
magicolor 1690MF

Reference Guide

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- 3 Kerberos**
- 4 Open SSL**
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2 Cyrus SASL

CMU libsasl
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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, Network connection (10Base-T/100Base-TX)
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

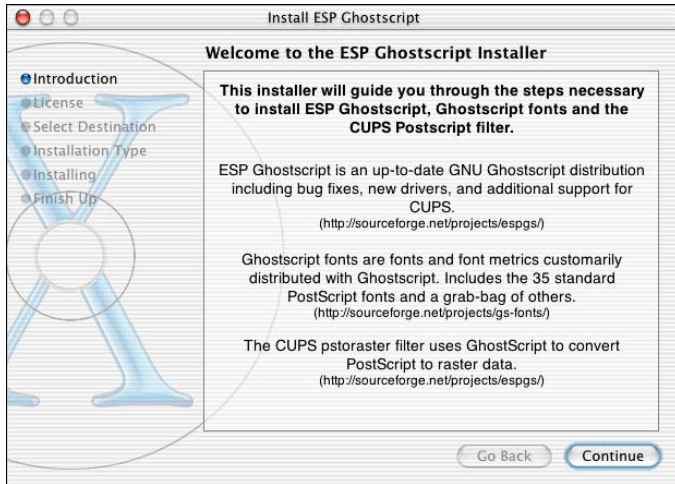
Double click the **ESP Ghostscript.mpkg** package file in the disk image.

4

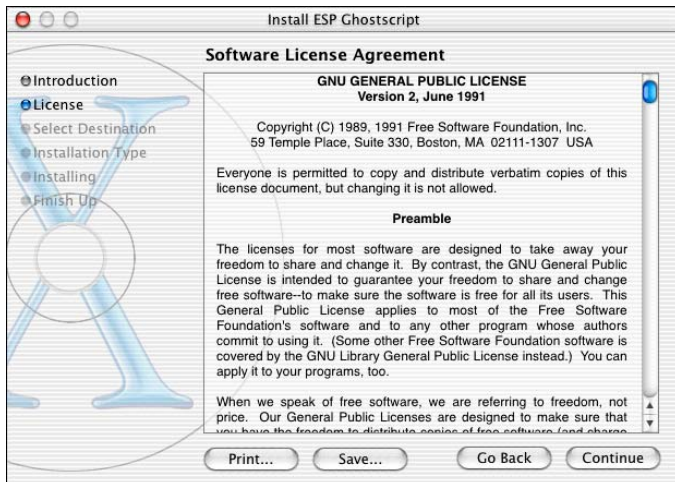
Enter the administrator user name and password in the **Authenticate** dialog box, and then click **OK**.



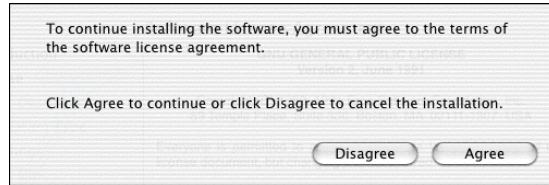
5 Click **Continue**.



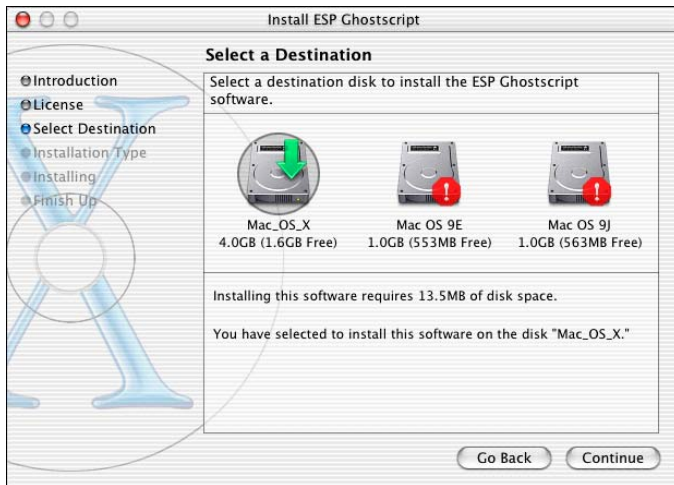
6 Check the details of the license agreement and click **Continue**.



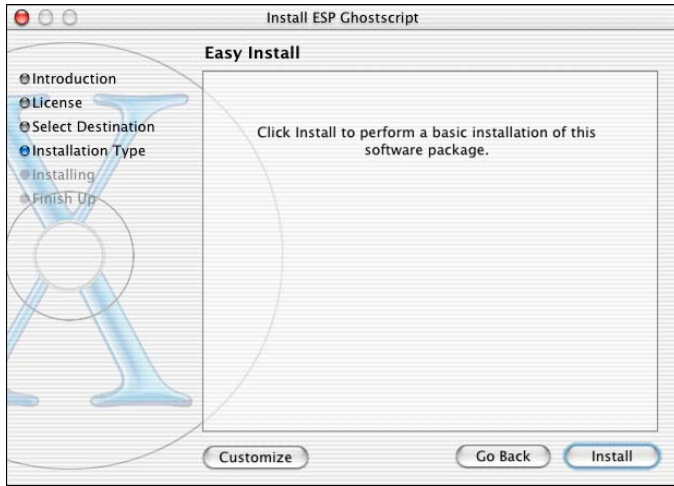
- 7 Click **Agree** in the confirmation dialog box, if you agree to the terms of the license.



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

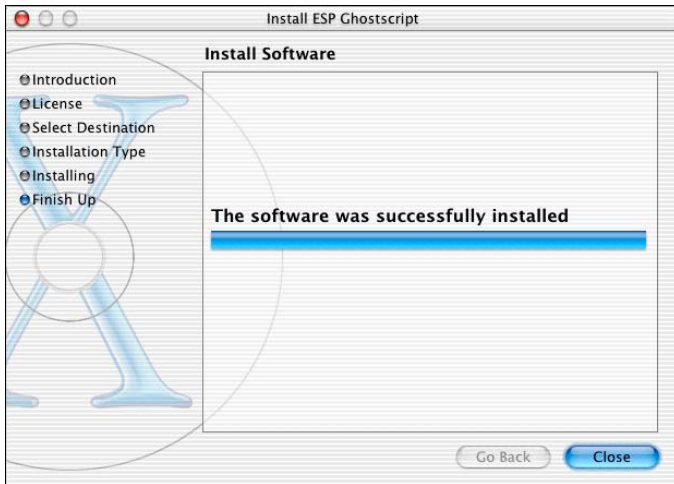


9 Click **Install** in the **Easy Install** page.



Installation starts.

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



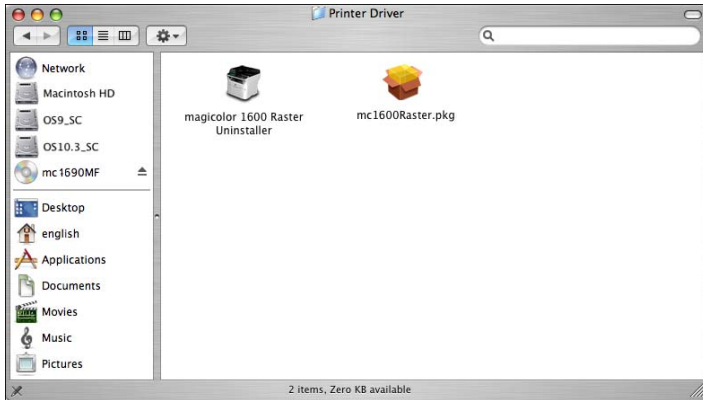
This completes the installation of Ghostscript.

Installing the Printer Driver



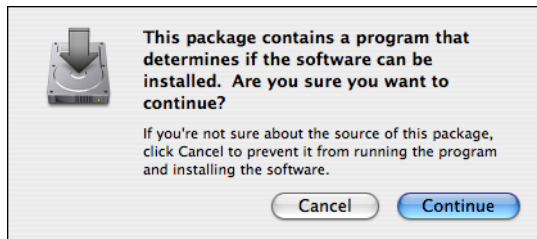
The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 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**.

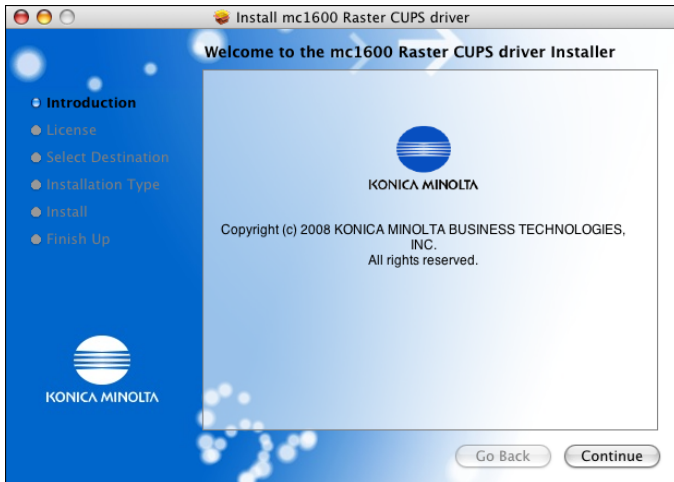


The installer for the printer driver starts up.

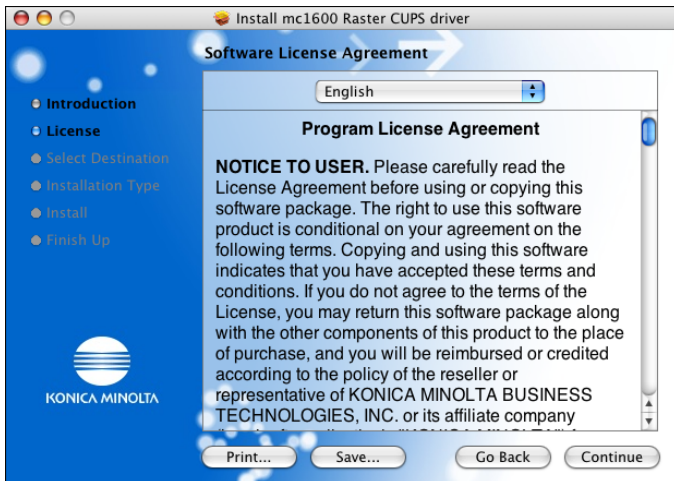
- 3 Click **Continue**.



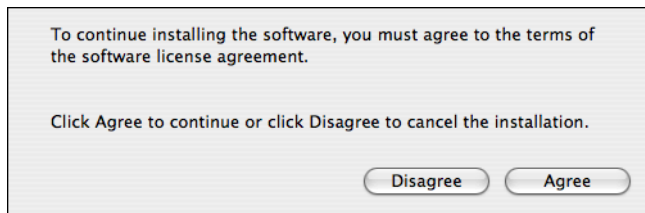
4 Click **Continue**.



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



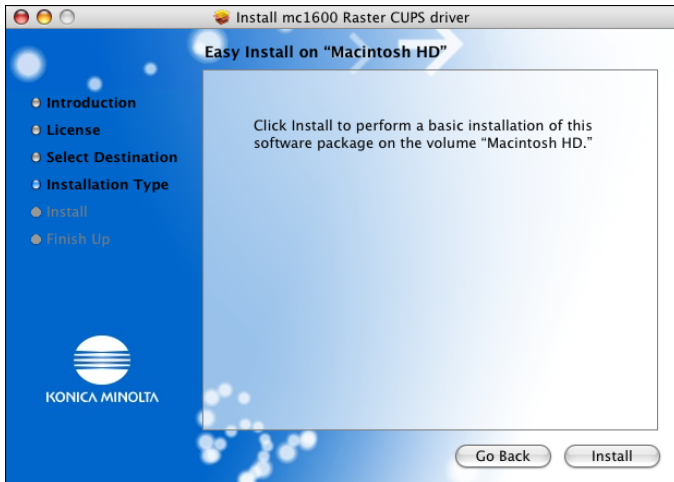
- 6 Click **Agree** in the confirmation dialog box if you agree to the terms of the license.



- 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.

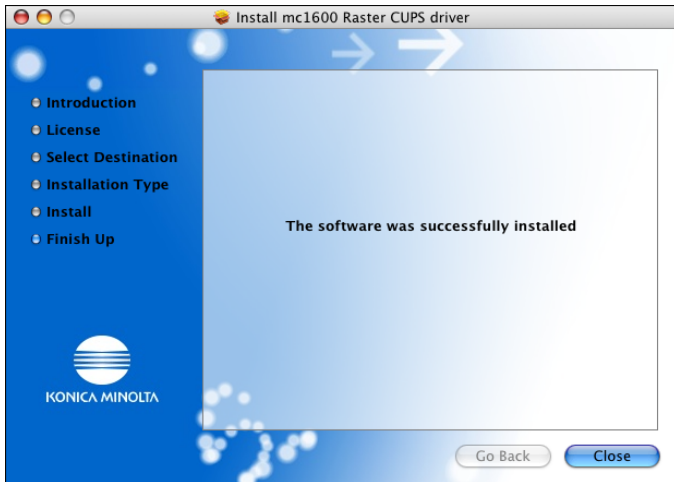


- 9 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



Installation starts.

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



This completes the installation of the printer driver.

Printer Setup Utility Settings



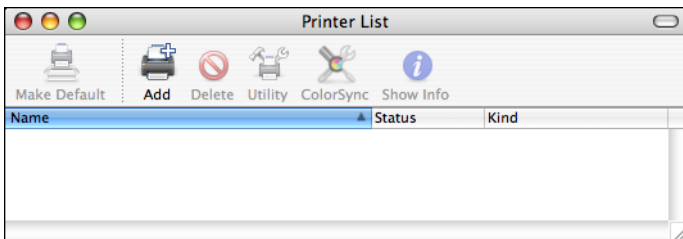
Before specifying the Printer Setup Utility settings, set **USB SETTING** (in the **UTILITY - ADMIN. MANAGEMENT** menu) to **Mac**. For details, refer to the *Printer/Copier/Scanner User's Guide on the Documentation CD/DVD*.



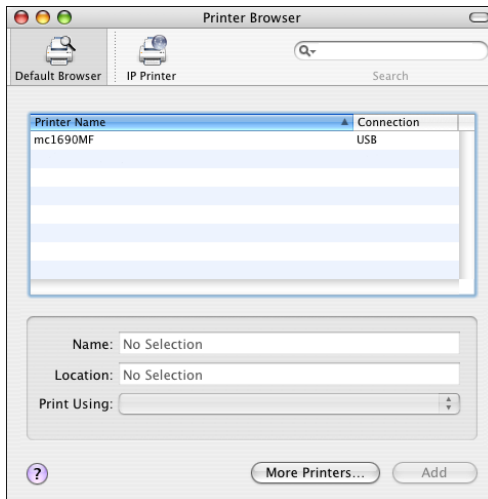
This function is not supported by Mac OS X 10.5.

When Using a USB Connection

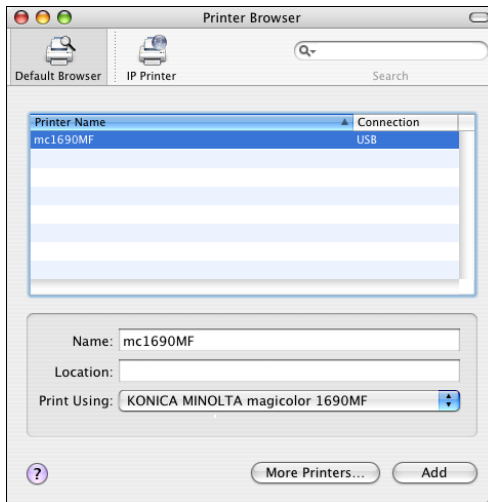
- 1 Use a USB cable to connect the machine to your computer.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 3 In the **Printer List**, click **Add**.




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



4 Select **mc1690MF** in the **Printer Name**.

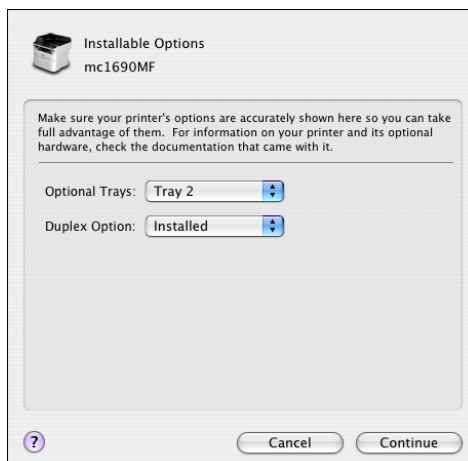


 *If **mc1690MF** does not appear, check that the machine is turned on and the USB cable is connected, and then restart the computer.*

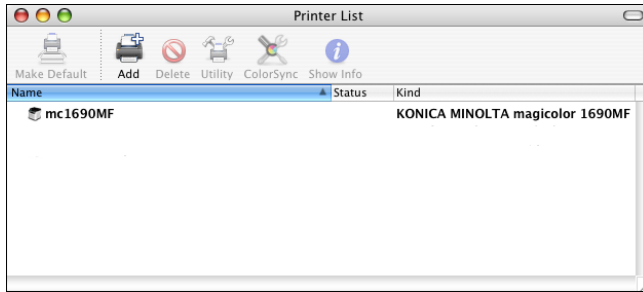
5 Check that **KONICA MINOLTA magicolor 1690MF** is selected in the **Print Using** list.

6 Click **Add**.

7 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



- 8 Click **Continue**.
The new printer appears in the **Printer List** screen.

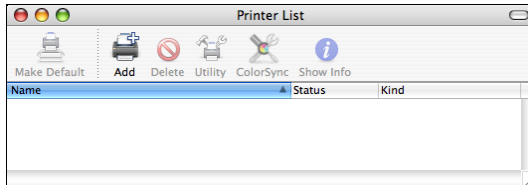


When Using a Network Connection

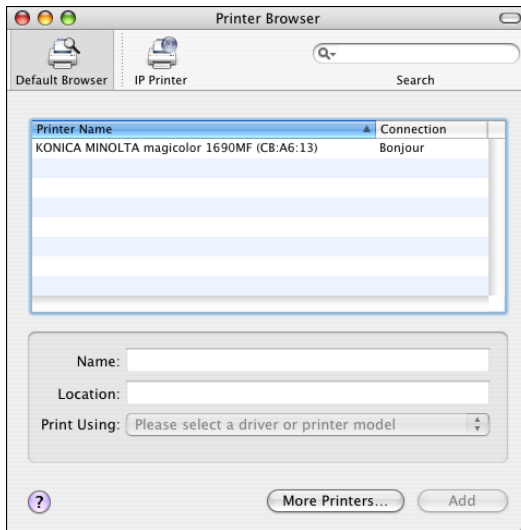
The network connection settings can be specified in one of two ways: Bonjour Setting and IP printing Setting (IPP, LPD or Socket).

Bonjour Setting

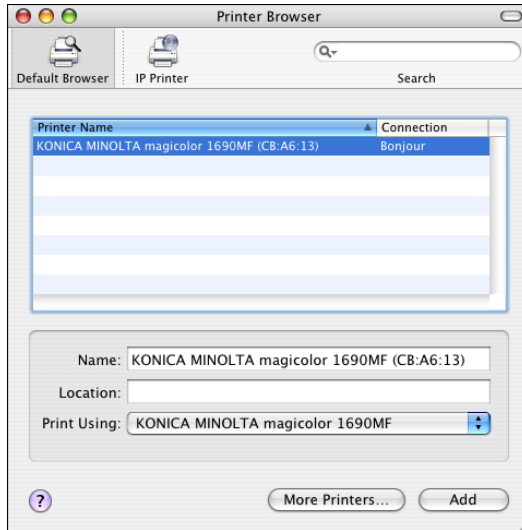
- 1 Connect the machine to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Startup Disk, then **Applications**, then **Utilities**.
- 3 In the **Printer List**, click **Add**.



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



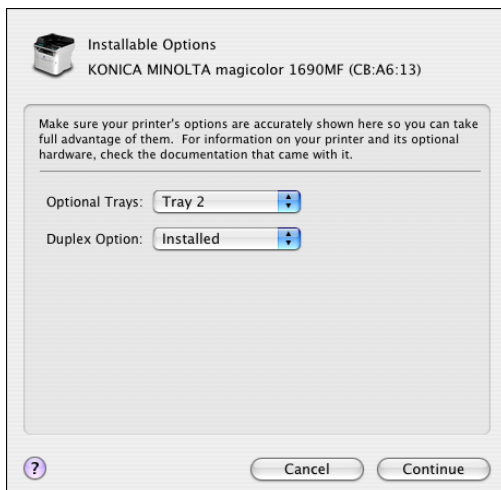
- 4 Select **KONICA MINOLTA magicolor 1690MF (xx:xx:xx)** in the **Printer Browser**.



“xx:xx:xx” refers to the last six digits of the MAC address (in hexadecimal).

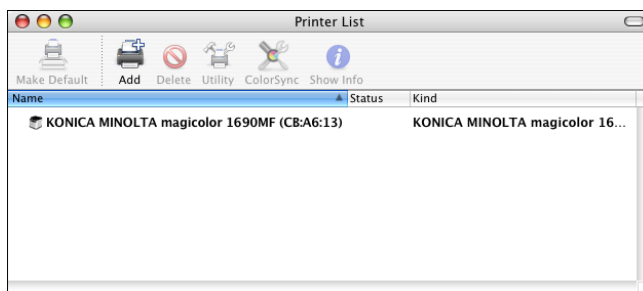
- 5 Check that **KONICA MINOLTA magicolor 1690MF** is selected in the **Print Using** list.
- 6 Click **Add**.

- 7 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



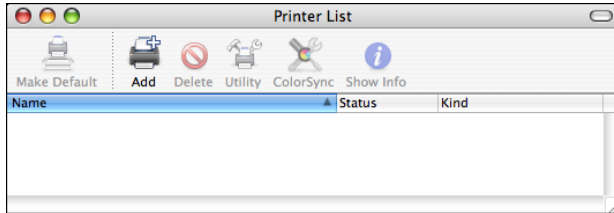
- 8 Click **Continue**.

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

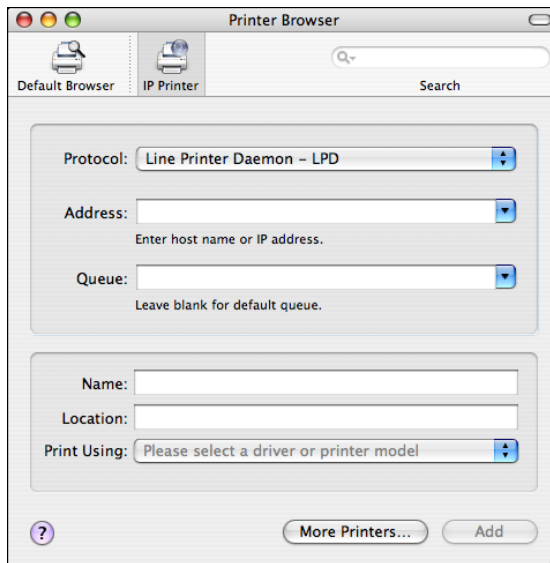


IP Printing Setting

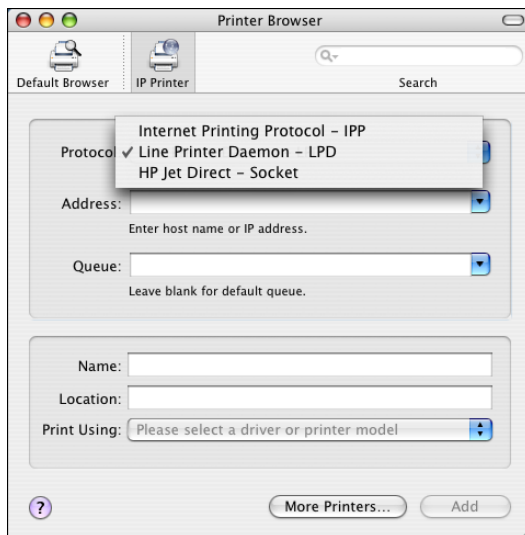
- 1 Connect the machine to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Startup Disk, then **Applications**, then **Utilities**.
- 3 Click **Add** in the **Printer List**.



- 4 Click **IP Printer**.

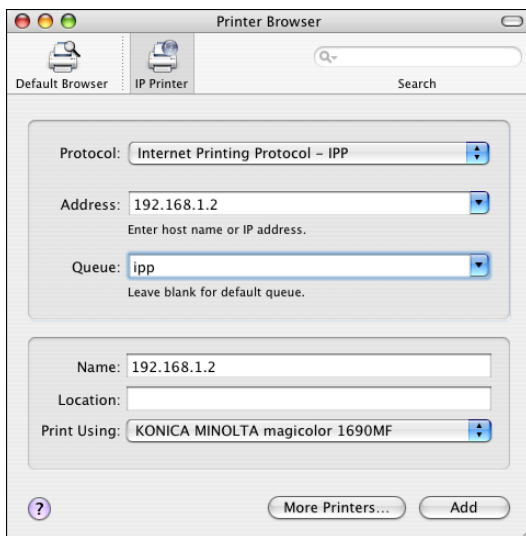


5 Select desired print protocol from the **Protocol** pop-up menu.



- For an IPP setup, select **Internet Printing Protocol - IPP**.
- For an LPD setup, select **Line Printer Daemon - LPD**.
- For a port 9100 setup, select **HP Jet Direct - Socket**.

6 Enter the IP address for the machine in the **Address** text box.

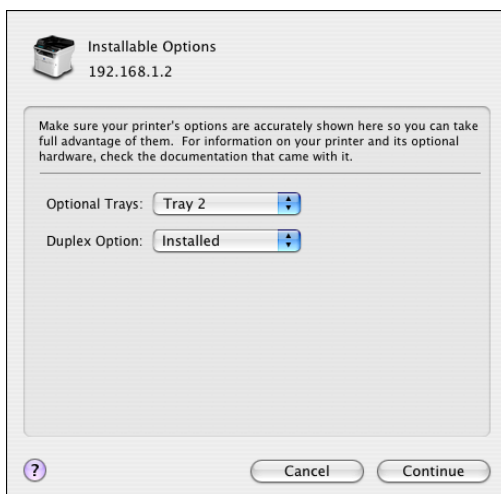


- For an LPD setup, type "lp" in the **Queue** text box.
- For an IPP setup, type "ipp" in the **Queue** text box.

7 Select **KONICA MINOLTA magicolor 1690MF** in the **Print Using** list.

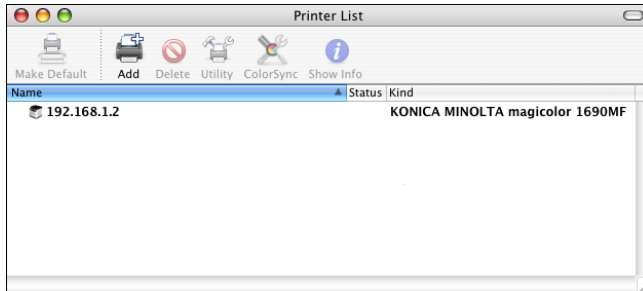
8 Click **Add**.

9 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



10 Click **Continue**.

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



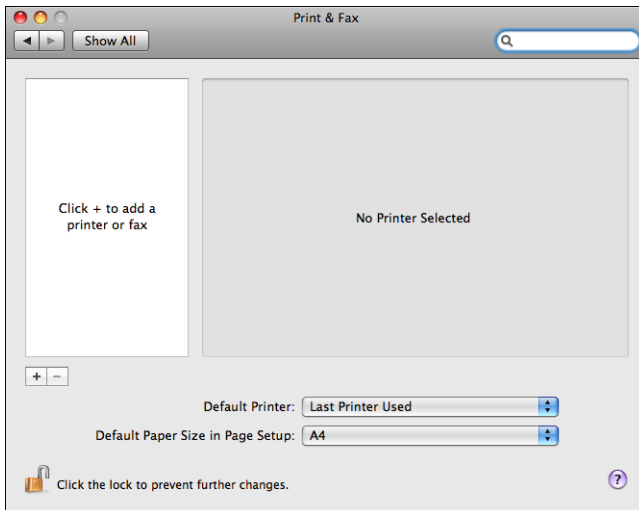
Printer Settings (Mac OS X 10.5)



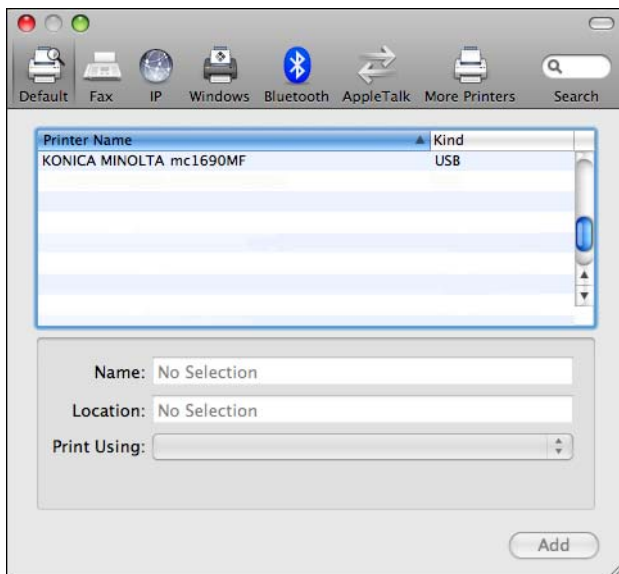
Before specifying the Printer settings, set *USB SETTING* (in the *UTILITY - ADMIN. MANAGEMENT* menu) to *Mac*. For details, refer to the *Printer/Copier/Scanner User's Guide on the Documentation CD/DVD*.

When Using a USB Connection

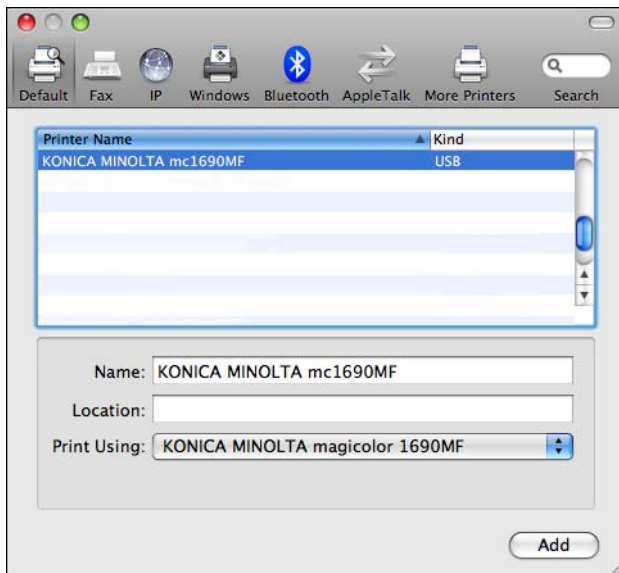
- 1 Use a USB cable to connect the machine to your computer.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click **+** button.



The detected printer appears in the Printer Browser.



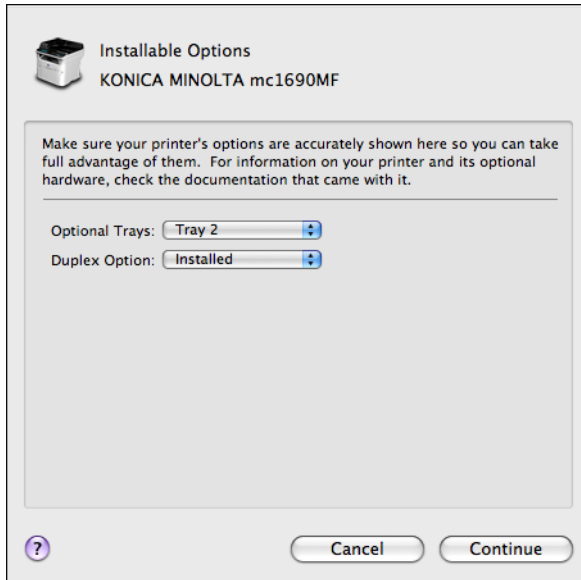
5 Select **KONICA MINOLTA mc1690MF** in the **Printer Name** list.





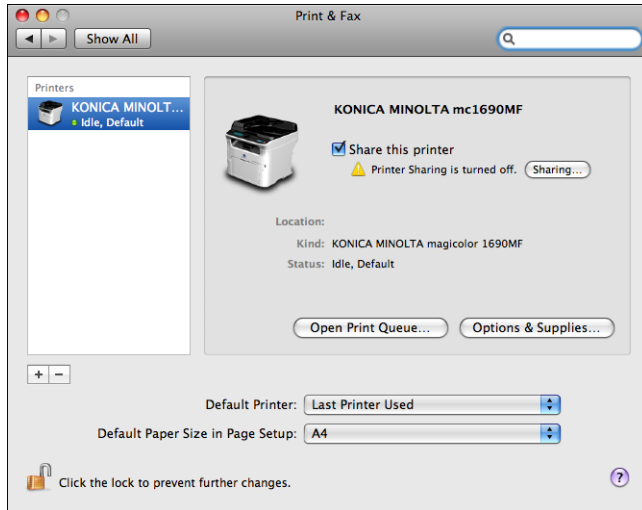
If **KONICA MINOLTA mc1690MF** does not appear, check that the machine is turned on and the USB cable is connected, and then restart the computer.

- 6 Check that **KONICA MINOLTA magicolor 1690MF** is selected in the **Print Using** list.
- 7 Click **Add**.
- 8 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



9 Click **Continue**.

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

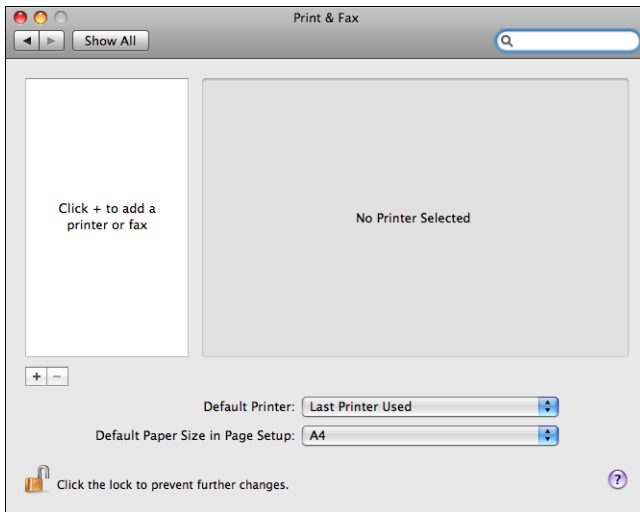


When Using a Network Connection

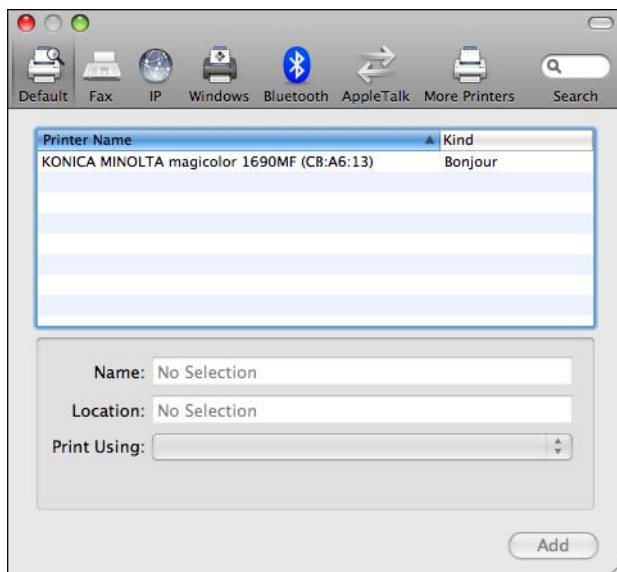
The network connection settings can be specified in one of two ways: Bonjour Setting and IP printing Setting (IPP, LPD or Socket).

Bonjour Setting

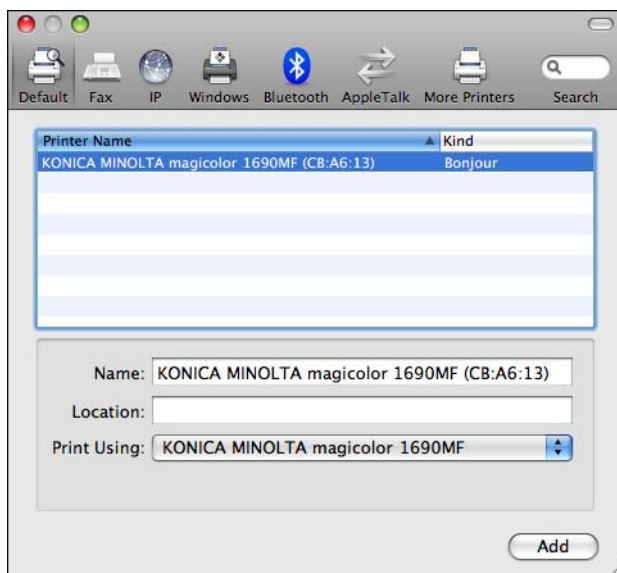
- 1 Connect the machine to an Ethernet network.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



The detected printer appears in the Printer Browser.

