folder, Printer Driver folder, and then double-click the **mc1600Raster.pkg**.

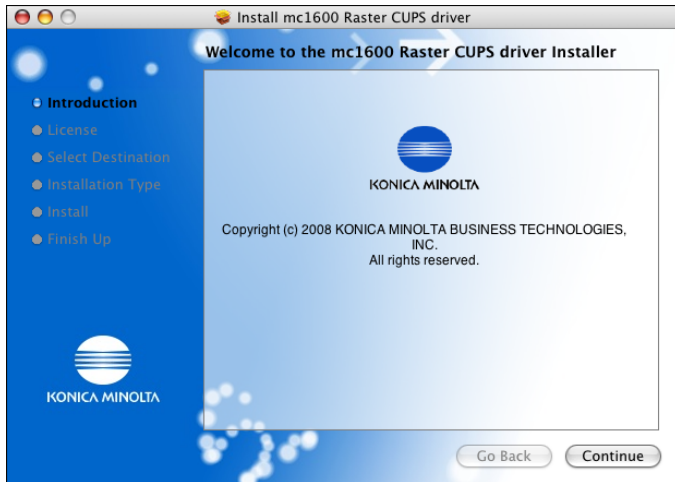


The installer for the printer driver starts up.

- 3 Click **Continue**.



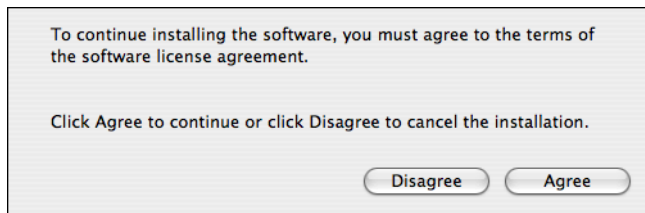
4 Click **Continue**.



5 Check the details of the license agreement, and then click **Continue**.



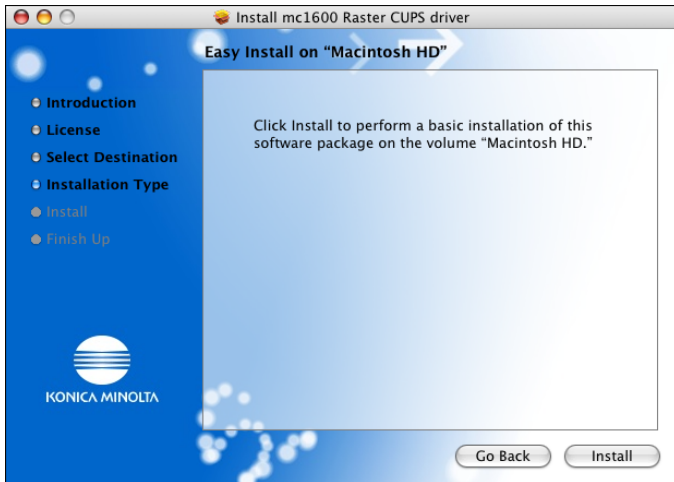
- 6 Click **Agree** in the confirmation dialog box if you agree to the terms of the license.



- 7 In the **Select a Destination** page, select the disk in which you wish to install the software, and then click **Continue**.



- 8 Click **Install** in the **Easy Install** page.

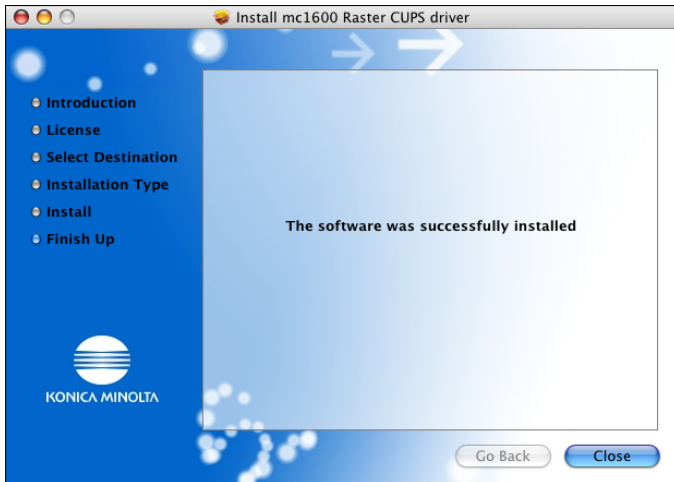


- 9 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



Installation starts.

10 After the installation has been completed, click **Close**.



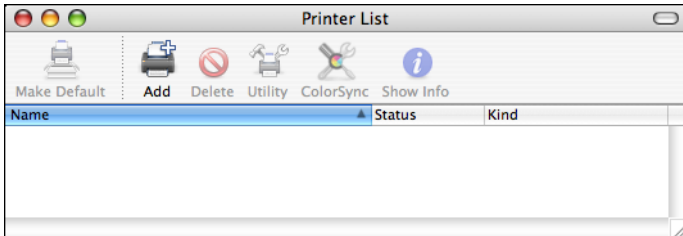
This completes the installation of the printer driver.

Printer Setup Utility Settings

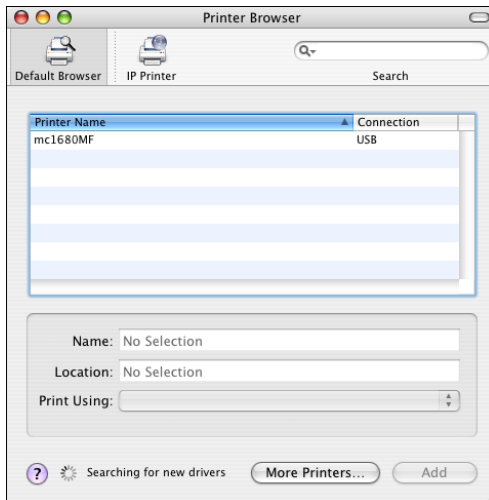


This function is not supported by Mac OS X 10.5.

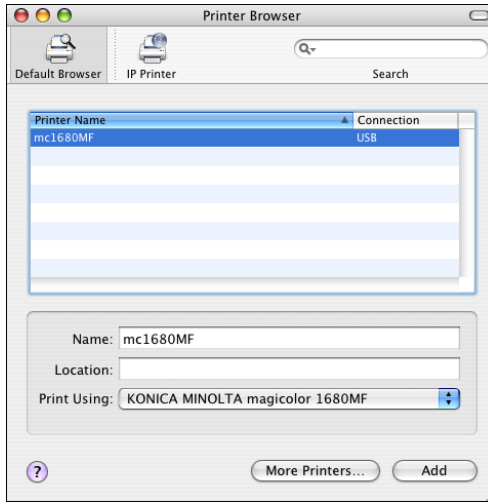
- 1 Use a USB cable to connect the machine to your computer.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 3 In the **Printer List**, click **Add**.



*The detected printer appears in the **Printer Browser**.*



4 Select **mc1680MF** in the **Printer Name**.

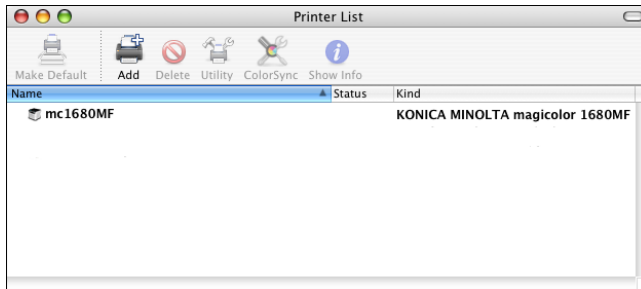


*If **mc1680MF** does not appear, check that the machine is turned on and the USB cable is connected, and then restart the computer.*

5 Check that **KONICA MINOLTA magicolor 1680MF** is selected in the **Print Using** list.

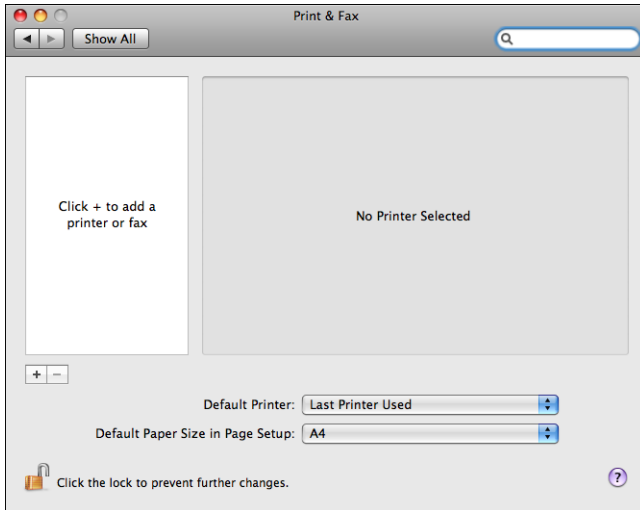
6 Click **Add**.

*The new printer appears in the **Printer List** screen.*

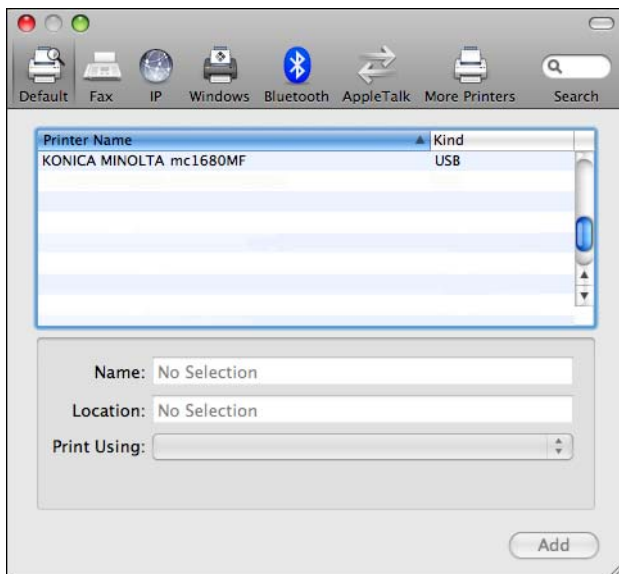


Printer Settings (Mac OS X 10.5)

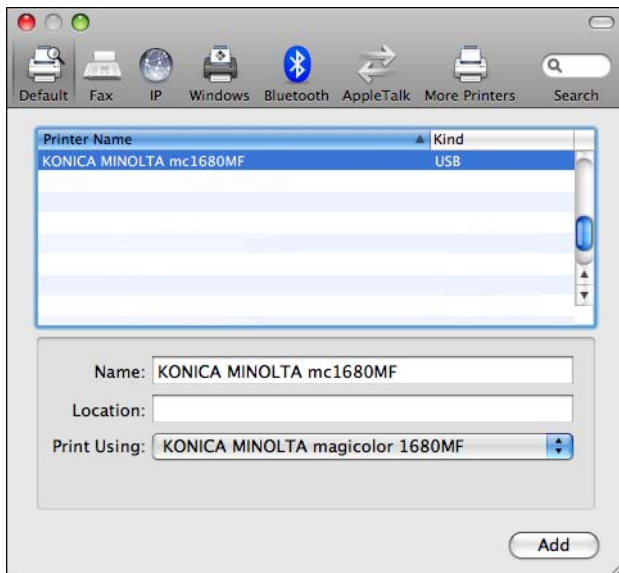
- 1 Use a USB cable to connect the machine to your computer.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



The detected printer appears in the Printer Browser.



5 Select **KONICA MINOLTA mc1680MF** in the **Printer Name** list.



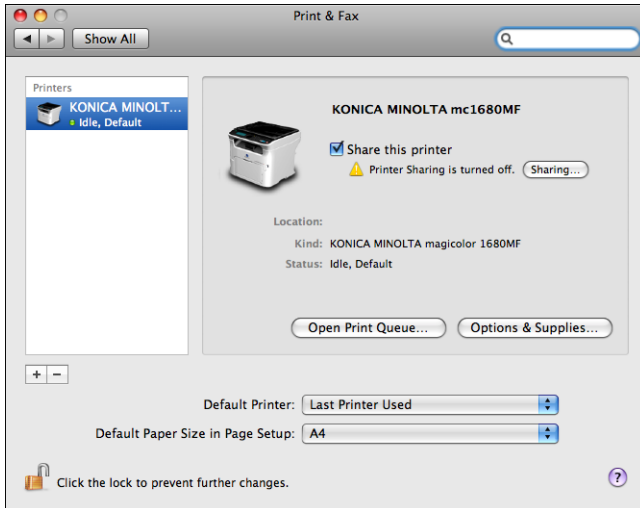


If **KONICA MINOLTA mc1680MF** does not appear, check that the machine is turned on and the USB cable is connected, and then restart the computer.

6 Check that **KONICA MINOLTA magicolor 1680MF** is selected in the **Print Using** list.

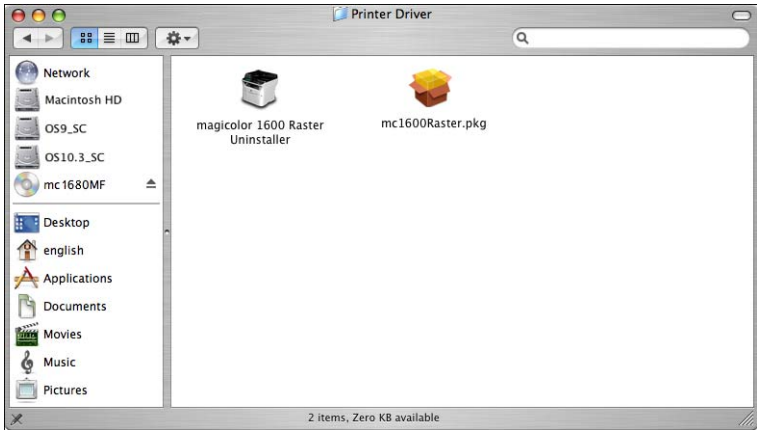
7 Click **Add**.

The new printer appears in the **Print & Fax** screen.



Uninstalling the Printer Driver

- 1 Insert the CD/DVD in the CD/DVD-ROM drive of your Macintosh.
- 2 Double-click the CD icon on the desktop, Mac folder, Printer Driver folder, and then double-click the **1600 Raster Uninstaller**.



The uninstaller for the printer driver starts up and the following message appears.



- 3 Click **Remove**.

- 4 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



- 5 After the uninstallation has been completed, click **Close**.

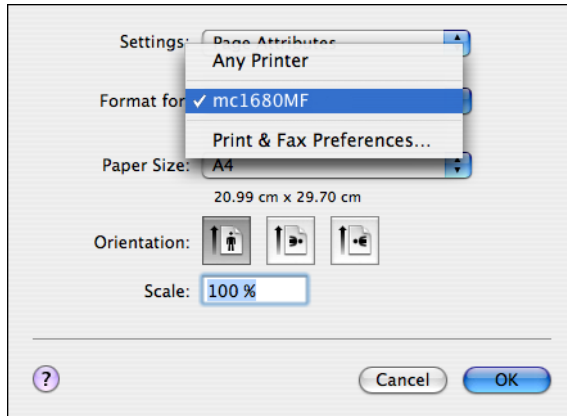


This completes the uninstallation of the printer driver.

Specifying Page Setup Settings

The following dialog box appears when **Page Setup...** is selected from the **File** menu in the application being used.

- 1 Select **Page Setup...** from the **File** menu.
The **Page Setup** dialog box appears.
- 2 Select this printer in the **Format for** pop-up menu.

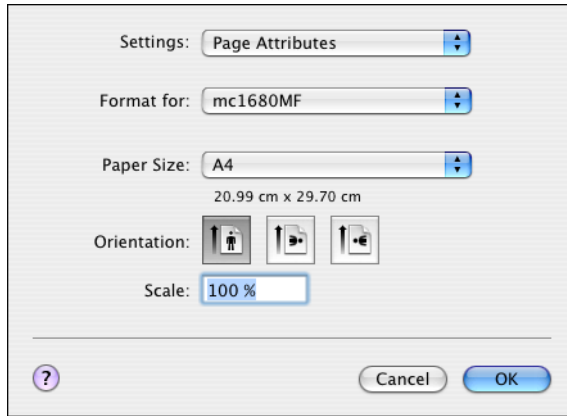


You can select the following sections from the **Settings** pop-up menu.