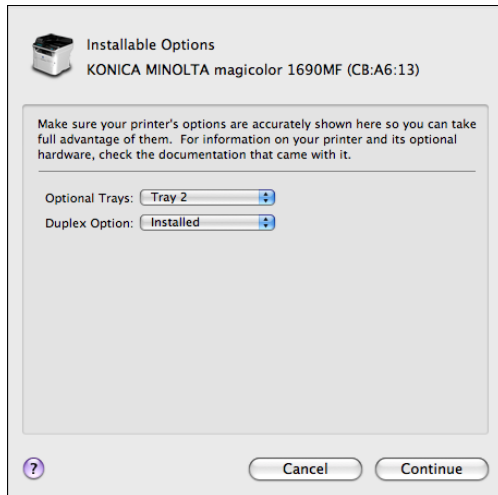


- 5 Select **KONICA MINOLTA magicolor 1690MF (xx:xx:xx)** in the **Printer Name** list.



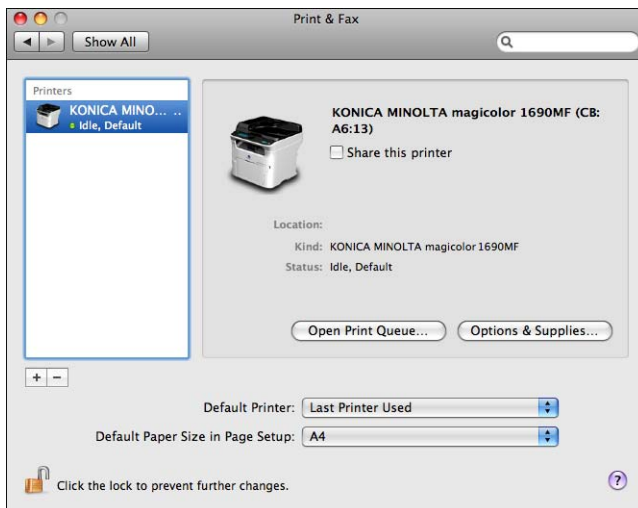
“xx:xx:xx” refers to the last six digits of the MAC address (in hexadecimal).

- 6 Check that **KONICA MINOLTA magicolor 1690MF** is selected in the **Print Using** list.
- 7 Click **Add**.
- 8 Select an **Optional Trays** and **Duplex Option** to match to your printer.



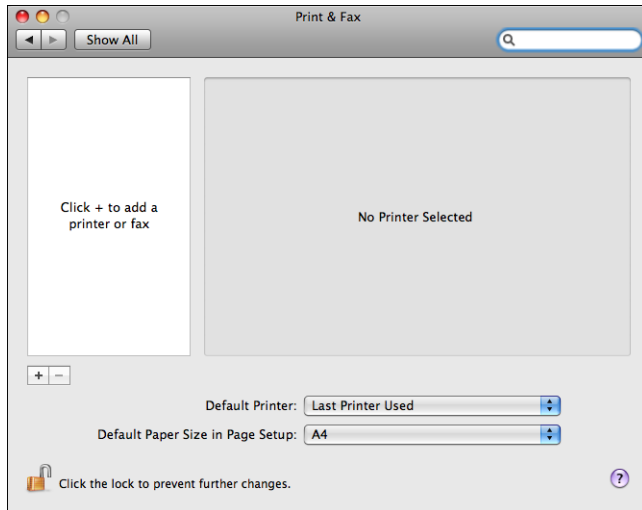
- 9 Click **Continue**.

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

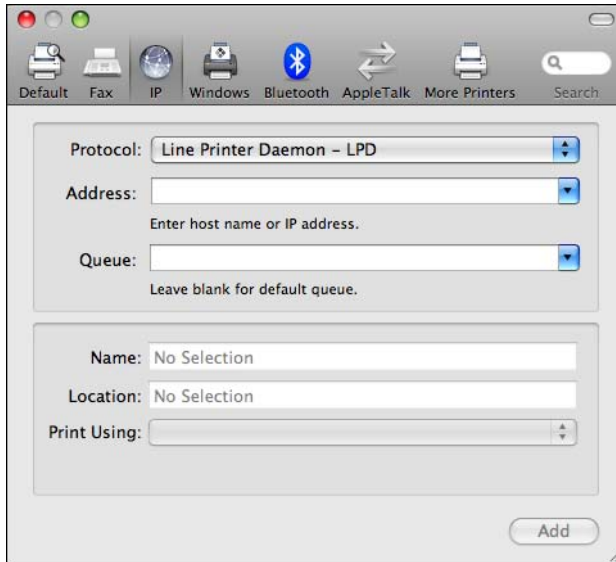


IP Printing Setting

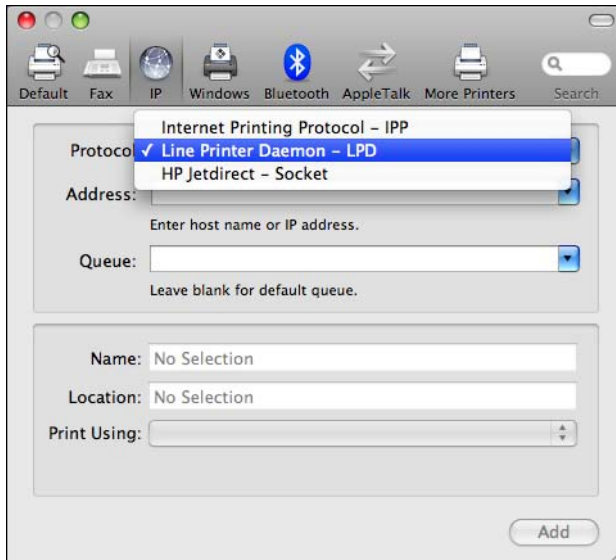
- 1 Connect the machine to an Ethernet network.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click **+** button.



5 Click IP.

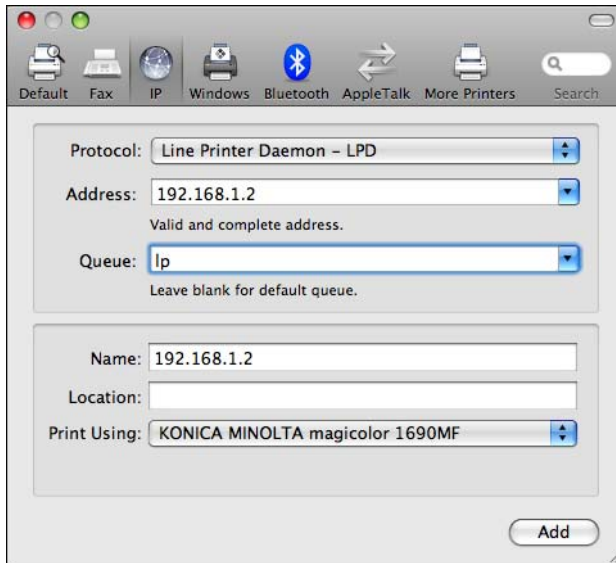


6 Select desired print protocol from the **Protocol** pop-up menu.



- For an IPP setup, select **Internet Printing Protocol - IPP**.
- For an LPD setup, select **Line Printer Daemon - LPD**.
- For a port 9100 setup, select **HP Jetdirect - Socket**.

7 Enter the IP address for the machine in the **Address** text box.



The screenshot shows a Mac OS X printer settings window. At the top, there is a toolbar with icons for Default, Fax, IP, Windows, Bluetooth, AppleTalk, More Printers, and Search. The main area contains two sections. The first section has three dropdown menus: 'Protocol' set to 'Line Printer Daemon - LPD', 'Address' set to '192.168.1.2' with the note 'Valid and complete address.', and 'Queue' set to 'lp' with the note 'Leave blank for default queue.'. The second section has three text fields: 'Name' containing '192.168.1.2', an empty 'Location' field, and 'Print Using' set to 'KONICA MINOLTA magicolor 1690MF'. An 'Add' button is located at the bottom right of the dialog.

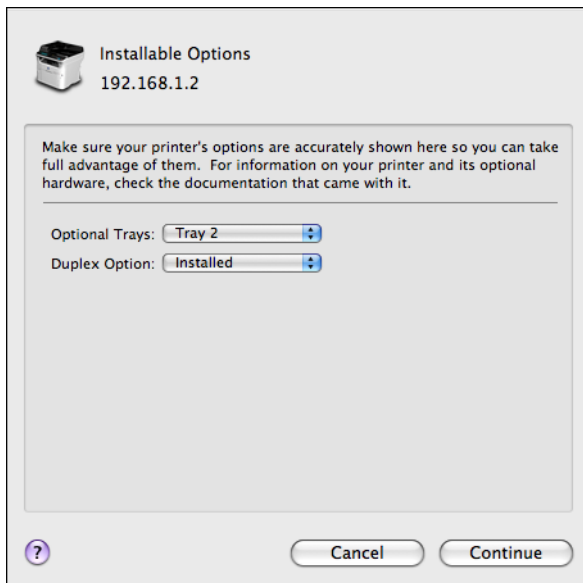


- For an LPD setup, type "lp" in the **Queue** text box.
- For an IPP setup, type "ipp" in the **Queue** text box.

8 Check that **KONICA MINOLTA magicolor 1690MF** is selected in the **Print Using** list.

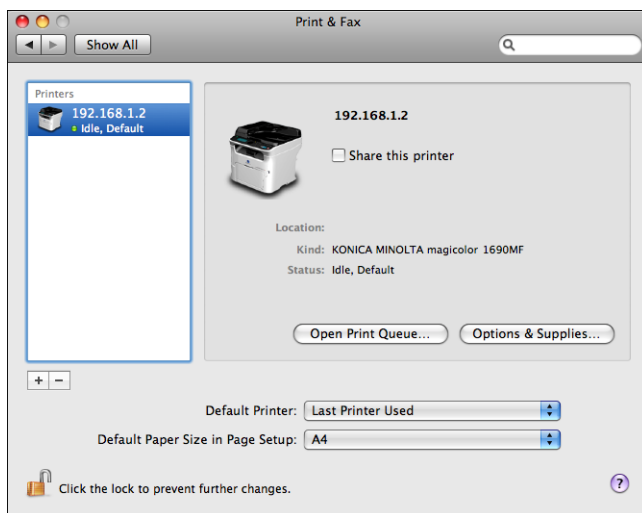
9 Click **Add**.

- 10 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



- 11 Click **Continue**.

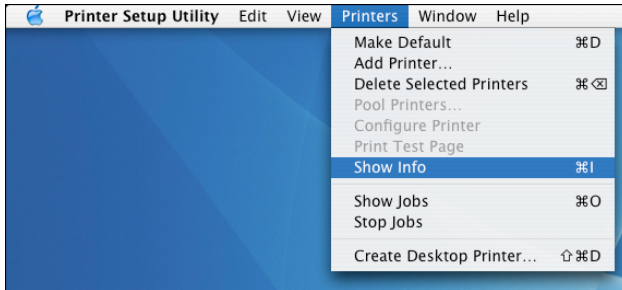
*The new printer appears in the **Print & Fax** screen.*



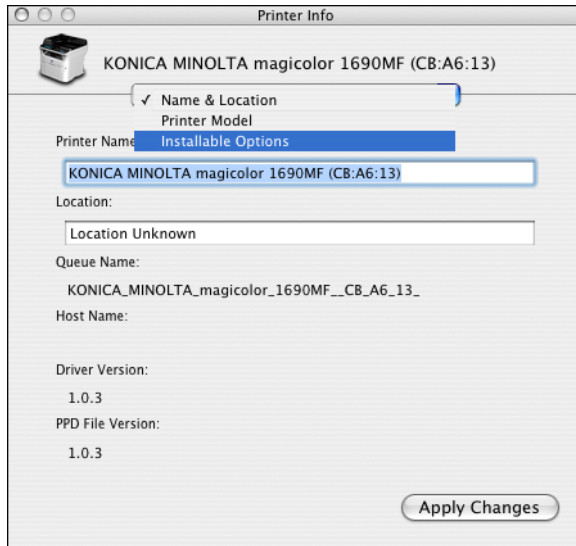
Selecting Print Options

For Mac OS X 10.2/10.3/10.4

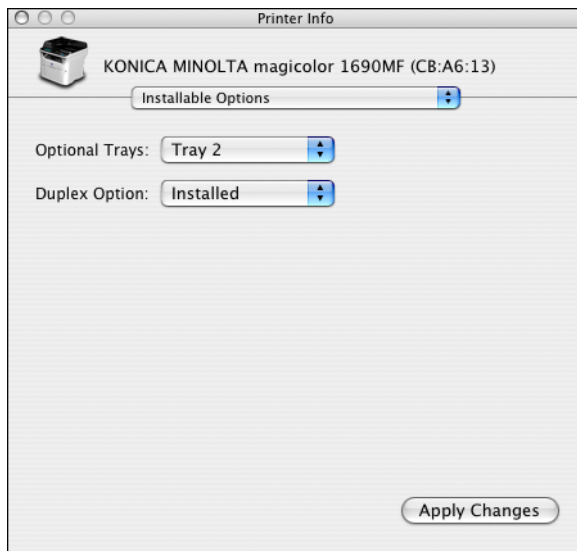
- 1 Open **Printer Setup Utility (Print Center)**, which can be accessed by clicking Startup disk, then **Applications**, then **Utilities**.
- 2 Select this printer in the **Printer List**, and then select **Show Info** from the **Printers** menu.



- 3 Select **Installable Options** from the pop-up menu.



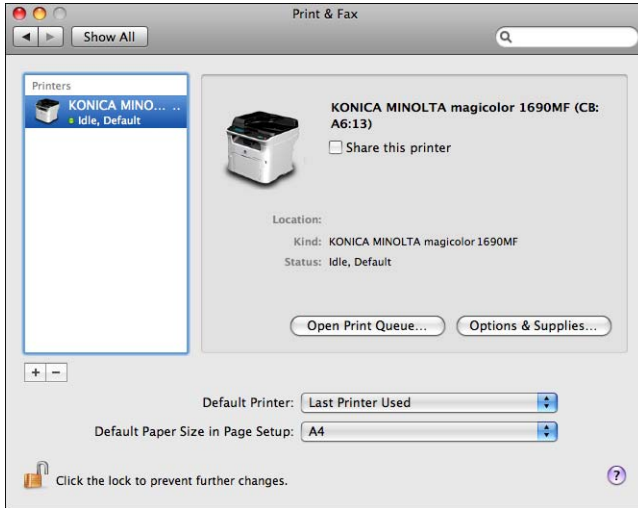
- 4 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



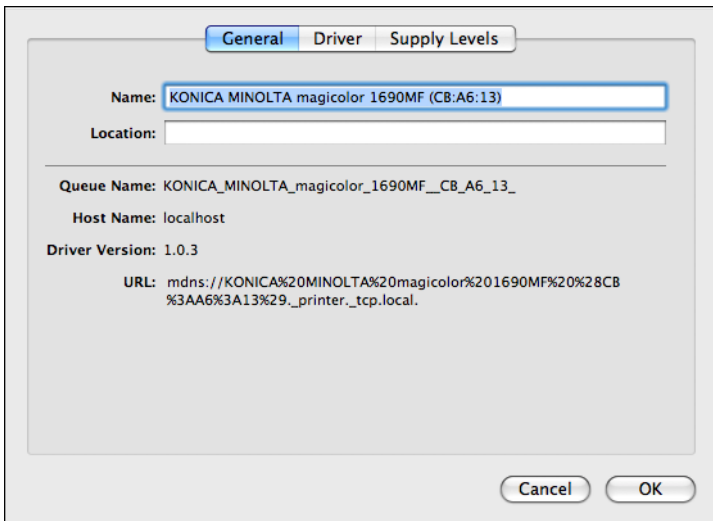
- 5 Click **Apply Changes**.
- 6 Close the **Printer Info** dialog box.

For Mac OS X 10.5

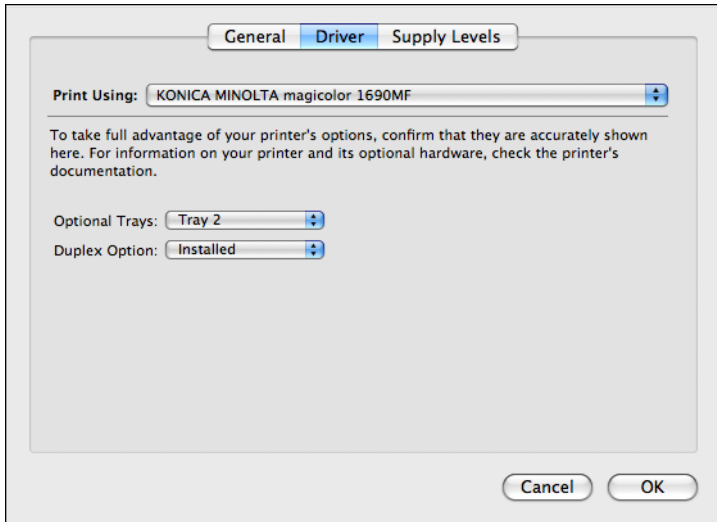
- 1 Select **System Preference** from the Apple menu.
- 2 Click **Print & Fax**.
- 3 Select this printer in the **Printers List**, and then click **Options & Supplies**.



- 4 Select **Driver**.



- 5 Select an **Optional Trays** and **Duplex Option** to match to your printer setup.



- 6 Click **OK**.
- 7 Close 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 **magicolor 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**.

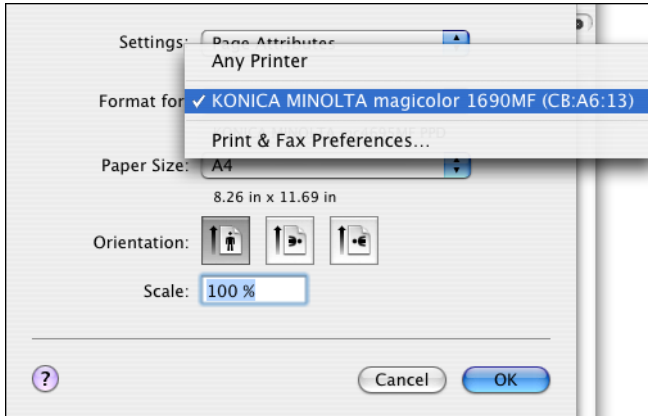


This completes the uninstallation of the printer driver.

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.

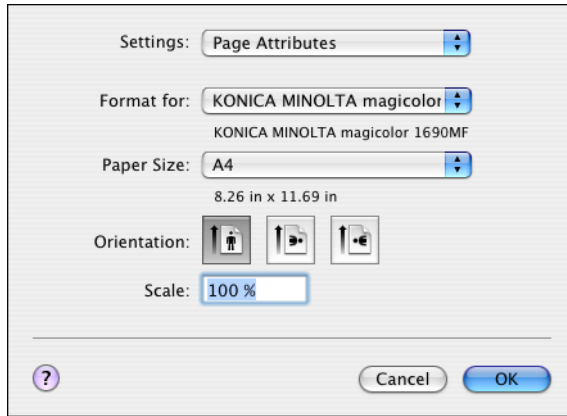


You can select the following sections from the **Settings** pop-up menu.

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%).

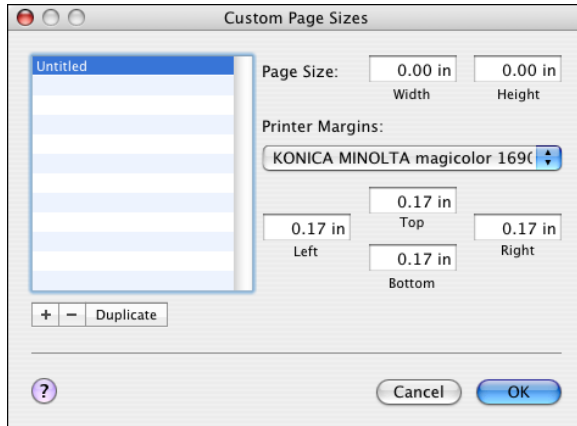


Regardless of which paper size is selected, the machine does not print within 0.165" (4.2 mm) of the edge of the paper.

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**.



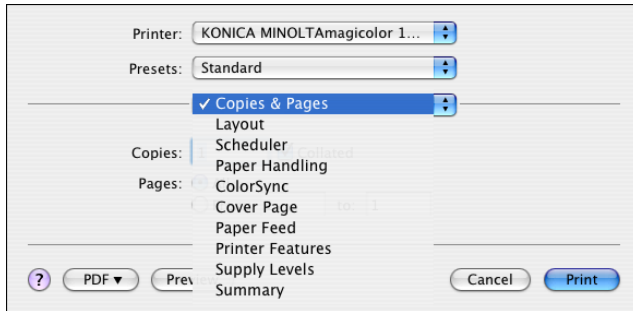
Regardless of which paper is selected, the printer does not print within 0.165" (4.2 mm) of the edge of the paper.

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
Supply Levels	This section provides information for checking the amount of service life remaining on each consumable.
Summary	This is used to check the current settings.



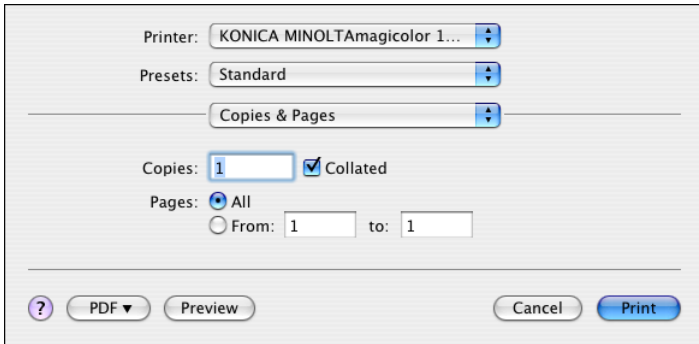
No warning message will be displayed if options cannot be used together are selected.

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: KONICA MINOLTA magicolor 1... (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.

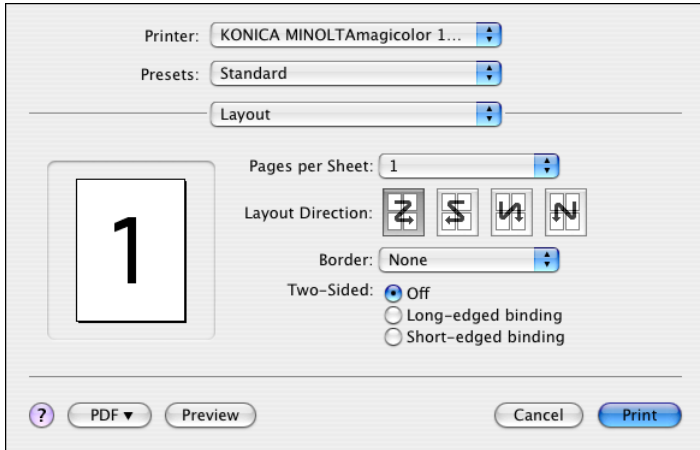
■ Pages

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**

Select the desired setting for double-sided printing.

Off: Double-sided printing is not performed.

Long-edged binding: Double-sided printing is performed with the binding along the long edge of the paper.

Short-edged binding: Double-sided printing is performed with the binding along the short edge of the paper.



*To print on both sides of the paper, Duplex Option must be selected under Installable Options (p. 1-33). The **Long-edged binding** check box or **Short-edged binding** check box can be selected even when the Duplex Options is not installed. However, in this case, the print job will be cancelled.*

Scheduler

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

Printer: KONICA MINOLTA magicolor 1...
Presets: Standard
Scheduler
Print Document: Now
 At 9:00 AM
 On Hold
Priority: Medium
? PDF Preview Cancel Print

■ Print Document

Now: Select this option to begin printing immediately.

At: Specify the time to begin printing.

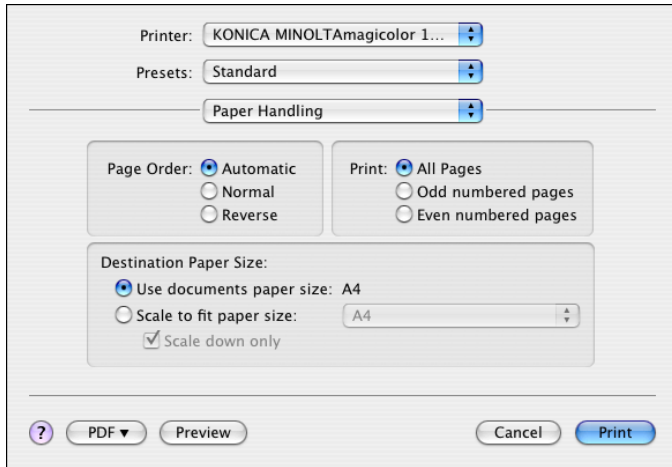
On Hold: Select this option to hold the print job.

■ Priority

Select the priority for printing jobs that are being held.

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.

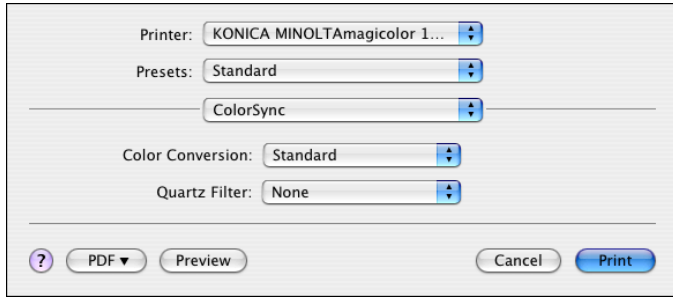
■ Destination Paper Size

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.

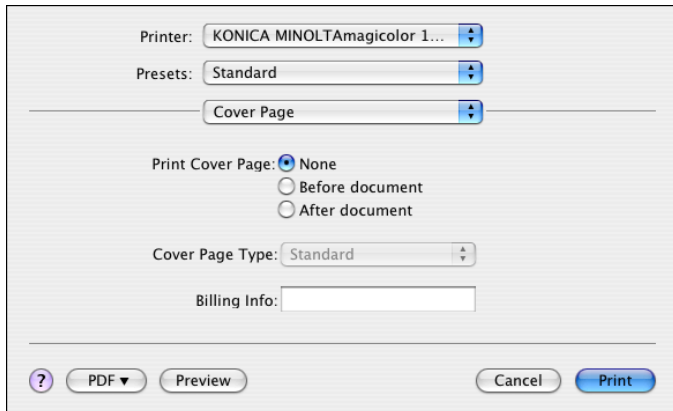
Scale down only: Select this option to reduce the printing size.

ColorSync



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

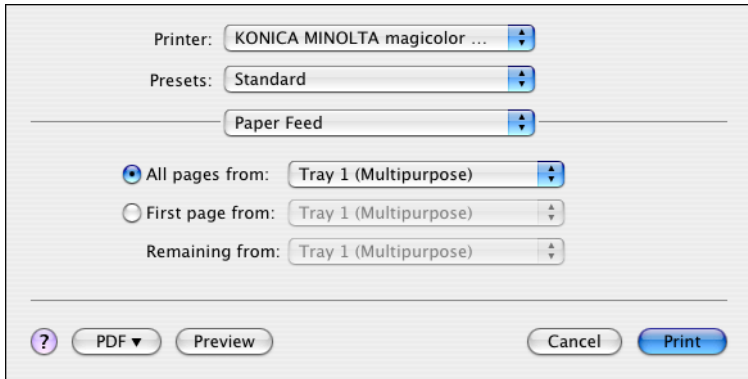
Cover Page



- **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.



Printer: KONICA MINOLTA magicolor ...

Presets: Standard

Paper Feed

All pages from: Tray 1 (Multipurpose)

First page from: Tray 1 (Multipurpose)

Remaining from: Tray 1 (Multipurpose)

? PDF Preview Cancel Print

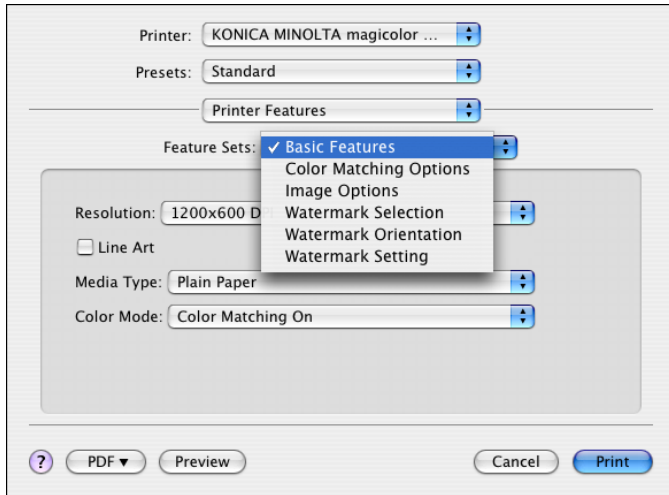
- **All pages from**
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**
The rest of the document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



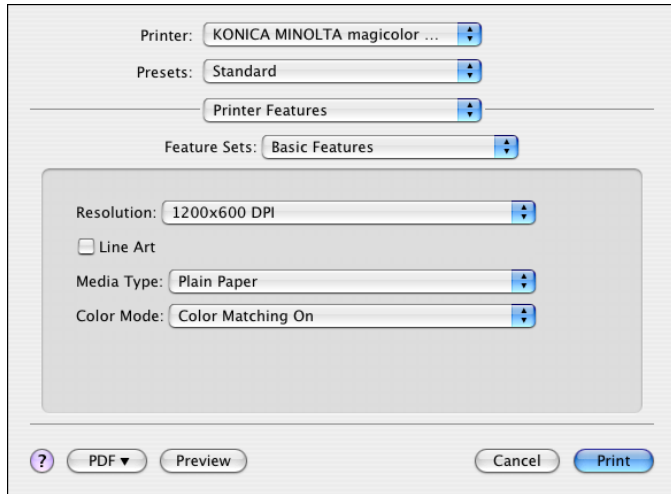
*If an optional lower feeder unit is installed, select **Tray 2** under **Installable Options** (p. 1-33). If Tray 2 is not selected, Tray 2 appears in gray and cannot be selected.*

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.

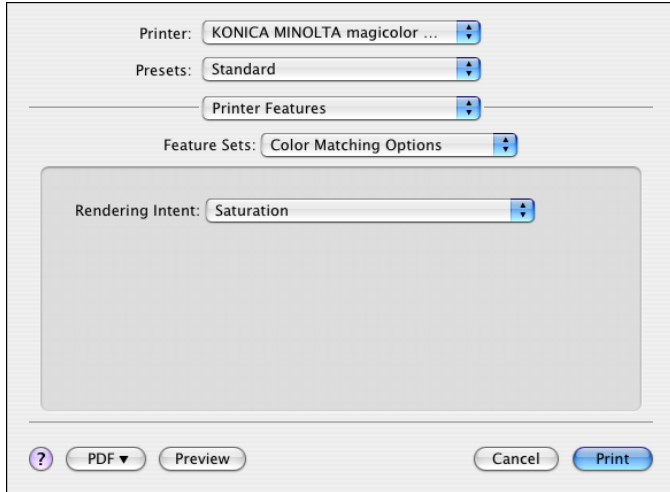


Basic Features



- **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

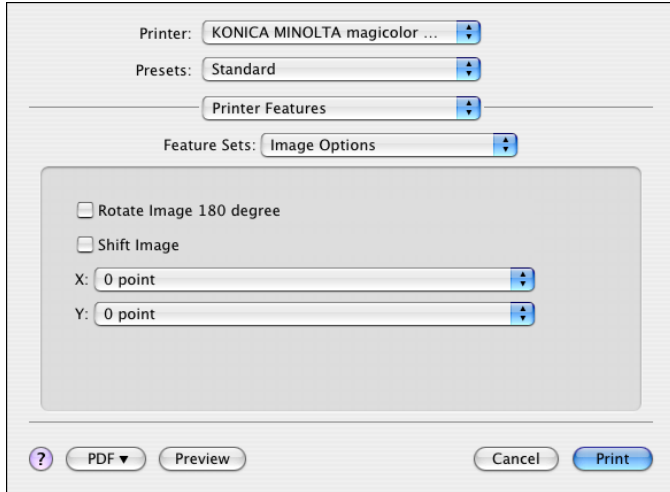
This option specifies the color matching settings.

Perceptual: Performs suitable color matching for photographic images.

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

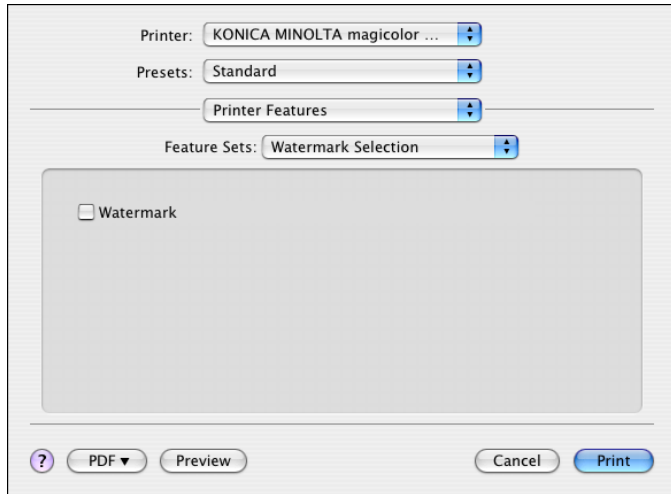
Saturation: Performs suitable color matching for business graphics.

Image Options



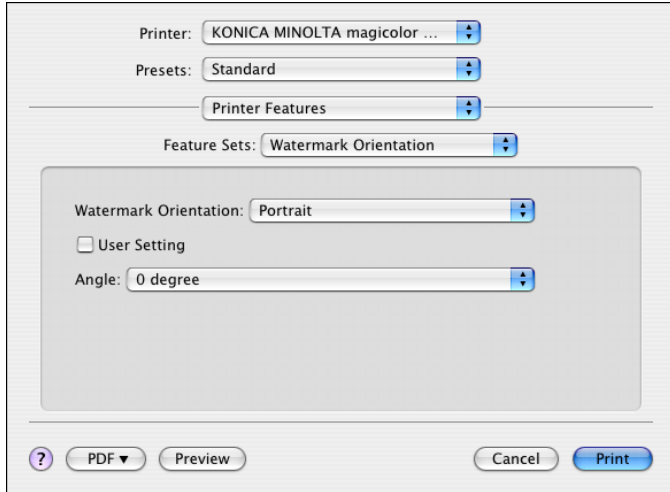
- **Rotate Image 180 degree**
Select this check box to print the image rotated 180 degrees.
- **Shift Image**
Select this check box to print the image shifted in the X and Y directions.
X: Select the distance to shift the image in the X direction.
Y: Select the distance to shift the image in the Y direction.

Watermark Selection



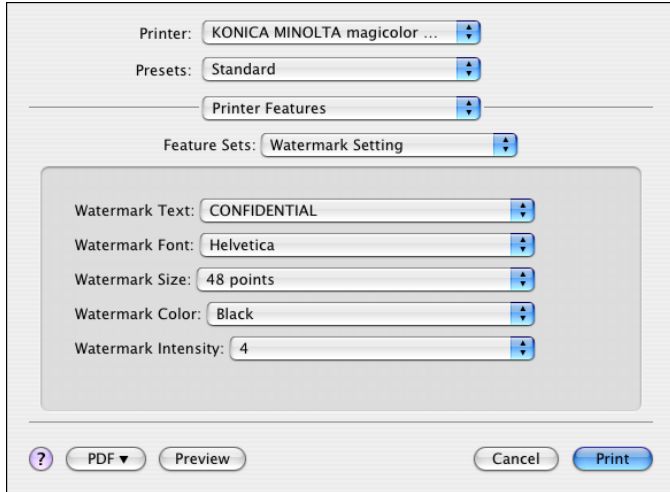
- **Watermark**
This specifies whether to use a watermark print.

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.

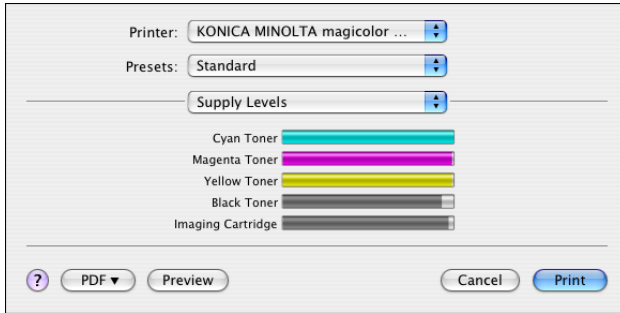
Watermark Setting



- **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.

Supply Levels

The **Supply Levels** section provides information for checking the amount of service life remaining on each consumable.



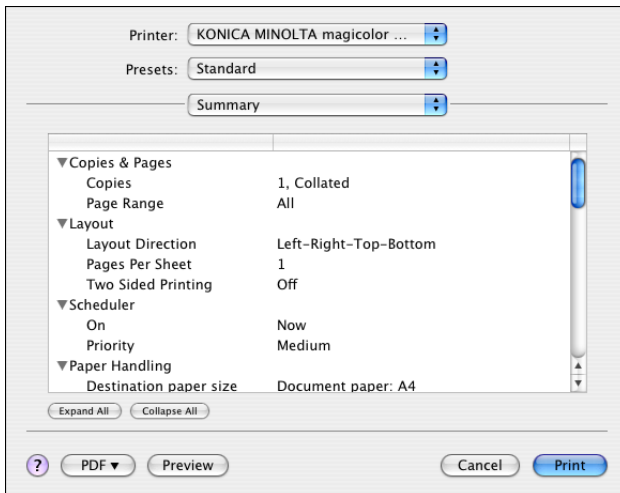
The **Supply Levels** section appears when a printer is created on Mac OS X v10.4 with a Bonjour, IPP, LPD, Socket connection.



The **Supply Levels** section may not appear depending on the application you use.

Summary

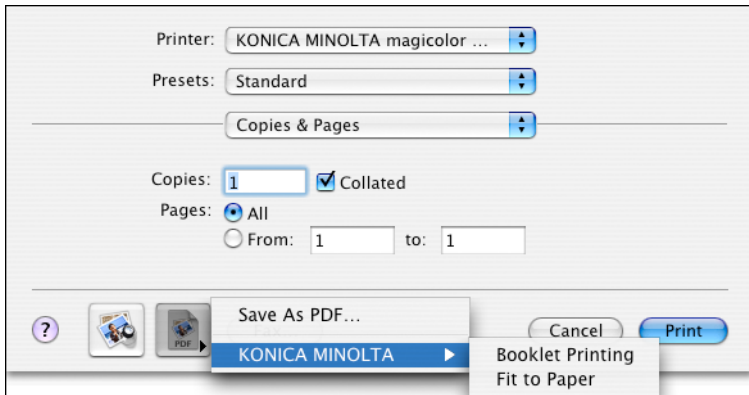
The **Summary** is used to check the currently selected print settings.



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

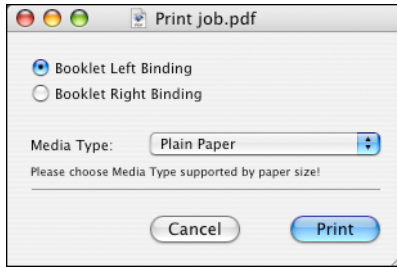
Print with the paper size of the document adjusted to any paper size.




When printing with the Fit to Paper feature, the image is printed centered in the paper.

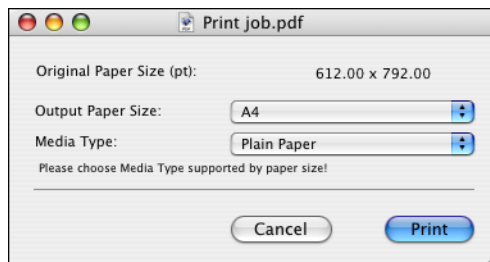
- 3 Specify the necessary settings, and then click **Print**.

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.

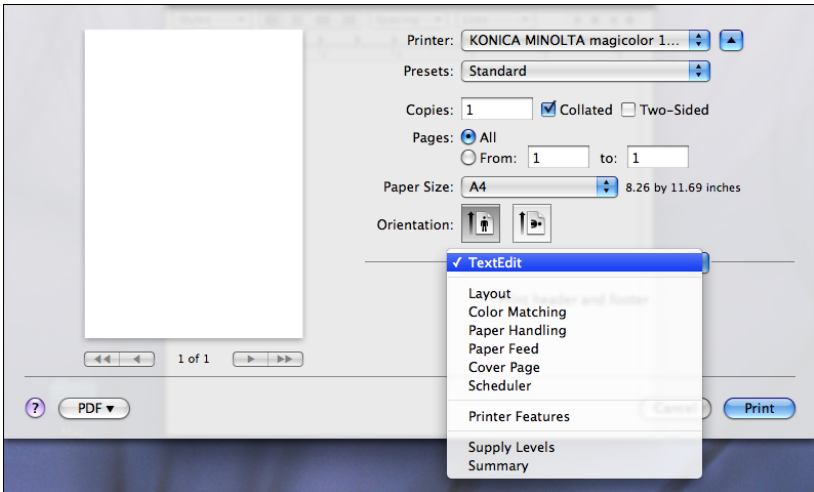
1 Select **Print...** from the **File** menu.

*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 and the setting for double-sided 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.
Supply Levels	This section provides information for checking the amount of service life remaining on each consumable.
Summary	This is used to check the current settings.



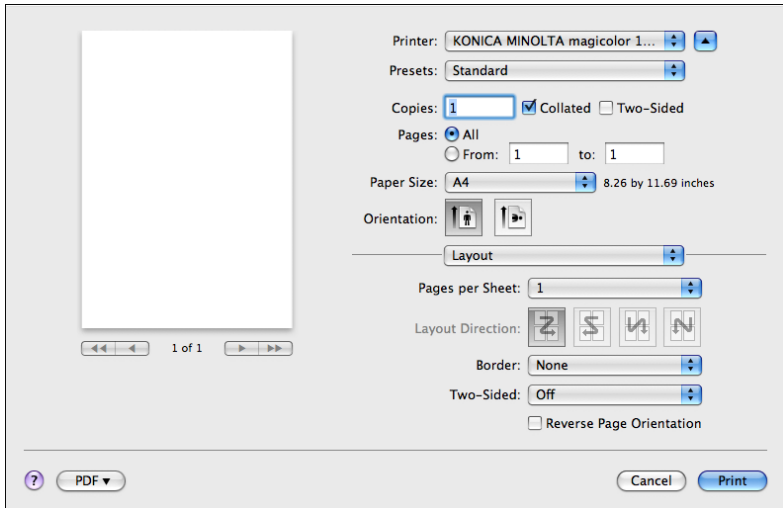
No warning message will be displayed if options cannot be used together are selected.

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. If **Two-Sided** checkbox is selected, the document is printed on both sides of the paper.
- 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 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

Select the desired setting for double-sided printing.

Off: Double-sided printing is not performed.

Long-edged binding: Double-sided printing is performed with the binding along the long edge of the paper.

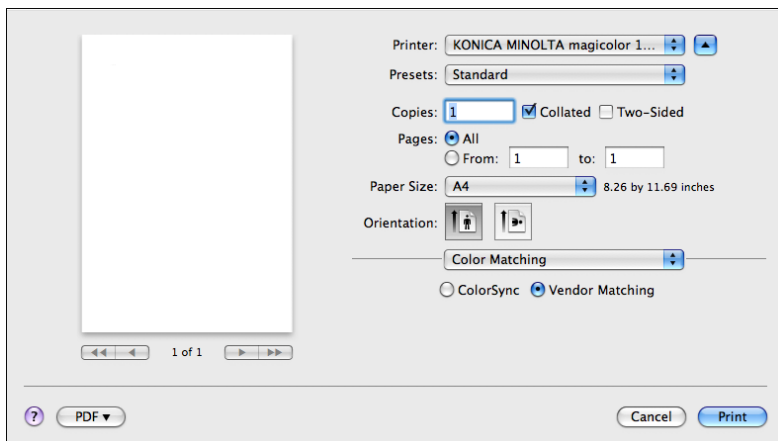
Short-edged binding: Double-sided printing is performed with the binding along the short edge of the paper.



To print on both sides of the paper, Duplex Option must be selected under *Installable Options* (p. 1-33). The **Long-edged binding** check box or **Short-edged binding** check box can be selected even when the Duplex Options is not installed. However, in this case, the print job will be cancelled.

- Reverse Page Orientation
The printing direction is inverted vertically.

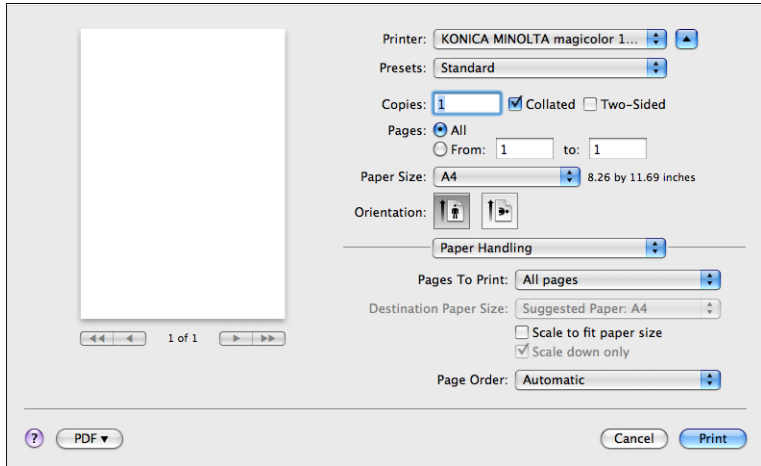
Color Matching



- 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

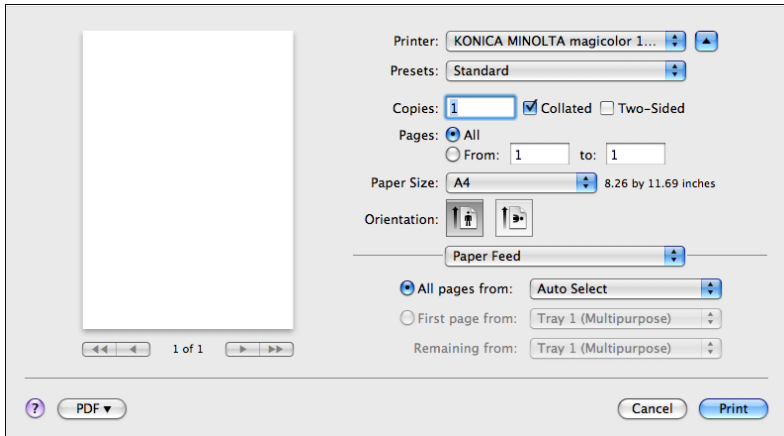
Automatic: Select this option to print in the original page order of the document.

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.

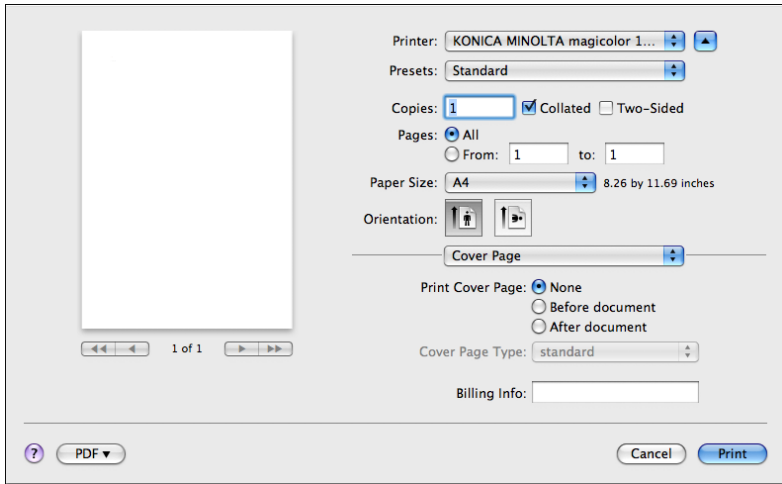


- **All pages from**
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**
The rest of the document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



*If an optional lower feeder unit is installed, select **Tray2** under **Installable Options** (p. 1-33). If Tray 2 is not selected, Tray 2 appears in gray and cannot be selected.*

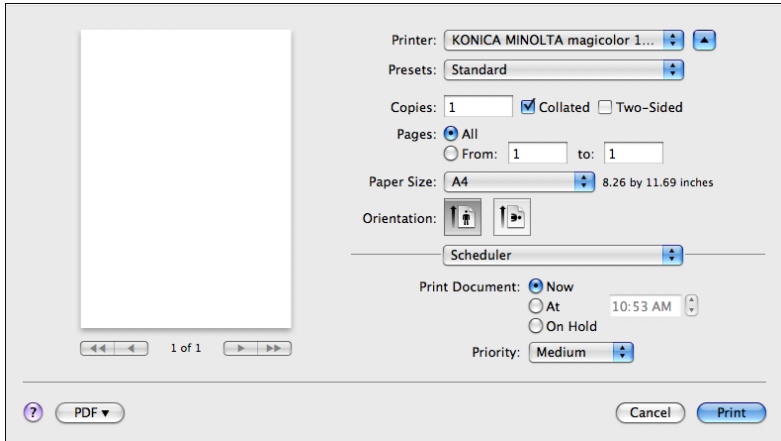
Cover Page



- **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.



- **Print Document**

Now: Select this option to begin printing immediately.

At: Specify the time to begin printing.

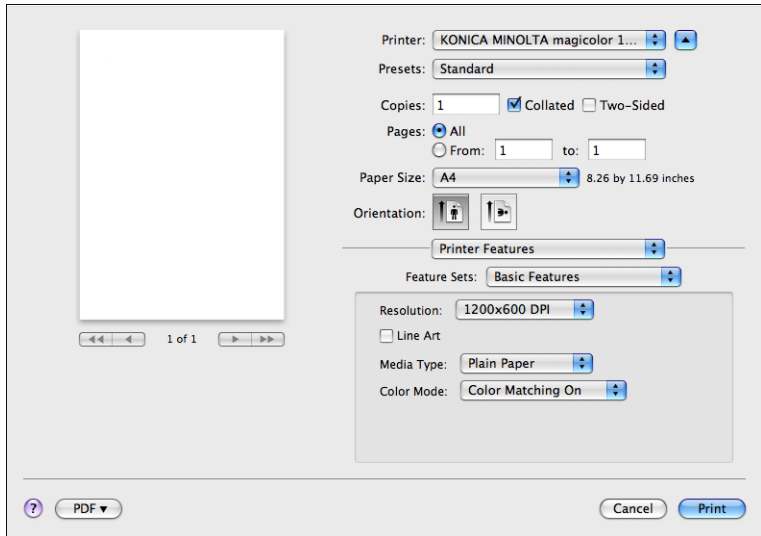
On Hold: Select this option to hold the print job.

- **Priority**

Select the priority for printing jobs that are being held.

Printer Features

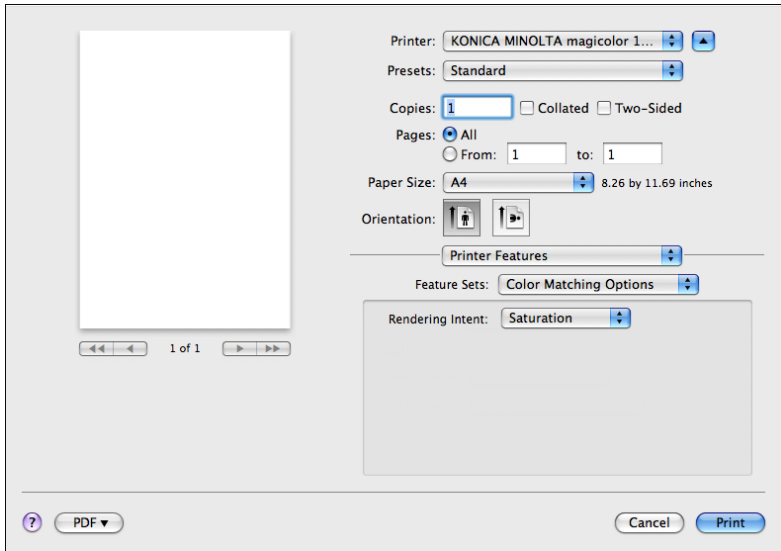
The Printer Features section is used to specify the resolution, paper type, color options, watermark options etc., for the **Basic Features**, **Color Matching Options**, **Image Options**, **Watermark Selection**, **Watermark Orientation**, and **Watermark Setting** feature sets.



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

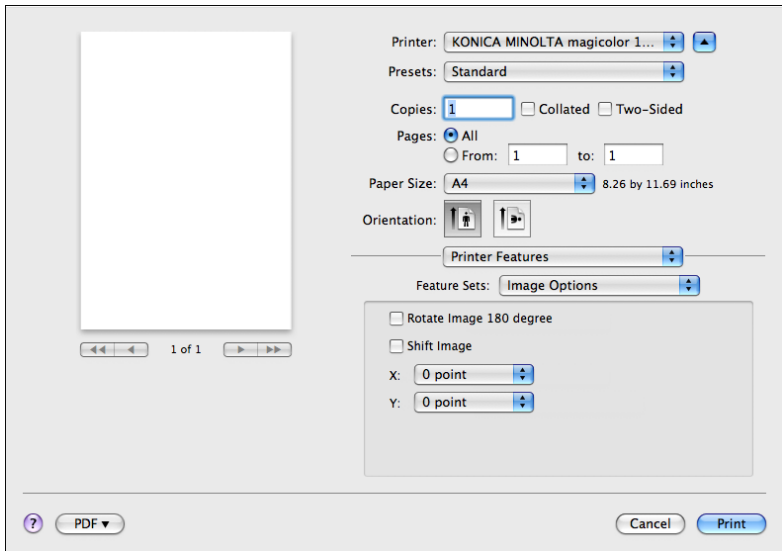
This option specifies the color matching settings.

Perceptual: Performs suitable color matching for photographic images.

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

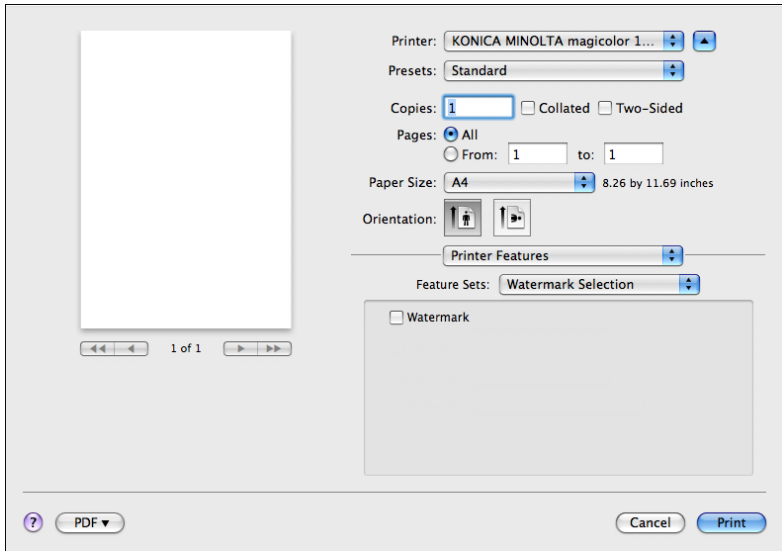
Saturation: Performs suitable color matching for business graphics.

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.

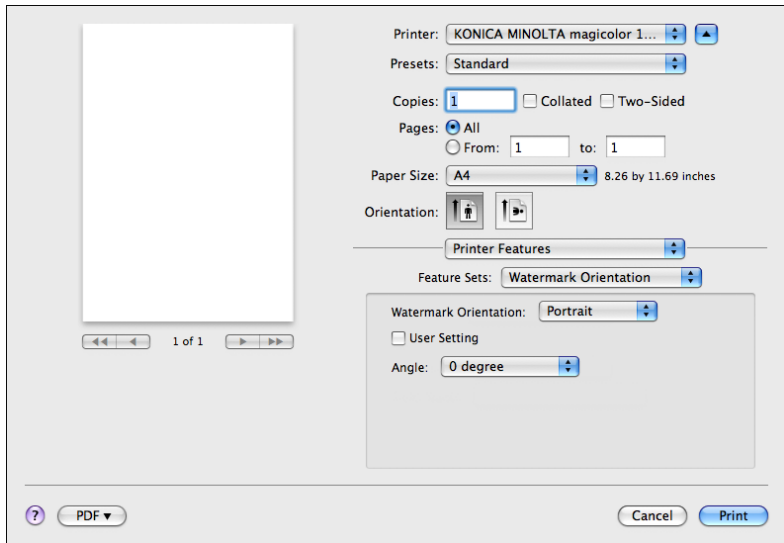
Watermark Selection



■ Watermark

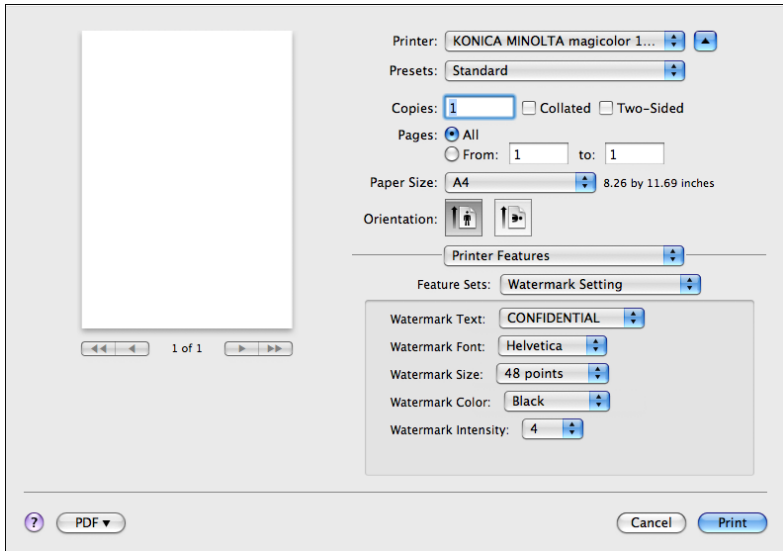
This specifies whether to use a watermark point.

Watermark Orientation



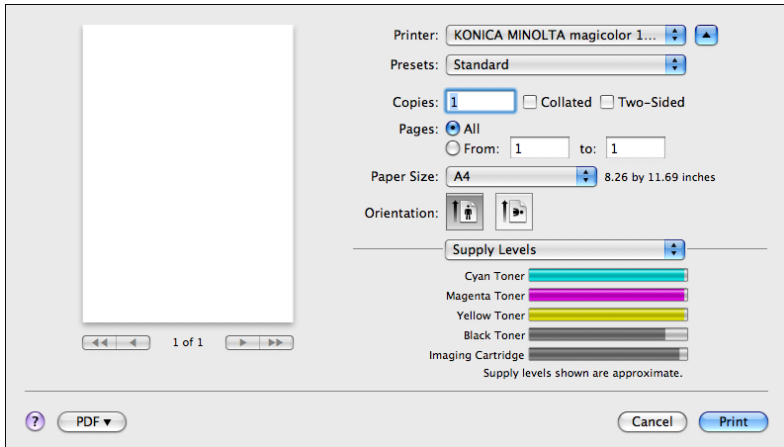
- **Watermark Orientation**
This option specifies the direction of the text in a watermark.
- **User Setting**
Select this check box to select the angel of the watermark.
- **Angle**
Select the angel of the watermark.

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.

Supply Levels



The **Supply Levels** section provides information for checking the amount of service life remaining on each consumable.



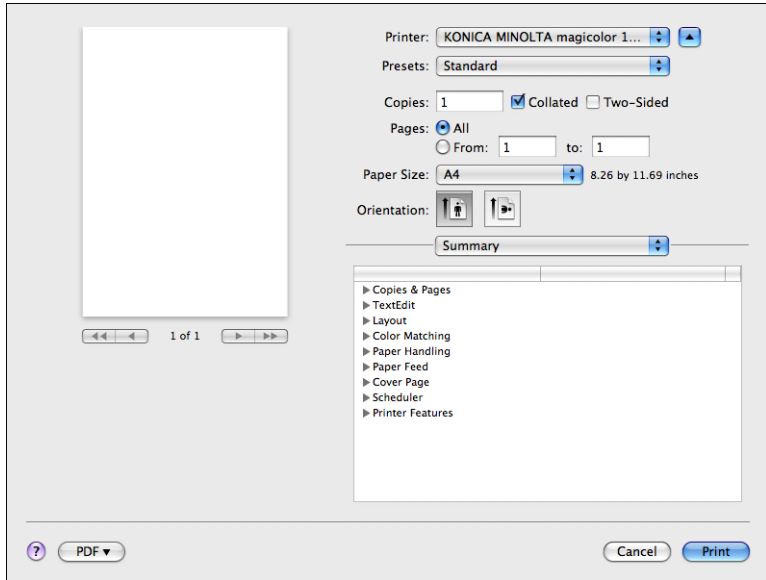
*The **Supply Levels** section appears when a printer is created on Mac OS X v10.5 with a Bonjour, IPP, LPD, Socket connection.*



*The **Supply Levels** section may not appear depending on the application you use.*

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, Network connection (10Base-T/100Base-TX)
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.



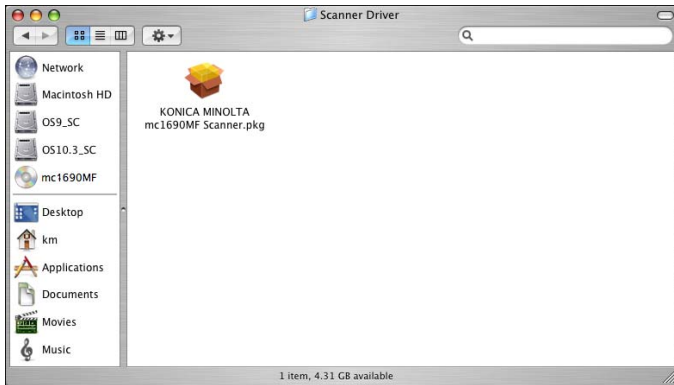
In the following text, “TWAIN driver” may be used to indicate the scanner driver.

Installing the Scanner Driver



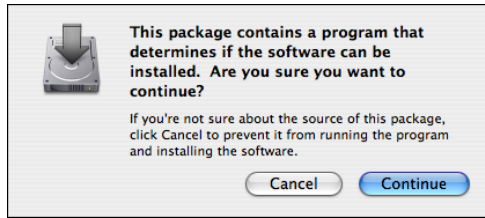
The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 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 mc1690MF Scanner.pkg**.

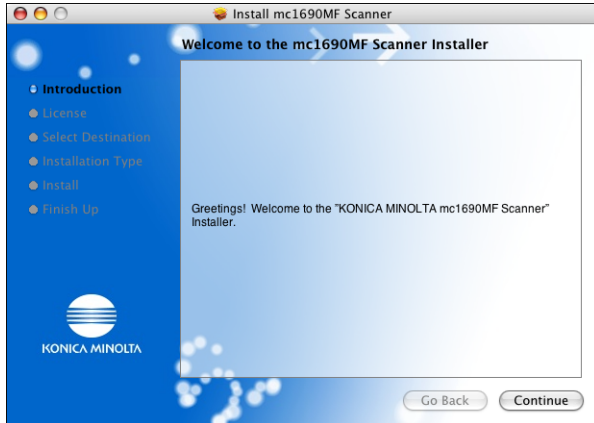


The installer for the scanner driver starts up.

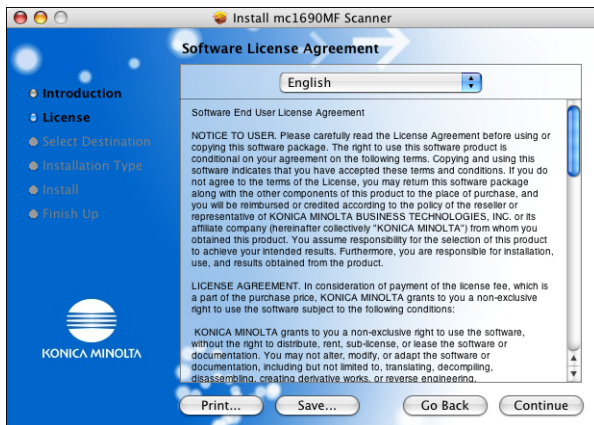
3 Click **Continue**.



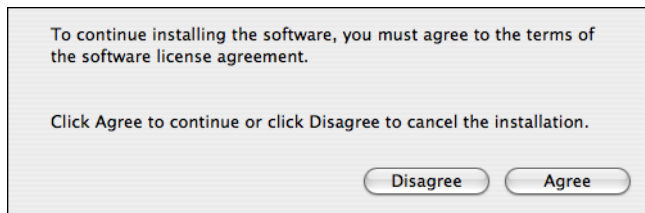
4 Click **Continue**.



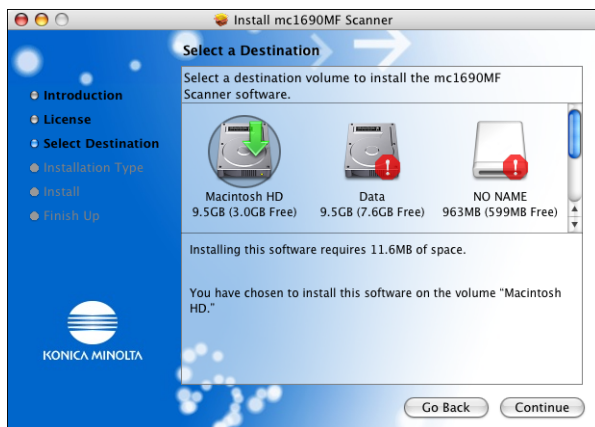
5 Check the details of the license agreement, and then click **Continue**.



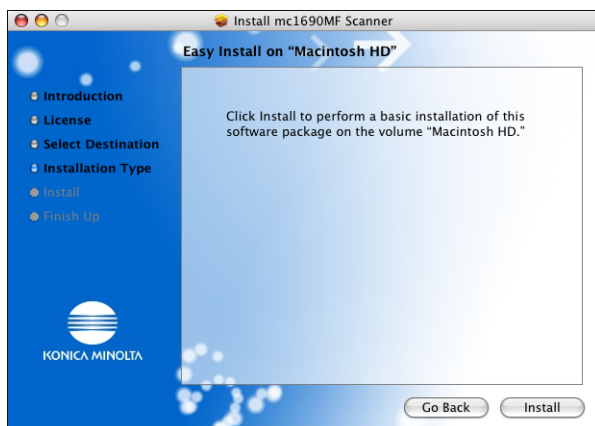
- 6 Click **Agree** in the confirmation dialog box if you agree to the terms of the license.



- 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.

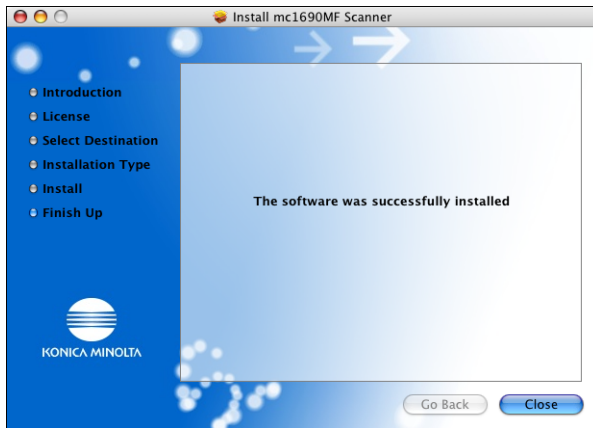


- 9 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



Installation starts.

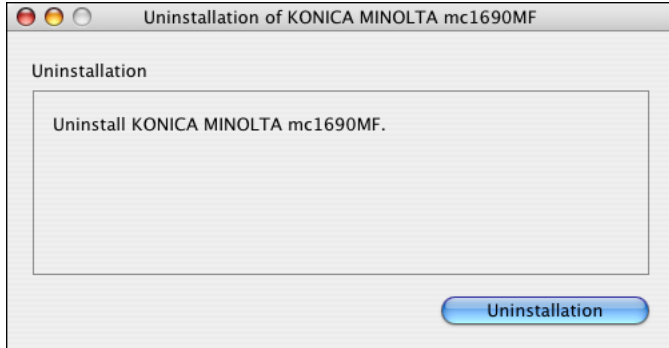
- 10 After the installation has been completed, click **Close**.



This completes the installation of the scanner driver.

Uninstalling the Scanner Driver

- 1 Double-click **KONICA MINOLTA mc1690MF Uninstaller.app**, which can be accessed by clicking Library, then Application Support, KONICA MINOLTA, then mc1690MF.
- 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

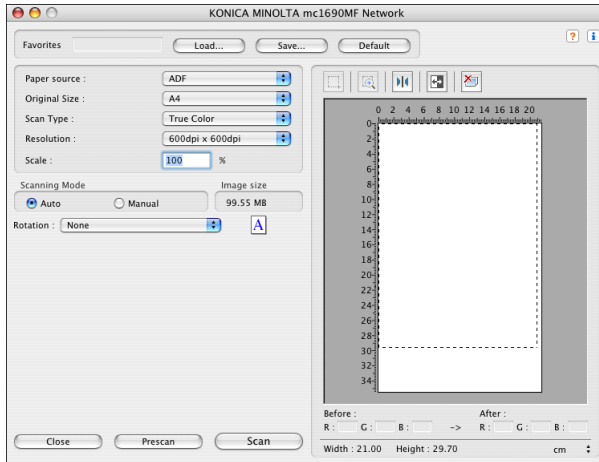
Documents can be scanned from a computer connected to this machine with a USB cable or via a network. Scanning settings can be specified and the scanning operation can be performed from TWAIN-compatible applications. From the scanner driver, a preview can be displayed and various adjustments, such as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

Basic Scanning Operation




- 1 Place the document to be scanned in the ADF or on the original glass.
- 2 Start the application to be used for scanning.
- 3 Start the scanner driver according to the application settings.
 - When connecting via network, select **KONICA MINOLTA mc1690MF Network**.
 - When connecting with a USB cable, select **KONICA MINOLTA mc1690MF**.
- 4 Specify the necessary scanner driver settings.
 -  *For details on scanner driver setting, refer to “Specify the Scan Settings” on page 1-85.*
- 5 Click the **Scan** button in the scanner driver.

Specify the Scan Settings

Auto Scanning Mode



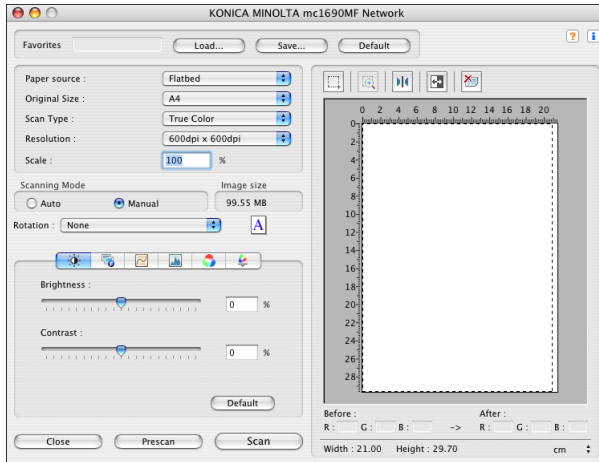
- Load
Load a saved settings file (dat file) for scanning.
- Save
Save the current settings as a settings file (dat file).
- Default
Return all settings to their defaults.
- Help icon
Click to display the Help.
- About icon
Click to display the software version information.
- Paper source
Select whether documents are placed on the original glass or loaded into the ADF.
- 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.

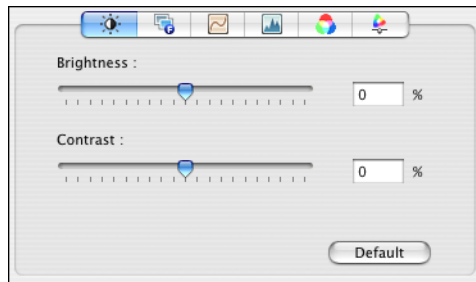
- **Width/Height**
Displays the width and height for the selected area in the selected measurement units.

Manual Scanning Mode

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

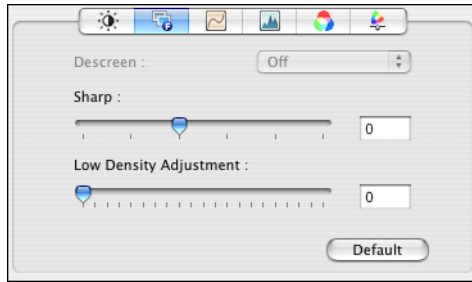


- **Brightness/Contrast**



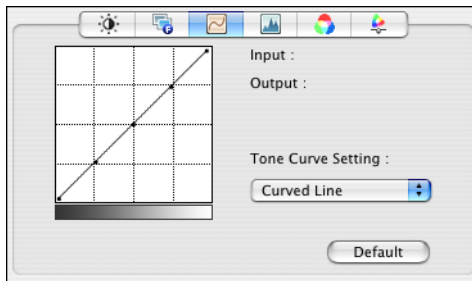
This function is used to set the brightness and contrast of the image.

■ Filter



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

■ Curves

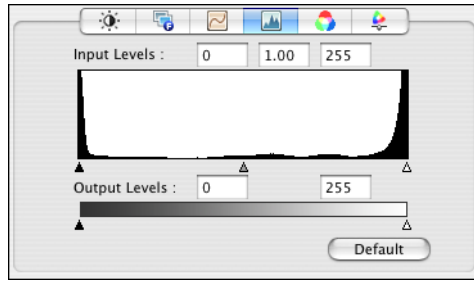


This function is used to set the gamma of the image. In the graph, the X-axis represents the input level, and the Y-axis represents the output level. The selections include, 'Value Input', 'Folded Line', and 'Curved Line'. There are three input controls available: the scroll bar, the editing field, or 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.



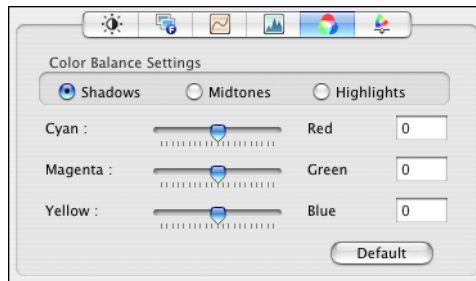
The scroll bar and editing field are displayed when 'Value Input' is selected.

■ Levels



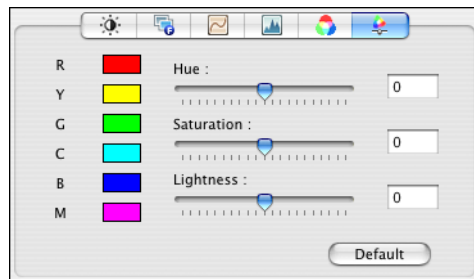
This function is used to set the gamma value, increase shadow and highlight areas, enhance shadow value and reduce highlight value. The X-axis indicates the scaling value and the Y-axis indicates the pixel value. The shadow, gamma and highlight values for the scanned image can be adjusted by dragging 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.
The printer is not detected using Rendezvous/Bonjour.	Using Administrator mode in PageScope Web Connection, select the Enable from the Bonjour list on the Bonjour page.
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").