Section	Description
Page Attributes	This is used to specify the settings for the paper size, scaling, and print orientation.
Save As Default	This is used to save the new settings as the defaults.

Page Attributes Options

The **Page Attributes** section is used to specify the settings for the paper size, scaling, and print orientation.



- **Paper Size**
Select the desired paper size from the Paper Size pop-up menu.
- **Orientation**
Select either a vertical or horizontal page orientation for printouts.
- **Scale**
If you want to enlarge or reduce the size of the printout, enter the scale ratio here (25-400%).

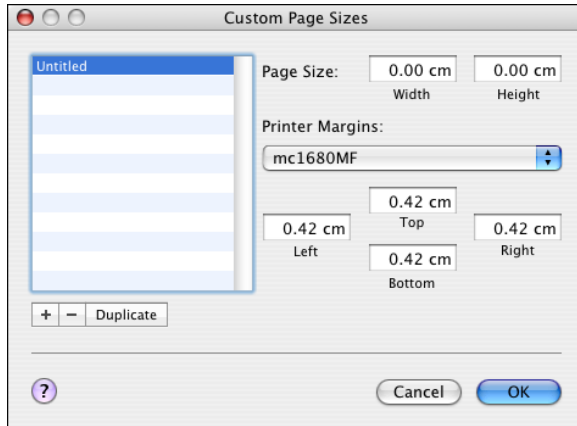


Regardless of which paper size is selected, the machine does not print within 0.165" (4.2 mm) of the edge of the paper.

Specifying Custom Paper Size

You can also specify a paper size that is not listed in the **Paper Size** pop-up menu.

- 1 Select **Manage Custom Sizes** from the pop-up menu, in the **Page Setup** dialog box. The **Custom Page Sizes** dialog box appears.



- +
Click this button to create a new custom page size.
 - -
Click this button to delete a custom page size.
 - Duplicate
Click this button to duplicate (copy) the settings of an existing custom page size and create a new custom page size based on those settings.
 - Page Size
Enter the dimensions of the paper height and width for the custom page size.
Width: 3.6 - 8.5" (92 - 216 mm)
Height (Plain paper): 7.69 - 14.0" (195 - 356 mm)
Height (Thick stock): 7.24 - 11.69" (184 - 297 mm)
 - Printer Margins
Select the printer from the pop-up menu, and then enter the dimensions for the top, left, right, and bottom margins.
- 2 After you have finished entering the settings, click **OK**.



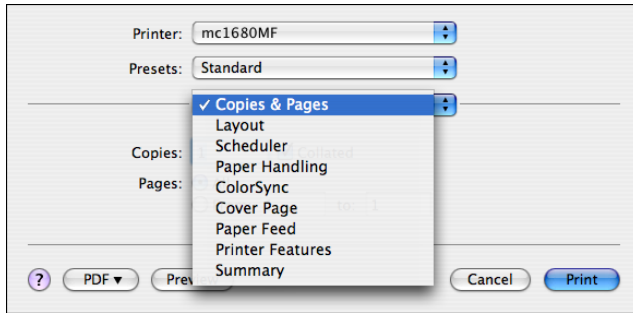
Regardless of which paper is selected, the printer does not print within 0.165" (4.2 mm) of the edge of the paper.

Specifying Print Settings (Mac OS X 10.4)

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.

- 1 Select **Print...** from the **File** menu.
The **Print** dialog box appears.
- 2 Select this printer in the **Printer** pop-up menu.
The Print dialog box is used to specify the following print options.

Print Dialog Box



Section	Description
Copies & Pages	This section contains options for the number of copies to be printed and the range of pages to print.
Layout	This section contains options for specifying the page layout when printing and the setting for double-sided printing.
Scheduler	This section contains options for specifying the print timing and priority of jobs.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
ColorSync	This section contains options for specifying ColorSync settings.
Cover Page	This section contains options for specifying cover page settings.
Paper Feed	This section contains paper feed options.
Printer Features	This section contains options for color printing and watermark settings.

Section	Description
Summary	This is used to check the current settings.



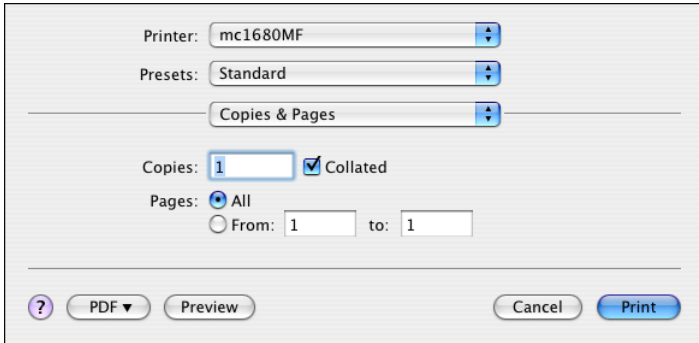
No warning message will be displayed if options cannot be used together are selected.

Common buttons

- ? (Help button)
This displays help information about the Print dialog box.
- PDF
Click this button to select the PDF menu. The print output can be saved as a PDF file or faxed.
- Preview
Click this button to view a preview image of the printout, to check that the print options are set correctly.
- Cancel
Click this button to close the Print dialog box without applying any of the settings.
- Print
Click this button to print using the selected print options.

Copies & Pages

The **Copies & Pages** section is used to specify the number of copies to print and the range of pages to print.



The screenshot shows a print settings dialog box with the following elements:

- Printer: mc1680MF (dropdown menu)
- Presets: Standard (dropdown menu)
- Copies & Pages (dropdown menu)
- Copies: 1 (text input field)
- Collated: (checkbox)
- Pages: All (radio button)
- From: 1 (text input field) to: 1 (text input field)
- Buttons: ? (help), PDF (dropdown), Preview, Cancel, Print

■ Copies

This specifies the number of copies to be printed. If the **Collated** checkbox is selected, all pages in the documents are printed as sets of print-outs.

For example, if 5 is entered for **Copies** and **Collated** is selected, the document is printed five times from the first page to the last page.

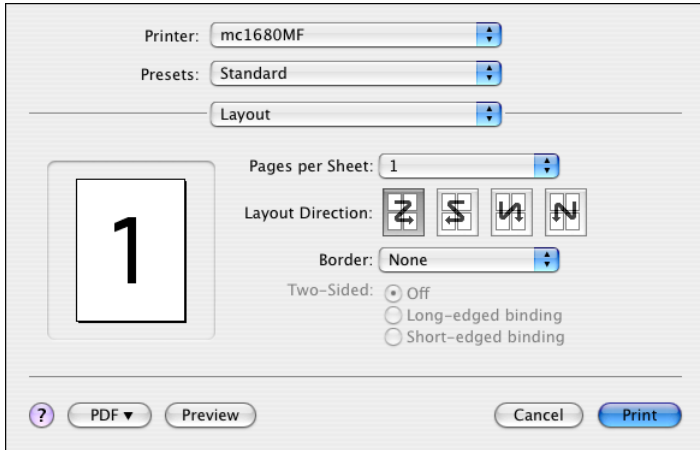
■ Pages

All: Prints all pages in the document.

From, to: Specifies the range of pages to be printed.

Layout

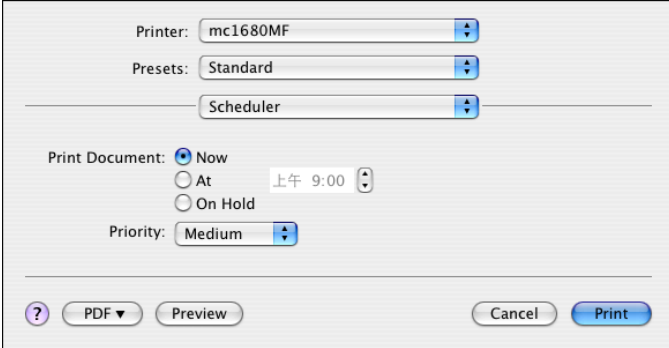
The **Layout** section is used to specify the page layout when printing and the setting for double-sided printing.



- **Pages per Sheet**
Specifies the number of pages to be printed on one sheet of paper. For example, if **2** is selected, two pages are printed on one sheet of paper.
- **Layout Direction**
If you are printing more than one page per sheet, this specifies the direction and order the pages should be arranged on each sheet of paper.
- **Border**
This prints a border around the image for each of the pages printed on one sheet of paper when more than one page is printed on one sheet of paper.
- **Two-Sided**
This setting cannot be used with this machine.

Scheduler

The **Scheduler** section is used to specify the timing and priority for printing jobs.



The screenshot shows a dialog box titled "Scheduler" with the following controls:

- Printer: mc1680MF (dropdown menu)
- Presets: Standard (dropdown menu)
- Scheduler: Scheduler (dropdown menu)
- Print Document: Now, At (with a time field set to 上午 9:00), On Hold
- Priority: Medium (dropdown menu)
- Buttons: ? (help), PDF (dropdown), Preview, Cancel, and Print

■ Print Document

Now: Select this option to begin printing immediately.

At: Specify the time to begin printing.

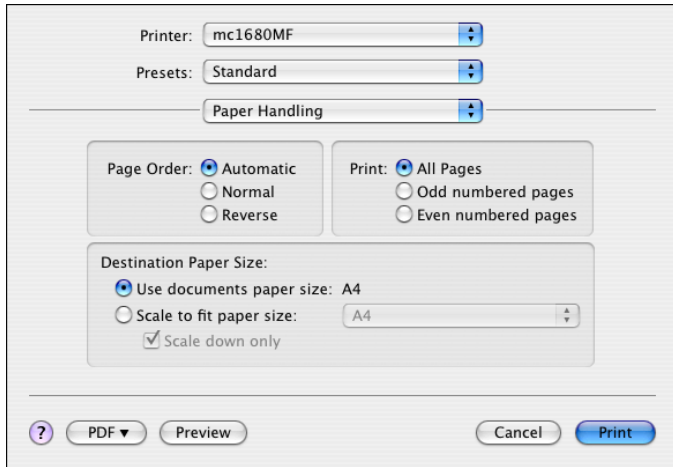
On Hold: Select this option to hold the print job.

■ Priority

Select the priority for printing jobs that are being held.

Paper Handling

The **Paper Handling** section is used to specify the pages that are to be printed and the order in which the pages are printed.



■ Page Order

Automatic: Select this option to print in the original page order of the document.

Normal: Select this option to print in the normal page order.

Reverse: Select this option to print in the reverse page order.

■ Print

All Pages: Select this option to print all pages.

Odd numbered pages: Select this option to print only the pages with odd page numbers.

Even numbered pages: Select this option to print only the pages with even page numbers.

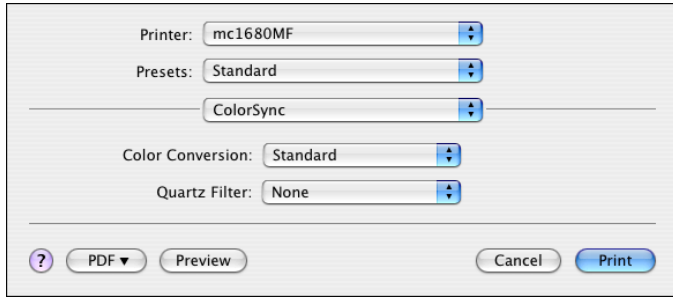
■ Destination Paper Size

Use documents paper size: Select this option to use the document size as created by software applications.

Scale to fit paper size: Select this option to fit the document size to the size of paper used by the machine. Specify the size of paper used by the machine.

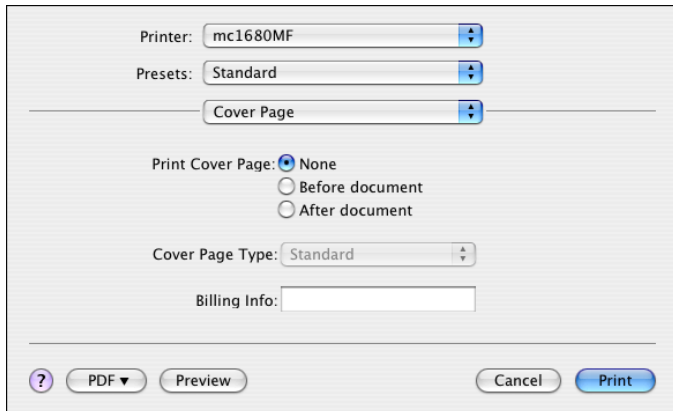
Scale down only: Select this option to reduce the printing size.

ColorSync



- **Color Conversion**
Allows you to select host-based color matching or printer-based color matching.
- **Quartz Filter**
Allows you to select Quartz Filter.

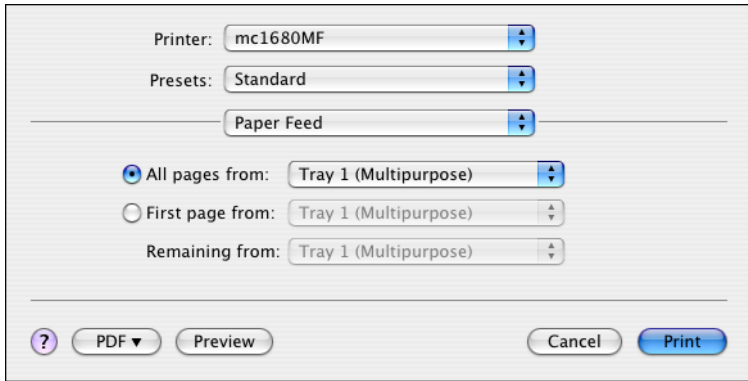
Cover Page



- **Print Cover Page**
Allows you to set cover page before or after document.
- **Cover Page Type**
Allows you to select cover page type.
- **Billing Info**
Allows you to set billing information printed on cover page.

Paper Feed

The **Paper Feed** section is used to specify the paper feed setting.

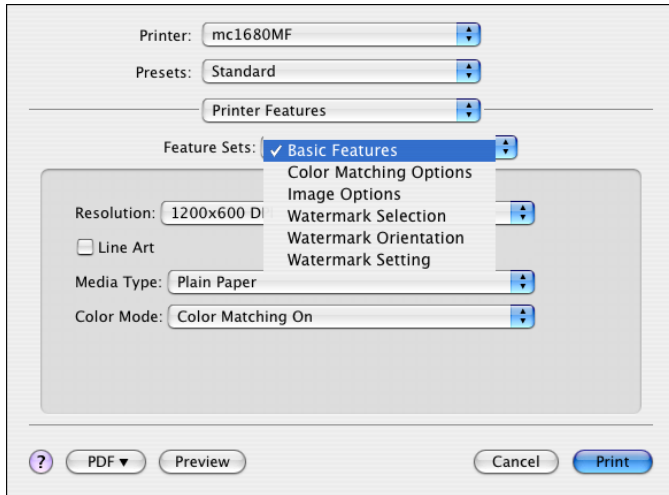


The screenshot shows a dialog box for printer settings. At the top, there are three dropdown menus: 'Printer:' set to 'mc1680MF', 'Presets:' set to 'Standard', and 'Paper Feed' set to 'Tray 1 (Multipurpose)'. Below these, there are three radio button options for paper source selection, all currently set to 'Tray 1 (Multipurpose)':
- 'All pages from:' (selected with a blue dot)
- 'First page from:' (unselected)
- 'Remaining from:' (unselected)
At the bottom of the dialog, there are four buttons: a help button with a question mark, a 'PDF' button with a dropdown arrow, a 'Preview' button, a 'Cancel' button, and a 'Print' button.