Symptom	Solution
When printing 2 pages on a single sheet of paper, the pages are not centered on the paper.	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. Legal, Letter Plus, Foolscap, Government Legal, Statement, Folio
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 or via a network, and then install LinkMagic on the computer.

- 1 Use the USB cable or Ethernet 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



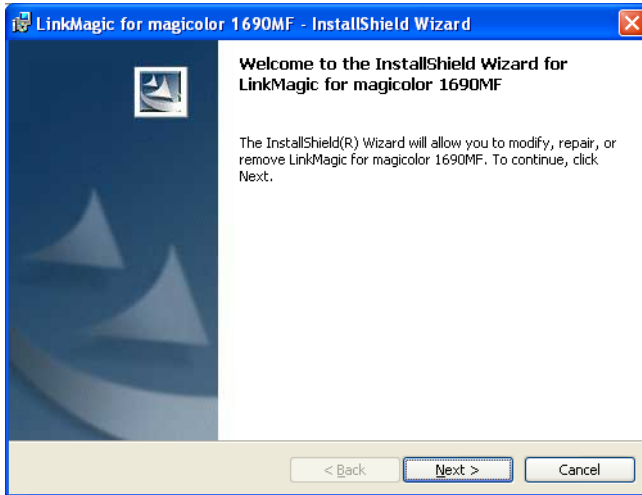
You must have administrator privileges in order to install the LinkMagic.



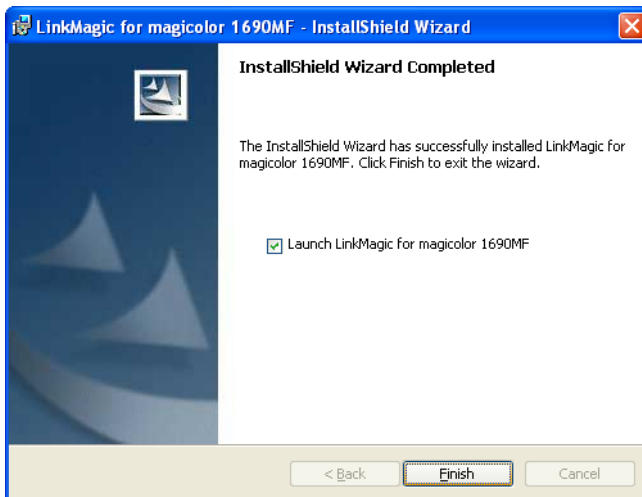
*If the User Account Control window appears when installing on Windows Vista, click the **Allow** button or the **Continue** button.*

- 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.



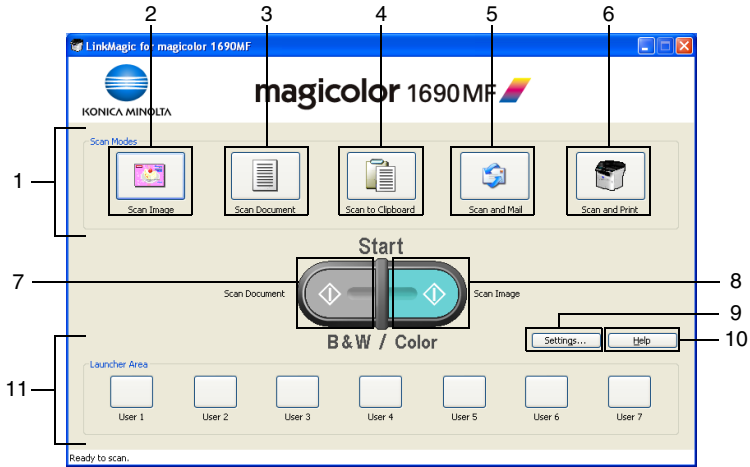
The installation of LinkMagic is completed.

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 2-33)</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 2-31)</p>

Using LinkMagic

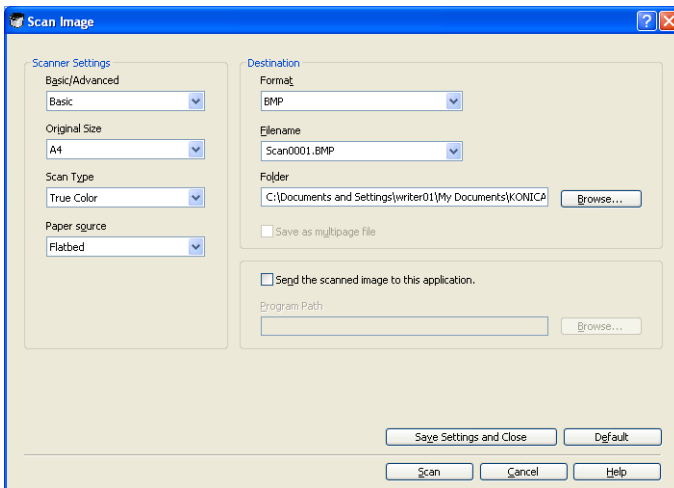
Saving Scanned Images as Files

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.
- 2 Select “Local Scanner (USB)” or “Network Scanner” for the connected scanner, and then click **OK** button.
The Scan Image or Scan Document dialog box appears.



- 3 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, and then select from the “Paper source” list whether to scan from the original glass (Flatbed) or the ADF.
 - 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*.

- 4 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.

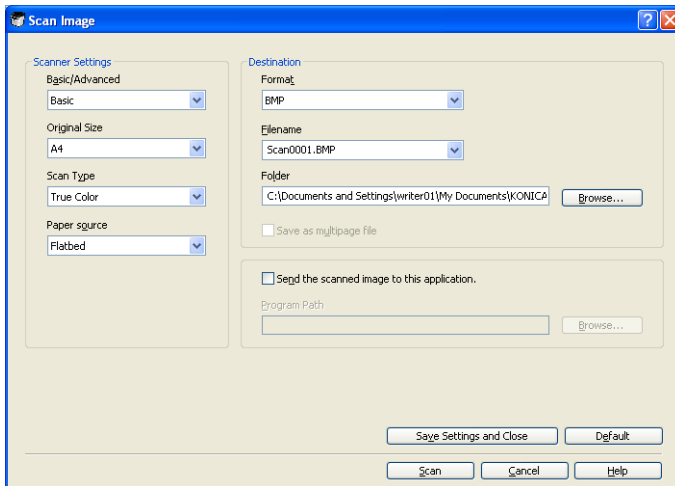
- 5 To start up software and display the scanned image after the image is scanned, select the “Send the scanned image to this application.” check box, and then specify the software to be started up.






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


- 6 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", "Scan Type", and "Paper source" 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>
"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 Setting dialog box that appears.</p> <ul style="list-style-type: none"> ■ Choices <ul style="list-style-type: none"> Flatbed: A4, B5, A5, Letter, Custom Size ADF: A4, B5, A5, Legal, Letter, Custom Size Default: Letter (English), A4 (except English) ■ Custom Size Settings (for Flatbed) <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 ■ Custom Size Settings (for ADF) <ul style="list-style-type: none"> Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 355 mm (0.5 - 14.00 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
	<p data-bbox="275 121 477 145">"Paper source" list</p> <p data-bbox="488 121 978 177">Select whether to scan from the original glass (Flatbed) or the ADF.</p> <p data-bbox="488 197 732 221">Choices: Flatbed, ADF</p> <p data-bbox="488 242 661 266">Default: Flatbed</p>
<p data-bbox="215 284 471 308">"Destination" group box</p>	
	<p data-bbox="275 323 409 347">"Format" list</p> <p data-bbox="488 323 958 379">Select the file format for saving the scanned image.</p> <p data-bbox="488 400 835 424">Choices: BMP, JPEG, PDF, TIFF</p> <p data-bbox="488 445 631 469">Default: BMP</p> <p data-bbox="488 489 975 545">The scanned image can be saved in the BMP file format up to 4 GB per file.</p> <p data-bbox="488 566 986 647">The scanned image can be saved in the JPEG file format up to 65535 pixel (length) x 65535 pixel (width) per file.</p> <p data-bbox="488 668 997 750">The scanned image can be saved in the PDF or TIFF file format up to 4 GB or up to 150 pages per file.</p>
	<p data-bbox="275 770 432 794">"Filename" list</p> <p data-bbox="488 770 997 826">Specify the number to be added to the file name for the scanned image to be saved.</p> <p data-bbox="488 847 992 928">Even if a new file name has been specified, file names that have been used can also be selected from the list.</p> <p data-bbox="488 949 992 1046">  <i>If there are no numbers at the end of the specified file name, "0001" is automatically added.</i> </p> <p data-bbox="488 1069 997 1198">  <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 data-bbox="488 1219 799 1243">Range: Up to 255 characters</p> <p data-bbox="488 1264 827 1287">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 1690MF\MyData</p> <p>(For Windows Vista) \Users\[Login user name]\Documents\KONICA MINOLTA\LinkMagic for magicolor 1690MF\MyData</p>
	<p>“Save as multi-page file” check box</p> <p>Select this check box to save the file in a multi-page format when images are scanned continuously with the ADF.</p> <p> <i>This option is available when “TIFF” or “PDF” is selected in the “Format” list.</i></p> <p>Default: Checked</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>

Name	Description
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.

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.

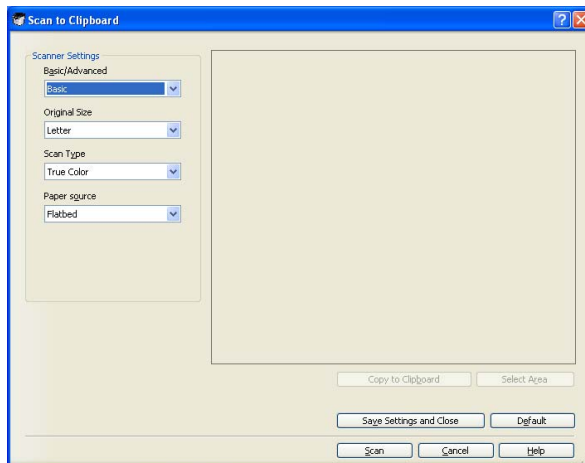


For details on the settings available in the Scan to Clipboard dialog box, refer to “Description of the Scan to Clipboard Dialog Box” on page 2-15.



With this procedure, the ADF cannot be used to scan continuously. If multiple pages are scanned, only the first page is displayed in the preview area.

- 1 In the “Scan Modes” group box of the main window, click the **Scan to Clipboard** button.
- 2 Select “Local Scanner (USB)” or “Network scanner” for the connected scanner, and then click **OK** button.
The Scan to Clipboard dialog box appears.

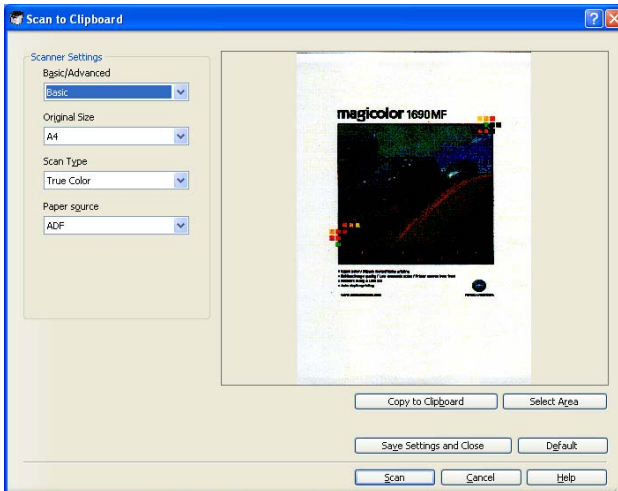


- 3** From the “Basic/Advanced” list in the “Scanner Settings” group box, select the general scan setting.
- If “Basic” is selected, scans will be produced with the basic settings. In the “Scanner Settings” group box, select the document size from the “Original Size” list and the document color type 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*.

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



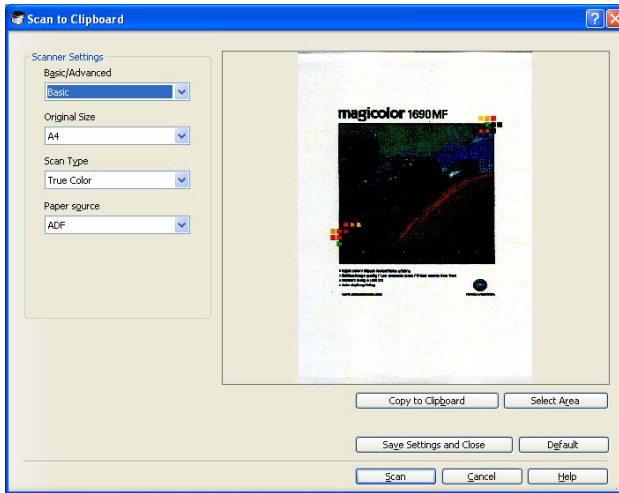
- 5** To select the area of the image to be copied, click the **Select Area** button, and then drag the pointer to select the area to be copied.





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

- 6** 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
"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 Setting dialog box that appears.</p> <ul style="list-style-type: none"> ■ Choices <ul style="list-style-type: none"> Flatbed: A4, B5, A5, Letter, Custom Size ADF: A4, B5, A5, Legal, Letter, Custom Size Default: Letter (English), A4 (except English) ■ Custom Size Settings (for Flatbed) <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 ■ Custom Size Settings (for ADF) <ul style="list-style-type: none"> Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 355 mm (0.5 - 14.00 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</p>
"Paper source" list	<p>Select whether to scan from the original glass (Flatbed) or the ADF.</p> <p>Choices: Flatbed, ADF</p> <p>Default: Flatbed</p>
Preview area	<p>The scanned image appears on the right side of the dialog box.</p>
Copy to Clipboard button	<p>Click this button to copy the image displayed in the preview area to the Clipboard.</p> <p>If an area was selected, only that area is copied.</p>

Name	Description
Select Area button/ Delete Selection button	<p>To select the area to be copied from the preview area, click the Select Area button.</p> <p>When the Select Area button is clicked, it changes to the Delete Selection button.</p> <p>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.
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



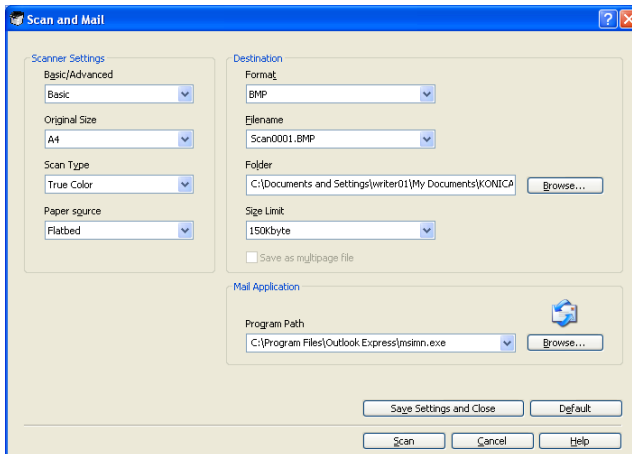
With one operation, only one file can be attached to an E-mail message. If the Paper source is used to scan multiple document pages and “BMP” or “JPEG” is selected in the “Format” list, only the first page is attached to the E-mail message.

If “PDF” or “TIFF” is selected in the “Format” list, a multi-page file is attached.



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.
- 2 Select “Local Scanner (USB)” or “Network scanner” for the connected scanner, and then click **OK** button.
The Scan and Mail dialog box appears.



- 3** 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*.

- 4** 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.

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

- 6** 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.

- 7** Click the **Scan** button.

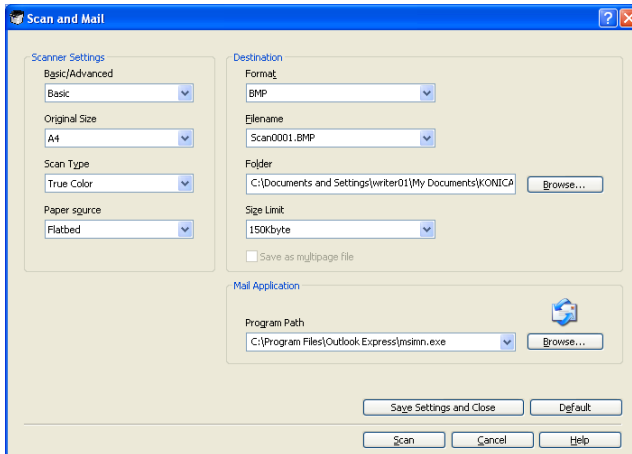
Scanning begins, and a new E-mail message is created with the scanned image attached.






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.



- 8** 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", and "Paper source" 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
"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 Setting dialog box that appears.</p> <ul style="list-style-type: none"> ■ Choices <ul style="list-style-type: none"> Flatbed: A4, B5, A5, Letter, Custom Size ADF: A4, B5, A5, Legal, Letter, Custom Size Default: Letter (English), A4 (except English) ■ Custom Size Settings (for Flatbed) <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 ■ Custom Size Settings (for ADF) <ul style="list-style-type: none"> Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 355 mm (0.5 - 14.00 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</p>
"Paper source" list	<p>Select whether to scan from the original glass (Flatbed) or the ADF.</p> <p>Choices: Flatbed, ADF</p> <p>Default: Flatbed</p>
"Destination" group box	<p>Select the settings for saving scanned images.</p>
"Format" list	<p>Select the file format for the scanned image.</p> <p>Choices: BMP, JPEG, PDF, TIFF</p> <p>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 1690MF\MyData (For Windows Vista) \Users\[Login user name]\Documents\KONICA MINOLTA\LinkMagic for magicolor 1690MF\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>“Save as multi-page file” check box</p>	<p>Select this check box to save the file in a multi-page format when images are scanned continuously with the ADF.</p> <p> <i>This option is available when “TIFF” or “PDF” is selected in the “Format” list.</i></p> <p>Default: Checked</p>
<p>“Mail Application” group box</p>	<p>Specify the E-mail application used for attaching the image.</p>

Name	Description
"Program Path" list	<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>
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.
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.

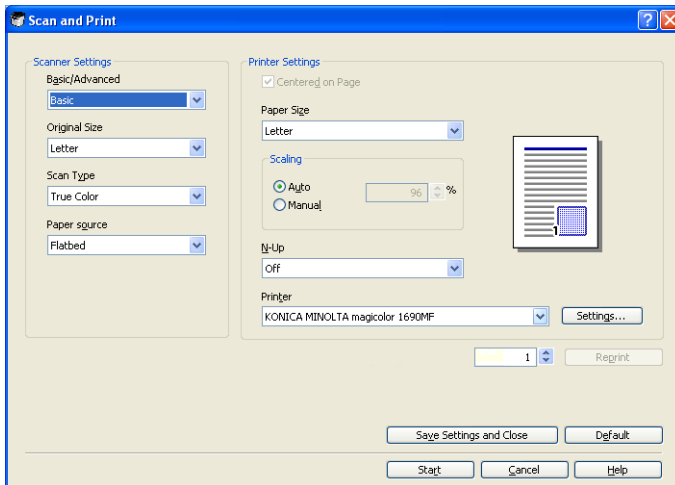
Printing Scanned Images

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 2-27.

- 1 In the “Scan Modes” group box of the main window, click the **Scan and Print** button.
- 2 Select “Local Scanner (USB)” or “Network scanner” for the connected scanner, and then click **OK** button.
The Scan and Print dialog box appears.



- 3 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, and then select from the “Paper source” list whether to scan from the original glass (Flatbed) or the ADF.
 - 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.

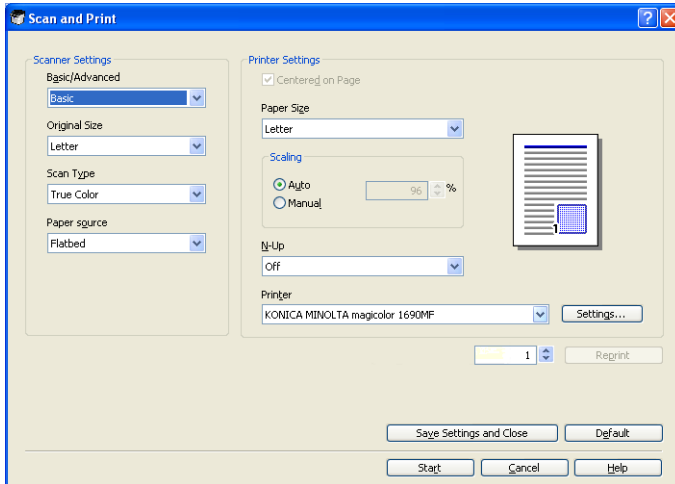
- 4 In the “Printer Settings” group box, specify the settings for printing the scanned image.





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.




- 5 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", "Scan Type", and "Paper source" 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
"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 Setting dialog box that appears.</p> <ul style="list-style-type: none"> ■ Choices <ul style="list-style-type: none"> Flatbed: A4, B5, A5, Letter, Custom Size ADF: A4, B5, A5, Legal, Letter, Custom Size Default: Letter (English), A4 (except English) ■ Custom Size Settings (for Flatbed) <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 ■ Custom Size Settings (for ADF) <ul style="list-style-type: none"> Width: 13 - 215 mm (0.5 - 8.50 in) Height: 13 - 355 mm (0.5 - 14.00 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</p>
"Paper source" list	<p>Select whether to scan from the original glass (Flatbed) or the ADF.</p> <p>Choices: Flatbed, ADF</p> <p>Default: Flatbed</p>
"Printer Settings" group box	<p>Specify the settings for printing the scanned image.</p>
"Centered on Page" check box	<p>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>Default: Checked</p>

Name	Description
<p>“Paper Size” list</p>	<p>Select the size of paper that is to be printed.</p> <p> <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>Choices: Paper sizes available with the selected printer</p> <p>Default: Paper specified by the selected printer</p>
<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>

Name	Description
Reprint button	<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>
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.
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.

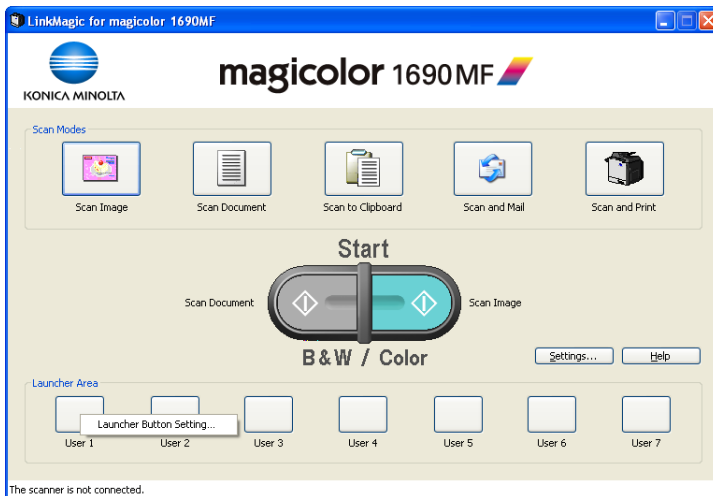


The launcher buttons are automatically programmed with the following software if they are installed on the computer.

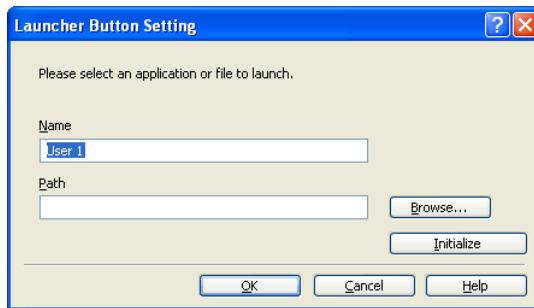
- Microsoft Word 2000/XP/2003/2007
- Microsoft Excel 2000/XP/2003/2007
- Microsoft PowerPoint 2000/XP/2003/2007
- PaperPort 10 SE/11 SE
- Fax Talk 4.7
- Adobe Photoshop CS2/CS3

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.

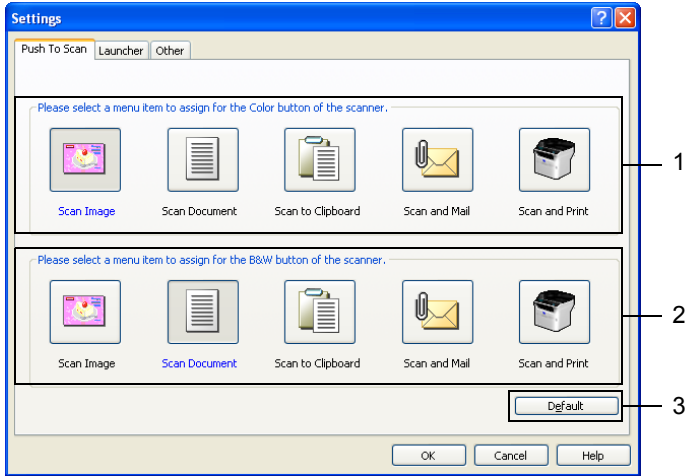


Click the **Initialize** button to reset the settings to their defaults.

Settings Dialog Box

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

Push To Scan Tab

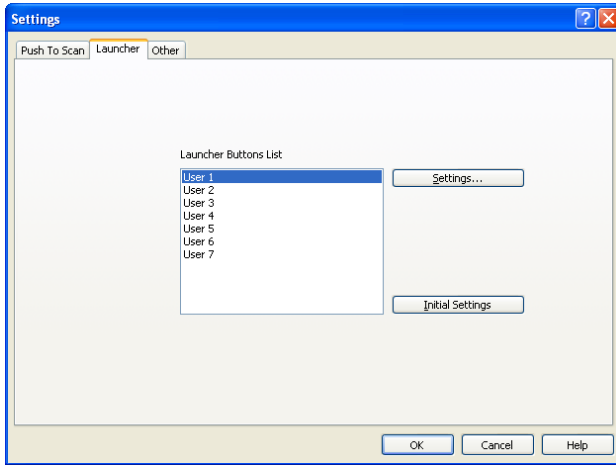


No.	Item	Description
1	Assigned link to Start—Color key	Select the button for the function to be assigned to the Start—Color key on the machine. Default: Scan Image
2	Assigned link to Start—B&W key	Select the button for the function to be assigned to the Start—B&W key on the machine. Default: Scan Document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



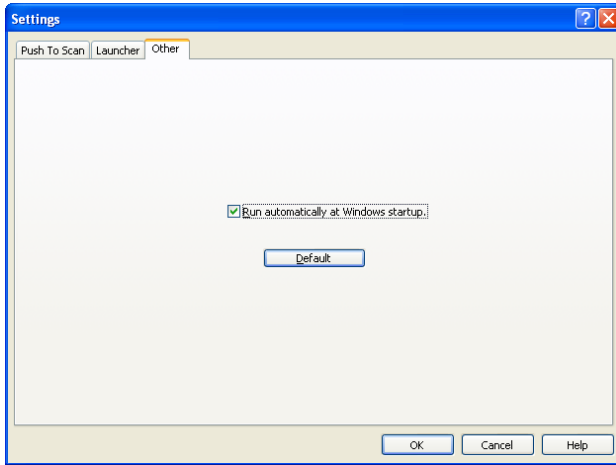
*The same function cannot be assigned to both the **Start—Color** key and the **Start—B&W** key.*

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 2-31)
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.

***Using Local
Setup Utility
(LSU)***

3



About Local Setup Utility (LSU)

By installing Local Setup Device (LSU) onto a computer connected to the machine, you can add, edit, delete of Addressbook, and check the counters and machine status from the computer.

The following operations can be performed using LSU.

- Save speed dialing, group dialing and favorite information onto a computer
- Change speed dialing, group dialing and favorite information
- Print speed dialing, group dialing and favorite information specified with this utility.
- Check the counters and machine status

LSU Operating Environment

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

Item	Operating environment
Operating system	Windows 2000 Server SP4 or later Windows XP for 32 bit/64 bit Windows Server 2003 for 32 bit/64 bit Windows Vista for 32 bit/64 bit
Processor	Pentium II or faster
Memory	Memory capacity recommended for the operating system. There should be enough memory for the operating system and the applications used.
Available hard disk space	100 MB or more
Web browser	Internet Explorer version 5.0 or later
Supported languages	English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese, Japanese



Use a USB cable with an A-type connector (4-pin male) and a B-type connector (4-pin male). We recommend that the USB cable be no more than 3 meters (10 feet) long.



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

Installing LSU

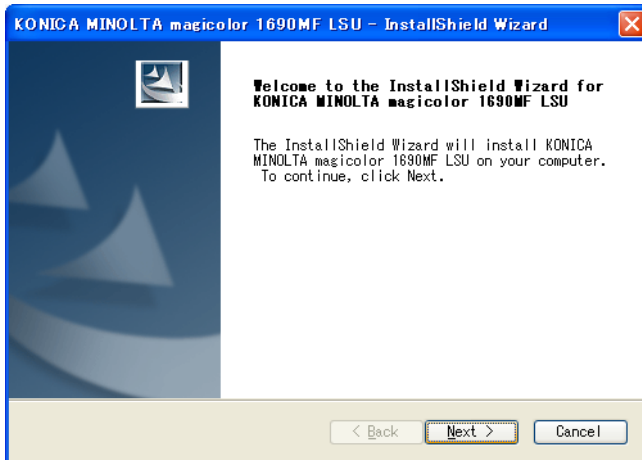


You must have administrator privileges in order to install the LSU.

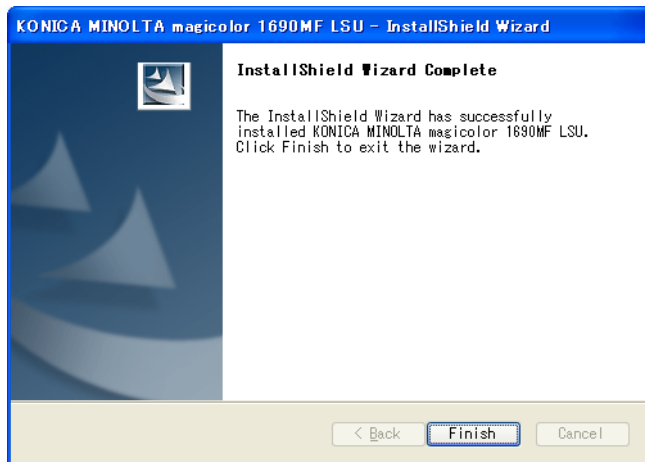


If the User Account Control window appears when installing on Windows Vista, click the **Allow** button or the **Continue** button.

- 1 Insert Applications CD/DVD in your CD/DVD-ROM drive.
- 2 Select the language.
- 3 From the Application Setup dialog, select “LSU”, and then click “Install”. The installer starts up.
- 4 Click the **Next** button, and then follow the on-screen instructions.



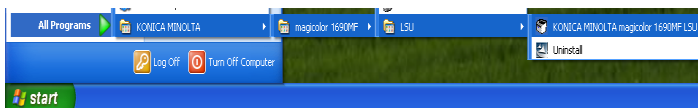
- 5 When a message appears, indicating that the installation of LSU is finished, click the **Finish** button.



The installation of LSU is completed.

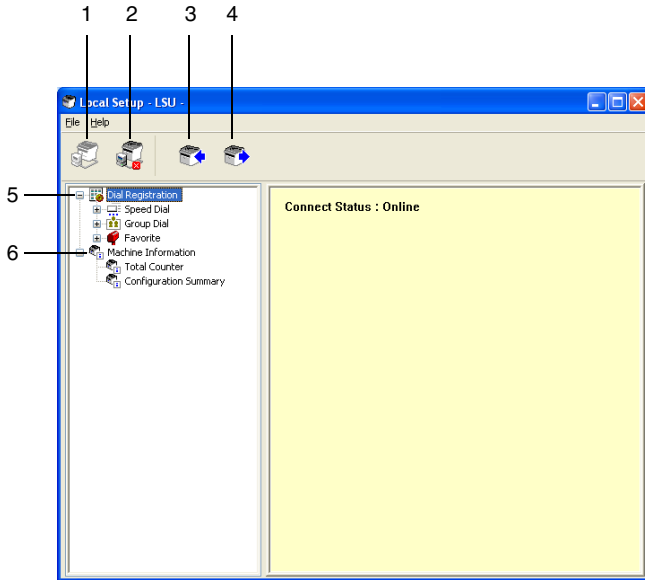
Starting Up LSU

- 1 Click the Start button, point to "All Programs (Windows 2000: Programs)", "KONICA MINOLTA", "magicolor 1690MF", "LSU", and then click "KONICA MINOLTA magicolor 1690MF LSU".



The main window of LSU appears.

Main LSU Window



No.	Name	Description
1	Connect button	Click this button to connect the machine with the computer.
2	Disconnect button	Click this button to cut the connection between the machine and the computer.
3	Upload button	Click this button to send the settings file to the machine.
4	Download button	Click this button to send the machine's settings to the computer.
5	Dial Registration	Click [+] beside the machine icon to display the machine speed dialing, group dialing and favorite settings.
6	Machine icon	Click [+] beside the machine icon to display the machine information. For details, refer to "Displaying Machine Information" on page 3-16.

Connecting to the Machine


1 Click .

When LSU is connected to the machine, "Connect Status: Online" appears.




While operations are being performed in LSU, the machine cannot be operated from its control panel.

Downloading Information from the Machine

Click  to download all information programmed on the machine.

Uploading Information to the Machine

Click  to upload all information to be programmed on the machine.

Dial Import/Dial Export

By clicking "Dial Import" on the "File" menu, all information for speed dialing, group dialing and favorites is imported onto the machine. This information can also be exported by clicking "Dial Export" on the "File" menu.



When machine information is imported or exported, the last file that was read and saved is opened.





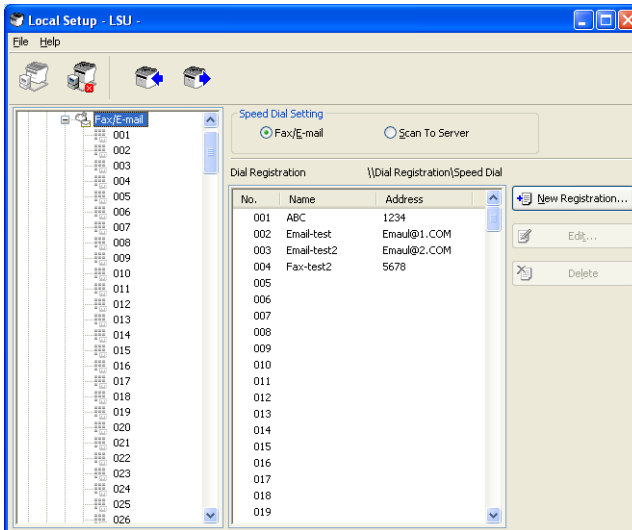
Do not import CSV files edited in Excel.



Settings for dial destination

This section provides descriptions on the settings that appear for speed dialing, group dialing, favorites and machine information.

Programming a Speed Dial Number

- 1 Click  beside “Dial Registration”, and then click  beside the “Speed Dial”.



- 2 To register a fax or e-mail destination, click  beside “Fax/E-mail”. To register an FTP or SMB destination, click  beside “Scan To Server”.
- 3 From the tree that is displayed, click the speed dial number to be programmed, and then click **New Registration** button.



A maximum of 001-250 speed dial numbers can be programmed.



The registered list can be switched over when **Speed Dial Setting** is changed.



When “Fax/E-mail” or “Scan To Server” is selected, and **New Registration** button can be selected, non registered number is automatically assign the speed dial number.

- 4 In the Speed Dial Registration dialog box, specify the desired settings.



To register a fax or e-mail destination, refer to “Adding a Speed Dial Number (Fax/E-mail)” on page 3-8.



To register an FTP or SMB destination, refer to “Adding a Speed Dial Number (Scan To Server)” on page 3-9.

The screenshot shows a dialog box titled "Speed Dial Registration Fax/E-mail #001". It has a "Register" section with radio buttons for "Fax" (selected) and "E-mail". Below that is a "Fax" section with a "Name" field containing "A001" and a "Destination Number" field containing "1". To the right is an "Add to Group" section with a list of groups: "FAX" (checked), "Group02", "Group03", "Group04", "Group05", "Group06", "Group07", and "Group08". At the bottom are "OK" and "Cancel" buttons.

- 5 Click the **OK** button.
Programming of the speed dial number is completed.

Adding a Speed Dial Number (Fax/E-mail)

The following procedures describe how to send scan data with a fax number or e-mail address. The transmission settings and destination can first be registered as a speed dial number.

For registering a fax number


- 1 Click the **New Registration** button.
- 2 Select “Fax”.
- 3 Specify the settings for the speed dialing.
 - A maximum of 20 characters can be entered for a name.
 - A maximum of 50 numbers can be entered for a fax number.
- 4 Click the **Details** button, and then specify the transmission speed and batch transmission time.
- 5 When registering speed dial numbers to a group, select from “Add to Group” list.
These speed dial numbers cannot be added to groups registered with an e-mail address.



To edit a group dial, refer to “Programming/Editing a Group Dial” on page 3-12.

- 6 Click the **OK** button.
The added speed dial number appears in the “Dial Registration” list.

For registering an E-mail address

- 1 Click the **New Registration** button.
- 2 Select “E-mail”.
- 3 Specify the settings for the speed dialing.
 - A maximum of 20 characters can be entered for the name.
 - A maximum of 64 characters can be entered for the E-mail address.
- 4 When registering speed dial numbers to a group, select from “Add to Group” list.
These speed dial numbers cannot be added to groups registered with a fax number.
 *To edit a group dial, refer to “Programming/Editing a Group Dial” on page 3-12.*
- 5 Click the **OK** button.
The added speed dial number appears in the “Dial Registration” list.

Adding a Speed Dial Number (Scan To Server)

The following procedures describe how to send scan data via a server. The transmission settings and destination can first be registered as a speed dial number.

For FTP transmissions

- 1 Click the **New Registration** button.

2 Select "FTP".

The screenshot shows the 'Speed Dial Registration Scan To Server #223' dialog box. The 'Register' section has two radio buttons: 'FTP' (selected) and 'SMB'. The 'FTP' section includes fields for 'Destination Name', 'Directory', 'Remote Port Number' (set to 21), 'FTP Server Address', 'Color Setting' (Color or Gray), 'Attachment file format' (PDF), 'Resolution' (150x150), 'Coding method' (MH), 'Mode' (MIX), and 'Scan area' (A4). There is an unchecked checkbox for 'E-mail Notification' and a grid of ten 'Notification Address' fields (No.1 to No.10). The 'Account Information' section has two radio buttons: 'Anonymous' (selected) and 'Private Site'. It includes fields for 'User Name' (Anonymous), 'Confirm', and 'Password' (masked with asterisks). 'OK' and 'Cancel' buttons are at the bottom.

3 Specify the necessary information.

4 Click the **OK** button.

The registered speed dial number appears in the "Dial Registration" list.

For SMB transmissions

1 Click the **New Registration** button.

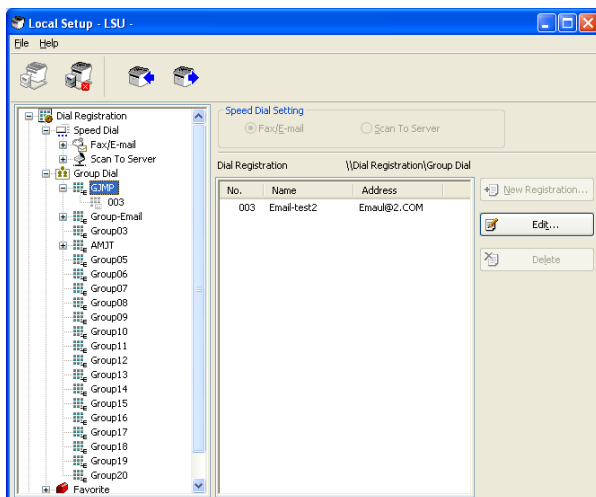
2 Select "SMB".

The screenshot shows the 'Speed Dial Registration Scan To Server #223' dialog box. The 'Register' section has two radio buttons: 'FTP' and 'SMB' (selected). The 'SMB' section includes fields for 'Destination Name', 'Directory', 'Destination Address', 'Color Setting' (Color or Gray), 'Attachment file format' (PDF), 'Resolution' (150x150), 'Coding method' (MH), 'Mode' (MIX), and 'Scan area' (A4). There is an unchecked checkbox for 'E-mail Notification' and a grid of ten 'Notification Address' fields (No.1 to No.10). The 'Account Information' section has two radio buttons: 'Anonymous' (selected) and 'Private Site'. It includes fields for 'User Name' (Anonymous), 'Confirm', and 'Password' (masked with asterisks). 'OK' and 'Cancel' buttons are at the bottom.

- 3 Specify the necessary information.
- 4 Click the **OK** button.
The registered speed dial number appears in the “Dial Registration” list.

Editing a Speed Dial Number

- 1 Select the speed dial number to be edited.
- 2 Click the **Edit** button.
Speed Dial Registration dialog box appears



- 3 Edit the settings as desired.
- 4 Click the **OK** button to apply the changes.
The edited speed dial number appears in the “Dial Registration” list.

Deleting a Speed Dial Number



- 1 Select the speed dial number to be deleted.
- 2 Click the **Delete** button.
The speed dial number is deleted from the “Dial Registration” list.

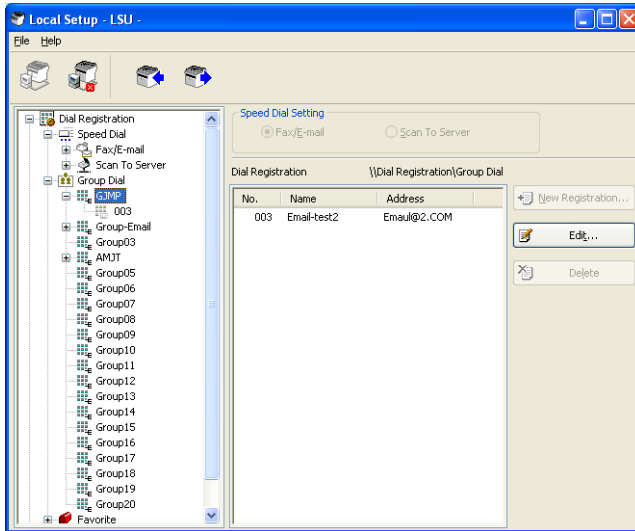
Programming/Editing a Group Dial

The following procedure describes how to edit or delete a group dialing program.




Program group dialing after programming speed dial numbers. Add or delete destinations from group dialing by changing the settings for the registered speed dial destinations. For details, refer to “Editing a Speed Dial Number” on page 3-11.

- 1 Click  beside “Dial Registration”, and then click  beside the “Group Dial”.



- 2 From the tree that is displayed, click the group name to be edited.



Click  beside the group name, and then displays the speed dial number that registered in the group.



A maximum of 20 group dial can be programmed.



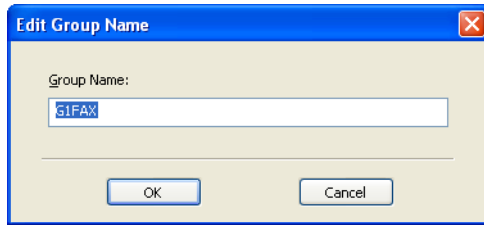
A maximum of 50 speed dial numbers can be programmed.

- 3 Click **Edit** button.



If a speed dial number in a group is selected, the registered information for the speed dial number can be changed. For details, refer to “Editing a Speed Dial Number” on page 3-11.

- Specify the name of the group.



- Click the **OK** button.
Editing of the group name is completed.

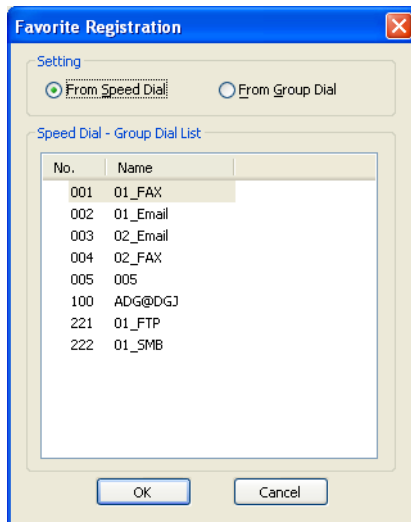
Registering to Favorites

This section provides details on registering speed dial numbers and group dial in the Favorite list. Frequently used speed dial numbers and group dial destinations can be registered in the Favorite list.



A maximum of 20 numbers can be registered to the favorite.

- Click **+** beside “Dial Registration”, and then click “Favorite”.
- Click the **New Registration** button.



- Click “From Speed Dial” or “From Group Dial”.
The corresponding list of registered destinations appears.

4 From the list, select the destination to be registered, and then click the **OK** button.

The registered destination appears in the “Dial Registration” list.



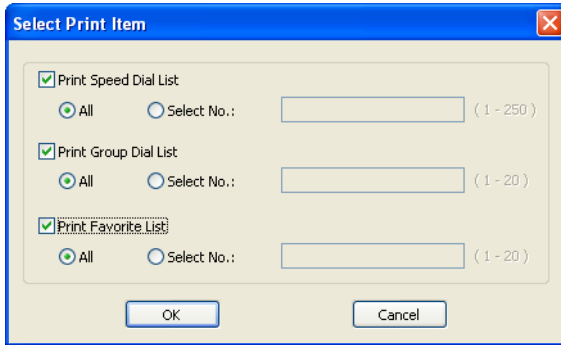
*To delete a destination from the Favorite list, select the desired destination, and then click the **Delete** button.*

Printing the List of Speed Dial, Group Dial and Favorite

The settings specified on the machine for speed dialing, group dialing and favorites can be printed.

1 Click "Print" on the "File" menu.

Select Print Item dialog box appears.



2 From the Select Print Item dialog box, select the list to be printed.

- If "All" is selected, all items in the list are printed.
- If "Select No." is selected, the number selected in the list is printed.

3 Click the **OK** button.


4 Specify the appropriate settings in the Print dialog box, and then click the **OK** button.

The list is printed.

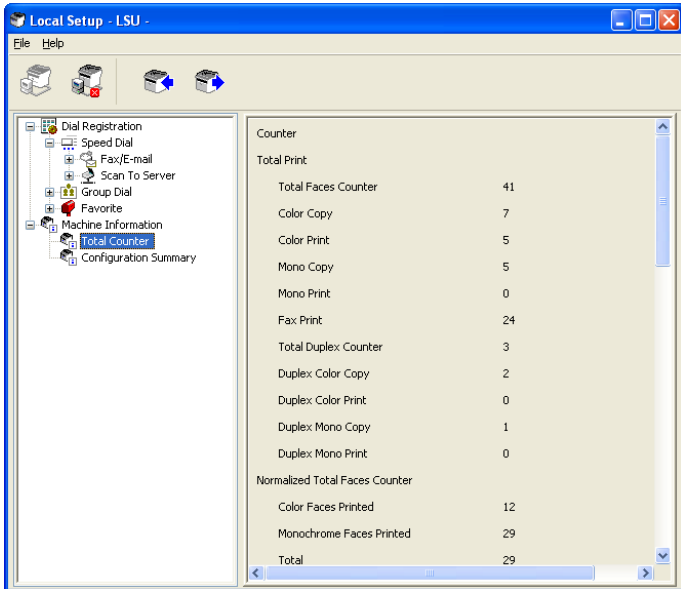
Displaying Machine Information

The settings downloaded from the machine can be displayed. These settings can be used to view the counters or check the machine information.

Checking the Total Counter

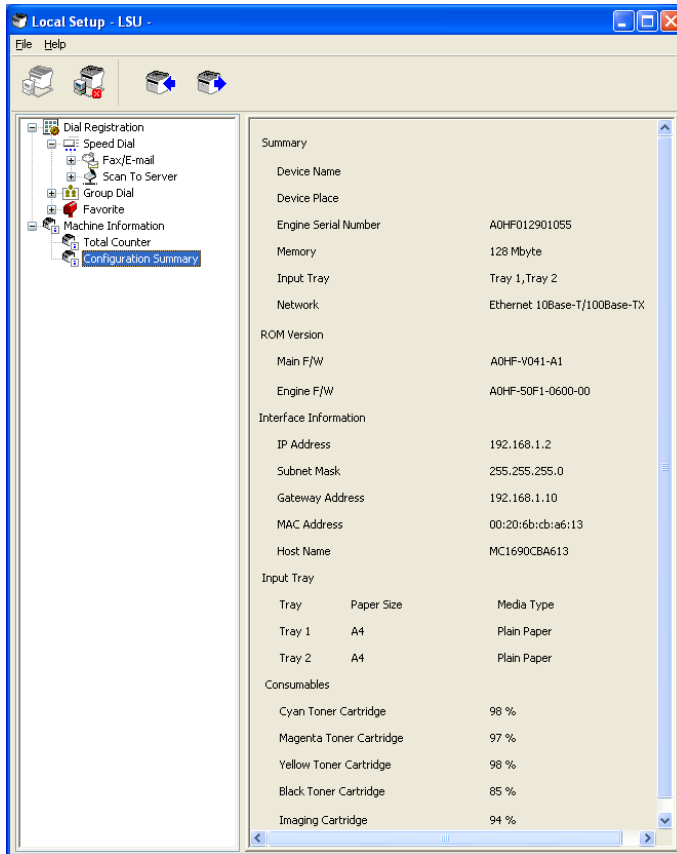
- 1 Click  beside “Machine Information” menu, and then click “Total Counter”.

The Total Counter dialog box appears.




Checking the Configuration Page

- 1 Click **+** beside “Machine Information” menu, and then click “Configuration Summary”.
The Configuration Summary dialog box appears.

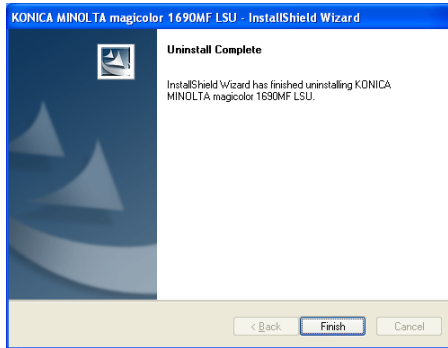


Uninstalling LSU

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

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

- 1 Click the Start button, point to “All Programs (Windows 2000: Programs)”, “KONICA MINOLTA”, “magicolor 1690MF”, “LSU”, and then click “Uninstall”.
- 2 Follow the on-screen instructions.
- 3 When the following dialog box appears, the uninstallation is completed.



Troubleshooting

Symptom	Solution
It takes a long time to access the printer driver when LSU has established a connection to the machine.	Wait until it can be accessed.

Printer Utilities

4



Installing Printer Utilities on Windows



You must have administrator privileges in order to install the Printer Utilities.



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



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

The following procedure describes how to install the Printer Utilities.

- Paper Port SE
 - PageScope Net Care
 - PageScope Network Setup
- 1 Insert the Applications CD/DVD in your CD/DVD-ROM drive.
 - 2 Select the language.
 - 3 Select the utilities to be installed.
 - 4 Follow the onscreen instructions to complete the installation.
 - 5 When the Information message box appears, select Finish.
 - 6 After the installation is complete, remove the Applications CD/DVD from your CD/DVD-ROM drive and store it in a safe place.

***Understanding
the Network
Setting Menu***

5

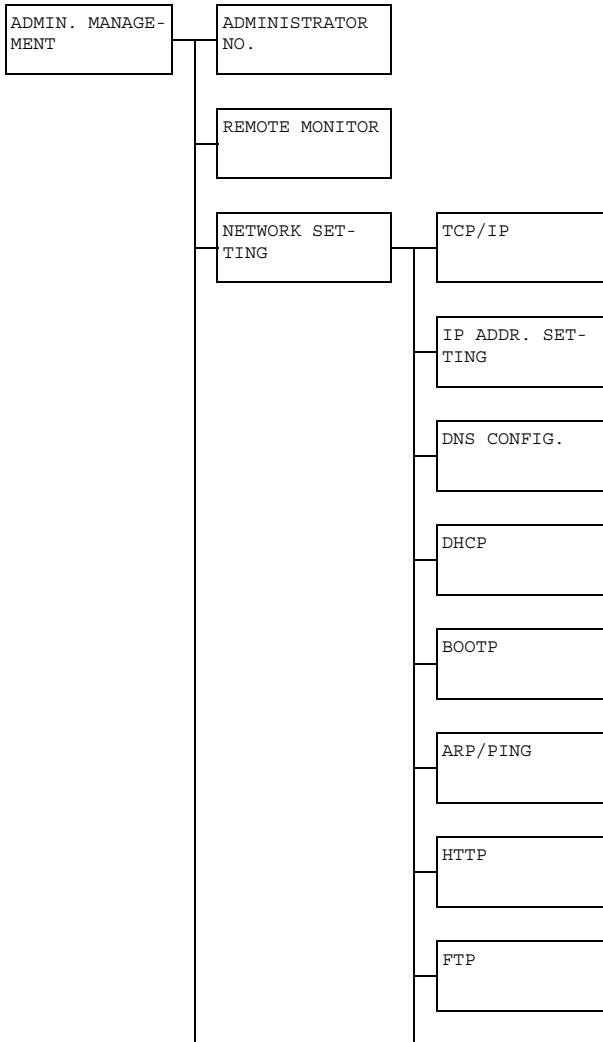


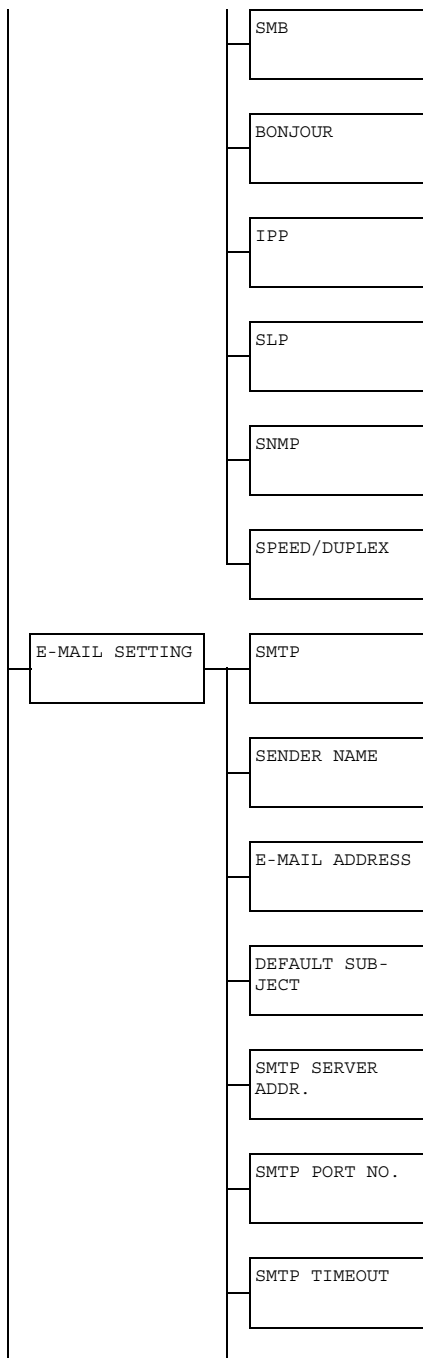
NETWORK SETTING Menu

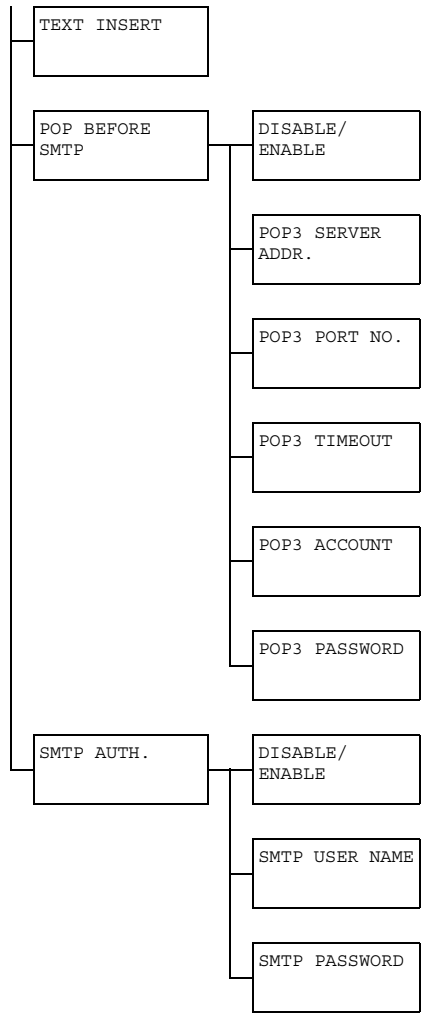
Location within the Configuration Menu

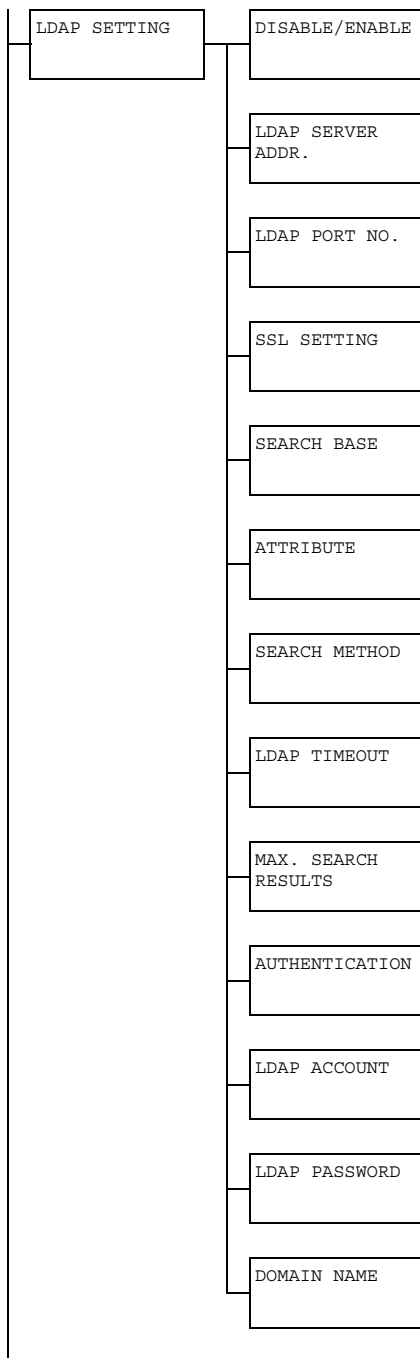


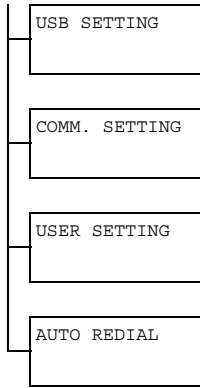
The *ADMIN. MANAGEMENT* menu is accessible only by the administrator. To display the settings for this menu, press **▼** to display *UTILITY*, and press select key to display *MACHINE SETTING*, and then select *ADMIN. MANAGEMENT*, use the keypad to type in the 6-digits administrator access code (default : 000000), and then press the **Select** key.











Accessing the Network Setting Menu

Use the following series of keystrokes at the machine to access the Network Setting menu options on your machine. This menu provides access to all of the configurable network items.

Press this key . . .	(until) the message window reads . . .
▼	UTILITY
Select ←	MACHINE SETTING
▼	ADMIN. MANAGEMENT
Select ←	Use the keypad to input 6-digits administrator number.
Select ←	ADMINISTRATOR NO.
▼	NETWORK SETTING

Using the Network Setting Menu Options

If the machine is connected to a network, the following settings should be specified. For details about each setting, contact your network administrator.



To manually specify settings for the IP address, subnet mask and gateway, set IP ADDR. SETTING to SPECIFY.



*When entering the IP address, do not enter a class D (between 224.0.0.0 and 239.255.255.255) or class E (between 240.0.0.0 and 255.255.255.255) IP address.
In addition, "255" cannot be entered as the last three digits of the IP address.*

TCP/IP

Purpose	Enables or disables TCP/IP. If ENABLE is selected, TCP/IP is enabled. If DISABLE is selected, TCP/IP is disabled.
Options	DISABLE/ENABLE
Default	ENABLE

IP ADDR. SETTING

Purpose	Sets the IP address of this machine on the network. Sets the subnet mask of the network. The subnet mask allows you to limit access to your machine (for example, according to departmental divisions). Sets the address of the router/gateway when a router/gateway is used on your network and you allow users outside your network environment to print on your machine.
Options	AUTO/SPECIFY
Default	AUTO (If IP ADDR. SETTING is set to SPECIFY) IP ADDRESS: 0.0.0.0 SUBNET MASK: 255.255.255.0 GATEWAY: 0.0.0.0
Range	(If IP ADDR. SETTING is set to SPECIFY) 0-255 for each xxx triplet Use the keypad to input each number; use the ◀ and ▶ keys to move between triplets.
Notes	A single digit number, such as "1", cannot be input as "001". Align the number on the left and input "1" as "1 _ _". Use the ◀ and ▶ keys to move between triplets. The Back key can also be used for deleting. To cancel IP Address menu, hold down the Back key for more than one second, and then press the Back key again after all settings have been cleared.

DNS CONFIG.

Purpose	Sets whether or not the DNS server setting is to be specified. If specifying the DNS server setting, the SMTP server can be specified as a host name when using network scanning. If ENABLE is selected, type in the IP address of the DNS server. If DISABLE is selected, the DNS server cannot be referenced.
Options	DISABLE/ENABLE
Default	DISABLE
Range	(If DNS CONFIG. is set to ENABLE) 0-255 for each xxx triplet Use the keypad to input each number; use the ◀ and ▶ keys to move between triplets.
Notes	A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets. The Back key can also be used for deleting. To cancel DNS CONFIG. menu, hold down the Back key for more than one second, and then press the Back key again after all settings have been cleared. After changing the settings, the machine must be turned off, then on again.



*When using network scanning and when specifying the SMTP server as a host name instead of as an IP address, be sure to select **ENABLE**, and then specify the IP address of the DNS server.*

DHCP

Purpose	If there is a DHCP server on the network, specifies whether the IP address and other network information is automatically assigned by the DHCP server.
Options	DISABLE/ENABLE
Default	ENABLE

BOOTP

Purpose	If there is a BOOTP server on the network, specifies whether the IP address and other network information is automatically assigned by the BOOTP server.
Options	DISABLE/ENABLE
Default	DISABLE

ARP/PING

Purpose	<p>If the IP address cannot be acquired due to the DHCP or BOOTP address and if a fixed IP address cannot be acquired, the destination IP address of the ICMP (Ping) packet previously received by the machine can be acquired as the IP address of the machine.</p> <p>If ENABLE is selected, the IP address can be acquired automatically.</p> <p>If DISABLE is selected, the IP address cannot be acquired automatically.</p>
Options	DISABLE/ENABLE
Default	DISABLE

HTTP

Purpose	<p>Select whether or not to enable HTTP.</p> <p>If ENABLE is selected, HTTP is enabled.</p> <p>If DISABLE is selected, HTTP is disabled.</p>
Options	DISABLE/ENABLE
Default	ENABLE

FTP

Purpose	<p>Select whether or not to enable FTP server.</p> <p>If ENABLE is selected, FTP server is enabled.</p> <p>If DISABLE is selected, FTP server is disabled.</p>
Options	DISABLE/ENABLE
Default	ENABLE

SMB

Purpose	Select whether or not to enable SMB. If ENABLE is selected, SMB is enabled. If DISABLE is selected, SMB is disabled.
Options	DISABLE/ENABLE
Default	ENABLE

BONJOUR

Purpose	Select whether or not to enable Bonjour. If ENABLE is selected, Bonjour is enabled. If DISABLE is selected, Bonjour is disabled.
Options	DISABLE/ENABLE
Default	ENABLE

IPP

Purpose	Select whether or not to enable IPP. If ENABLE is selected, IPP is enabled. If DISABLE is selected, IPP is disabled.
Options	DISABLE/ENABLE
Default	ENABLE

SLP

Purpose	Select whether or not to enable SLP. If ENABLE is selected, SLP is enabled. If DISABLE is selected, SLP is disabled.
Options	DISABLE/ENABLE
Default	ENABLE

SNMP

Purpose	Select whether or not to enable SNMP. If <code>ENABLE</code> is selected, SNMP is enabled. If <code>DISABLE</code> is selected, SNMP is disabled.
Options	<code>DISABLE/ENABLE</code>
Default	<code>ENABLE</code>

SPEED/DUPLEX

Purpose	Specifies the transmission speed for the network and the transmission method for bi-directional transmission.
Options	<code>AUTO</code> <code>10BASE-T FULL</code> <code>10BASE-T HALF</code> <code>100BASE-TX FULL</code> <code>100BASE-TX HALF</code>
Default	<code>AUTO</code>

Network Printing

6



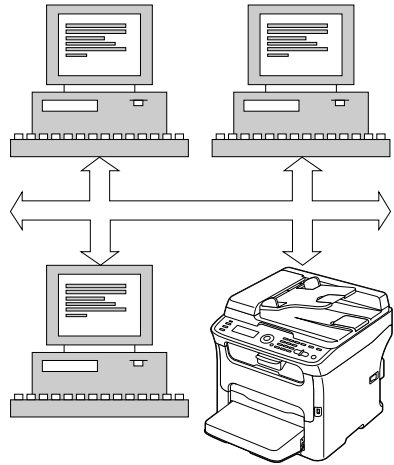
Network Connection

Theory

To connect your machine in a TCP/IP network environment, you must make sure that the internal network addresses in the machine have been set.



In many cases, you have to enter only a unique IP address. However, you may also have to enter a subnet mask and/or a gateway (router) address, depending on your network configuration requirements.



Making the Connection

Ethernet Interface

An RJ45 connector can be used as the Ethernet interface for this machine.

When connecting your machine to an Ethernet network, the tasks you perform depend on how you plan to set the machine's IP (Internet Protocol) address.

- **IP Address**—A unique identifier for each device on a TCP/IP network.
- **Subnet Mask**—A filter used to determine what subnet an IP address belongs to.
- **Gateway**—A node on a network that serves as an entrance to another network.

Since the IP address for each PC and machine on your network must be unique, you usually need to modify this preset address so it doesn't conflict with any other IP address or your network or any attached network. You can do this in one of two ways. Each is explained in detail in the following sections.

- Using DHCP
- Setting the address manually

Using DHCP

If your network supports DHCP (Dynamic Host Configuration Protocol), the machine's IP address will be automatically assigned by the DHCP server when you turn on the machine. (Refer to "Network Printing" on page 6-6 for a description of DHCP.)



If the IP address of the machine is not set automatically, check if the machine has been set to allow DHCP to be used (REPORT/STATUS — REPORT — CONFIGURATION PAGE). If the machine has been set so that DHCP cannot be used, select AUTO in the UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. SETTING menu, and ENABLE in the UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DHCP menu.

- 1 Connect your machine to the network.
When using an Ethernet cable, plug the RJ45 connector into the Ethernet interface port of the machine.
- 2 Turn on your PC and machine.
- 3 After the machine's message window is initialized, install the printer driver.

Setting the Address Manually

You may also manually change the machine's IP address, subnet mask, and gateway by using the following instructions. (See chapter 5, "Understanding the Network Setting Menu," for more information.)



When the IP address is changed, add a new port or reinstall the printer driver.



CAUTION

You should always notify your network's administrator before changing the machine's IP address.

- 1 Turn on your PC and machine.
- 2 After the machine's message window is initialized, set the IP address.

Press this key . . .	(until) the message window displays . . .
▼	UTILITY
Select ←	MACHINE SETTING
▼	ADMIN. MANAGEMENT
Select ←	Use the keypad to input 6-digits administrator number.
Select ←	ADMINISTRATOR NO.
▼	NETWORK SETTING
Select ←	TCP/IP
▼	IP ADDR. SETTING
Select ←	▶ AUTO SPECIFY
▼	AUTO ▶ SPECIFY

Select ←	IP ADDRESS :0. 0. 0. 0
<p>Use the keypad to input each number. A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets. The Back key can also be used for deleting. To cancel IP Address menu, hold down the Back key for more than one second, and then press the Back key again after all settings have been cleared.</p>	
Select ←	SUBNET MASK :255.255.255. 0
<p>Use the keypad to input each number. A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets. The Back key can also be used for deleting. To cancel Subnet Mask menu, hold down the Back key for more than one second, and then press the Back key again after all settings have been cleared.</p>	
Select ←	GATEWAY :0. 0. 0. 0
<p>Use the keypad to input each number. A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets. The Back key can also be used for deleting. To cancel Gateway menu, hold down the Back key for more than one second, and then press the Back key again after all settings have been cleared.</p>	
Select ←	IP ADDR. SETTING

- 3 Restart the machine.
- 4 Print a configuration page to verify that the correct IP address, subnet mask, and gateway have been set.
- 5 After the machine’s message window is initialized, install the printer driver.

Network Printing

Network printing terms are described below:

- Bonjour
- BOOTP
- DHCP
- DNS
- FTP
- HTTP
- IPP
- LDAP
- LPD/LPR
- POP Before SMTP
- Port 9100
- SLP
- SMB
- SMTP
- SMTP Authentication
- SNMP
- TCP/IP

This section contains descriptions of these network printing terms.

Bonjour

Macintosh network technology for automatically detecting devices connected to the network and for specifying settings. Previously called “Rendezvous”, the name was changed to “Bonjour” starting with Mac OS X v10.4.

BOOTP

BOOTP (Bootstrap Protocol) is an Internet protocol that enables a diskless workstation to discover (1) its own IP address, (2) the IP address of a BOOTP server on the network, and (3) a file that can be loaded into memory to boot the workstation. This enables the workstation to boot without requiring a hard or floppy disk drive.

DHCP

DHCP (Dynamic Host Configuration Protocol) is a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. DHCP also supports a mix of static and dynamic IP addresses. Dynamic addressing simplifies network administration because the software keeps track of IP addresses rather than requiring an administrator to manage the task. This means that a new computer can be added to a network without the hassle of manually assigning it a unique IP address.

DNS

Abbreviation for Domain Name System. A system that acquires the supported IP addresses from host names in a network environment. DNS allows the user to access other computers over a network by specifying host names, instead of difficult to memorize and understand IP addresses.

FTP

Abbreviation for File Transfer Protocol. A protocol for transferring files over the Internet or an intranet on the TCP/IP network.

HTTP

HTTP (HyperText Transfer Protocol) is the underlying protocol used by the World Wide Web. It defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands. For example, when you enter a URL in your browser, this actually sends an HTTP command to the Web server directing it to fetch and transmit the requested web page.

IPP

IPP (Internet Printing Protocol) is a protocol for end users' most common printing situations over the Internet. It allows users to find out about a printer's capabilities, submit print jobs to a printer, determine the status of the printer or print job, and cancel a previously submitted print job.

For more information on using IPP, See "Printing via IPP (Internet Printing Protocol)" on page 6-11.

LDAP

On a TCP/IP network, such as the Internet or an intranet, LDAP (Lightweight Directory Access Protocol) is a protocol that is used to access a database for managing environment information and the e-mail addresses of network users.

LPD/LPR

LPD/LPR (Line Printer Daemon/Line Printer Remote) is a platform-independent printing protocol that runs over TCP/IP. Originally implemented for BSD UNIX, its use has spread into the desktop world and is now an industry standard.

POP Before SMTP

A user authentication method for sending E-mail messages. First, the reception operation is performed and the user is authenticated by the POP server. Then, IP addresses where the user was successfully authenticated by the POP server are permitted to use the SMTP server. This method prevents third parties without permission to use the mail server from sending mail messages.

Port 9100

When printing through a network, TCP/IP port number 9100 can be used to send raw data.

SLP

Traditionally, in order to locate services on the network, users had to supply the host name or network address of the machine providing the desired service. This has created many administrative problems.

However, SLP (Service Location Protocol) simplifies the discovery and use of network resources such as printers by automating a number of network services. It provides a framework that allows networking applications to discover the existence, location, and configuration of networked services.

With SLP users no longer need to know the names of network hosts. Instead, they need to know only the description of the service they are interested in. Based on this description, SLP is able to return the URL of the desired service.

Unicast, Multicast, and Broadcast

SLP is a unicast and a multicast protocol. This means that messages can be sent to one agent at a time (unicast) or to all agents (that are listening) at the same time (multicast). However, a multicast is not a broadcast. In theory, broadcast messages are “heard” by every node on the network. Multicast differs from broadcast because multicast messages are only “heard” by the nodes on the network that have “joined the multicast group.”

For obvious reasons network routers filter almost all broadcast traffic. This means that broadcasts that are generated on one subnet will not be “routed” or forwarded to any of the other subnets connected to the router (from the router’s perspective, a subnet is all machines connected to one of its ports). Multicasts, on the other hand, are forwarded by routers. Multicast traffic from a given group is forwarded by routers to all subnets that have at least one machine that is interested in receiving the multicast for that group.

SMB

SMB (Server Message Block) is a protocol for sharing network resources, such as files and printers, in a Windows environment. If the Samba server software is used on Linux or UNIX, services using SMB can be shared.

SMTP

SMTP (Simple Mail Transfer Protocol) is a protocol for sending E-mail.

This protocol was originally used to send E-mail between servers; however, currently it is also used by client E-mail software that uses POP to send E-mail to servers.

SMTP Authentication

Specification that adds user authentication functions to SMTP, which is used for sending E-mail.

When sending E-mail, authentication of the user is performed by the SMTP server, and the E-mail message is permitted to be sent only if authentication was successful.

SNMP

SNMP (Simple Network Management Protocol) is actually a set of protocols for managing complex networks. SNMP works by sending messages to different parts of a network. SNMP-compliant devices, called agents, store data about themselves in Management Information Bases (MIBs) and return this data to the SNMP requesters.

TCP/IP

Most networks combine TCP (Transmission Control Protocol) with the lower-level protocol IP (Internet Protocol). TCP establishes a virtual connection between two host systems and guarantees the delivery of data between them while IP specifies the format and addressing of this data sent between these two host systems.

Printing via IPP (Internet Printing Protocol)



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

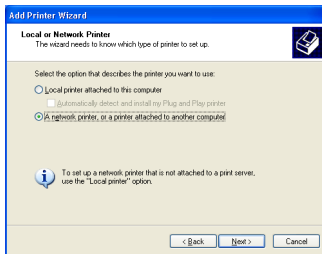


If the User Account Control window appears when installing on Windows Vista, click the **Allow** button or the **Continue** button.

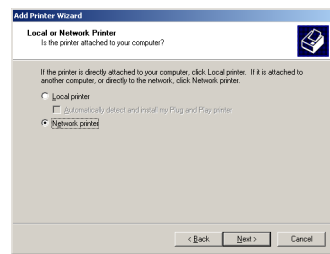
Adding an IPP Port using Add Printer Wizard – Windows Server 2003/XP/2000

- For Windows Server 2003/XP: Click **Start**, select **Printers and Faxes**, and then click **Add Printer**.
 - For Windows 2000: Click **Start**, point to **Settings**, click **Printers**, and then click **Add Printer**.
- 1 In the second dialog box select the **Network Printer** radio button and then choose **Next**.