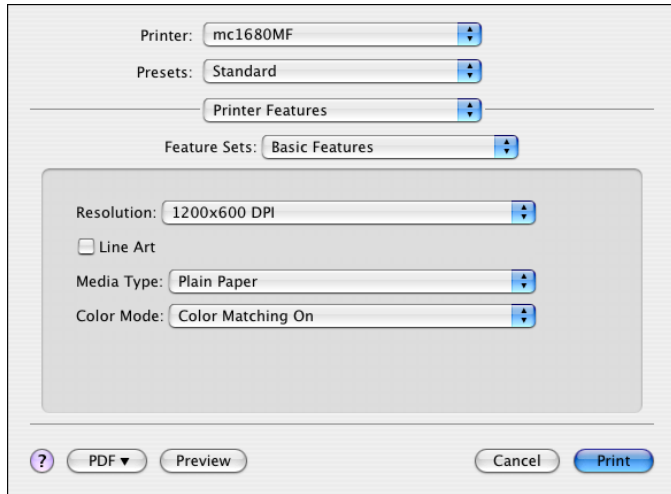
- **All pages from**
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**
The rest of the document is printed from the specified paper tray when the first page is to be printed on paper from a different tray.

Printer Features

The **Printer Features** section is used to specify the resolution, paper type, color options, watermark options etc., for the **Basic Features**, **Color Matching Options**, **Image Options**, **Watermark Selection**, **Watermark Orientation**, and **Watermark Setting** feature sets.

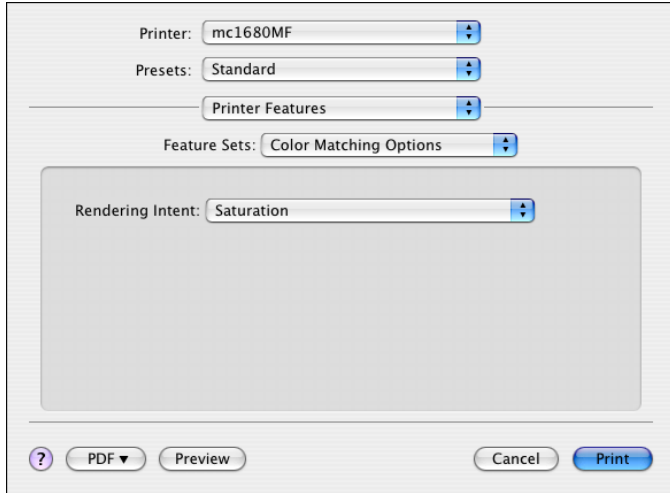


Basic Features



- **Resolution**
This option specifies the resolution to be used when printing a document.
- **Line Art**
Select this check box to print more detailed images.
- **Media Type**
This option specifies the type of paper on which the print image will be printed.
- **Color Mode**
This option specifies whether the document should be printed in color (Color Matching On / Color Matching Off) or grayscale.

Color Matching Options



■ Rendering Intent

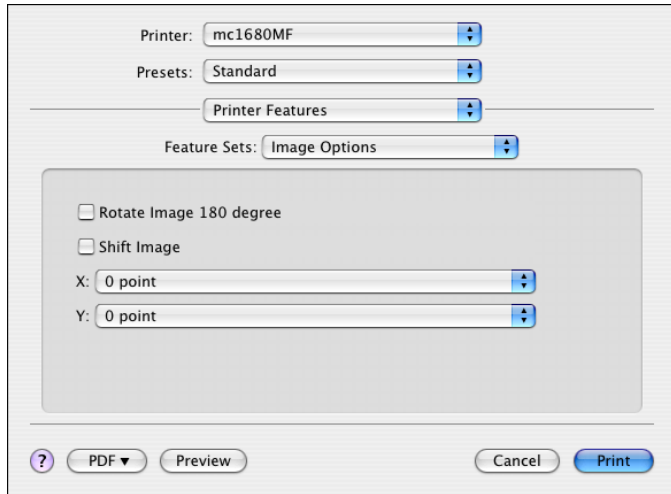
This option specifies the color matching settings.

Perceptual: Performs suitable color matching for photographic images.

Colorimetric: Performs most accurate hue color match, but the printer may replace hues it cannot reproduce.

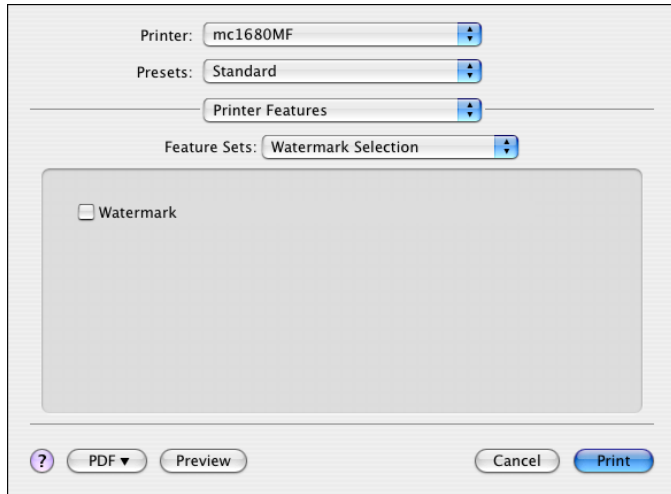
Saturation: Performs suitable color matching for business graphics.

Image Options



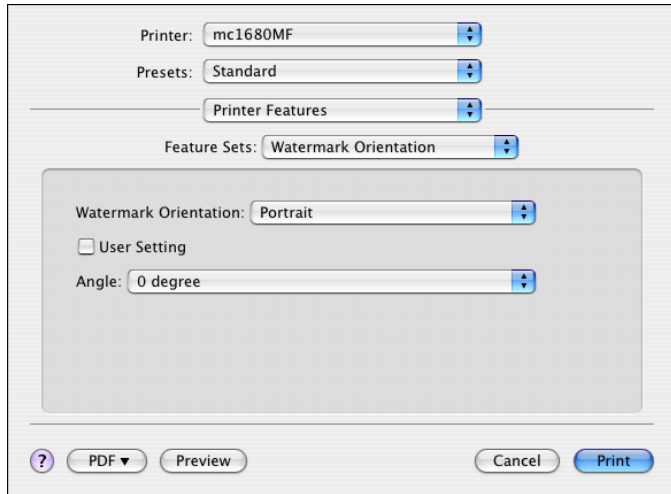
- **Rotate Image 180 degree**
Select this check box to print the image rotated 180 degrees.
- **Shift Image**
Select this check box to print the image shifted in the X and Y directions.
X: Select the distance to shift the image in the X direction.
Y: Select the distance to shift the image in the Y direction.

Watermark Selection



- **Watermark**
This specifies whether to use a watermark print.

Watermark Orientation



- **Watermark Orientation**
This option specifies the direction of the text in a watermark.
- **User Setting**
Select this check box to select the angle of the watermark.
- **Angle**
Select the angle of the watermark.

Watermark Setting

Printer: mc1680MF

Presets: Standard

Printer Features

Feature Sets: Watermark Setting

Watermark Text: CONFIDENTIAL

Watermark Font: Helvetica

Watermark Size: 48 points

Watermark Color: Black

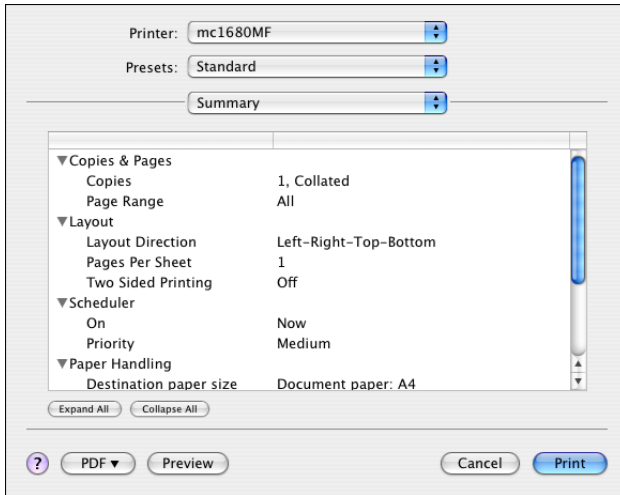
Watermark Intensity: 4

? PDF Preview Cancel Print

- **Watermark Text**
This specifies the text in the watermark.
- **Watermark Font**
This specifies the font to be used for the text in the watermark.
- **Watermark Size**
This specifies the font size to be used for the text in the watermark.
- **Watermark Color**
This specifies the color of the text in the watermark.
- **Watermark Intensity**
This specifies the density of text in the watermark.

Summary

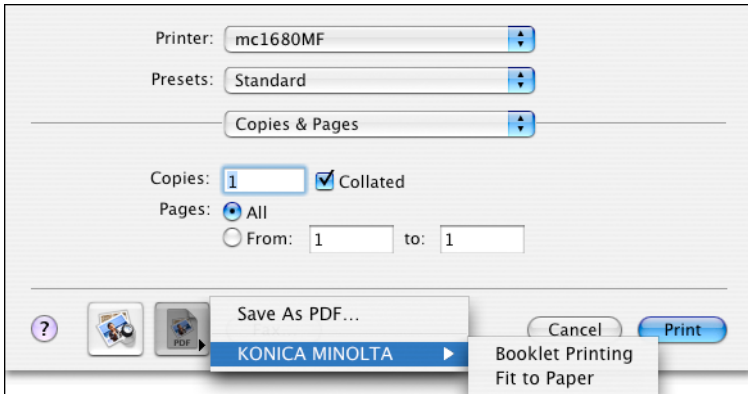
The **Summary** is used to check the currently selected print settings.




Using Additional Features (Mac OS X 10.3)

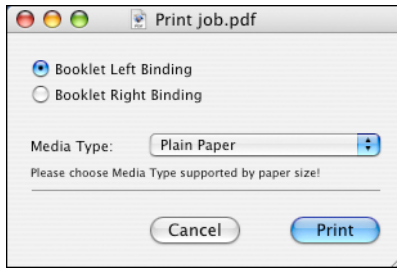
The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.


- 1 Select **Print...** from the **File** menu.
The **Print** dialog box appears.
- 2 From the **PDF** pop-up, select **KONICA MINOLTA**, and then select the feature to be used.



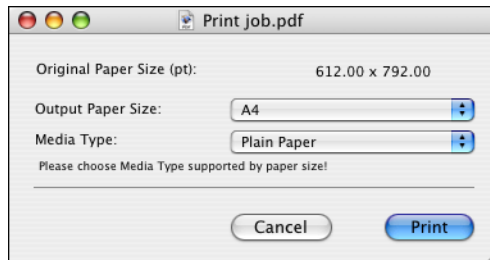
- **Booklet Printing**
Print the document as a booklet. The binding can be set to the left or right side.
 - **Fit to Paper**
Print with the paper size of the document adjusted to any paper size.
 *When printing with the Fit to Paper feature, the image is printed centered in the paper.*
- 3 Specify the necessary settings, and then click **Print**.

Booklet Printing



- **Booklet Left Binding**
Select to bind the document on the left side.
- **Booklet Right Binding**
Select to bind the document on the right side.
- **Media Type**
Select the type of paper to be printed.
 *Select a paper type that is compatible with the paper size being used.*
- **Cancel**
Stops printing.
- **Print**
Prints the document bound at the specified location.

Fit to Paper



- **Original Paper Size (pt)**
The size of the original document (in points) is displayed.
- **Output Paper Size**
Select the size of paper to be printed.
- **Media Type**
Select the type of paper to be printed.



Select a paper type that is compatible with the paper size being used.

- **Cancel**
Stops printing.
- **Print**
The document is printed automatically reduced or enlarged to fit the selected paper size.

Specifying Print Settings (Mac OS X 10.5)

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.

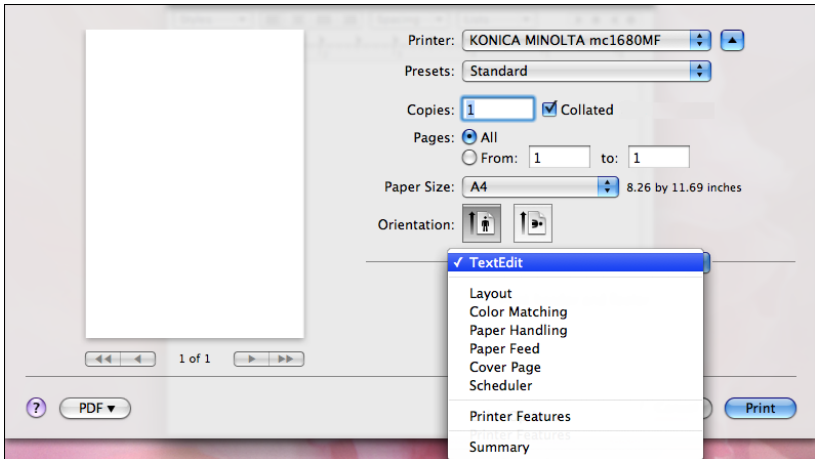
1 Select **Print...** from the **File** menu.

*The **Print** dialog box appears.*

2 Select this printer in the **Printer** pop-up menu.

*The **Print** dialog box is used to specify the following print options.*

Print Dialog Box



Section	Description
Layout	This section contains options for specifying the page layout when printing.
Color Matching	This section contains options for specifying ColorSync settings.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
Paper Feed	This section contains paper feed options.
Cover Page	This section contains options for specifying cover page settings.
Scheduler	This section contains options for specifying the print timing and priority of jobs.

Section	Description
Printer Features	This section contains options for color printing and watermark settings.
Summary	This is used to check the current settings.



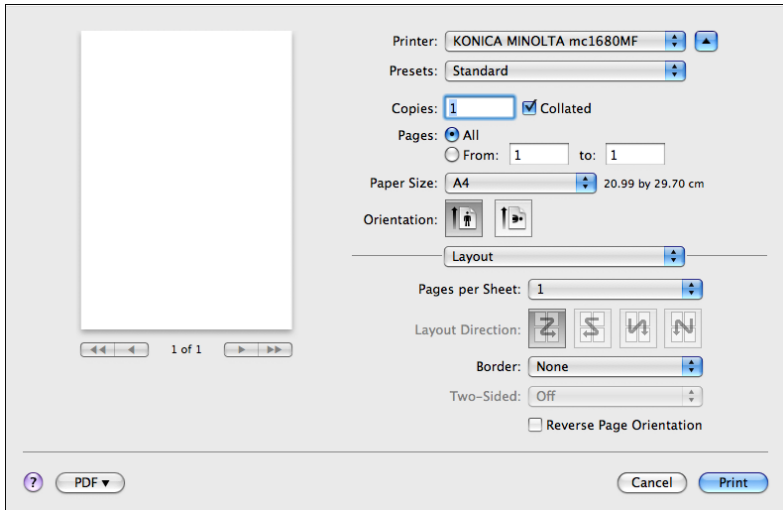
No warning message will be displayed if options cannot be used together are selected.

Common buttons

- ? (Help button)
This displays help information about the Print dialog box.
- PDF
Click this button to select the PDF menu. The print output can be saved as a PDF file or faxed.
- Cancel
Click this button to close the Print dialog box without applying any of the settings.
- Print
Click this button to print using the selected print options.
- Copies
This specifies the number of copies to be printed. If the **Collated** checkbox is selected, all pages in the documents are printed as sets of printouts. For example, if 5 is entered for **Copies** and **Collated** is selected, the document is printed five times from the first page to the last page.
- Pages
All: Prints all pages in the document.
From, to: Specifies the range of pages to be printed.
- Paper Size
Select the desired paper size from the Paper Size pop-up menu.
- Orientation
Select either a vertical or horizontal page orientation for printouts.

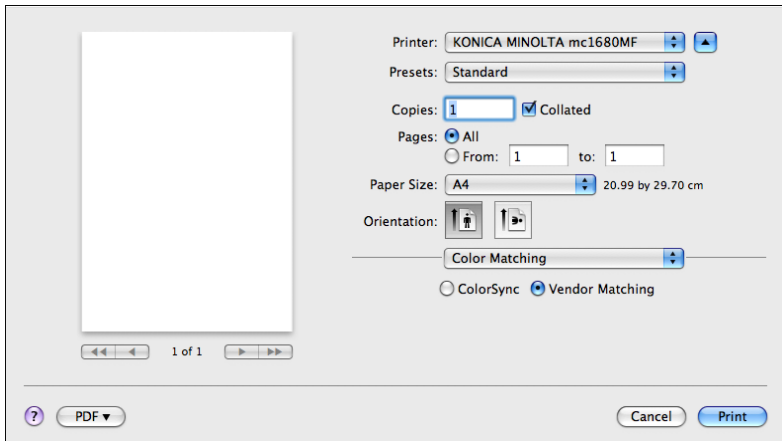
Layout

The **Layout** section is used to specify the page layout when printing.