Windows Server 2003/XP



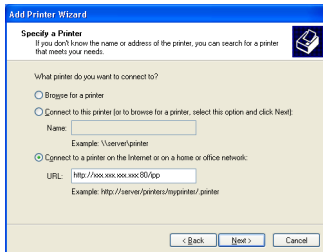
Windows 2000



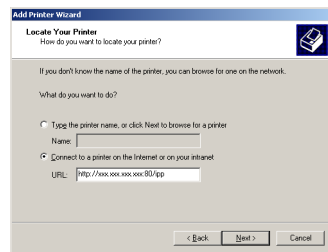
2 In the URL field in the next dialog box enter the printer's network path-name in one of the following formats and then choose **Next**:

- `http://ipaddress/ipp`
- `http://ipaddress:80/ipp`
- `http://ipaddress:631/ipp`

Windows Server 2003/XP



Windows 2000



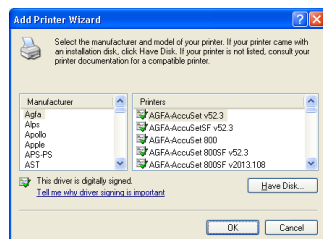
If your system cannot connect to the printer, the following message appears:

- **Windows Server 2003/XP**—“Windows cannot connect to the printer. Either the printer name was typed incorrectly, or the specified printer has lost its connection to the server. For more information, click **Help**.”
- **Windows 2000**—“Could not connect to the printer. You either entered a printer name that was incorrect or the specified printer is no longer connected to the server. Click **Help** for more information.”

3 **Windows Server 2003/XP**—Go to step 4.

Windows 2000—If you entered a valid path in the previous step, the following message displays: “The server on which the KONICA MINOLTA magicolor 1690MF printer resides does not have the correct printer driver installed. If you want to install the driver on your local computer, click **OK**.” The reason for this is that you do not yet have a printer driver installed. Choose **OK**.

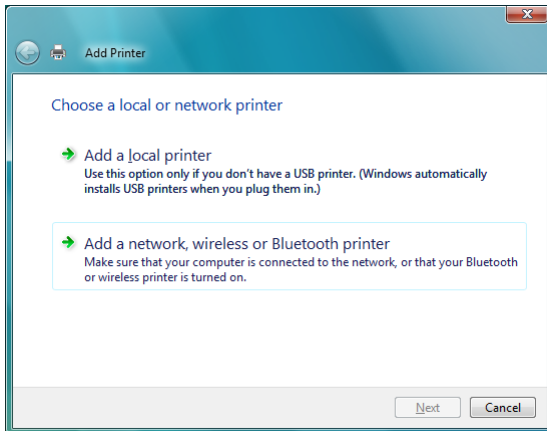
4 Choose **Have Disk**, locate the directory on the CD/DVD where the printer driver files are located (for example: Printer Driver\English\Win32), and then choose **OK**.



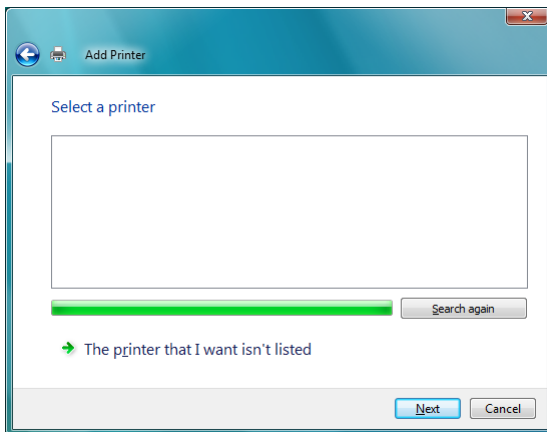
5 Finish installing the printer driver.

Adding an IPP Port using Add Printer Wizard – Windows Vista

- 1 Click **Start**, click **Control Panel**, and then click **Printers**.
- 2 Click **Add a printer**.
- 3 In the dialog box click **Add a network, wireless or Bluetooth printer**.

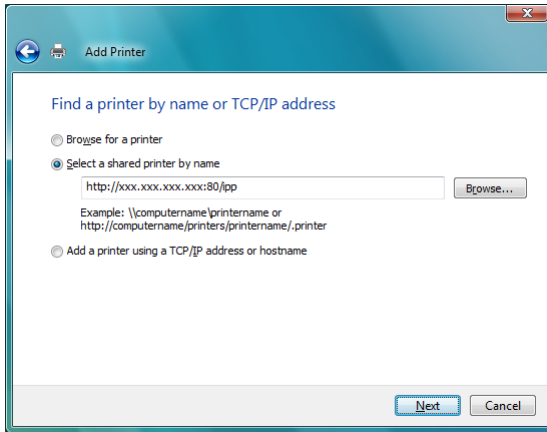


- 4 In the dialog box, click **The printer that I want isn't listed**.



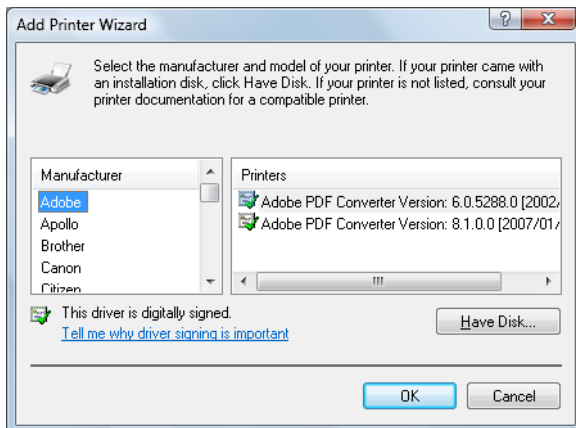
5 In the URL field in the next dialog box enter the printer's network path-name in one of the following formats and then choose **Next**:

- http://ipaddress/ipp
- http://ipaddress:80/ipp
- http://ipaddress:631/ipp



If your system cannot connect to the machine, the following message appears: "Windows cannot connect to the printer. Make sure that you have typed the name correctly, and that the printer is connected to network."

6 Choose **Have Disk**, locate the directory on the CD/DVD where the printer driver files are located (for example: Printer Driver\English\Win32), and then choose **Next**.



7 Finish installing the printer driver.

***Using PageScope
Web Connection***

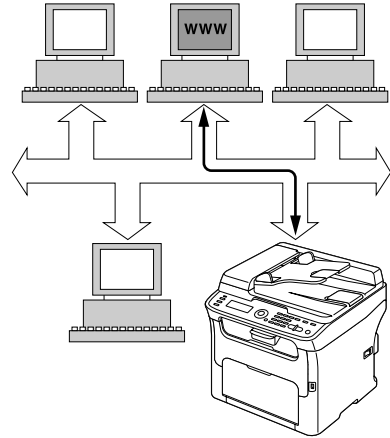
7



About PageScope Web Connection

This chapter provides information on PageScope Web Connection, an HTTP (HyperText Transfer Protocol)-based web page that resides in your machine and that you can access using your Web browser.

This page gives you instant access to machine status and the most frequently used machine configuration options. Anyone on your network can access the machine using their web browser software. In addition, with the proper password, you can change the configuration of the machine without leaving your PC.



Users who are not given passwords by the administrator can still view the configuration settings and options but are not able to save or apply changes.

Requirements

To use PageScope Web Connection, the following is required:

- Windows Vista/Server 2003/XP/2000 , Mac OS X 10.2.8/10.3/10.4/10.5
- Microsoft Internet Explorer version 6 or later
- Safari version 2.0 or later



You do not need an Internet connection.

- TCP/IP communication software (used by PageScope Web Connection) installed on your PC
- A network, to which both your PC and the machine are connected



You cannot access PageScope Web Connection using a local (USB) connection.

Setting Up the Machine Web Page

Setting up the machine web page to run on your network involves two basic steps:

- Determining the name or address of your machine
- Setting up the “no proxy” preferences in your browser software

Determining the Machine Name

The machine web page can be accessed in two ways:

- Through the assigned name of the machine—This name comes from the IP host table (the filename is **hosts**) on the computer system and is usually assigned by the system administrator (for example, magicolor 1690MF). It may be more convenient for you to use the machine name than the IP address.

Location of the Host Table on the PC

- Windows Vista/Server 2003/XP
 \windows\system32\drivers\etc\hosts
- Windows 2000
 \winnt\system32\drivers\etc\hosts
- Through the machine’s IP address—The IP address of your machine is a unique number and, therefore, may be the preferred identification to enter, especially if you have more machine active in your network. The machine’s IP address is listed on the configuration page.

Setting Up Your Browser Software

Since your machine resides on your intranet and is not accessible beyond the firewall of your network, you must set up the proper “preferences” in your browser software. Your machine name or IP address must be added to the “no proxy” list in the preferences dialog box of the browser.



You need to do this procedure only once.

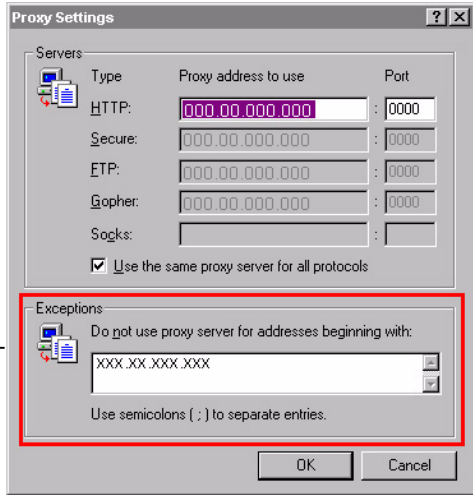
The sample screens below may be different from yours depending on software versions and operating systems in use.



Our examples represent the IP address of the machine with xxx.xxx.xxx.xxx. Always enter your machine’s IP address without leading zeros. For example, 192.168.001.002 should be entered as 192.168.1.2.

Internet Explorer (version 6.0 for Windows)

- 1 Start Internet Explorer.
- 2 From the **Tools** menu choose **Internet Options**.
- 3 Select the **Connections** tab on the dialog box.
- 4 Choose the **LAN Settings** button to display the Local Area Network (LAN) Settings dialog box.
- 5 Select **Advanced** in Proxy server to open the Proxy Settings dialog box.
- 6 In the **Exceptions** text box, type a comma after the last entry and then type the machine name or the IP address of your machine.
- 7 Choose **OK** three times to return to the main browser window.
- 8 Enter the machine's IP address in the URL Address box to access the machine home page.



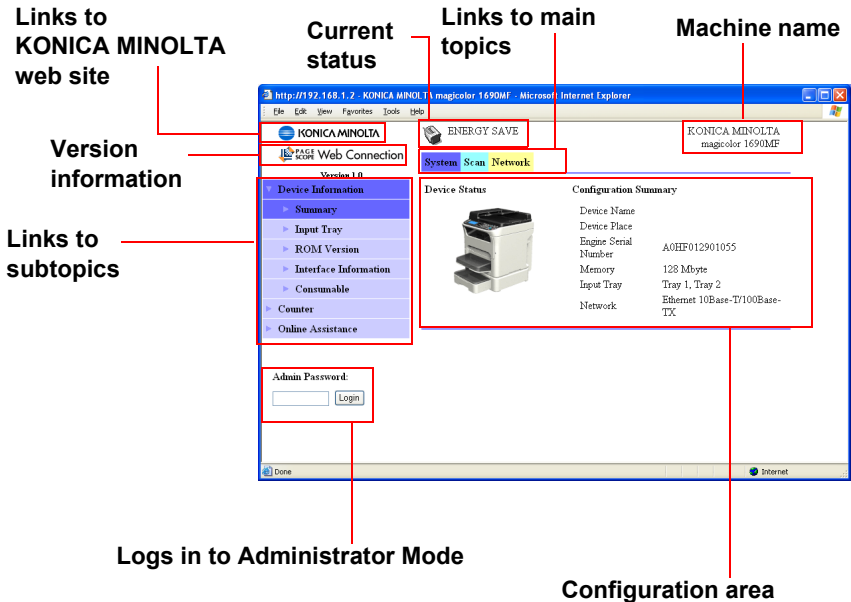
Address  http://192.168.1.2/

Safari (version 2.0)

- 1 From the **Apple** menu, choose **Location**, and then click **Network preferences**.
- 2 Click **Configure** in the Network preferences dialog box.
- 3 Click the **Proxies** tab.
- 4 In the **Bypass proxy settings for these Hosts & Domains** list, type in the name or IP address of the machine.
- 5 Click **Apply Now**.
- 6 In the URL address bar, type in the name or IP address of the machine to access the machine's Web page.

Understanding the PageScope Web Connection Window

The illustration below identifies the navigation and configuration areas of the windows that you see in PageScope Web Connection windows.



Navigation

Selecting the main topic and subtopic displays the configuration area for the machine options (parameters) associated with your selections.





To change a current setting, click on the current setting and then select from the available choices or enter the new value.



In order to apply or save any changes made to the configuration settings, PageScope Web Connection must be logged in from Administrator Mode. (For details, refer to "Administrator Mode" on page 7-6.)

Current Status

The current status of the machine is displayed at the top of all PageScope Web Connection windows. The icon displays the type of status being displayed.

Icon	Status	Description	Examples
	Ready	The machine is online and either ready to print or printing.	READY PRINTING
	Warning	The machine needs attention, but printing continues.	PLEASE WAIT WARMING UP
	Error	The machine needs attention before printing can resume.	FUSER JAM OPEN TOP COVER
	Fatal Error	The machine must be rebooted. If that doesn't fix the error, service is required.	MACHINE TROUBLE SERVICE CALL

User Mode

You automatically enter User Mode whenever you enter PageScope Web Connection. In User Mode, you can view configuration setting but not change them.

Administrator Mode

In order to change any configuration settings through PageScope Web Connection, you must first enter Administrator Mode:

- 1 Type the password in the **Admin Password** text box.



*The default password is "sysAdmin". However, once you are in Administrator Mode, the password can be specified in the **System - Preference** window.*

- 2 Choose the **Login** button.



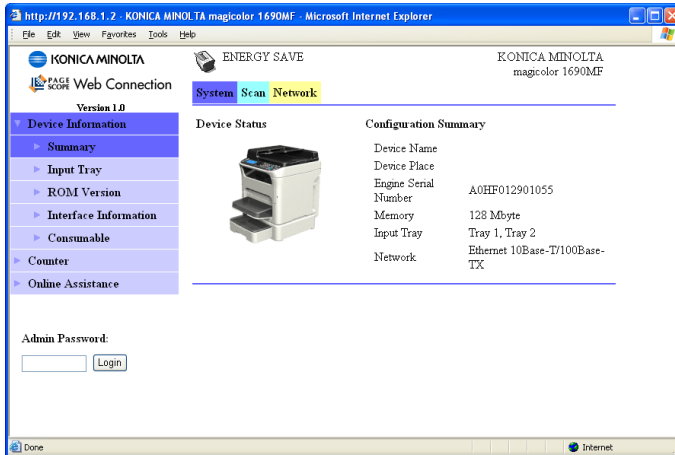
If you type an incorrect password, the following message displays: "Invalid Password." Retype the password.

Configuring the Machine for User Mode

You automatically enter User Mode whenever you enter PageScope Web Connection. In User Mode, you can view configuration settings but not change them.

System Page


This page allows you to view several user and machine specific item.




Device Information

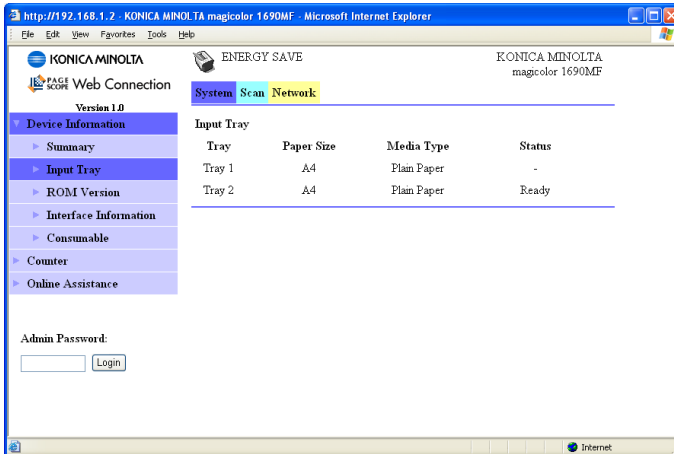
Summary (shown above)

The **System - Device Information - Summary** window provides the following information.

Item	Description
Device Name	Displays the name of the machine.
Device Place	Displays the setup location for the machine.
Engine Serial Number	Displays the serial number of the machine engine.
Memory	Displays the amount of memory installed in the machine.
Input Tray	Identifies the input trays installed on the machine.  <i>If the optional lower feeder unit has been installed, "Tray 2" is indicated.</i>

Item	Description
Network	Lists the machine interface (Ethernet 10Base-T/ 100Base-TX)
Login button	Logs in of Administrator Mode.  This button is available from all web pages (User Mode).

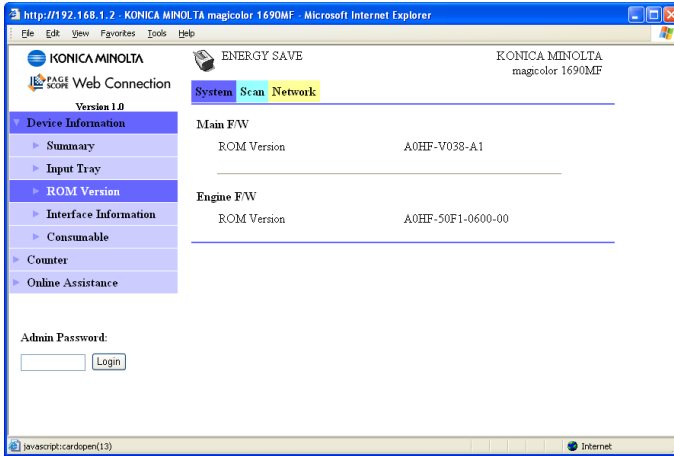
Input Tray



The **System - Device Information - Input Tray** window provides the following information.

Item	Description
Tray	Shows the media feed units (Tray 1/2) installed on the machine. Tray 2 displays when installed.
Paper Size	Shows the paper size loaded in a specific tray.
Media Type	Shows the media type loaded in a specific tray.
Status	Shows the media status (“Ready” or “Empty”) for each tray.

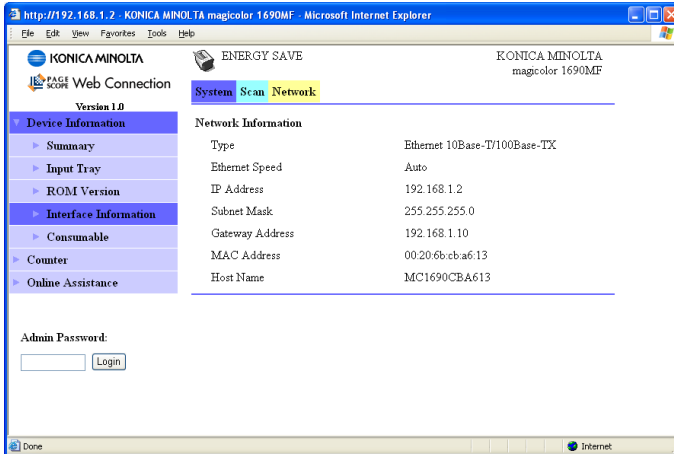
ROM Version



The **System - Device Information - ROM Version** window provides the following information.

Item	Description
Main F/W	Displays the main F/W version.
Engine F/W	Displays the engine F/W ROM version.

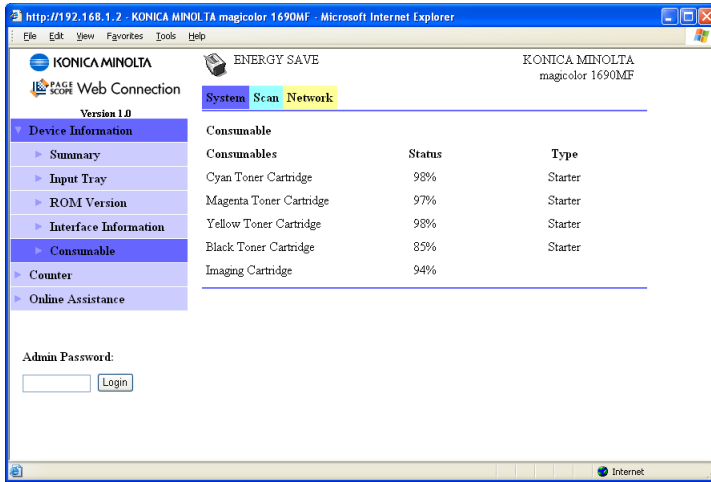
Interface Information



The **System - Device Information - Interface Information** window provides the following information.

Item	Description
Type	Displays the type of network interface on the machine (Ethernet 10Base-T/100Base-TX).
Ethernet Speed	Displays the transmission speed for the network and the transmission method for bi-directional transmission.
IP Address	Displays the IP (Internet Protocol) address of the Ethernet interface.
Subnet Mask	Displays the subnet mask address of the Ethernet interface.
Gateway Address	Displays the gateway address of the Ethernet interface.
MAC Address	Displays the MAC (Media Access Control) address of the Ethernet interface.
Host Name	Displays the name of the machine.

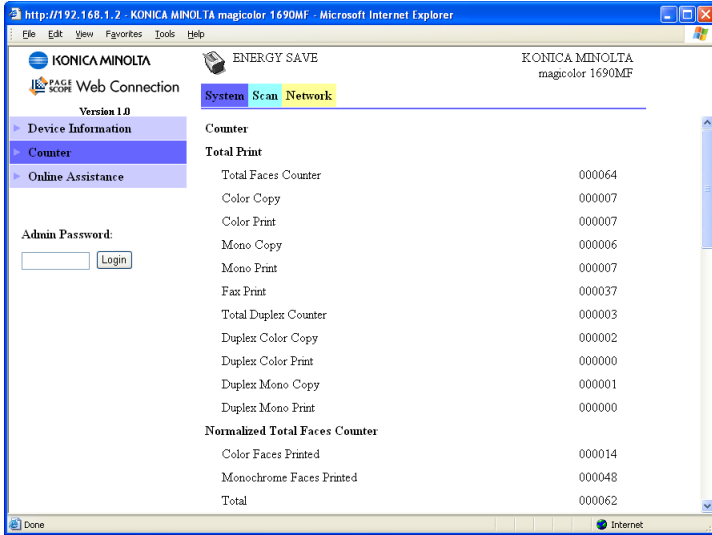
Consumable



The **System - Device Information - Consumable** window provides the following information.

Item	Description
Consumables	Identifies the type of consumables that is being monitored.
Status	Identifies the remaining life of the consumables as a percentage. <ul style="list-style-type: none"> ■ Toner Cartridge and Imaging Cartridge: Percentage
Type	Identifies the maximum life expectancy of the consumables in pages. <ul style="list-style-type: none"> ■ Starter, Standard, High

Counter

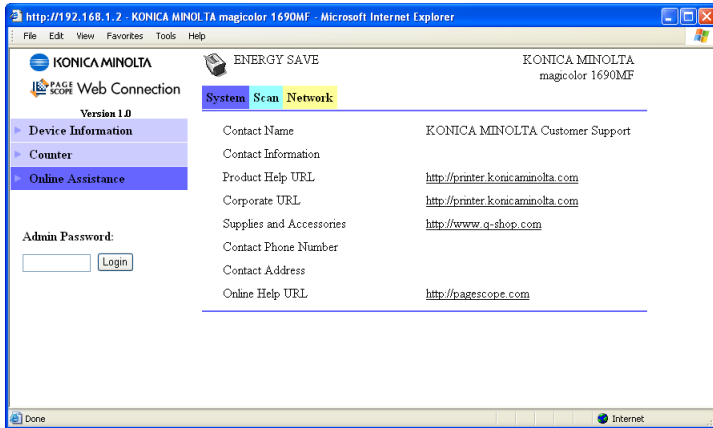


The **System - Counter** window provides the following information.

Item	Description
Total Print	Indicates the total number of all printed pages. <ul style="list-style-type: none"> ■ Total Faces Counter, Color Copy, Color Print, Mono Copy, Mono Print, Fax Print, Total Duplex Counter, Duplex Color Copy, Duplex Color Print, Duplex Mono Copy, Duplex Mono Print
Normalized Total Faces Counter	The number of printed pages is displayed calculated in terms of A4-size paper. <ul style="list-style-type: none"> ■ Color Faces Printed, Monochrome Faces Printed, Total
Fax Counter	Indicates the total number of fax transmission and reception pages. <ul style="list-style-type: none"> ■ Tx (Transmission) Counter, Rx (Reception) Counter
Scan Counter	Indicates the total number of scanned pages. <ul style="list-style-type: none"> ■ IR, ADF
Tray Counter	Indicates the total number of pages for each tray setting. <ul style="list-style-type: none"> ■ Tray 1, Tray2 (when installed)
Paper Size Counter	Indicates the total number of pages for each paper size. <ul style="list-style-type: none"> ■ A4, B5, A5, Legal, Letter, Others

Item	Description
Paper Type Counter	Indicates the total number of pages for each paper type. ■ Plain Paper, Thick 1, Thick 2, Envelope, Letterhead, Post-card, Label
Application Counter	Indicates the total number of pages for each application. ■ Copy Print, Fax Reception Print, Report Output Print, PC Print, Fax TX Pages, Scan to E-mail, Scan to FTP, Scan to SMB, Scan to USB, TWAIN

Online Assistance

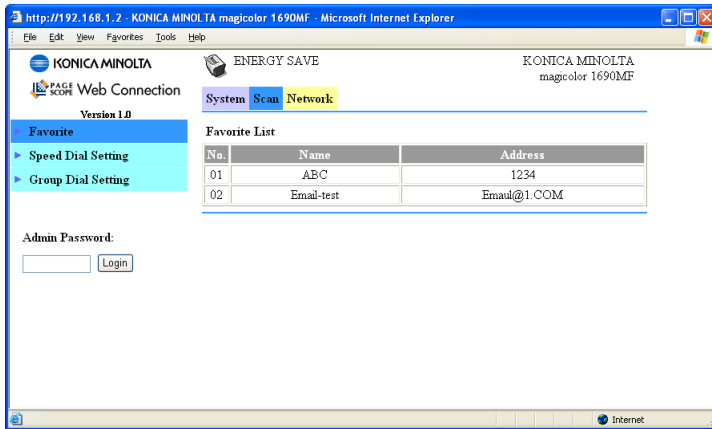


The **System - Online Assistance** window provides the following information.

Item	Description
Contact Name	Displays the name of the person or organization responsible for providing assistance with the machine.
Contact Information	Displays the web site address for assistance.
Product Help URL	Displays the help web site address for machine assistance.
Corporate URL	Displays the KONICA MINOLTA corporate web site address.
Supplies and Accessories	Displays the telephone number where you can purchase machine supplies and accessories.
Contact Phone Number	Displays the telephone number of the machine administrator.
Contact Address	Displays the e-mail address for support.
Online Help URL	Displays the web address for on-line assistance.

Scan Page

This page allows you to view the currently specified dial settings.

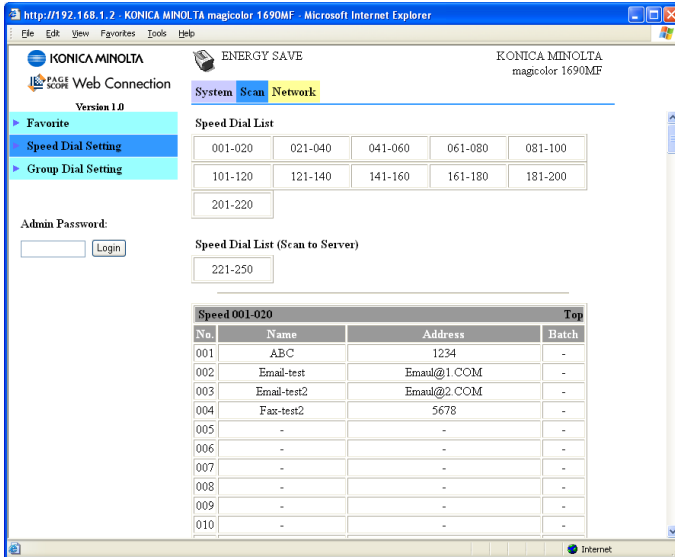


Favorite (shown above)

The **Scan - Favorite** window provides the following information.

Item	Description
No.	Displays the number in the Favorite list.
Name	Displays the destination name of the selected speed dial number.
Address	Displays the address (fax number, e-mail address, FTP address or SMB address) of the selected speed dial number.

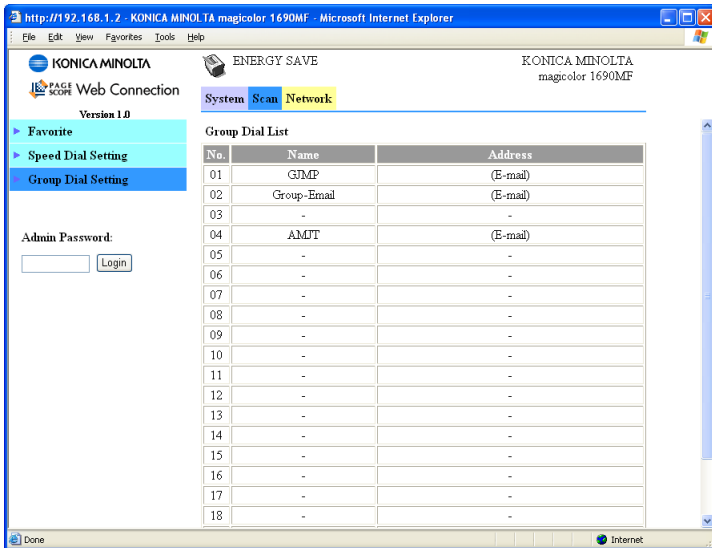
Speed Dial Setting



The **Scan - Speed Dial Setting** window provides the following information.

Item	Description
Speed Dial List	Click to jump to the beginning of the speed dial list within the same window.
No.	Displays the speed dial number.
Name	Displays the destination name of the speed dial number.
Address	Displays the address (fax number, e-mail address, FTP address or SMB address) of the selected speed dial number.
Batch	Displays the batch transmission time for the speed dial number.

Group Dial Setting

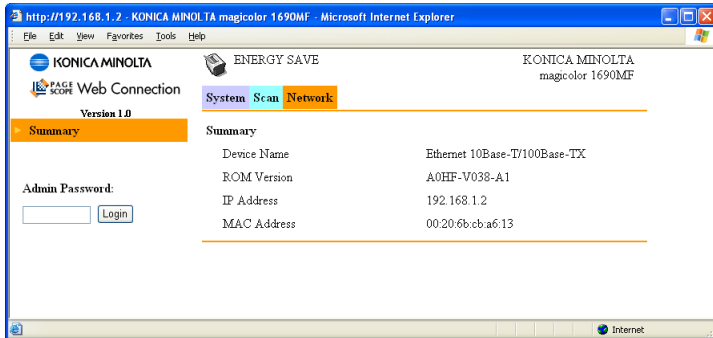


The **Scan - Group Dial Setting** window provides the following information.

Item	Description
No.	Displays the group dial number. Click the number to display the list of destinations registered with the group dial number.
Name	Displays the name of the group.
Address	Shows whether the registered group contains fax destinations or e-mail destinations.

Network Page

This page allows you to view the current network information.



Summary (shown above)

The **Network - Summary** window provides the following information.

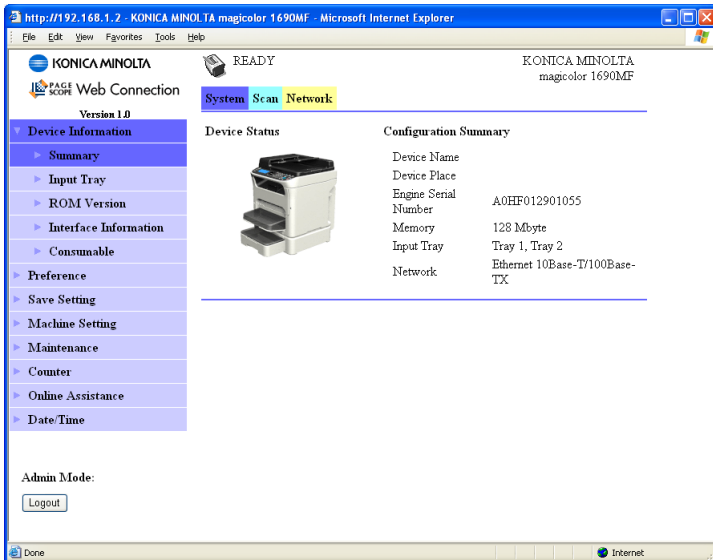
Item	Description
Device Name	Displays information on the network.
ROM Version	Displays the version of the network firmware.
IP Address	Identifies the IP (Internet protocol) address of the Ethernet interface.
MAC Address	Identifies the MAC (Media Access Control) address of the Ethernet interface.

Configuring the Machine for Administrator Mode

The Configuration page allows you to view and change the configuration settings of the machine.

System Page

This page allows you to configure several user and specific machine items.






Device Information

Summary (shown above)

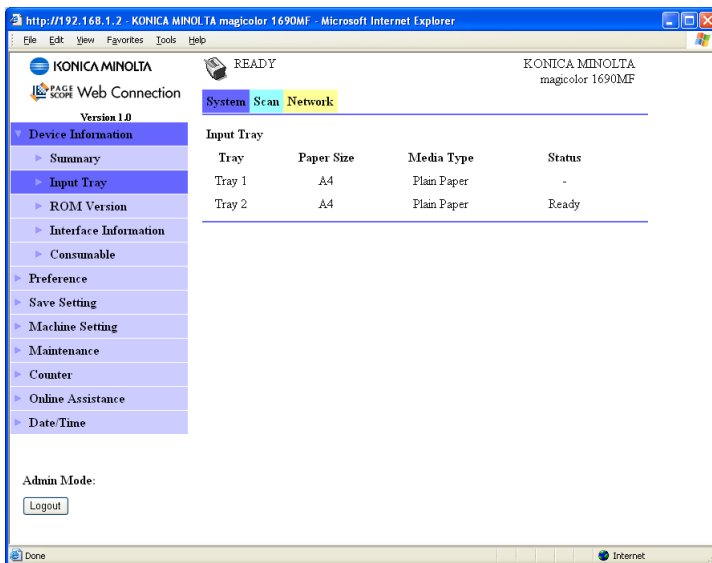
The **System - Device Information - Summary** window provides the following information.

Item	Description
Device Name	Displays the name of the machine.
Device Place	Displays the setup location for the machine.
Engine Serial Number	Displays the serial number of the machine engine.
Memory	Displays the amount of memory installed in the machine.

Item	Description
Input Tray	Identifies the input trays installed on the machine.  <i>If the optional lower feeder unit has been installed, "Tray 2" is indicated.</i>
Network	Lists the machine interface (Ethernet 10Base-T/100Base-TX).
Logout button	Logs out from Administrator Mode and returns to User Mode.  <i>This button is available from all web pages.</i>

 *All of the information displayed on the **System Page - Device Information - Summary** is read-only; however, some of the items (such as the device name) are configurable on other pages.*

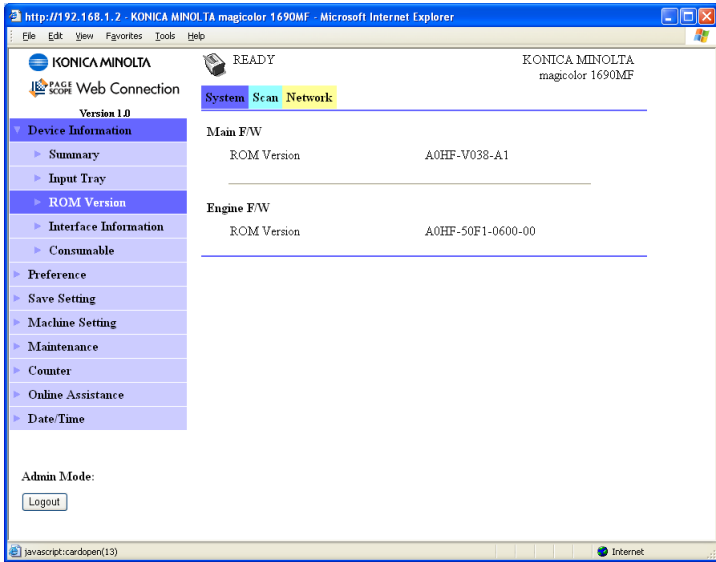
Input Tray



The **System - Device Information - Input Tray** window provides the following information.

Item	Description
Tray	Identifies the media feed units (Tray 1/2) installed on the machine. Tray 2 displays when installed.
Paper Size	Indicates the paper size loaded in a specific tray.
Media Type	Indicates the media type loaded in a specific tray.
Status	Indicates the media status (“Ready” or “Empty”) for each tray.