- **Pages per Sheet**
Specifies the number of pages to be printed on one sheet of paper. For example, if **2** is selected, two pages are printed on one sheet of paper.
- **Layout Direction**
If you are printing more than one page per sheet, this specifies the direction and order the pages should be arranged on each sheet of paper.
- **Border**
This prints a border around the image for each of the pages printed on one sheet of paper when more than one page is printed on one sheet of paper.
- **Two-Sided**
This setting cannot be used with this machine.
- **Reverse Page Orientation**
The printing direction is inverted vertically.

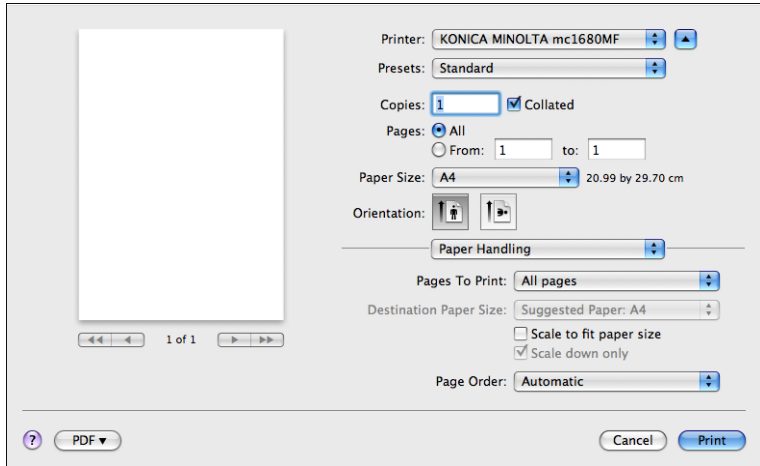
Color Matching



- **Color Matching**
ColorSync: Allows you to select host-based color matching.
Vendor Matching: Allows you to select printer-based color matching.
- **Profile**
Allows you to select ColorSync Profile.

Paper Handling

The **Paper Handling** section is used to specify the pages that are to be printed and the order in which the pages are printed.



■ Pages To Print

All pages: Select this option to print all pages.

Odd Only: Select this option to print only the pages with odd page numbers.

Even Only: Select this option to print only the pages with even page numbers.

■ Destination Paper Size

Select this option to use the document size as created by software applications.

Scale to fit paper size: Select this option to fit the document size to the size of paper used by the printer.

Specify the size of paper used by the printer.

Scale down only: Select this option to reduce the printing size.

■ Page Order

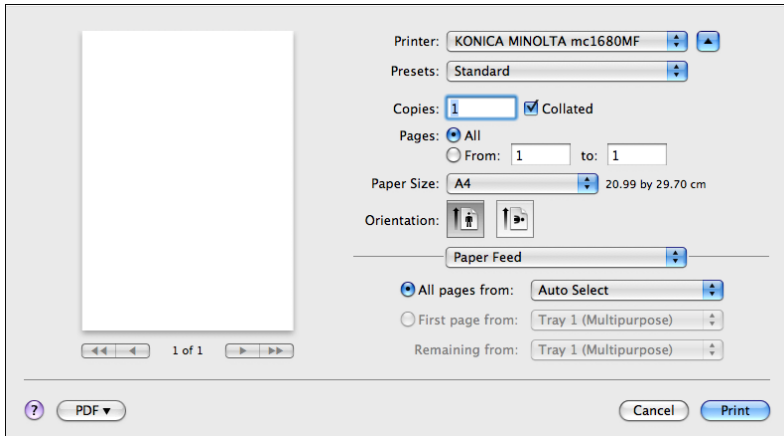
Automatic: Select this option to print in the original page order of the document.

Normal: Select this option to print in the normal page order.

Reverse: Select this option to print in the reverse page order.

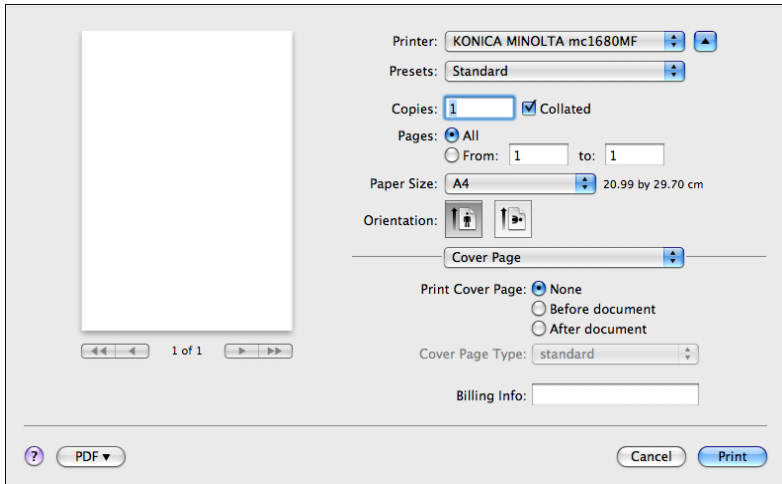
Paper Feed

The **Paper Feed** section is used to specify the paper feed setting.



- **All pages from**
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**
The rest of the document is printed from the specified paper tray when the first page is to be printed on paper from a different tray.

Cover Page



- **Print Cover Page**
Allows you to set cover page before or after document.
- **Cover Page Type**
Allows you to select cover page type.
- **Billing Info**
Allows you to set billing information printed on cover page.

Scheduler

The **Scheduler** section is used to specify the timing and priority for printing jobs.

Printer: KONICA MINOLTA mc1680MF

Presets: Standard

Copies: 1 Collated

Pages: All
 From: 1 to: 1

Paper Size: A4 20.99 by 29.70 cm

Orientation: Portrait Landscape

Scheduler

Print Document: Now
 At 19:08
 On Hold

Priority: Medium

PDF ? Cancel Print

■ Print Document

Now: Select this option to begin printing immediately.

At: Specify the time to begin printing.

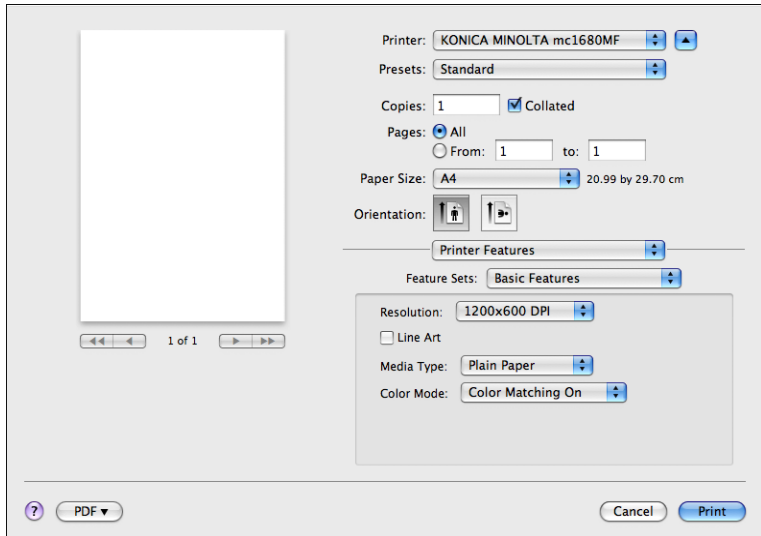
On Hold: Select this option to hold the print job.

■ Priority

Select the priority for printing jobs that are being held.

Printer Features

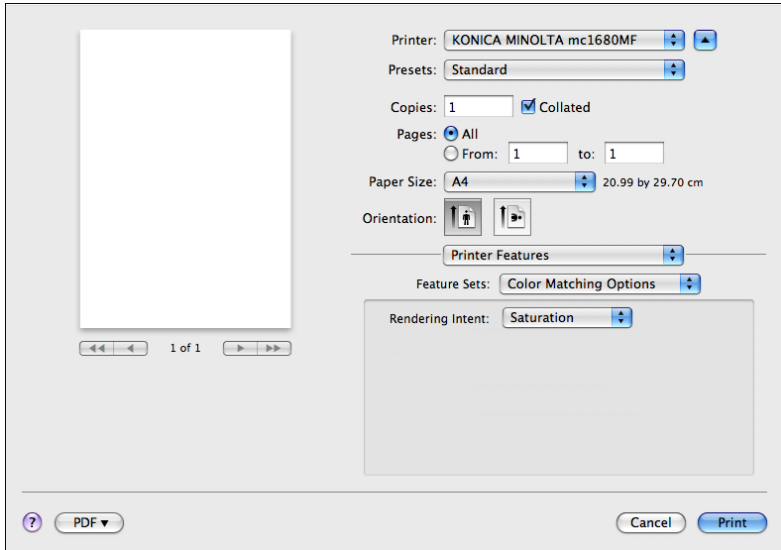
The Printer Features section is used to specify the resolution, paper type, color options, watermark options etc., for the **Basic Features**, **Color Matching Options**, **Image Options**, **Watermark Selection**, **Watermark Orientation**, and **Watermark Setting** feature sets.



Basic Features

- Resolution
This option specifies the resolution to be used when printing a document.
- Line Art
Select this check box to print more detailed pages.
- Media Type
This option specifies the type of paper on which the print image will be printed.
- Color Mode
This option specifies whether the document should be printed in color (Color Matching On/Color Matching Off) or grayscale.

Color Matching Option



■ Rendering Intent

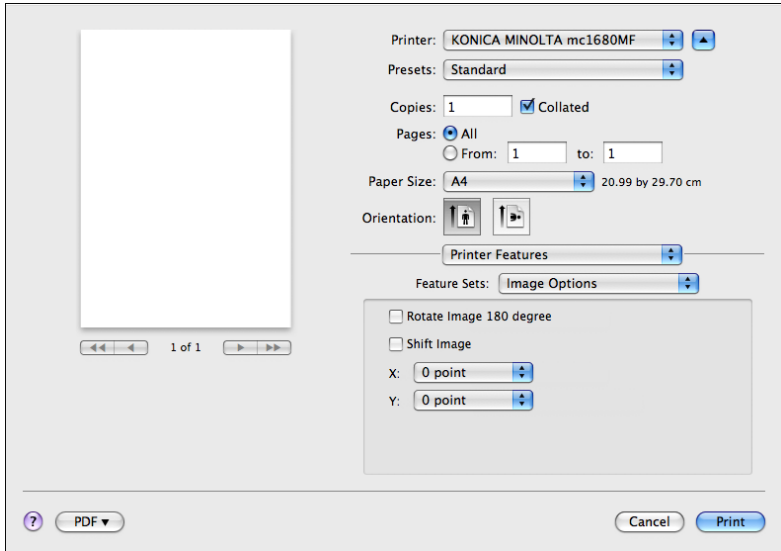
This option specifies the color matching settings.

Perceptual: Performs suitable color matching for photographic images.

Colorimetric: Performs most accurate hue color match, but the printer maybe replace hues it cannot reproduce.

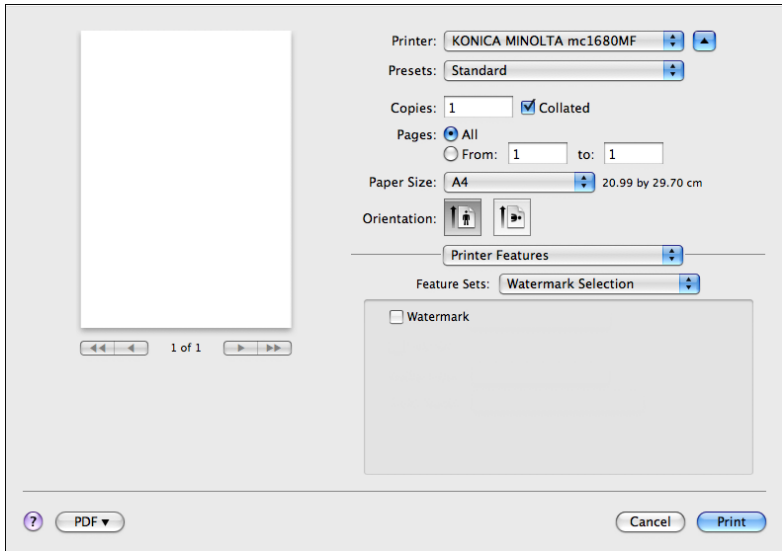
Saturation: Performs suitable color matching for business graphics.

Image Options



- **Rotate Image 180 degree**
Select this check box to print the image rotated 180 degrees.
- **Shift Image**
Select this check box to print the image shifted in the X and Y directions.
X: Select the distance to shift the image in the X direction.
Y: Select the distance to shift the image in the Y direction.

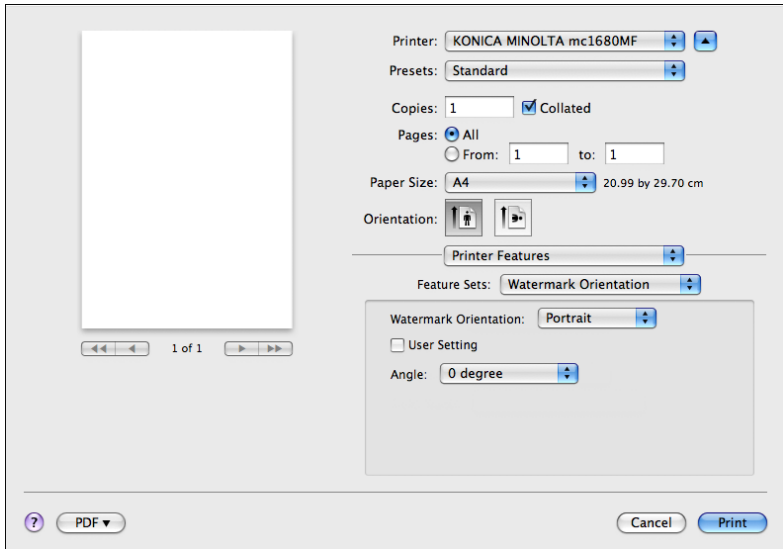
Watermark Selection



■ Watermark

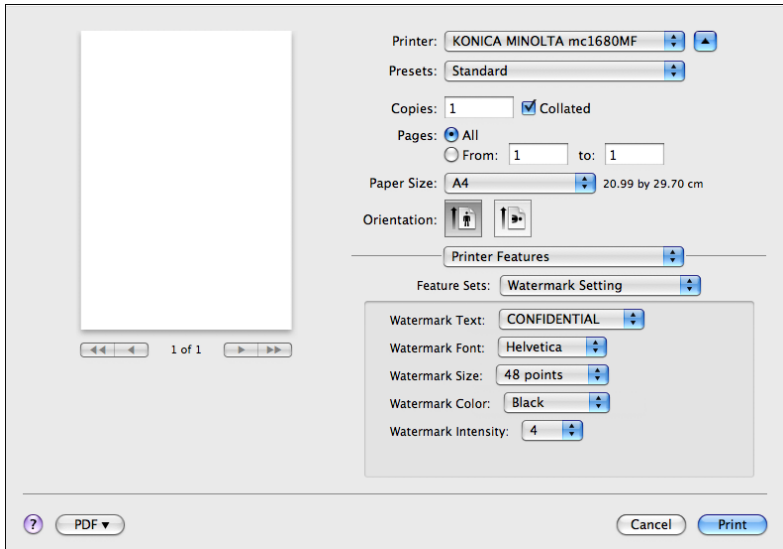
This specifies whether to use a watermark point.

Watermark Orientation



- **Watermark Orientation**
This option specifies the direction of the text in a watermark.
- **User Setting**
Select this check box to select the angel of the watermark.
- **Angle**
Select the angel of the watermark.