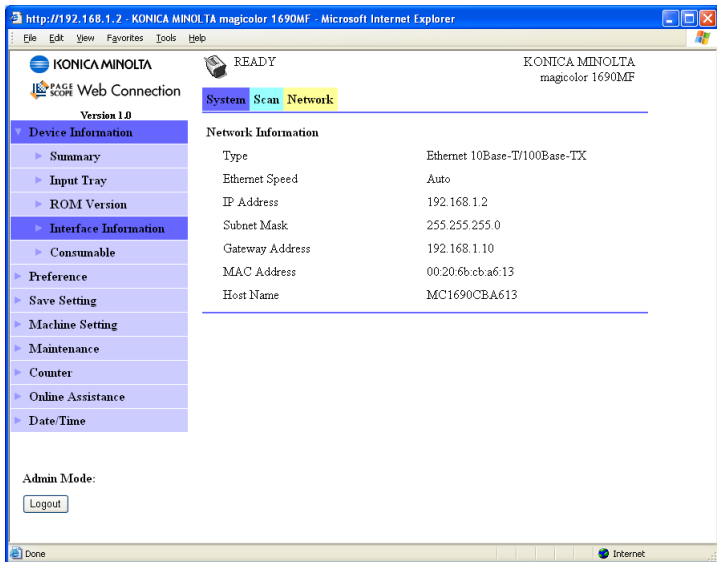
ROM Version



The **System - Device Information - ROM Version** window provides the following information.

Item	Description
Main F/W	Displays the main F/W version.
Engine F/W	Displays the engine F/W ROM version.

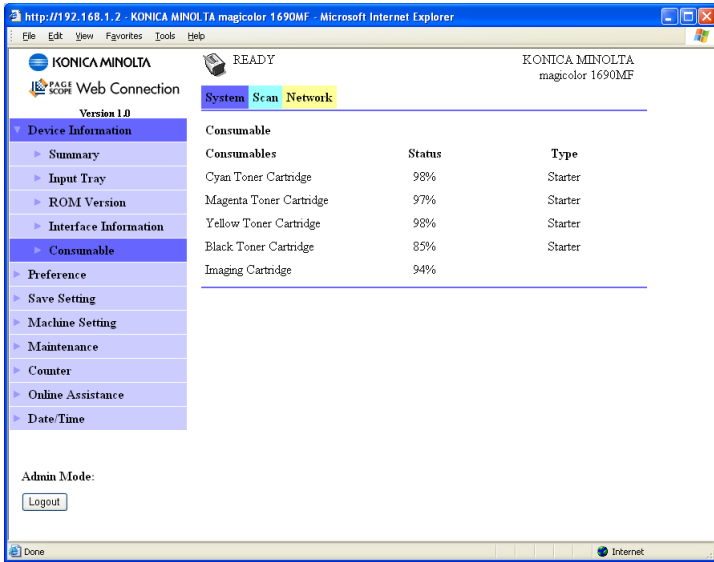
Interface Information



The **System - Device Information - Interface Information** window provides the following information.

Item	Description
Type	Identifies the type of network interface on the machine (Ethernet 10Base-T/100Base-TX).
Ethernet Speed	Identifies the transmission speed for the network and the transmission method for bi-directional transmission.
IP Address	Identifies the IP (Internet Protocol) address of the Ethernet interface.
Subnet Mask	Identifies the subnet mask address of the Ethernet interface.
Gateway Address	Identifies the gateway address of the Ethernet interface.
MAC Address	Identifies the MAC (Media Access Control) address of the Ethernet interface.
Host Name	Identifies the name of the machine.

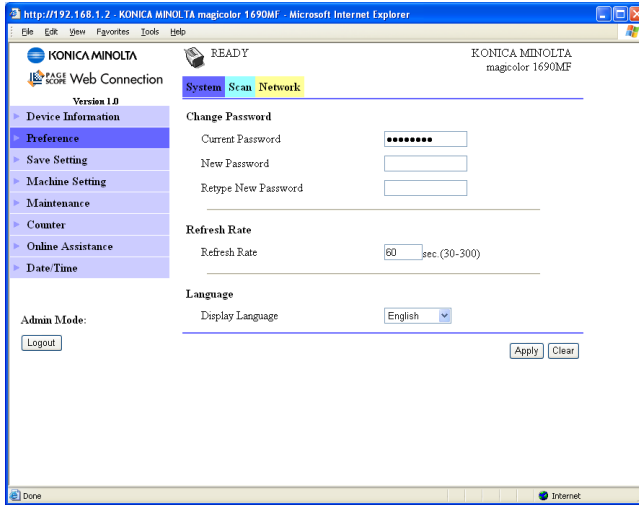
Consumable





The **System - Device Information - Consumable** window provides the following information:

Item	Description
Consumables	Identifies the type of consumables that is being monitored.
Status	Indicates the remaining life of the consumables as a percentage. <ul style="list-style-type: none"> ■ Toner Cartridge and Imaging Cartridge: Percentage
Type	Identifies the maximum life expectancy of the consumables in pages. <ul style="list-style-type: none"> ■ Starter, Standard, High

Preference

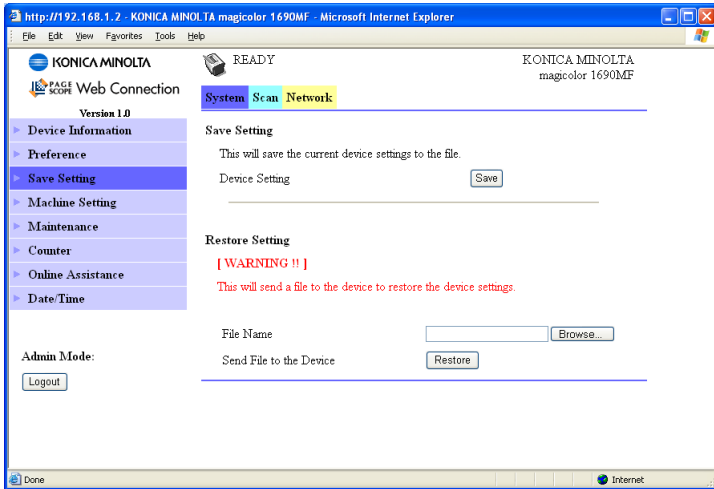


The **System - Preference** window allows you to configure the following items:

Item	Description
Current Password	Type in the current password. Range: Up to 8 characters Default: sysAdmin
New Password	Sets a new password to enter Administrator Mode.  <i>Passwords can be set to any string of numbers and letters (uppercase and lowercase) between 4 and 8 characters in length.</i>
Retype New Password	Verifies the new password typed in the New Password text box.  <i>If the password typed in both text boxes doesn't match, the following message displays when you choose the Apply button: "Update Unsuccessful" Go back to the previous screen, and then retype the passwords in both text boxes.</i>

Item	Description
Refresh Rate	<p>Sets the time interval (in seconds) that passes before the screen automatically updates. During a screen refresh, the machine is polled for any new information or status, and all of the fields in the PageScope Web Connection windows are updated.</p> <p>Range: 30–300 seconds (0.5–5 minutes) Default: 60 seconds</p> <ul style="list-style-type: none"> ■ If less than 30 seconds is specified, the setting changes to 30 seconds. ■ If more than 300 seconds is specified, the setting changes to 300 seconds.
Display Language	<p>Identifies the language displayed in the PageScope Web Connection windows.</p> <p>Choice: English, French, Italian, German, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Japanese</p> <p>Default: English</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

Save Setting



From the **System - Save Setting** window, the machine settings can be saved as a file on the computer being used. In addition, the saved settings file can be read by the machine.

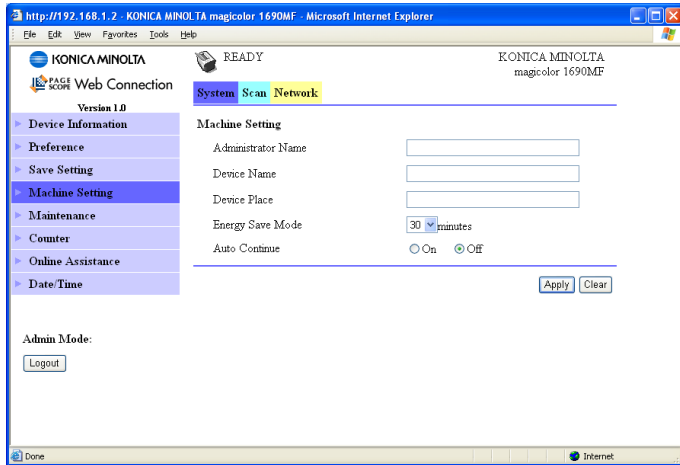


The following settings are not saved in the file:

- IP address of the machine
- Subnet mask
- Default gateway
- Settings for DHCP, BOOTP and ARP/PING
- Phone books

Item	Description	
Save Setting	Device Setting	Click Save button to save the machine settings as a file.
Restore Setting	File Name	Specify the name of the file where the machine settings are to be saved. Click Browse button to display the dialog box for browsing to the folder where the file containing the machine settings was saved.
	Send File to the Device	Click Restore button to send the settings file to the machine and overwrites the machine settings.

Machine Setting



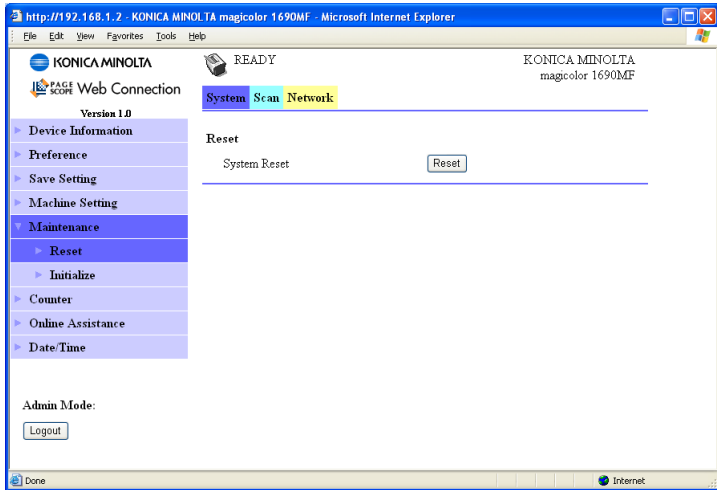
The **System - Machine Setting** window allows you to configure the following items:

Item	Description
Administrator Name	Specifies the name of the administrator for the machine. Range: Up to 127 characters Default: [Blank]
Device Name	Specifies the name of the machine. Range: Up to 127 characters Default: [Blank]
Device Place	Specifies the setup location of the machine. Range: Up to 127 characters Default: [Blank]
Energy Save Mode	Specify the length of time until the machine enters Energy Save mode. Range: 5, 15, 30, 60 min. Default: 30 min. Configuration Menu Equivalent: UTILITY - MACHINE SETTING - ENERGY SAVE MODE

Item	Description
Auto Continue	Select whether Auto Continue is turned on or off. Choices: On, Off Default: Based on the machine setting Configuration Menu Equivalent: UTILITY - MACHINE SETTING - AUTO CONTINUE
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

Maintenance

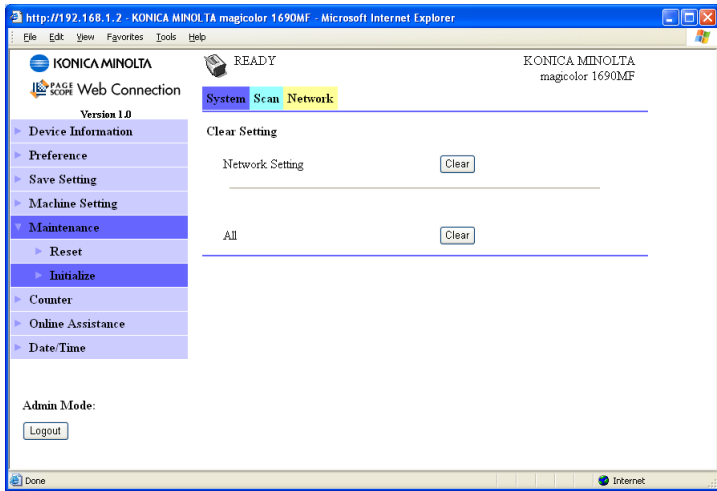
Reset



The **System - Maintenance - Reset** window allows you to reset the system.

Item	Description
Reset button	When clicked, the message “Jobs in progress will not be saved when the controller is reset. Do you want to continue?” appears. Click Yes to automatically restart the machine.

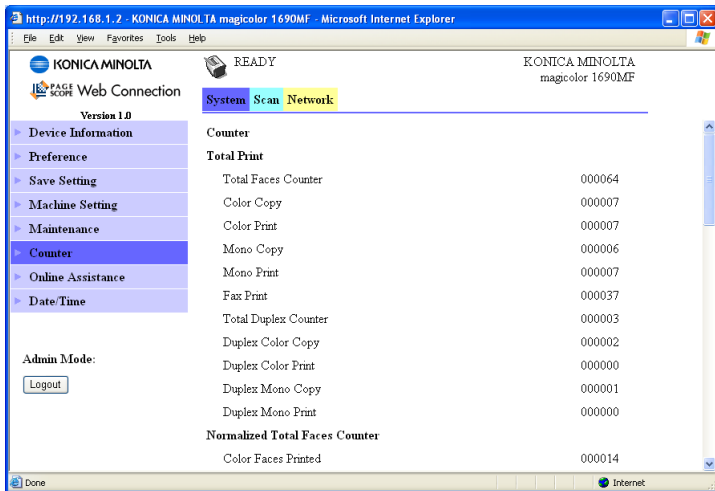
Initialize



The **System - Maintenance - Initialize** window allows you to reset the machine settings to their factory defaults.

Item	Description
Network Setting	Resets the network settings to their defaults.
All	Resets all settings to their defaults.
Clear button	When clicked, the message "Do you really want to return the settings to the factory default?" appears. Click Yes to automatically restart the machine and return the settings to their default values.

Counter

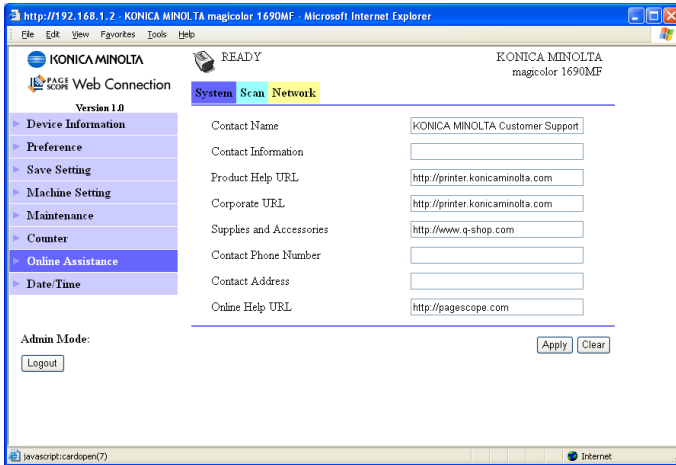


The **System - Counter** window provides the following information:

Item	Description
Total Print	Indicates the total number of all printed pages. <ul style="list-style-type: none"> ■ Total Faces Counter, Color Copy, Color Print, Mono Copy, Mono Print, Fax Print, Total Duplex Counter, Duplex Color Copy, Duplex Color Print, Duplex Mono Copy, Duplex Mono Print
Normalized Total Faces Counter	Indicates the total number of all normalized faces printed. <ul style="list-style-type: none"> ■ Color Faces Printed, Monochrome Faces Printed, Total
Fax Counter	Indicates the total number of fax transmission and reception pages. <ul style="list-style-type: none"> ■ Tx (Transmission) Counter, Rx (Reception) Counter
Scan Counter	Indicates the total number of scanned pages. <ul style="list-style-type: none"> ■ IR, ADF
Tray Counter	Indicates the total number of pages for each tray setting. <ul style="list-style-type: none"> ■ Tray 1, Tray 2 (when installed)
Paper Size Counter	Indicates the total number of pages for each paper size. <ul style="list-style-type: none"> ■ A4, B5, A5, Legal, Letter, Others

Item	Description
Paper Type Counter	Indicates the total number of pages for each paper type. <ul style="list-style-type: none"> ■ Plain Paper, Thick 1, Thick 2, Envelope, Letterhead, Postcard, Label
Application Counter	Indicates the total number of pages for each application. <ul style="list-style-type: none"> ■ Copy Print, Fax Reception Print, Report Output Print, PC Print, Fax TX Pages, Scan to E-mail, Scan to FTP, Scan to SMB, Scan to USB, TWAIN

Online Assistance

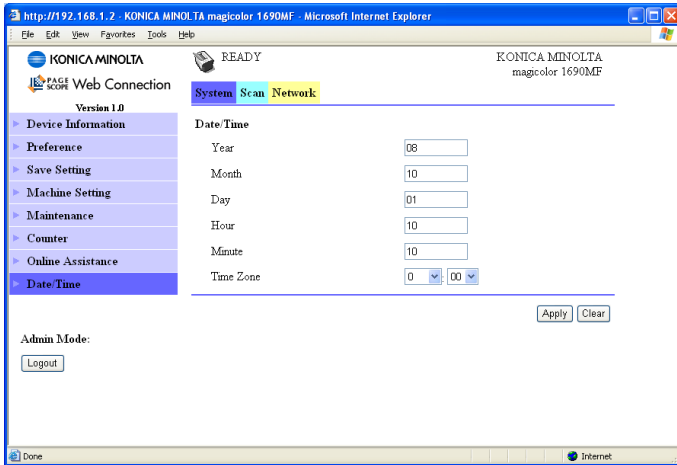


The **System - Online Assistance** window allows you to configure the following items:

Item	Description
Contact Name	Sets the name of the person or organization responsible for providing assistance with the machine. Range: Up to 63 characters Default: KONICA MINOLTA Customer Support
Contact Information	Sets the web site address for machine assistance. Range: Up to 127 characters Default: [Blank]
Product Help URL	Sets the help web site address for machine assistance. Range: Up to 127 characters Default: http://printer.konicaminolta.com
Corporate URL	Sets the KONICA MINOLTA corporate web site address. Range: Up to 127 characters Default: http://printer.konicaminolta.com
Supplies and Accessories	Sets the telephone number where you can purchase machine supplies and accessories. Range: Up to 127 characters Default: http://www.q-shop.com
Contact Phone Number	Specify the telephone number of the machine administrator. Range: Up to 31 characters Default: [Blank]

Item	Description
Contact Address	Specify the e-mail address for support. Range: Up to 320 characters Default: [Blank]
Online Help URL	Sets the web address for on-line assistance. Range: Up to 127 characters Default: http://pagescope.com
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

Date/Time



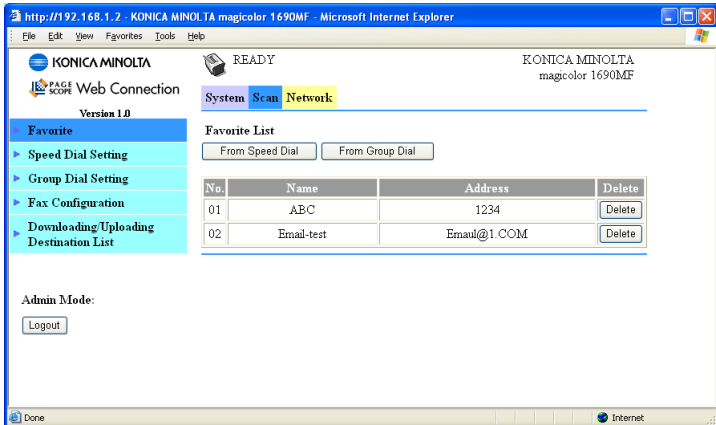
The **System - Date/Time** window provides the following information.

Item	Description
Year	Enter the year as two digits. Range: 00 to 99 Default: 07 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Month	Enter the month as two digits. Range: 01 to 12 Default: 01 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Day	Enter the day as two digits. Range: 01 to 28, 29, 30, 31 Default: 01 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME

Item	Description
Hour	Enter the hour as two digits. Range: 00 to 23 Default: 00 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Minute	Enter the minutes as two digits. Range: 00 to 59 Default: 00 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Time Zone	Specify the time zone settings (GMT and minutes). GMT Range (Hour): -12 to 0, 0 to +12 Range (Minutes): 00, 30 Default: +0:00
Apply button	Displays the date and time as they were specified.
Clear button	Resets all configuration settings to previous values.

Scan Page

On the **Scan** page, settings for the destination information to be registered in the machine and the fax and scan transmission/reception settings can be specified.

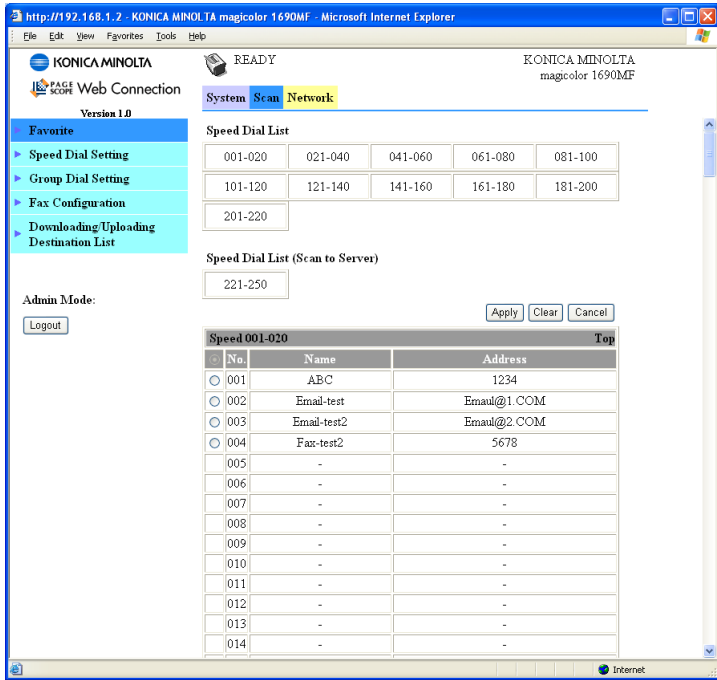


Favorite (shown above)

The **Scan - Favorite** page, settings for speed dial and group dial can be specified.

Item	Description
No.	Displays the number in the Favorite list.
Name	Displays the destination name of the selected speed (group) dial number.
Address	Displays the address of the selected speed dial number. With a group dial destination, "(Group)" is displayed.
From Speed Dial button	Adds a selected speed dial list to the Favorite list. For details, refer to "From Speed Dial" on page 7-39.
From Group Dial button	Adds a selected group dial to the Favorite list. For details, refer to "From Group Dial" on page 7-41.
Delete button	Deletes the selected destination from the Favorite list.

From Speed Dial

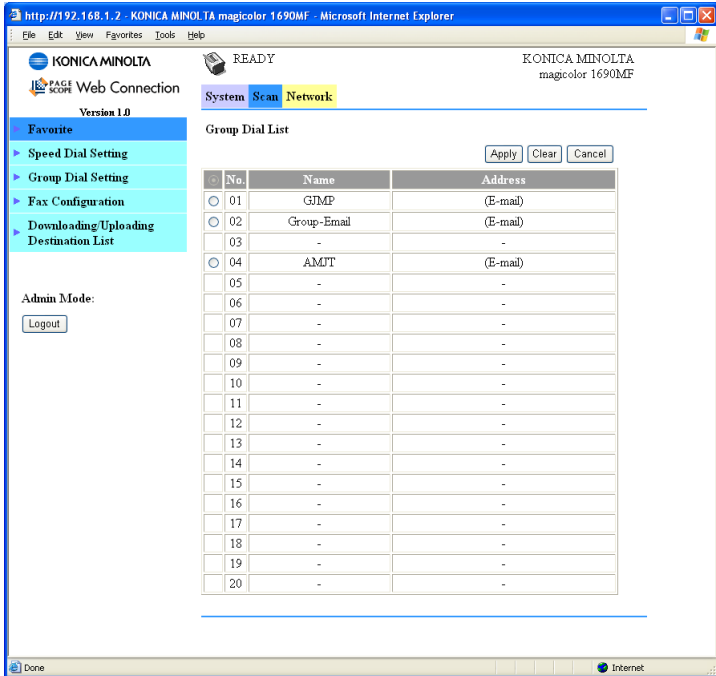


The **Scan - Favorite - Speed Dial List** window allows you to configure the following items.

Item	Description
Speed Dial List	Click to jump to the beginning of the speed dial list within the same page.
Radio button	Select a radio button to select a destination registered in the list. Default: Cleared.
No.	Displays the speed dial number.
Name	Displays the destination of the speed dial number.
Address	Displays the destination information (fax number, e-mail address, FTP address or SMB address) registered with the speed dial number.
Apply button	Applies configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

Item	Description
Cancel button	Cancels the operation and returns to the Favorite List page.

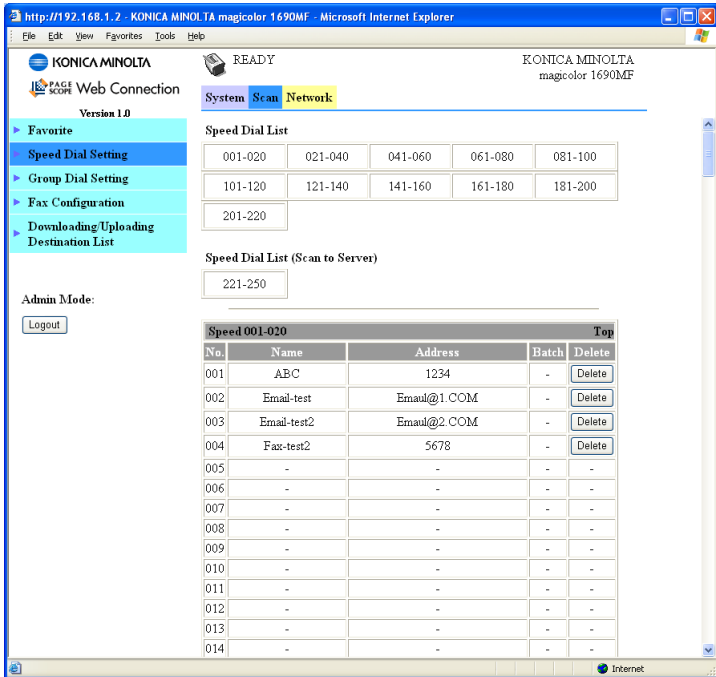
From Group Dial



The **Scan - Favorite - Group Dial List** window allows you to configure the following items:

Item	Description
Radio button	Select a radio button to select a destination registered in the list. Default: Cleared
No.	Displays the group dial number.
Name	Displays the name of the group.
Address	Shows whether the registered group contains fax destinations or e-mail destinations.
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.
Cancel button	Cancels the operation and returns to the Favorite List page.

Speed Dial Setting

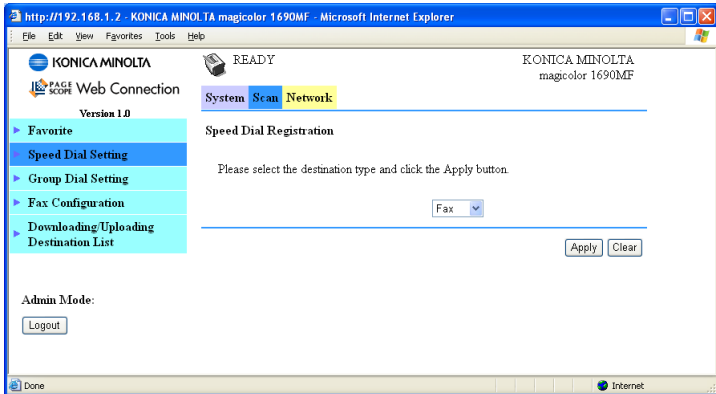


The **Scan - Speed Dial Setting** window, settings for speed dialing can be specified.


Item	Description
Speed Dial List	Click to jump to the beginning of the speed dial list within the same page. Speed Dial number of 001 - 220 are Fax and E-mail destinations. Speed Dial number of 221 - 250 are FTP and SMB destinations.

Item	Description
No.	<p>Displays the number in the speed dial list. Click a speed dial number where no destination is registered to add a destination from the Speed Dial Registration page. If a destination is already registered with the speed dial number that is clicked, the registered information can be edited.</p> <p>When registering a fax, e-mail and LDAP Search, refer to “Speed Dial Registration” on page 7-44.</p> <p>When registering an FTP or SMB destination, refer to “Speed Dial Registration (Scan to Server)” on page 7-48.</p>
Name	Displays the destination name of the speed dial number.
Address	Displays the destination information (fax number, e-mail address, FTP address or SMB address) registered with the speed dial number.
Batch	Displays the batch transmission time for speed dial number.
Delete button	Deletes the selected destination from the speed dial.

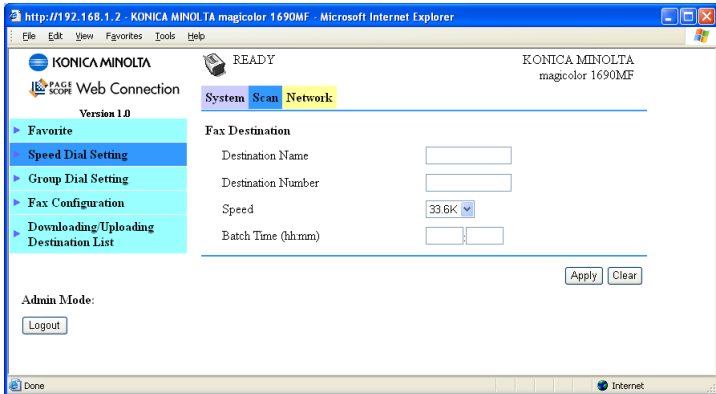
Speed Dial Registration



The **Scan - Speed Dial Setting - Speed Dial Registration** window, select the type of Speed dial destination to be added.

Item	Description
Speed Registration	<p>From the drop-down list, select the type of speed dial destination to be added.</p> <p>If “Fax” is selected, the Fax Destination page will be displayed. For details, refer to “Fax Destination” on page 7-45.</p> <p>If “E-mail” is selected, the E-mail Destination page will be displayed. For details, refer to “E-mail Destination” on page 7-46.</p> <p>If “LDAP Search” is selected, the LDAP Search page will be displayed. For details, refer to “LDAP Search” on page 7-47.</p> <p>Choices: Fax, E-mail, LDAP Search Default: Fax</p> <p> <i>If “LDAP” in the Network - LDAP page is set to “Enable” and “Server Address” is not set to “0.0.0.0”, “LDAP Search” appears.</i></p>
Apply button	Displays the page for the type of speed dial destination selected from the list.
Clear button	Resets all configuration settings for this window to their user defaults.

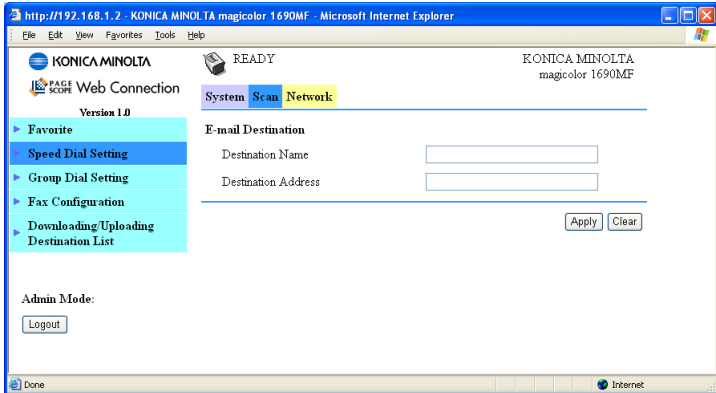
Fax Destination



The **Scan - Speed Dial Setting - Fax Destination** window allows you to configure the following items:

Item	Description
Destination Name	Specify the name of the destination. Range: Up to 20 characters. Default: [Blank]
Destination Number	Specify the fax number for the destination. Range: Up to 50 characters Default: [Blank]
Speed	Select the speed of the fax modem. Choices: 9.6K, 14.4K, 33.6K Default: 33.6K
Batch Time (hh: mm)	Specify the batch transmission time of speed dial. Range: 00:00 to 23:59 Default: [Blank]
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

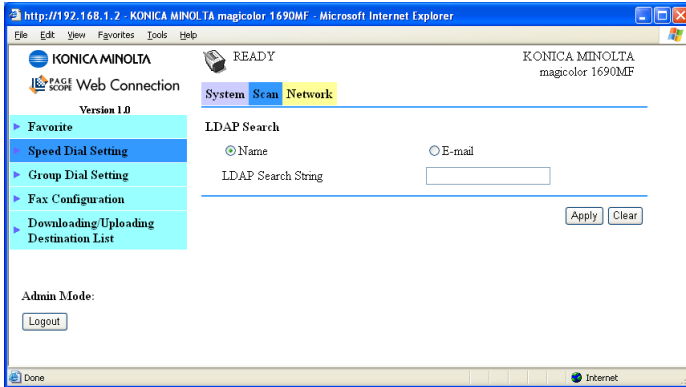
E-mail Destination



The **Scan - Speed Dial Setting - E-mail Destination** window allows you to configure the following items:

Item	Description
Destination Name	Specify the name of the destination. Range: Up to 20 characters. Default: [Blank]
Destination Address	Specify the E-mail address of the destination. Range: Up to 64 characters Default: [Blank]
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

LDAP Search



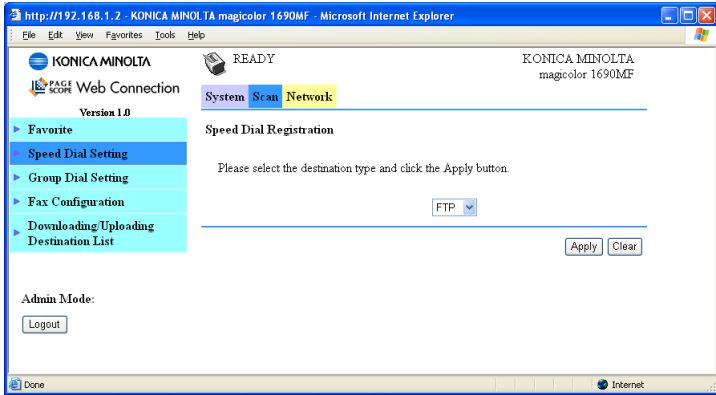
The **Scan - Speed Dial Setting - LDAP Search** window allows you to configure the following items:

Item	Description
LDAP Search	Specify the method for searching for the destination. Choices: Name, E-mail Default: Name
LDAP Search String	Specify the LDAP search string. Range: Up to 20 characters Default: [Blank]
Apply button	Starts the LDAP searching.
Clear button	Resets all configuration settings for this window to their user defaults.



When an LDAP server is used, the correct search results may not be retrieved when the search is performed from a server using anonymous access.

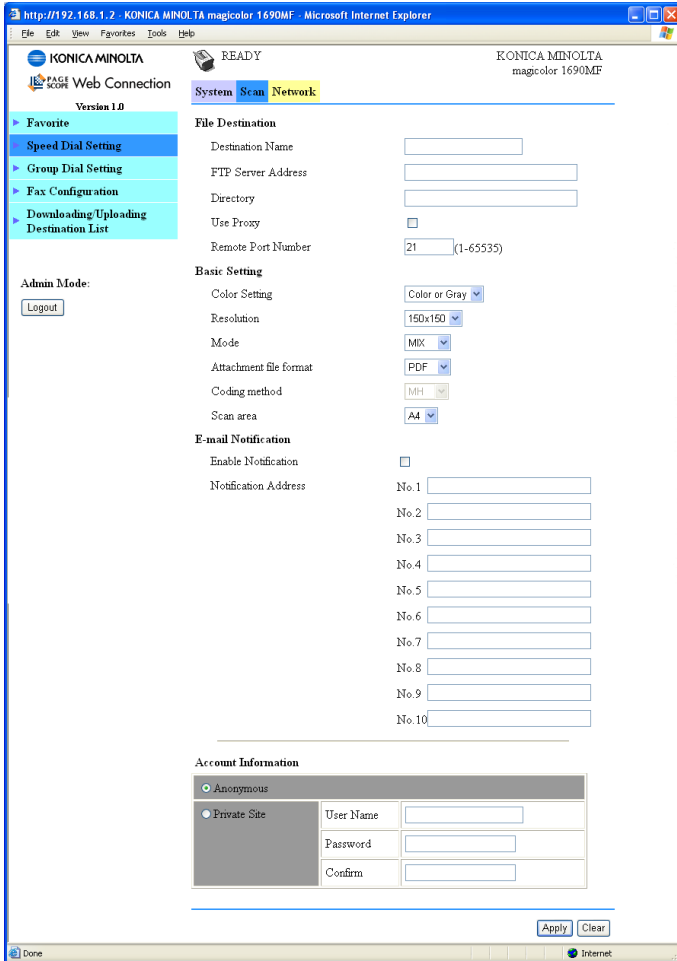
Speed Dial Registration (Scan to Server)



On the **Scan - Speed Dial Setting - Speed Dial Registration** page, select the server type of speed dial destination to be added.

Item	Description
Speed Dial Registration	From the drop-down list, select the type of speed dial destination to be added. If "FTP" is selected, refer to "For FTP Server" on page 7-49. If "SMB" is selected, refer to "For SMB server" on page 7-53. Choices: FTP, SMB Default: FTP
Apply button	Displays the page for the type of speed dial destination selected from the list.
Clear button	Resets all configuration settings for this window to their user defaults.