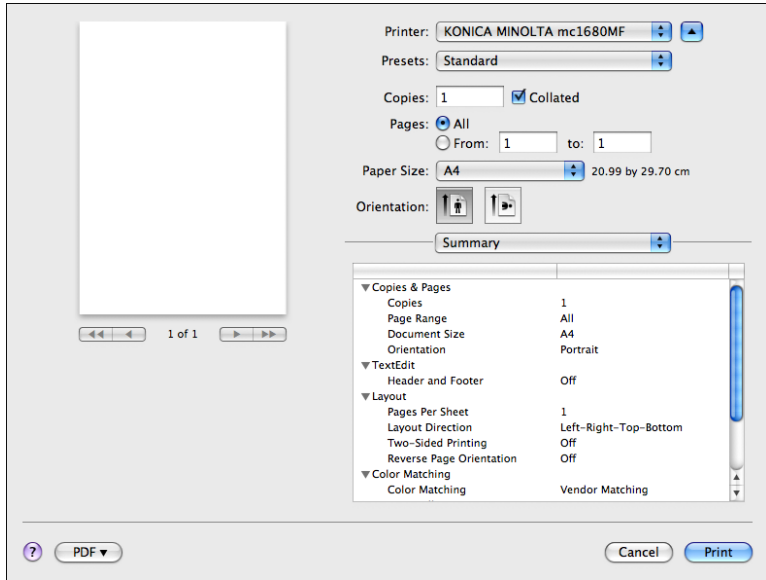
Watermark Setting



- **Watermark Text**
This specifies the text in the watermark.
- **Watermark Font**
This specifies the font to be used for the text in the watermark.
- **Watermark Size**
This specifies the font size to be used for the text in the watermark.
- **Watermark Color**
This specifies the color of the text in the watermark.
- **Watermark Intensity**
This specifies the density of text in the watermark.

Summary

The **Summary** is used to check the currently selected print settings.



System Requirements for the Scanner Driver

Before installing the scanner driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer installed with the following processor: <ul style="list-style-type: none">– PowerPC G3 or later processor (PowerPC G4 or later is recommended)– Intel processor
Connecting the computer and machine	USB connection
Operating system	Mac OS X 10.2.8/10.3/10.4/10.5
RAM	128 MB or more
Available disk space	256 MB or more (for storing images)
Supported languages	English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese, Japanese

Installing the Scanner Driver



You must have administrator privileges in order to install the scanner driver.



Before proceeding with the installation, be sure to exit all running applications.



In the following text, “TWAIN driver” may be used to indicate the scanner driver.

Installing the Scanner Driver



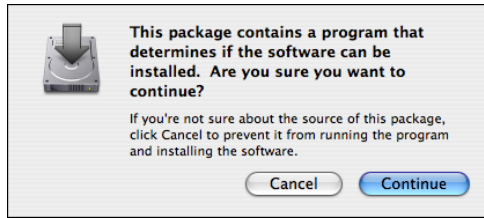
The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 1 Insert the Drivers CD/DVD in the CD/DVD-ROM drive of your Macintosh.
- 2 Double-click the CD icon on the desktop, Mac folder, Scanner Driver folder, and then double-click the **KONICA MINOLTA mc1680MF Scanner.pkg**.

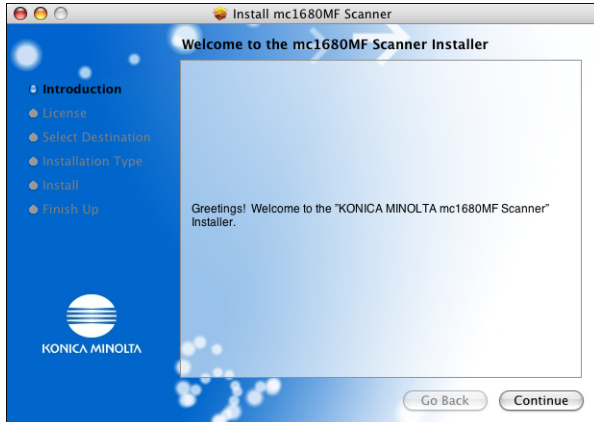


The installer for the scanner driver starts up.

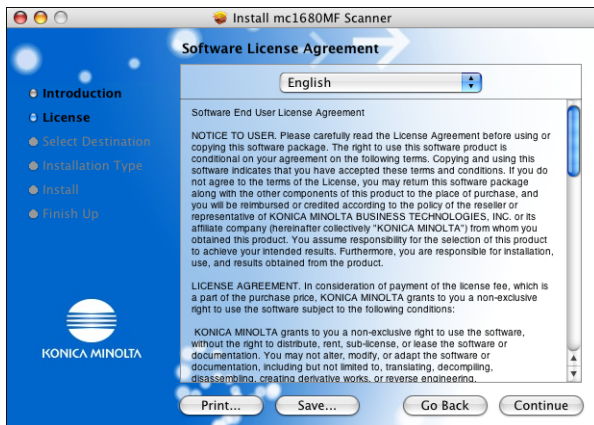
3 Click **Continue**.



4 Click **Continue**.



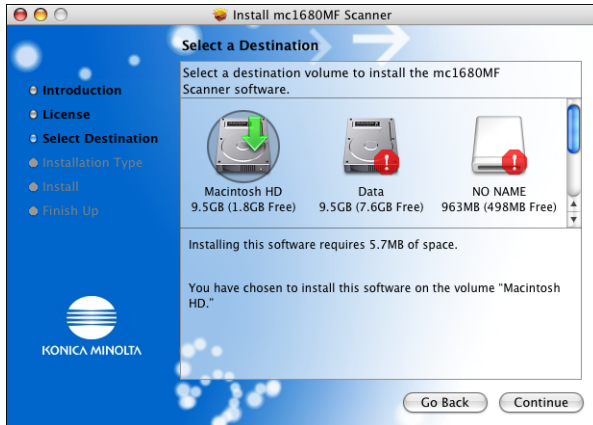
5 Check the details of the license agreement, and then click **Continue**.



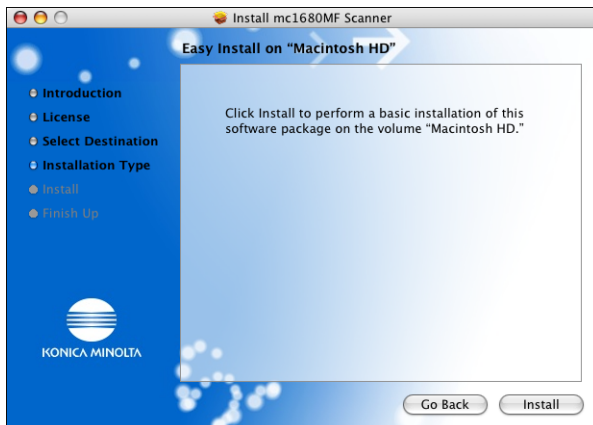
- 6 Click **Agree** in the confirmation dialog box if you agree to the terms of the license.



- 7 In the **Select a Destination** page, select the disk in which you wish to install the software, and then click **Continue**.



- 8 Click **Install** in the **Easy Install** page.

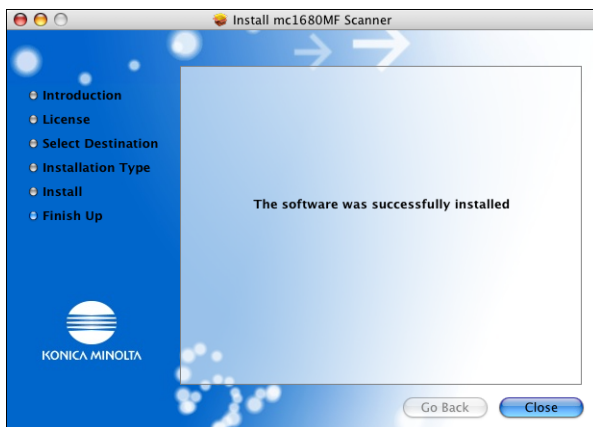


- 9 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



Installation starts.

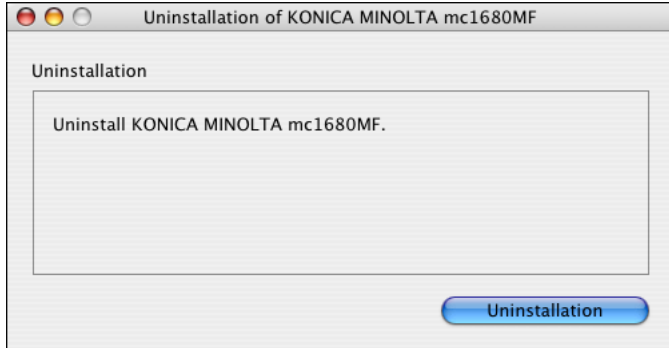
- 10 After the installation has been completed, click **Close**.



This completes the installation of the scanner driver.

Uninstalling the Scanner Driver

- 1 Double-click **KONICA MINOLTA mc1680MF Uninstaller.app**, which can be accessed by clicking Library, then Application Support, KONICA MINOLTA, then mc1680MF.
- 2 Click **Uninstallation**.



- 3 Click **OK**.



- 4 Enter the administrator user name and password, and then click **OK**.



Uninstallation begins.

5 Click **OK**.



This completes the uninstallation of the scanner driver.

Scanning From a Computer Application

Documents can be scanned from a computer connected to this machine with a USB cable. Scanning settings can be specified and the scanning operation can be performed from TWAIN-compatible applications. From the scanner driver, a preview can be displayed and various adjustments, such as the size of the scan area can be specified.

Basic Scanning Operation

- 1 Place the document to be scanned on the original glass.
- 2 Start the application to be used for scanning.
- 3 Start the scanner driver according to the application settings.
- 4 Specify the necessary scanner driver settings.

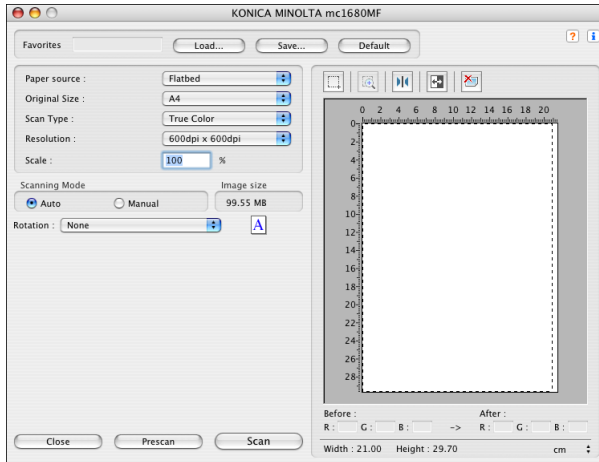


For details on scanner driver setting, refer to “Specify the Scan Settings” on page 1-64.




- 5 Click the **Scan** button in the scanner driver.

Specify the Scan Settings

Auto Scanning Mode



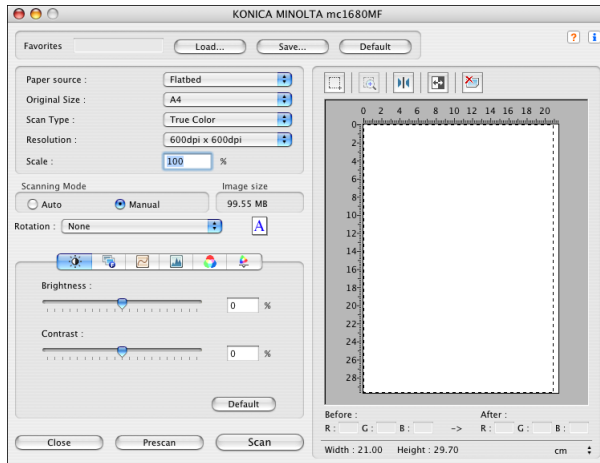
- **Load**
Load a saved settings file (dat file) for scanning.
- **Save**
Save the current settings as a settings file (dat file).
- **Default**
Return all settings to their defaults.
- **Help icon**
Click to display the Help.
- **About icon**
Click to display the software version information.
- **Paper source**
This setting cannot be changed with this machine.
- **Original Size**
Specify the original size.
- **Scan Type**
Specify the scan type.
- **Resolution**
Specify the resolution.

- **Scale**
 Shows the width and height of the area to be scanned.
 -  *If the resolution is set at 1200 × 1200 dpi or higher, a setting larger than 100% cannot be specified.*
- **Scanning Mode**
 Select **Auto** or **Manual**. When **Manual** is selected, settings can be specified for **Brightness/Contrast, Filter, Curves, Levels, Color Balance** and **Hue/Saturation**.
 -  *The parameters that can be set differ depending on the scanning mode that is selected.*
 -  *If **Auto** is selected as the scanning mode, scanning from the original glass is performed after a prescan is performed so that a preview image can be checked.*
- **Image size**
 Shows the data size of the scan image.
- **Rotation**
 The TWAIN driver support 4 kinds of rotation type: None, Right 90, Left 90, 180.
- **Close**
 Click to close the TWAIN driver window.
- **Prescan**
 Displays a preview in the preview window.
- **Scan**
 Click to begin scanning.
- **AutoCrop**
 Selects an area of the scanned image.
- **Zoom**
 Zooms in on the scanned image.
- **Mirror**
 Displays a mirror image of the preview image.
- **Tone Reversal**
 Reverses the colors of the preview image.
- **Clear**
 Erases the preview.
- **Before/After (RGB)**
 Move the pointer in the preview window to display the color tones at the pointer's position before and after adjustments.

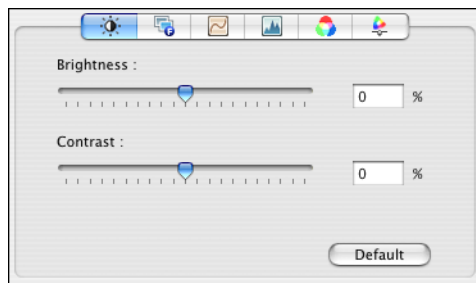
- **Width/Height**
Displays the width and height for the selected area in the selected measurement units.

Manual Scanning Mode

When **Manual** is selected for Scanning Mode, various setting for scanning tone are available.

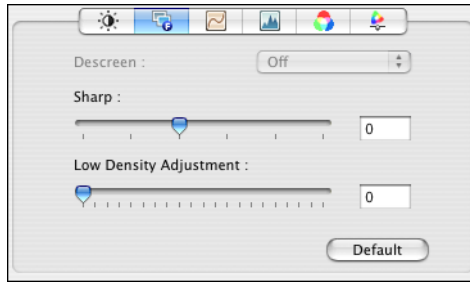


- **Brightness/Contrast**



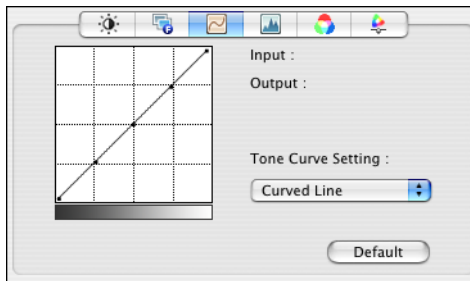
This function is used to set the brightness and contrast of the image.

■ Filter



This function is used to sharpen the image or blur it for special effect.

■ Curves

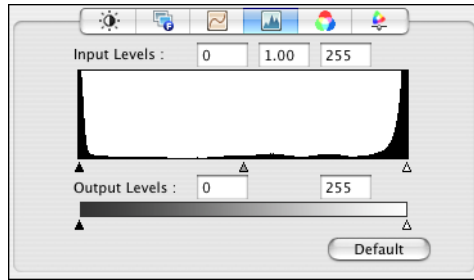


This function is used to set the gamma of the image. In the graph, the X-axis represents the input level, and the Y-axis represents the output level. The selections include, 'Value Input', 'Folded Line', and 'Curved Line'. There are three input controls available: the scroll bar, the editing field, or by directly dragging the points of the folded or curved lines. This function will allow you to brighten or darken the overview of the image without changing the original resolution of the image.



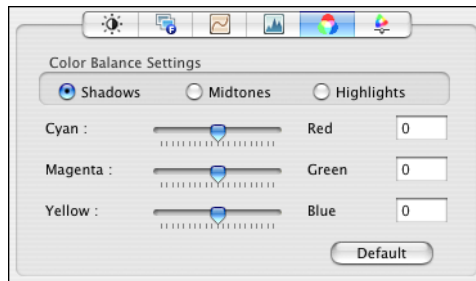
The scroll bar and editing field are displayed when 'Value Input' is selected.

■ Levels



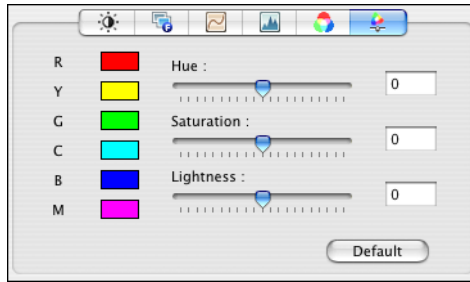
This function is used to set the gamma value, increase shadow and highlight areas, enhance shadow value and reduce highlight value. The X-axis indicates the scaling value and the Y-axis indicates the pixel value. The shadow, gamma and highlight values for the scanned image can be adjusted by dragging the triangular pointer right below the X-axis. Using the output level to adjust the range of brightness.

■ Color Balance



This function is used to fine-tune the RGB values in shadows, midtones, and highlights areas.

■ Hue/Saturation



This function is used to set hue and saturation as well as the lightness of the image.

Troubleshooting

Symptom	Solution
The setting in the saved presets are not applied.	Depending on the functions selected for the printer, some preset settings are not saved.
Media type error appears.	If a media type, such as "Transparency", is specified for Tray 1, a media type error appears and the printer stops. Be sure to specify a media type supported by Tray 1.
The printer stops responding.	Depending on the operating system, some paper size and paper type combinations are not permitted. If the job was sent with an incorrect combination of settings, the printer stops responding. Be sure to print with the correct combination of paper size and paper type settings.
Checking the version number of the printer driver.	<ul style="list-style-type: none"> ■ For Mac OS X 10.4: Select the printer from Printer Setup Utility, and then click Show Info in the Printers menu. In the pop-up menu of the Printer Info dialog box, select Name & Location. ■ For Mac OS X 10.5: Select the printer from Print & Fax, and then click Options & Supplies. Click General tab.
The dialog box may appear unusual when selecting other manufacturer printer and back to magicolor.	Close the Print dialog box, and then open it again.
The custom paper size is different from the size that was set.	Depending on the operating system, the custom paper size settings may change slightly due to OS round off errors in unit conversion (for example, 5.80" may change to 5.79").
When printing 2 pages on a single sheet of paper, the pages are not centered on the paper.	<p>Depending on the operating system, the pages are not centered on the paper when printing two pages on a single sheet of paper with the following paper sizes.</p> <p>Legal, Letter Plus, Foolscap, Government Legal, Statement, Folio</p>

Symptom	Solution
When printing multiple copies of multiple pages on a single sheet of paper with Collated selected, the pages are printed continuously.	When printing multiple copies of multiple pages on a single sheet of paper, Collated cannot be selected.
While printing from Acrobat Reader, the pages are not correctly collated or the print job is cancelled.	If a printing error occurs with Acrobat Reader, print using the preview feature provided by the operating system.
When using Mac OS X 10.5, constraint processing is not applied during printing if certain settings have been specified.	This is a limitation of the operating system. Check the Apple database.
When Mac OS X 10.4 is used to send a job with a custom paper size that has a width of 21.6 cm, Letter-size paper is requested.	Change the width of the custom paper size to 21.59 cm, and then try sending the job again.
The output begins on the first page when the paper is removed after OUTPUT TRAY FULL REMOVE PAPER is displayed while printing a large amount of page.	There is a limitation of the operating system. Removing the paper of output tray before the error message displays, avoids this problem.

Using LinkMagic

2



About LinkMagic

By installing LinkMagic on a computer connected to this machine, the following operations can be performed from the computer.

- Saving scanned images as files
- Saving scanned images to the Clipboard
- Attaching scanned images to an E-mail message
- Printing scanned images
- Registering frequently used software

LinkMagic Operating Environment



In the following text, "TWAIN driver" may be used to indicate the scanner driver.

The following environment is required in order to install LinkMagic onto a computer.

Item	Operating Environment
Operating System	Windows 2000 Professional (SP4 or later) Windows 2000 Server (SP3 or later) Windows XP Home Edition (SP2 or later) Windows XP Professional for 32 bit/64 bit (SP2 or later) Windows Server 2003 Standard Edition for 32 bit/64 bit (SP2 or later) Windows Vista for 32 bit/64 bit
Compatible E-mail Applications	Microsoft Outlook Express ver.6.0 Microsoft Outlook 2000/2003/XP/2007 EUDORA 7.0.1 Netscape Messenger 7.1 Windows Mail ver.6.0 Lotus Notes Client 7.0.2/8
Supported languages	English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese, Japanese



The printer driver for this machine and the TWAIN driver must be installed on the computer.

Before Using LinkMagic

Before using LinkMagic, connect the machine to the computer with the USB cable, and then install LinkMagic on the computer.

- 1 Use the USB cable to connect this machine to the computer.
- 2 Install the TWAIN driver and printer driver included with the machine.
- 3 Install LinkMagic onto the computer.



For details on the installation procedure, refer to “Installing LinkMagic” on page 2-3.

Installing LinkMagic



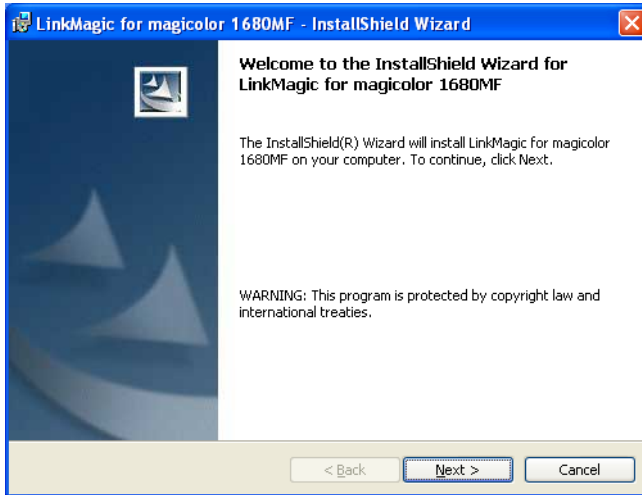
You must have administrator privileges in order to install the LinkMagic.



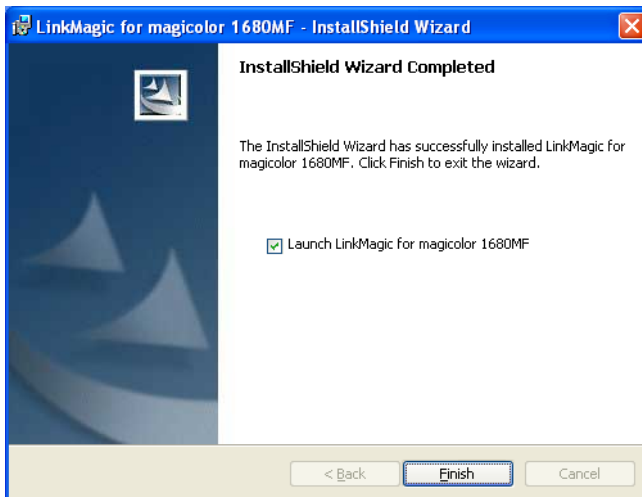
*If the User Account Control window appears when installing on Windows Vista, click the **Allow** button or the **Continue** button.*

- 1 Insert Applications CD/DVD in your CD/DVD-ROM drive.
- 2 Select the language.
- 3 From the Application Setup dialog, select “LinkMagic”, and then click “Install”.
The installer starts up.

- 4 Click the **Next** button, and then follow the on-screen instructions.



- 5 When a message appears, indicating that the installation of LinkMagic is finished, click the **Finish** button.



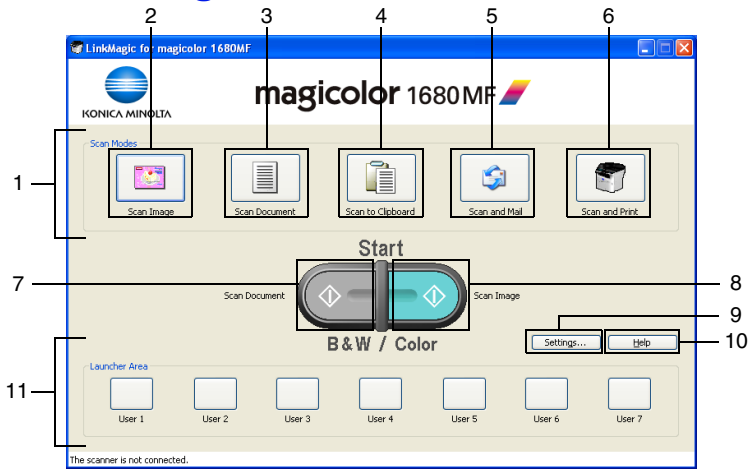
The installation of LinkMagic is completed.

Starting Up LinkMagic

LinkMagic can be set to automatically start up when the computer starts up. When LinkMagic is running, the following icon appears in the taskbar of the computer.



Main LinkMagic Window



No.	Name	Description
1	“Scan Modes” group box	This group box contains buttons programmed with various LinkMagic functions.
2	Scan Image button	Click this button to save the image scanned with the machine as a file on the computer. In addition, clicking this button starts the previously specified software. Clicking this button displays the Scan Image dialog box. (=>“Saving Scanned Images as Files” on page 2-8)
3	Scan Document button	Click this button to save the image scanned with the machine as a file on the computer. In addition, clicking this button starts the previously specified software. Clicking this button displays the Scan Document dialog box. (=>“Saving Scanned Images as Files” on page 2-8)
4	Scan to Clipboard button	Click this button to save the image scanned with the machine to the computer Clipboard. Clicking this button displays the Scan to Clipboard dialog box. (=>“Saving Scanned Images to the Clipboard” on page 2-13)

No.	Name	Description
5	Scan and Mail button	<p>Click this button to save the image scanned with the machine as a file on the computer, and attach it to an E-mail message.</p> <p>Clicking this button displays the Scan and Mail dialog box. (=>"Attaching Scanned Images to an E-Mail Message" on page 2-18)</p>
6	Scan and Print button	<p>Click this button to print from a printer the image scanned with the machine.</p> <p>Clicking this button displays the Scan and Print dialog box. (=>"Printing Scanned Images" on page 2-25)</p>
7	Link to Start—B&W key	<p>A function from the "Scan Modes" group box can be assigned to the Start—B&W key.</p> <p>Pressing the Start—B&W key on the machine performs the assigned function.</p>
8	Link to Start—Color key	<p>A function from the "Scan Modes" group box can be assigned to the Start—Color key.</p> <p>Pressing the Start—Color key on the machine performs the assigned function.</p>
9	Settings button	<p>Clicking this button displays the Settings dialog box.</p> <p>(=>"Settings Dialog Box" on page 2-32)</p>
10	Help button	<p>Clicking this button displays the Help.</p>
11	Launcher Area	<p>Frequently used software can be registered.</p> <p>Clicking this button starts the registered software.</p> <p>(=>"Registering Frequently Used Software" on page 2-30)</p>

Using LinkMagic

Saving Scanned Images as Files

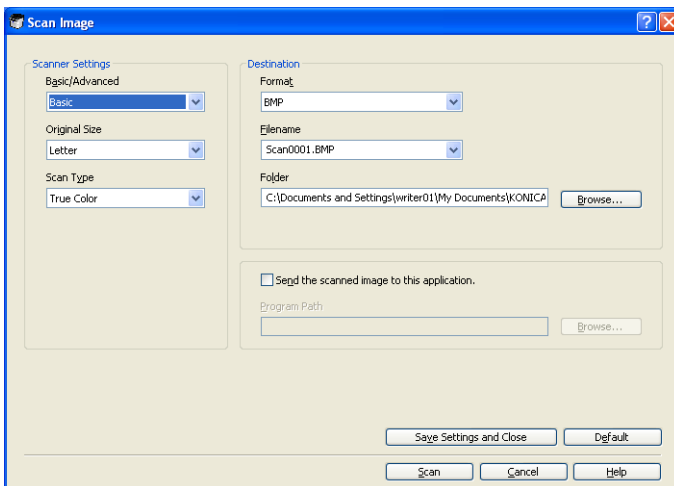
An image scanned with the machine can be saved as a file on the computer. In addition, the previously specified software can be started.



For details on the settings available in the Scan Image dialog box and the Scan Document dialog box, refer to “Description of the Scan Image/Scan Document Dialog Boxes” on page 2-9.

- 1 In the “Scan Modes” group box of the main window, click the **Scan Image** or **Scan Document** button.

The Scan Image or Scan Document dialog box appears.



- 2 From the “Basic/Advanced” list in the “Scanner Settings” group box, select the general scan setting.

- If “Basic” is selected, scans will be produced with the basic settings. In the “Scanner Settings” group box, select the document size from the “Original Size” list, the document color type from the “Scan Type” list.

- If “Advanced” is selected, specify detailed settings from the TWAIN driver dialog box that appears.



For details on the available TWAIN driver settings, refer to the Printer/Copier/Scanner User’s Guide on the Documentation CD/DVD.

- 3 In the “Destination” group box, specify the settings for saving the scanned image.



When “Advanced” is selected, the TWAIN driver starts up. However, clicking the Scan Image or Scan Document dialog box allows the settings in the “Destination” group box to be changed.

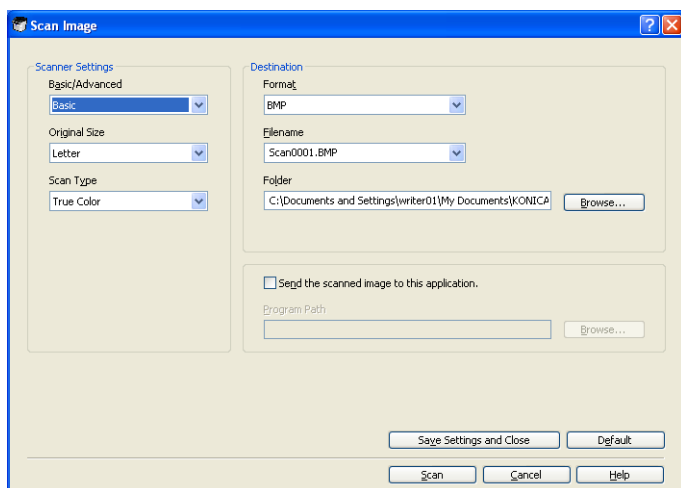
- 4 To start up software and display the scanned image after the image is scanned, select the “Send the scanned image to this application.” check box, and then specify the software to be started up.





Specify software compatible with the file format selected in the “Format” list.

- 5 Click the **Scan** button.
Scanning begins, and the image is saved in the specified location.

Description of the Scan Image/Scan Document Dialog Boxes



Name	Description
"Scanner Settings" group box	Select the settings for scanning the image.
"Basic/Advanced" list	<p>Select the general scan setting.</p> <p>If "Basic" is selected, specify basic settings from the "Original Size" and "Scan Type" lists.</p> <p>If "Advanced" is selected, detailed settings can be specified from the TWAIN driver dialog box that appears.</p> <p>The resolution is 300 dpi when "Basic" is selected.</p> <p>Choices: Basic, Advanced</p> <p>Default: Basic</p>
"Original Size" list	<p>Select the size of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p>If "Custom Size" is selected, a new paper size setting can be added from the Custom Size Settings dialog box that appears.</p> <ul style="list-style-type: none"> ■ Choices <ul style="list-style-type: none"> A4, B5, A5, Letter, Custom Size Default: Letter (English), A4 (except English) ■ Custom Size Settings <ul style="list-style-type: none"> Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 297 mm (0.5 - 11.60 in) Unit: mm, in
"Scan Type" list	<p>Select the color type of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p>Choices: B/W, Gray, True Color</p> <p>Default: True color with Scan Image, B/W with Scan Document</p>

Name	Description
"Destination" group box	Select the settings for saving scanned images.
"Format" list	<p>Select the file format for saving the scanned image.</p> <p>Choices: BMP, JPEG, PDF, TIFF</p> <p>Default: BMP</p> <p>The scanned image can be saved in the BMP, PDF or TIFF file format up to 4 GB per file.</p> <p>The scanned image can be saved in the JPEG file format up to 65535 pixel (length) x 65535 pixel (width) per file.</p>
"Filename" list	<p>Specify the number to be added to the file name for the scanned image to be saved.</p> <p>Even if a new file name has been specified, file names that have been used can also be selected from the list.</p> <p> <i>If there are no numbers at the end of the specified file name, "0001" is automatically added.</i></p> <p> <i>If the extension of a file format compatible with LinkMagic is added to the specified file name, the extension of a file is automatically saved in that file format.</i></p> <p>Range: Up to 255 characters</p> <p>Default: "Scan0001"+ extension</p>

Name	Description
<p>“Folder” text box</p>	<p>Specify the name of the folder where the scanned image is to be saved.</p> <p>To display the Browse for Folder dialog box in order to browse to a folder on the computer, click the Browse button.</p> <p>Range: Up to 255 characters</p> <p>Default: (For Windows XP/Server 2003/2000) \Documents and Settings\[Login user name] \My Documents\KONICA MINOLTA\LinkMagic for magicolor 1680MF\MyData</p> <p>(For Windows Vista) \Users\[Login user name]\Documents\KONICA MINOLTA\LinkMagic for magicolor 1680MF\MyData</p>
<p>“Send the scanned image to this application.” check box</p>	<p>Select this check box to start up the specified software and open the scanned image file after the image is scanned.</p> <p>Default: Unchecked</p>
<p>“Program Path” text box</p>	<p>Specify the software to be used to open the scanned image.</p> <p>To browse to software on the computer, click the Browse button.</p> <p>Range: Up to 259 characters</p> <p>Default: [Blank]</p>
<p>Save Settings and Close button</p>	<p>Click this button to save the current settings and close this dialog box.</p>
<p>Default button</p>	<p>Click this button to return all dialog box items to their default settings.</p>
<p>Scan button</p>	<p>Click this button after selecting “Basic” in the “Basic/Advanced” list to begin scanning the image.</p>
<p>Cancel button</p>	<p>Click this button to close this dialog box without saving the changes to the settings.</p>
<p>Help button</p>	<p>Click this button to display the Help.</p>

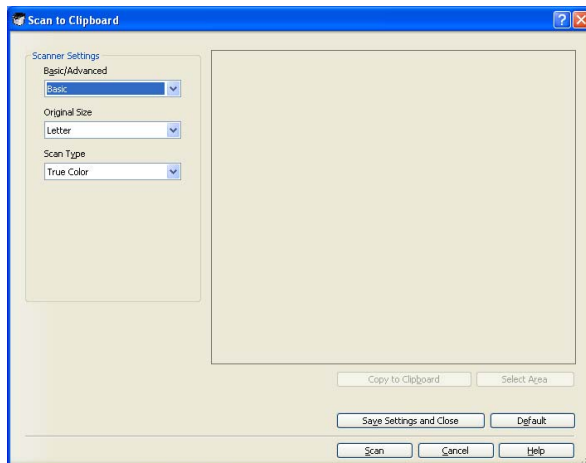
Saving Scanned Images to the Clipboard

An image scanned with the machine can be copied to the Clipboard.
In addition, the area to be copied to the Clipboard can be selected.



For details on the settings available in the Scan to Clipboard dialog box, refer to “Description of the Scan to Clipboard Dialog Box” on page 2-15.

- 1 In the “Scan Modes” group box of the main window, click the **Scan to Clipboard** button.
The Scan to Clipboard dialog box appears.

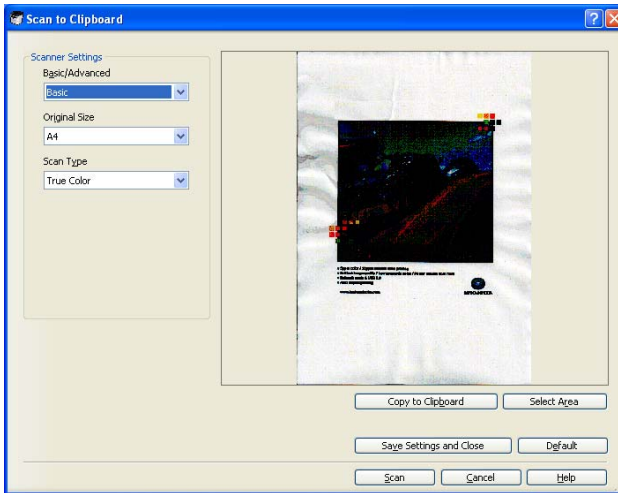


- 2 From the “Basic/Advanced” list in the “Scanner Settings” group box, select the general scan setting.
 - If “Basic” is selected, scans will be produced with the basic settings. In the “Scanner Settings” group box, select the document size from the “Original Size” list and the document color type from the “Scan Type” list.
 - If “Advanced” is selected, specify detailed settings from the TWAIN driver dialog box that appears.



For details on the available TWAIN driver settings, refer to the Printer/Copier/Scanner User’s Guide on the Documentation CD/DVD.

- 3 Click the **Scan** button.
Scanning begins, and the image is displayed on the right side of the dialog box.



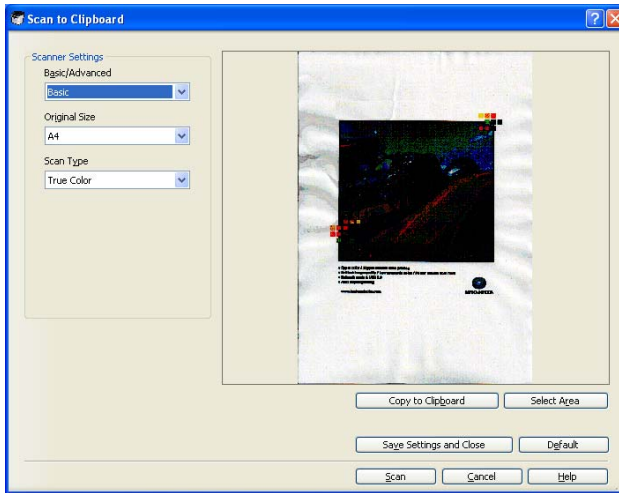
- 4 To select the area of the image to be copied, click the **Select Area** button, and then drag the pointer to select the area to be copied.





To cancel selection of the selected area, click the **Delete Selection** button.

- 5 Click the **Copy to Clipboard** button.
The scanned image is copied to the Clipboard.

Description of the Scan to Clipboard Dialog Box



Name	Description
"Scanner Settings" group box	Select the settings for scanning the image.
"Basic/Advanced" list	<p>Select the general scan setting.</p> <p>If "Basic" is selected, specify basic settings from the "Original Size" and "Scan Type" lists.</p> <p>If "Advanced" is selected, detailed settings can be specified from the TWAIN driver dialog box that appears.</p> <p> <i>The resolution is 150 dpi when "Basic" is selected.</i></p> <p>Choices: Basic, Advanced</p> <p>Default: Basic</p> <p> <i>If "Advanced" is selected, an image up to 4 GB can be scanned (depends on the memory capacity of PC). The approximate image size can be checked from the TWAIN driver. The maximum scanning size differs depending on the amount of memory available on the computer.</i></p>

Name	Description
	<p data-bbox="272 121 473 148">"Original Size" list</p> <p data-bbox="484 121 1002 209">Select the size of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="484 225 1002 312">If "Custom Size" is selected, a new paper size setting can be added from the Custom Size Setting dialog box that appears.</p> <ul style="list-style-type: none"> <li data-bbox="484 328 1002 432">■ Choices A4, B5, A5, Letter, Custom Size Default: Letter (English), A4 (except English) <li data-bbox="484 448 1002 563">■ Custom Size Settings Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 297 mm (0.5 - 11.60 in) Unit: mm, in
	<p data-bbox="272 579 473 606">"Scan Type" list</p> <p data-bbox="484 579 1002 667">Select the color type of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="484 683 1002 754">Choices: B/W, Gray, True Color Default: True Color</p>
Preview area	The scanned image appears on the right side of the dialog box.
Copy to Clipboard button	<p data-bbox="484 842 1002 898">Click this button to copy the image displayed in the preview area to the Clipboard.</p> <p data-bbox="484 914 1002 938">If an area was selected, only that area is copied.</p>
Select Area button/ Delete Selection button	<p data-bbox="484 954 1002 1010">To select the area to be copied from the preview area, click the Select Area button.</p> <p data-bbox="484 1026 1002 1082">When the Select Area button is clicked, it changes to the Delete Selection button.</p> <p data-bbox="484 1098 1002 1153">To cancel the selection, click the Delete Selection button again.</p>
Save Settings and Close button	Click this button to save the current settings and close this dialog box.
Default button	Click this button to return all dialog box items to their default settings.
Scan button	Click this button after selecting "Basic" in the "Basic/Advanced" list to begin scanning the image.

Name	Description
Cancel button	Click this button to close this dialog box without saving the changes to the settings.
Help button	Click this button to display the Help.

Attaching Scanned Images to an E-Mail Message

An image scanned with the machine can be saved as a file on the computer, and attached to an E-mail message.



This operation is compatible with the following E-mail applications.

- Microsoft Outlook Express ver.6.0
- Microsoft Outlook 2000/2003/XP/2007
- EUDORA 7.0.1
- Netscape Messenger 7.1
- Windows Mail ver.6.0
- Lotus Notes Client 7.0.2/8



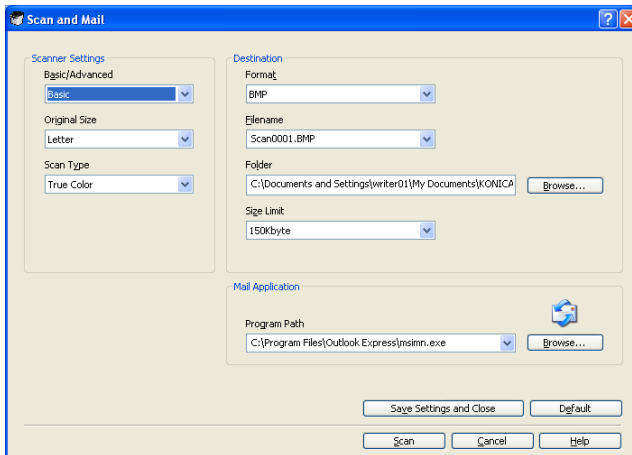
With one operation, only one file can be attached to an E-mail message.



For details on the settings available in the Scan and Mail dialog box, refer to "Description of the Scan and Mail Dialog Box" on page 2-20.

- 1 In the "Scan Modes" group box of the main window, click the **Scan and Mail** button.

The Scan and Mail dialog box appears.



- 2 From the “Basic/Advanced” list in the “Scanner Settings” group box, select the general scan setting.
- If “Basic” is selected, scans will be produced with the basic settings. In the “Scanner Settings” group box, select the document size from the “Original Size” list and the document color type from the “Scan Type” list.
 - If “Advanced” is selected, specify detailed settings from the TWAIN driver dialog box that appears.



For details on the available TWAIN driver settings, refer to the *Printer/Copier/Scanner User’s Guide on the Documentation CD/DVD*.

- 3 In the “Destination” group box, specify the settings for saving the scanned image.



When “Advanced” is selected, the TWAIN driver starts up. However, clicking the Scan and Mail dialog box allows the settings in the “Destination” group box to be changed.

- 4 From the “Size Limit” list, select the limit for the size of images to be attached to E-mail messages.

- 5 In the “Mail Application” group box, specify the application to be used for sending the message with the image attached.



Check that the application automatically selected in the “Mail Application” group box is the E-mail application that is normally used.

- 6 Click the **Scan** button.

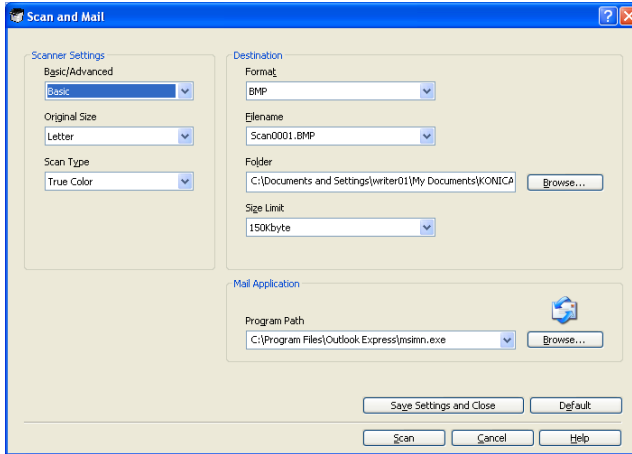
Scanning begins, and a new E-mail message is created with the scanned image attached.






If the size of the scanned image file is larger than the size specified with “Size Limit”, a message appears, warning that the file is too large. Select whether to rescan the image in Advanced mode or to send it as it is.



- 7 Type in the message subject and body text, and then send the E-mail message.




Description of the Scan and Mail Dialog Box



Name	Description
"Scanner Settings" group box	Select the settings for scanning the image.
"Basic/Advanced" list	<p>Select the general scan setting.</p> <p>If "Basic" is selected, specify basic settings from the "Original Size" and "Scan Type" lists.</p> <p>If "Advanced" is selected, detailed settings can be specified from the TWAIN driver dialog box that appears.</p> <p> <i>The resolution is 150 dpi when "Basic" is selected.</i></p> <p> <i>The resolution changes automatically according to the size specified with "Size Limit".</i></p> <p>Choices: Basic, Advanced</p> <p>Default: Basic</p> <p> <i>If "Advanced" is selected, an image up to 126,000 KB can be scanned. The approximate image size can be checked from the TWAIN driver.</i></p>

Name	Description
	<p data-bbox="277 124 468 148">"Original Size" list</p> <p data-bbox="490 124 996 207">Select the size of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="490 231 996 314">If "Custom Size" is selected, a new paper size setting can be added from the Custom Size Setting dialog box that appears.</p> <ul style="list-style-type: none"> <li data-bbox="490 335 996 435"> <p>■ Choices</p> <p>A4, B5, A5, Letter, Custom Size</p> <p>Default: Letter (English), A4 (except English)</p> <li data-bbox="490 454 996 566"> <p>■ Custom Size Settings</p> <p>Width: 13 - 215 mm (0.5 - 8.50 in)</p> <p>Height: 13 - 297 mm (0.5 - 11.60 in)</p> <p>Unit: mm, in</p>
	<p data-bbox="277 582 468 606">"Scan Type" list</p> <p data-bbox="490 582 996 665">Select the color type of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="490 689 823 713">Choices: B/W, Gray, True Color</p> <p data-bbox="490 737 692 761">Default: True Color</p>
<p data-bbox="215 770 473 794">"Destination" group box</p> <p data-bbox="490 770 988 794">Select the settings for saving scanned images.</p>	
	<p data-bbox="277 809 408 833">"Format" list</p> <p data-bbox="490 809 960 833">Select the file format for the scanned image.</p> <p data-bbox="490 857 834 880">Choices: BMP, JPEG, PDF, TIFF</p> <p data-bbox="490 904 632 928">Default: BMP</p>

Name	Description
<p>“Filename” list</p>	<p>Specify the number to be added to the file name for the scanned image to be saved.</p> <p>Even if a new file name has been specified, file names that have been used can also be selected from the list.</p> <p> <i>If there are no numbers at the end of the specified file name, “0001” is automatically added.</i></p> <p> <i>If the extension of a file format compatible with LinkMagic is added to the specified file name, the file is automatically saved in that file format.</i></p> <p>Range: Up to 255 characters Default: “Scan0001”+ extension</p>
<p>“Folder” text box</p>	<p>Specify the name of the folder where the scanned image is to be saved.</p> <p>To display the Browse for Folder dialog box in order to browse to a folder on the computer, click the Browse button.</p> <p>Range: Up to 255 characters Default: (For Windows XP/Server 2003/2000) \Documents and Settings\[Login user name] \My Documents\KONICA MINOLTA\LinkMagic for magicolor 1680MF\MyData (For Windows Vista) \Users\[Login user name]\Documents\KONICA MINOLTA\LinkMagic for magicolor 1680MF\MyData</p>

Name	Description
<p>“Size Limit” list</p>	<p>Select the limit for the file size of images to be attached to E-mail messages.</p> <p>If “Custom” is selected, a new size limit setting can be added from the Custom Size Settings [Size Limit] dialog box that appears.</p> <p> <i>If “Basic” is selected in the “Basic/Advanced” list, the resolution is automatically reduced so that the size of the image file does not exceed the size limit specified here.</i></p> <p>Choices: 75Kbyte, 150Kbyte, 500Kbyte, 1Mbyte, 3Mbyte, None, Custom</p> <p>Default: 150Kbyte</p> <p>If “Custom” is selected, a setting between 75 KB and 10,240 KB (10 MB) can be specified.</p>
<p>“Mail Application” group box</p>	<p>Specify the E-mail application used for attaching the image.</p>
<p>“Program Path” list</p>	<p>Select the E-mail application from the list.</p> <p>E-mail applications installed on the computer are automatically searched for and added to the list.</p> <p>To browse to software on the computer, click the Browse button.</p> <p> <i>An E-mail application bundled with Windows is automatically selected. In addition, 32-bit applications are given priority during detection.</i></p> <p> <i>To use a 64-bit E-mail application as the Windows-bundled software, start up the E-mail application to be used before performing the Scan and Mail operation.</i></p> <p>Range: Up to 259 characters</p> <p>Default: First E-mail application that was found</p>
<p>Save Settings and Close button</p>	<p>Click this button to save the current settings and close this dialog box.</p>

Name	Description
Default button	Click this button to return all dialog box items to their default settings.
Scan button	Click this button after selecting “Basic” in the “Basic/Advanced” list to begin scanning the image.
Cancel button	Click this button to close this dialog box without saving the changes to the settings.
Help button	Click this button to display the Help.

Printing Scanned Images

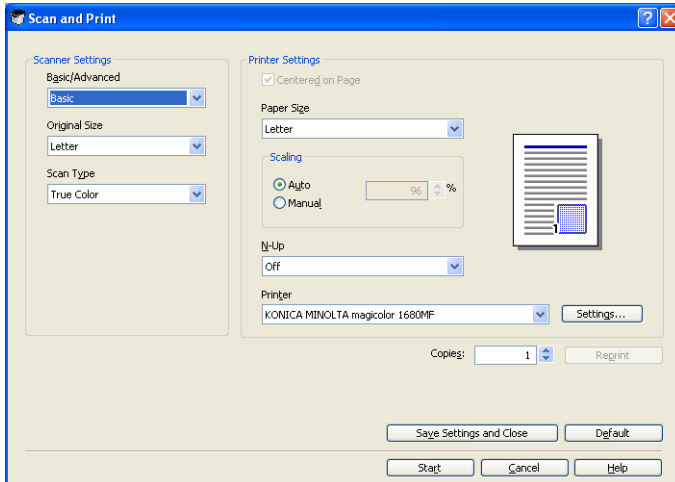
An image scanned with the machine can be printed from a printer.



For details on the settings available in the Scan and Print dialog box, refer to “Description of the Scan and Print Dialog Box” on page 2-26.

- 1 In the “Scan Modes” group box of the main window, click the **Scan and Print** button.

The Scan and Print dialog box appears.



- 2 From the “Basic/Advanced” list in the “Scanner Settings” group box, select the general scan setting.

- If “Basic” is selected, scans will be produced with the basic settings. In the “Scanner Settings” group box, select the document size from the “Original Size” list and the document color type from the “Scan Type” list.
- If “Advanced” is selected, specify detailed settings from the TWAIN driver dialog box that appears.



For details on the available TWAIN driver settings, refer to the Printer/Copier/Scanner User’s Guide on the Documentation CD/DVD.

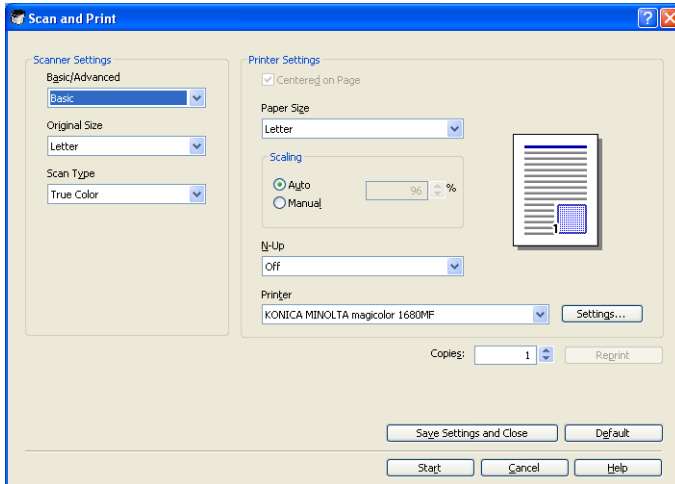
- 3 In the “Printer Settings” group box, specify the settings for printing the scanned image.






When “Advanced” is selected, the TWAIN driver starts up. However, clicking the Scan and Print dialog box allows the settings in the “Printer Settings” group box to be changed.





- 4 Click the **Start** button.
Scanning begins, and the image is printed from the specified printer.

Description of the Scan and Print Dialog Box



Name	Description
"Scanner Settings" group box	Select the settings for scanning the image.
"Basic/Advanced" list	<p>Select the general scan setting.</p> <p>If "Basic" is selected, specify basic settings from the "Original Size" and "Scan Type" lists.</p> <p>If "Advanced" is selected, detailed settings can be specified from the TWAIN driver dialog box that appears.</p> <p> <i>The resolution is 300 dpi when "Basic" is selected.</i></p> <p>Choices: Basic, Advanced</p> <p>Default: Basic</p> <p> <i>If "Advanced" is selected, an image up to 1,760,000 KB can be scanned. The approximate image size can be checked from the TWAIN driver.</i></p>

Name	Description
	<p data-bbox="277 124 468 148">"Original Size" list</p> <p data-bbox="490 124 997 209">Select the size of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="490 229 997 314">If "Custom Size" is selected, a new paper size setting can be added from the Custom Size Setting dialog box that appears.</p> <ul style="list-style-type: none"> <li data-bbox="490 333 997 432">■ Choices A4, B5, A5, Letter, Custom Size Default: Letter (English), A4 (except English) <li data-bbox="490 453 997 563">■ Custom Size Settings Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 297 mm (0.5 - 11.60 in) Unit: mm, in
	<p data-bbox="277 579 468 603">"Scan Type" list</p> <p data-bbox="490 579 997 663">Select the color type of the document. These settings are available when "Basic" is selected in the "Basic/Advanced" list.</p> <p data-bbox="490 684 824 708">Choices: B/W, Gray, True Color</p> <p data-bbox="490 729 692 753">Default: True Color</p>
"Printer Settings" group box	Specify the settings for printing the scanned image.
	<p data-bbox="277 842 468 898">"Centered on Page" check box</p> <p data-bbox="490 842 997 927">If this check box is selected while "Manual" is selected below "Scaling", the image will be printed at the center of the printable area.</p> <p data-bbox="490 948 675 971">Default: Checked</p>
	<p data-bbox="277 986 468 1010">"Paper Size" list</p> <p data-bbox="490 986 997 1010">Select the size of paper that is to be printed.</p> <p data-bbox="490 1031 997 1161">  <i>The orientation of the paper to be printed on cannot be changed. The image is normally printed with the paper in the portrait orientation.</i> </p> <p data-bbox="490 1182 997 1238">Choices: Paper sizes available with the selected printer</p> <p data-bbox="490 1259 997 1283">Default: Paper specified by the selected printer</p>

Name	Description
<p>“Scaling” group box</p>	<p>Specify how the image to be printed is enlarged or reduced.</p> <p>Select “Auto” to enlarge or reduce the image according to the paper size selected in the “Paper Size” list.</p> <p>Select “Manual” to specify the enlargement or reduction ratio.</p> <p>Choices: Auto, Manual</p> <p>Default: Auto</p> <p> <i>If “Manual” is selected, a value between 25% and 400% can be specified. The default setting is 100%.</i></p>
<p>“N-Up” list</p>	<p>Multiple image pages can be printed together on a single sheet of paper.</p> <p>Choices: Off, 2 in 1, 4 in 1</p> <p>Default: Off</p>
<p>“Printer” list</p>	<p>Select the printer to be used for printing.</p> <p>Choices: Printers connected to the computer</p>
<p>“Copies” text box</p>	<p>Specify the number of copies to be printed.</p> <p> <i>The number of copies can be set between 1 and 99. The default setting is “1”.</i></p>
<p>Reprint button</p>	<p>The image that had just been printed can be printed again.</p> <p>Click this button to specify the number of copies to be printed in the Reprint dialog box that appears.</p> <p> <i>The Reprint button is not available if the Scan and Print dialog box had been closed.</i></p> <p> <i>The number of copies can be set between 1 and 99. The default setting is “1”.</i></p>
<p>Save Settings and Close button</p>	<p>Click this button to save the current settings and close this dialog box.</p>

Name	Description
Default button	Click this button to return all dialog box items to their default settings.
Scan button	Click this button after selecting “Basic” in the “Basic/Advanced” list to begin scanning the image.
Cancel button	Click this button to close this dialog box without saving the changes to the settings.
Help button	Click this button to display the Help.

Registering Frequently Used Software

Frequently used software can be registered with launcher buttons. Clicking a launcher button starts up the registered software.

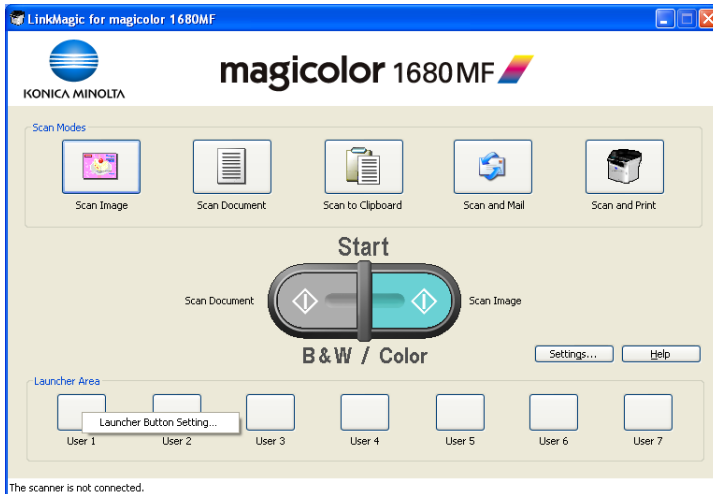


The launcher buttons are automatically programmed with the following software if they are installed on the computer.

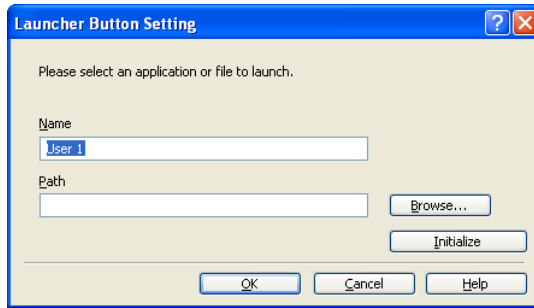
- Microsoft Word 2000/XP/2003/2007
- Microsoft Excel 2000/XP/2003/2007
- Microsoft PowerPoint 2000/XP/2003/2007
- PaperPort 10 SE/11 SE
- Fax Talk 4.7
- Adobe Photoshop CS2/CS3

Registering Software With Launcher Buttons

- 1 Right-click a button below “Launcher Area”, and then click “Launcher Button Setting”.



The Launcher Button Setting dialog box appears.



- 2 In the “Name” text box, type the name of the button.
 - A maximum of 30 characters can be entered.
- 3 In the “Path” text box, type the path to the software to be registered.
 - To browse to software on the computer, click the **Browse** button.
 - A maximum of 259 characters can be entered.
- 4 Click the **OK** button.

The software is registered with the launcher button.

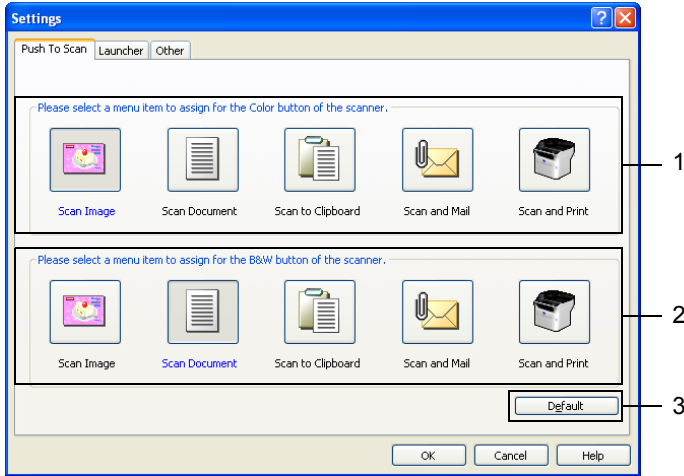


Click the **Initialize** button to reset the settings to their defaults.

Settings Dialog Box

Clicking the **Settings** button in the main window displays the Settings dialog box.

Push To Scan Tab

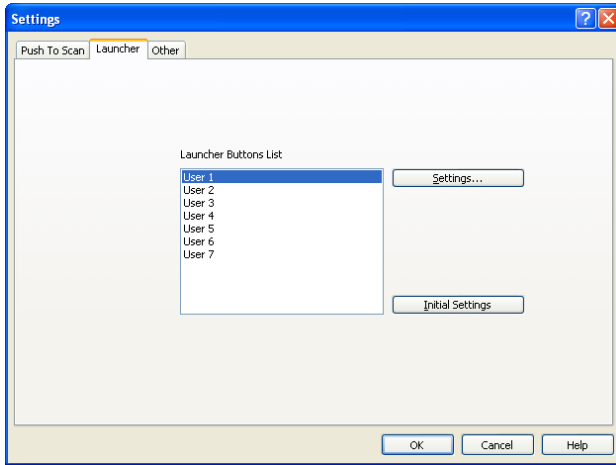


No.	Item	Description
1	Assigned link to Start—Color key	Select the button for the function to be assigned to the Start—Color key on the machine. Default: Scan Image
2	Assigned link to Start—B&W key	Select the button for the function to be assigned to the Start—B&W key on the machine. Default: Scan Document
3	Default button	Click this button to return all items to their default settings.



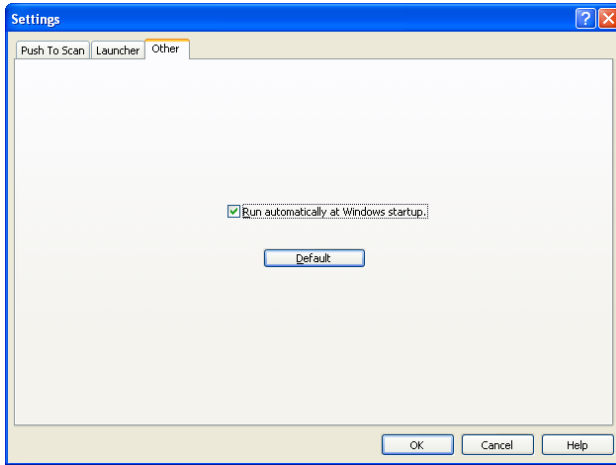
The same function cannot be assigned to both the **Start—Color** key and the **Start—B&W** key.

Launcher Tab



Item	Description
Settings button	Clicking this button to display the settings dialog box for the button selected in the "Launcher Buttons List". (=>"Registering Frequently Used Software" on page 2-30)
Initial Settings button	Click this button to return all settings to their defaults.

Other Tab



Item	Description
"Run automatically at Windows startup." check box	Select this check box to automatically start LinkMagic when the computer is started up. Default: Checked
Default button	Click this button to return all settings to their defaults.

Uninstalling LinkMagic



You must have administrator privileges in order to uninstall the LinkMagic.



*If the User Account Control window appears when uninstalling on Windows Vista, click the **Allow** button or the **Continue** button.*

The LinkMagic can be uninstalled using either of the following two methods.

- From Control Panel, use “Add or Remove Programs” (“Programs” with Windows Vista, “Add/Remove Programs” with Windows 2000)
- Using setup.exe in the LinkMagic folder of the Applications CD/DVD again

Troubleshooting

Symptom	Solution
Constraint processing is not applied by the printer driver when the Scan and Print operation is performed.	Constraint processing may not be applied depending on the specified settings.

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