For FTP Server







The **Scan - Speed Dial Setting** of speed dial registration (for FTP server) window allows you to configure the following items:



*The **Network - FTP** screen, set to “Enable” from **Send** when sending to FTP server. Also, when sending via proxy server, specify the proxy server setting. For details, refer to “FTP” on page 7-95.*

Item		Description
File Destination	Destination Name	Specify the name of the destination. Range: Up to 20 characters Default: [Blank]
	FTP Server Address	Specify the destination of IP address for FTP server. When using DNS server, host name can be specified instead of IP address. Range: Up to 64 characters Default: [Blank]
	Directory	Specify the destination directory on the FTP server. Range: Up to 128 characters Default: [Blank]
	Use Proxy	Select whether or not to use a proxy server to access the FTP server. Choices: On, Off Default: Off
	Remote Port Number	Specify the number of the port for the FTP server when a proxy server is not specified. Range: 1 to 65535 Default: 21

Item	Description	
Basic Setting	Color Setting	Select the color tone to be used. Choices: BW Only, Color or Gray Default: Color or Gray
	Resolution	Select the resolution of the scanner. Choices: 150 x 150, 300 x 300 The default value is that specified with UTILITY - SCAN SETTING - RESOLUTION from the control panel.
	Mode	Select the mode type for the scanner. Choices: Text, Photo, MIX The default value is that specified with UTILITY - SCAN SETTING - QUALITY PRITORITY from the control panel.  <i>If "Color Setting" is set to "BW Only", select a setting.</i>
	Attachment file format	Select the desired file format. Choices: TIFF, PDF, JPEG The default value is that specified with UTILITY - SCAN SETTING - IMAGE FORMAT from the control panel.  <i>If "Color Setting" is set to "BW Only", "JPEG" cannot be selected.</i>
	Coding method	Select the coding method. Choices: MH, MR, MMR The default value is that specified with UTILITY - SCAN SETTING - CODING METHOD from the control panel.  <i>If "Color Setting" is set to "Color or Gray", no setting can be selected.</i>
	Scan area	Select the scanning area. Choices: A5, B5, A4, ST, LT, LG Default: A4 (metric), LT (inch)

Item		Description
E-mail Notification	Enable Notification	Select whether or not e-mail notifications are to be sent after a transmission to an FTP server is completed. Choices: On, Off Default: Off  <i>E-mail notification is not available when Disable is selected of SMTP in Network - E-mail screen.</i>
	Notification Address	Register the destination e-mail address of notification. Up to 10 addresses can be registered. Range: Up to 64 characters Default: [Blank]
Account Information	Anonymous/Private Site	Select the type of account used for logging into the FTP server. If "Anonymous" is selected, log in with "Anonymous" as the account name and "guest" as the password. If "Private Site" is selected, be sure to specify settings for User Name , Password and Confirm . Choices: Anonymous, Private Site Default: Anonymous
	User Name	Specify the user name to log in to FTP server when Private Site is selected. Range: Up to 20 characters
	Password	Specify the password to log in to FTP server when Private Site is selected. Range: Up to 20 characters
	Confirm	Type in the password again for confirmation. Range: Up to 20 characters
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

For SMB server

The screenshot shows the Konica Minolta Web Connection interface in Microsoft Internet Explorer. The browser address bar shows the URL: http://192.168.1.2_KONICA MINOLTA magicolor 1690MF. The page title is "READY" and the status bar shows "Done".

The interface is divided into several sections:

- Navigation:** "System", "Scan", "Network" tabs. "Scan" is selected.
- Favorite:** "Speed Dial Setting" (highlighted), "Group Dial Setting", "Fax Configuration", "Downloading/Uploading", "Destination List".
- Admin Mode:** "Logout" button.
- File Destination:** "Destination Name", "Destination Address", "Directory" (text input fields).
- Basic Setting:** "Color Setting" (Color or Gray), "Resolution" (150x150), "Mode" (MX), "Attachment file format" (PDF), "Coding method" (MH), "Scan area" (A4) (dropdown menus).
- E-mail Notification:** "Enable Notification" (checkbox), "Notification Address" (No. 1 to No. 10 text input fields).
- Account Information:** "Anonymous" (selected radio button), "Private Site" (radio button). Fields for "User Name", "Password", and "Confirm" are present.



Buttons for "Apply" and "Clear" are located at the bottom right of the form area.


The **Scan - Speed Dial Setting** of speed dial registration (for SMB server) window allows you to configure the following items:



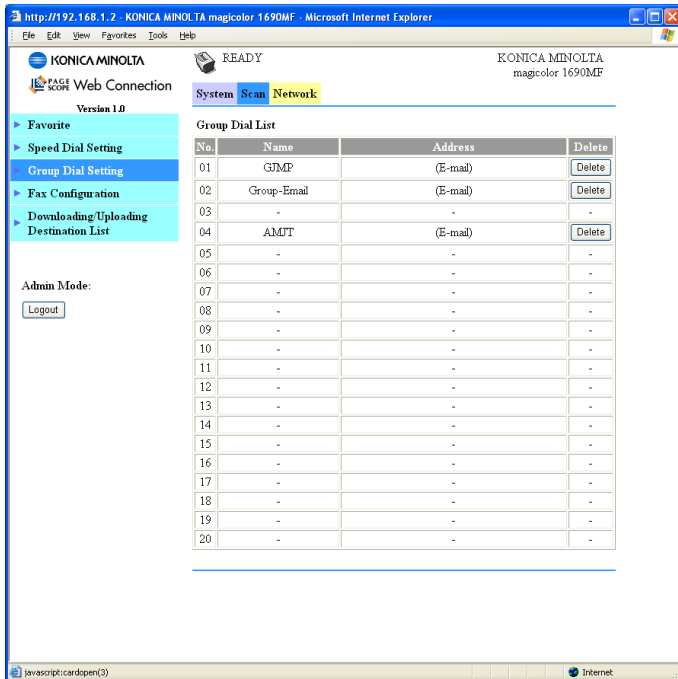
*The **Network - SMB** screen, set to "Enable" from **Send** when sending to SMB server. For details, refer to "SMB" on page 7-96.*

Item		Description
File Destination	Destination Name	Specify the name of the destination. Range: Up to 20 characters Default: [Blank]
	Destination Address	Specify the destination IP address of SMB server or NetBIOS. Range: Up to 64 characters Default: [Blank]
	Directory	Specify the destination directory on the SMB server. Range: Up to 128 characters Default: [Blank]

Item	Description	
Basic Setting	Color Setting	Select the color tone to be used. Choices: BW Only, Color or Gray Default: Color or Gray
	Resolution	Select the resolution of the scanner. Choices: 150 x 150, 300 x 300 The default value is that specified with UTILITY - SCAN SETTING - RESOLUTION from the control panel.
	Mode	Select the mode type for the scanner. Choices: Text, Photo, MIX The default value is that specified with UTILITY - SCAN SETTING - QUALITY PRITORITY from the control panel.  <i>If “Color Setting” is set to “BW Only”, select a setting.</i>
	Attachment file format	Select the desired file format. Choices: TIFF, PDF, JPEG The default value is that specified with UTILITY - SCAN SETTING - IMAGE FORMAT from the control panel.  <i>If “Color Setting” is set to “BW Only”, “JPEG” cannot be selected.</i>
	Coding method	Select the coding method. Choices: MH, MR, MMR The default value is that specified with UTILITY - SCAN SETTING - CODING METHOD from the control panel. If “Color Setting” is set to “Color or Gray”, no setting can be selected.
	Scan area	Select the scanning area. Choices: A5, B5, A4, ST, LT, LG Default: A4 (metric), LT (inch)

Item		Description
E-mail Notification	Enable Notification	Select whether or not e-mail notifications are to be sent after a transmission to an SMB server is completed. Choices: On, Off Default: Off  <i>E-mail notification is not available when Disable is selected of SMTP in Network - E-mail screen.</i>
	Notification Address	Register the destination e-mail address of notification. Up to 10 addresses can be registered. Range: Up to 64 characters Default: [Blank]
Account Information	Anonymous/Private Site	Select the type of account used for logging into the FTP server. If "Anonymous" is selected, log in with "Anonymous" as the account name and "guest" as the password. If "Private Site" is selected, be sure to specify settings for User Name , Password and Confirm . Choices: Anonymous, Private Site Default: Anonymous
	User Name	Specify the user name to log in to SMB server when Private Site is selected. Range: Up to 20 characters
	Password	Specify the password to log in to SMB server when Private Site is selected. Range: Up to 20 characters
	Confirm	Type in the password again for confirmation. Range: Up to 20 characters
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

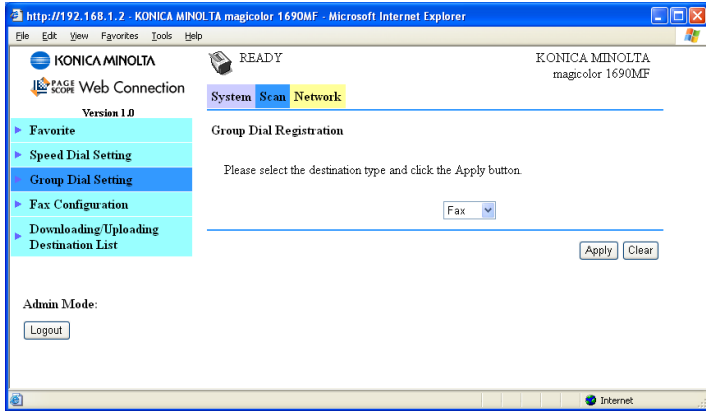
Group Dial Setting



On the **Scan - Group Dial Setting** page, settings for group dialing can be specified.

Item	Description
No.	Displays the number in the group dial list. Click a group dial number where no destinations is registered to add in the Group Dial Registration page. For details, refer to “Group Dial Registration (Destination type)” on page 7-58. If a group is already registered with the number that is clicked, the registered information can be edited.
Name	Displays the name of the group dial.
Address	Shows whether the registered group contains fax destinations or e-mail destinations.
Delete button	Deletes the corresponding group dial.

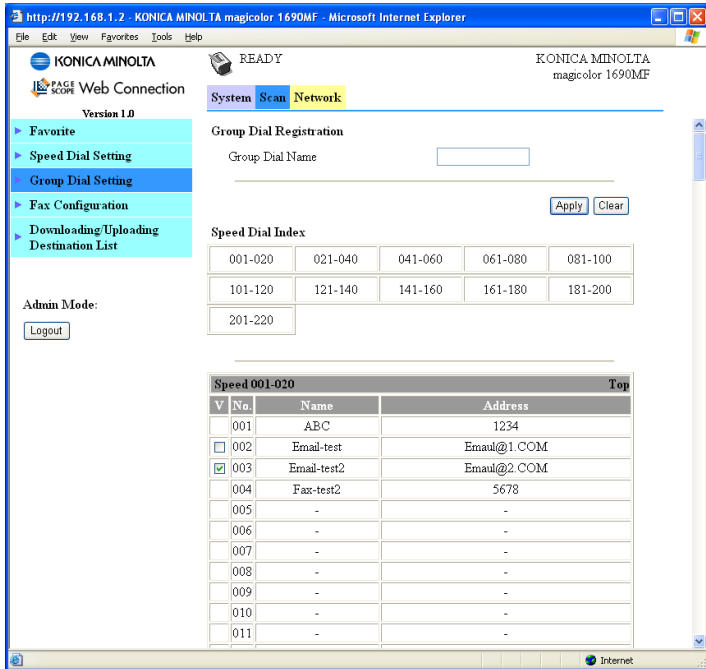
Group Dial Registration (Destination type)




In the **Scan - Group Dial Setting - Group Dial Registration** window, select the type of group dial destination to be added.

Item	Description
Group Registration	<p>From the drop-down list, select the type of group dial destination to be added.</p> <p>If "Fax" is selected, a group of Fax destinations will be displayed.</p> <p>If "E-mail" is selected, a group of E-mail destinations will displayed.</p> <p>For details, refer to "Group Dial Registration (Add Destinations)" on page 7-59.</p> <p>Choices: Fax, E-mail</p> <p>Default: Fax</p>
Apply button	Displays the page for the type of speed dial destination selected from the list.
Clear button	Resets all configuration settings in this page to their user defaults.

Group Dial Registration (Add Destinations)



The **Scan - Group Dial Setting - Group Dial Registration** window allows you to configure the following items:

Item	Description
Group Dial Name	Specify the name of the group dial. Range: Up to 20 characters. Default: [Blank]
Speed Dial Index	Click to jump to the beginning of the speed dial list within the same page.
Speed 001-020 Speed 021-040 Speed 041-060 Speed 061-080 Speed 081-100 Speed 101-120 Speed 121-140 Speed 141-160 Speed 161-180 Speed 181-200 Speed 201-220	Displays the list of registered speed dial numbers, 20 at a time. Select the check box on the left side of the list to add the corresponding speed dial destination to a group dial.  <i>SMB and FTP destination type cannot be registered in the group dial. The registered speed dial that contains fax destination and e-mail address cannot be registered in a same group.</i>

Item	Description
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

Fax Configuration

http://192.168.1.2 - KONICA MINOLTA magicolor 1690MF - Microsoft Internet Explorer

KONICA MINOLTA
READY
KONICA MINOLTA
magicolor 1690MF

System Scan Network

Version 1.0

Favorite
Speed Dial Setting
Group Dial Setting
Fax Configuration
Downloading/Uploading Destination List

Admin Mode:
Logout

User Data Registration
User Name (32 char.)
Fax Number (20 char.)

Transmission Operation
Density Level: 0
Quality Priority: Standard/Text
Default TX: Memory TX Direct TX
Header:

Reception Operation
Memory RX Mode:
On Time: _____
Off Time: _____
Password (XXXXXX): _____
Number of Rings: 2 times (1-16)
Reduction RX: Off
RX Print: Memory RX Print RX
RX Mode: Auto RX Manual RX
Forward Mode: Off
Forward Address: _____
Footer Enable:
Select Tray: Tray 1 Tray 2

Communication Setting
Tone/Pulse: Tone
Line Monitor Volume: Low
PSTN/PBX: PSTN PBX (_____)

Reporting
Activity Report: On
TX Result Report: On(Error)
RX Result Report: On(Error)


User Settings
Fax PTT Setting: United Kingdom
Date Format: MM/DD/YY
Preset Zoom: Inch Metric


Auto Redial Setting
Number of Redials: 2 times (1-10)
Redial Interval: 2 minutes (2-99)

Apply Clear




In the **Scan - Fax Configuration** page, user information can be registered.


Item		Description
User Data Registration	User Name	Specify the user name. Range: Up to 32 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - USER NAME
	Fax Number	Specify the fax number. Range: Up to 20 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - USER FAX NUMBER
Transmission Operation	Density Level	Specify the density level for fax scanning. Choices: -1, 0, +1 Default: 0 Configuration Menu Equivalent: UTILITY - FAX TX OPERATION - DENSITY LEVEL
	Quality Priority	Select the quality setting given priority with fax scanning. Choices: Standard/Text, Fine/Text, Super Fine/Text, Standard/Photo, Fine/Photo, Super Fine/Photo Default: Standard/Text Configuration Menu Equivalent: UTILITY - FAX TX OPERATION - QUALITY PRIORITY
	Default TX	Select the default transmission mode. Choices: Memory TX, Direct TX Default: Memory TX Configuration Menu Equivalent: UTILITY - FAX TX OPERATION - DEFAULT TX

Item		Description
	Header	<p>Select whether or not the transmission information (date sent, sender's name, fax number, etc.) is printed on sent faxes.</p> <p>Choices: On, Off</p> <p>Default: On</p> <p>Configuration Menu Equivalent: UTILITY - FAX TX OPERATION - HEADER</p> <p> <i>If "Fax PTT Setting" is set to "U.S.A", "Canada" or "Korea", no setting other than "On" can be selected; therefore, this parameter does not appear.</i></p>
Reception Operation	Memory RX Mode	<p>Select whether to allow ("On") memory reception or not ("Off"). Select On not to print when receiving confidential faxes or when no one is around, for example, at night. The received document can be stored in the memory and printed at a specified time or when memory reception is set to "Off". A password can be set to specify the starting time or ending time of memory reception, or to cancel the function. The set of starting time and ending time are valid every day until memory reception is turned off.</p> <p>Choices: Off, On</p> <p>Default: Off</p> <ul style="list-style-type: none"> ■ On Time Range: 00:00 to 23:59 Default: [Blank] ■ Off Time Range: 00:00 to 23:59 Default: [Blank] ■ Password Range: 0000 to 9999 Default: [Blank] <p>Configuration Menu Equivalent: UTILITY - FAX RX OPERA- TION - MEMORY RX MODE</p>

Item		Description
	Number of Rings	<p>Specify the number of rings that are sounded. Range: 1 to 16 Configuration Menu Equivalent: UTILITY - FAX RX OPERATION - No. OF RINGS</p> <p> <i>If "Fax PTT Setting" is set to "New Zealand", the range for the number of rings changes to "7 to 10".</i></p>
	Reduction RX	<p>Select whether documents longer than the paper are printed reduced, split, or discarded. If "On" is selected, received faxes are printed reduced. If "Off" is selected, received faxes are printed at full size and split onto multiple pages. If "Cut" is selected, received faxes are printed while erasing any part that does not fit within the page. However, when sending a document more than 24 mm (1 inch) longer than the paper, "Cut" is not available. (In this case, the document is split.) Choices: On, Off, Cut Default: On Configuration Menu Equivalent: UTILITY - FAX RX OPERATION - REDUCTION RX</p>

Item		Description
	RX Print	<p>Select whether the fax is printed only after all document pages have been received or printing begins as soon as the first page of the document is received.</p> <p>If "Memory RX" is selected, printing begins after all pages have been received.</p> <p>If "Print RX" is selected, printing begins after the first page has been received.</p> <p>Choices: Memory RX, Print RX</p> <p>Default: Memory RX</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - FAX RX OPERA- TION - RX PRINT</p>
	RX Mode	<p>Select the reception mode.</p> <p>Choices: Auto RX, Manual RX</p> <p>Default: Auto RX</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - FAX RX OPERA- TION - RX MODE</p>
	Forward Mode	<p>Select the forwarding mode.</p> <p>Choices: Off, On, On (Print)</p> <p>Default: Off</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - FAX RX OPERA- TION - FORWARD</p>
	Forward Address	<p>Specify the forwarding address for faxes or e-mail.</p> <p>Range: Up to 50 characters (Fax), 64 character (E-mail)</p> <p>Default: [Blank]</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - FAX RX OPERA- TION - FORWARD</p>
	Footer Enable	<p>Select whether or not the footer is printed.</p> <p>Choices: On, Off</p> <p>Default: Off</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - FAX RX OPERA- TION - FOOTER</p>

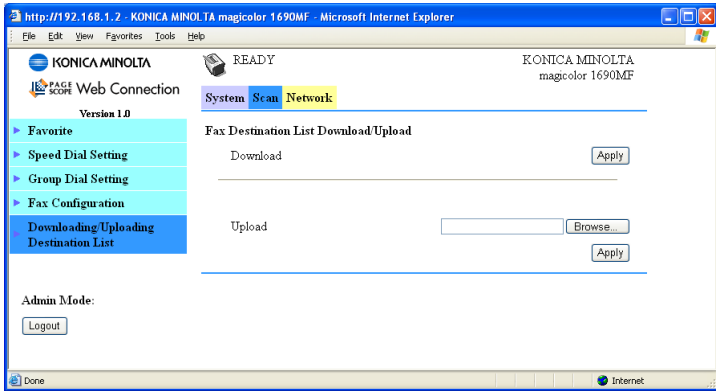
Item	Description	
	Select Tray	<p>This parameter can be used to select which paper trays can be used to supply paper when printing received documents or transmission reports. The paper trays can also be set so that they cannot be used for supplying paper.</p> <p>Choices: Tray 1, Tray 2</p> <p>Default: Tray 1</p> <p>Configuration Menu Equivalent: UTILITY - FAX RX OPERA- TION - SELECT TRAY</p> <p> <i>“Tray 2” appears only if an optional lower feeder unit is installed.</i></p>
Communi- cation Set- ting	Tone/Pulse	<p>Select a tone or pulse dialing mode. If this parameter is not specified correctly, faxes cannot be sent.</p> <p>Choices: Tone, Pulse</p> <p>Default: Tone</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGE- MENT - COMM. SETTING - TONE/PULSE</p> <p> <i>If “Fax PTT Setting” is set to “U.S.A”, “Canada” or “New Zealand”, no setting other than “Pulse” can be selected.</i></p>
	Line Monitor Volume	<p>Select the volume of the monitoring sound of the transmission signal.</p> <p>Choices: High, Low, Off</p> <p>Default: Low</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGE- MENT - COMM. SETTING - LINE MONITOR</p> <p> <i>Even when “Off” is selected, the monitoring sound can be heard when the “On hook” key in the control panel is pressed.</i></p>

Item	Description	
	PSTN/PBX	<p>Select whether the connected telephone wiring is a public switched telephone network (PSTN) or a private branch exchange (PBX).</p> <p>Choices: PSTN, PBX Default: PSTN</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - COMM. SETTING - PSTN/PBX</p> <p> <i>When "PBX" is selected, the PBX number can be set between 0 and 9999.</i></p>
Reporting	Activity Report	<p>A report can be printed to show the results of transmissions/receptions.</p> <p>Choices: On, Off Default: On</p> <p>Configuration Menu Equivalent: UTILITY - REPORTING - ACTIVITY REPORT</p>
	TX Result Report	<p>Select whether or not a report showing the results of a transmission is printed automatically after the transmission is finished.</p> <p>If "ON" is selected, a report is printed after each transmission is finished.</p> <p>If "ON (ERROR)" is selected, a report is printed after the transmission only if an error occurred.</p> <p>If "OFF" is selected, a report is not printed after each transmission is finished. The report is not printed even if an error occurred.</p> <p>Choices: On, On (Error), Off Default: On (Error)</p> <p>Configuration Menu Equivalent: UTILITY - REPORTING - TX RESULT REPORT</p>

Item	Description	
	RX Result Report	<p>Select whether or not a report showing the results of a reception is printed automatically after the reception is finished.</p> <p>If "ON" is selected, a report is printed after each reception is finished.</p> <p>If "ON (ERROR)" is selected, a report is printed after the reception only if an error occurred.</p> <p>If "OFF" is selected, a report is not printed after each reception is finished. The report is not printed even if an error occurred.</p> <p>Choices: On, On (Error), Off</p> <p>Default: On (Error)</p> <p>Configuration Menu Equivalent: UTILITY - REPORTING - RX RESULT REPORT</p>
User Settings	Fax PTT Setting	<p>Displays the country where this machine is installed.</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGE- MENT - USER SETTINGS - PTT SETTING</p>
	Date Format	<p>Select the date display format for reports and lists.</p> <p>Choices: MM/DD/YY, DD/MM/YY, YY/MM/DD</p> <p>Default: MM/DD/YY</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGE- MENT - USER SETTINGS - DATE FORMAT</p>
	Preset Zoom	<p>Select the measurement units for the preset zoom ratios.</p> <p>Choices: Inch (U.S.model), Metric (Other model)</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGE- MENT - USER SETTINGS - PRESET ZOOM</p>

Item		Description
Auto Redial Settings	Number of Redials	Specify the number of redial attempts. Range: 1 to 10 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - AUTO REDIAL - NUMBER OF REDIAL
	Redial Interval	Specify the redial interval. Range: 2 to 99 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - AUTO REDIAL - INTERVAL
Apply button		Applies the configuration settings for this window.
Cancel button		Resets all configuration settings to previous values.

Downloading/Uploading Destination List



In the **Scan - Downloading/Uploading Destination List** window, the destination information can be downloaded or uploaded.

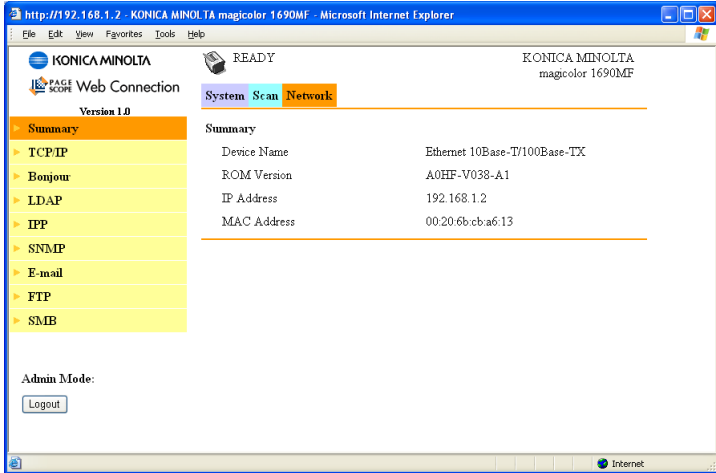
Item	Description
Download	Click the Apply button to save the registered destinations as a file on the computer being used.
Upload	Specify the location of the file containing the destinations, and then click the Apply button to write the destinations to the machine.



When making changes to an exported CSV file, use a text editor. If the file is not saved using a text editor, an error will occur when the file is imported.

Network

The Network page allows you to configure the machine's network interface. For more information on these protocols, see chapter 6, "Network Printing."



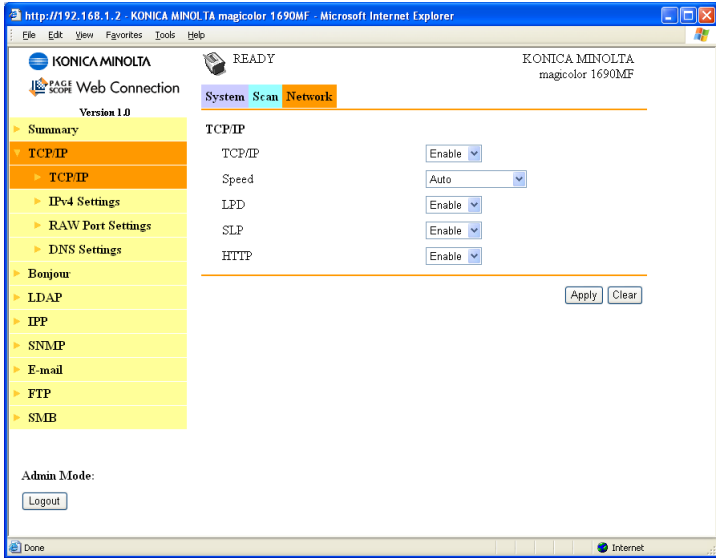
Summary (shown above)

The **Network - Summary** window provides the following information:

Item	Description
Device Name	Displays information on the network interface.
ROM Version	Displays the version of the network firmware.
IP Address	Identifies the IP (Internet Protocol) address of the Ethernet interface.
MAC Address	Identifies the Media Access Control (MAC) address of the Ethernet interface.

TCP/IP

TCP/IP

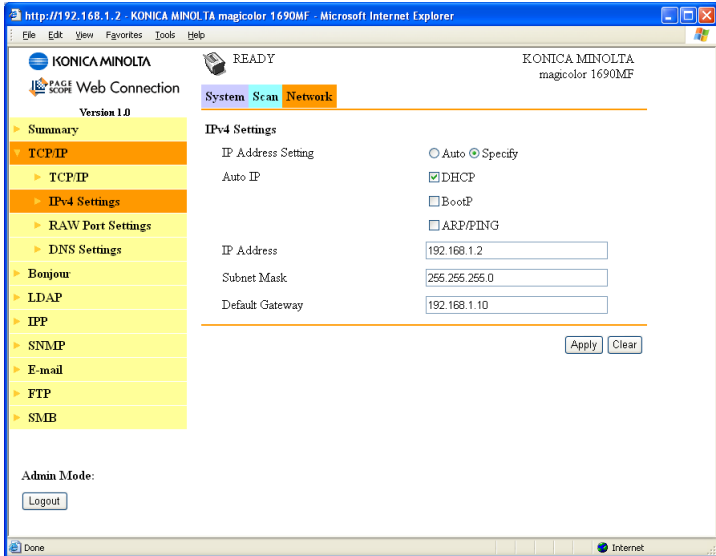


The **Network - TCP/IP - TCP/IP** window allows you to configure the following items. For more information on these TCP/IP settings, see chapter 6, “Network Printing.”

Item	Description
TCP/IP	Select whether or not to make a connection via TCP/IP. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - TCP/IP
Speed	Select the transmission speed of the network. Choices: Auto, 10Base-T (Full), 10Base-T (Half), 100Base-TX (Half), 100Base-TX (Full) Default: Auto Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - SPEED/DUPLEX
LPD	Select whether LPD is enabled or disabled. Choices: Enable, Disable Default: Enable





Item	Description
SLP	Select whether SLP is enabled or disabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NET- WORK SETTING - SLP
HTTP	Select whether HTTP is enabled or disabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NET- WORK SETTING - HTTP
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

IPv4 Settings



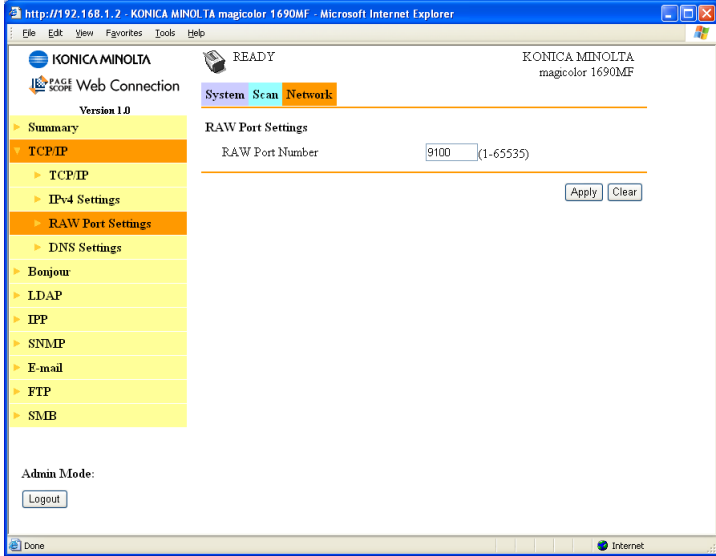
In the **Network - TCP/IP - IPv4 Settings** window, settings can be specified for the following parameters.

Item	Description
IP Address Setting	Select whether the IP address of the machine is assigned automatically or manually. Choices: Auto, Specify Default: Auto Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. SETTING
Auto IP	Select the method for automatically assigning the machine IP address. Choices: DHCP, BootP, ARP/PING Default: DHCP Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DHCP, BOOTP, ARP/PING


Item	Description
IP Address	<p>Specifies the machine's IP address. Range: 0 - 255 for each triplet Default: 0.0.0.0</p> <p> <i>When IP Address Setting is set to "SPECIFY", the above values are not acceptable when click Apply button.</i></p> <p> <i>If the IP address is outside the range, the following message displays when you choose the Apply button: "Update Unsuccessful" Go back to the previous screen, and then type an appropriate number.</i></p> <p>Configuration Menu Equivalent: UTILITY- ADMIN. MANAGEMENT - NET- WORK SETTING - IP ADDR. SETTING</p>
Subnet Mask	<p>Specifies the machine's subnet mask address. Range: 0 - 255 for each triplet Default: 255.255.255.0</p> <p> <i>If the subnet mask is outside the range, the following message displays when you choose the Apply button: "Update Unsuccessful" Go back to the previous screen, and then type an appropriate number.</i></p> <p>Configuration Menu Equivalent: UTILITY- ADMIN. MANAGEMENT - NET- WORK SETTING - IP ADDR. SETTING</p>
Default Gateway	<p>If a router is used on the network, sets the router's address. Range: 0 to 255 for each triplet Default: 0.0.0.0</p> <p> <i>If the default gateway is outside the range, the following message displays when you choose the Apply button: "Update Unsuccessful" Go back to the previous screen, and then type an appropriate number.</i></p> <p>Configuration Menu Equivalent: UTILITY- ADMIN. MANAGEMENT - NET- WORK SETTING - IP ADDR. SETTING</p>

Item	Description
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

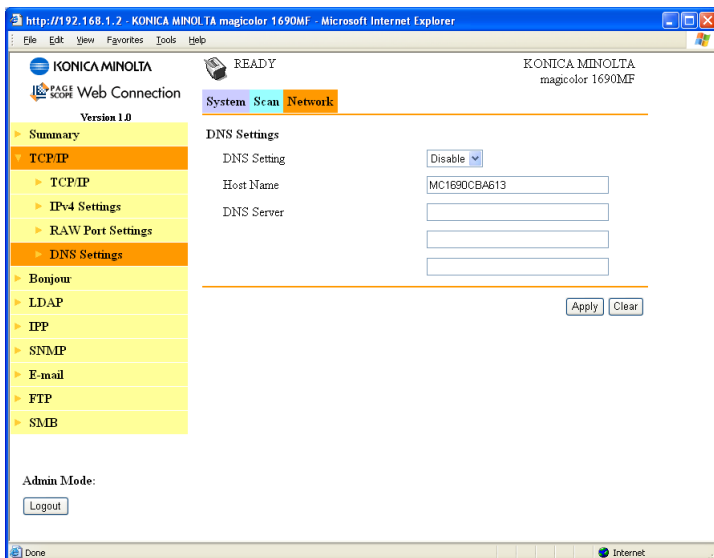
RAW Port Settings




In the **Network - TCP/IP - RAW Port Settings** window, settings can be specified for the following parameters.

Item	Description
RAW Port Number	Specify the RAW port number (maximum of 5 digits). Range: 1 to 65535 Default: 9100  <i>The currently used port number and numbers 80, 161, 427, 515, 631 and 4567 cannot be specified.</i>
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

DNS Settings

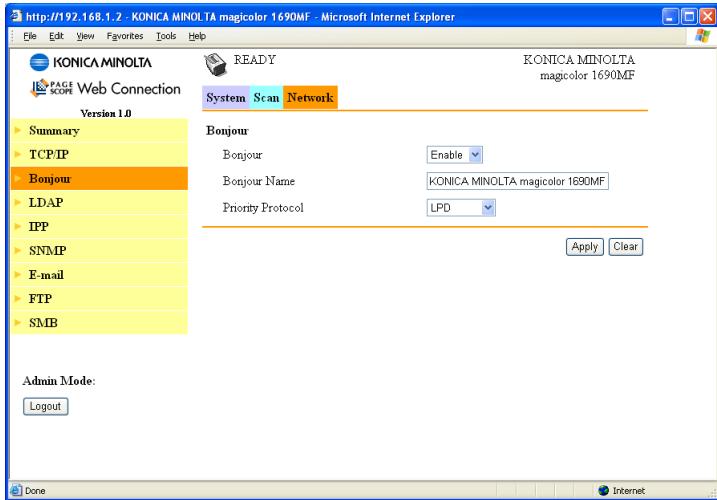


In the **Network - TCP/IP - DNS Settings** window, settings can be specified for the following parameters.


Item	Description
DNS Setting	Select whether DNS settings are enabled or disabled. Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DNS CONFIG.
Host Name	Specify the host name of the machine. Range: Up to 63 characters Default: MC1690-xxxxxx  "xxxxxx" represents the last six digits of the MAC address.
DNS Server	Specify the address of the DNS server. Up to three addresses can be specified. Range: 0-255 for each triplet Default: 0.0.0.0 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DNS CONFIG.

Item	Description
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

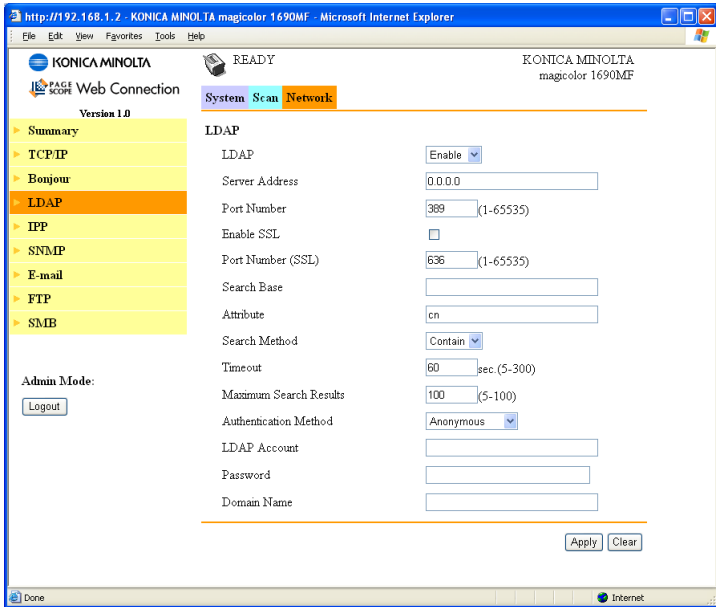
Bonjour



The **Network - Bonjour** window allows you to configure the following items.



Item	Description
Bonjour	Select whether to enable or disable the Bonjour function. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - BONJOUR
Bonjour Name	Specify the Bonjour name for the machine. Range: Up to 63 characters Default: KONICA MINOLTA magicolor 1690MF (xx:xx:xx)  <i>"xx:xx:xx" refers to the last six digits of the MAC address (in hexadecimal).</i>
Priority Protocol	Select the protocol given priority. Choices: LPD, RAW Port, IPP Default: LPD
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

LDAP



In the **Network - LDAP** window, settings can be specified for the following parameters.

Item	Description
LDAP	Select whether or not the LDAP server is used. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - DISABLE/ENABLE
Server Address	Specify the address of the LDAP server. IPv4 address or domain name can be specified. Range: Up to 64 characters Default: 0.0.0.0 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP SERVER ADDR.

Item	Description
Port Number	<p>Specify the port number of the LDAP server. Range: 1 to 65535 Default: 389 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP PORT NO.</p> <p> <i>The setting automatically changes to "389" when "Enable SSL" is set to "Off".</i></p>
Enable SSL	<p>Select whether SSL is enabled or disabled. Choices: On, Off Default: Off Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SSL SETTING</p> <p> <i>The setting automatically changes to "636" when "Enable SSL" is set to "On".</i></p>
Port Number (SSL)	<p>Specify the port number of the LDAP server when SSL is used. Range: 1 to 65535 Default: 636</p>
Search Base	<p>Specify the search starting point in a hierarchical structure arranged on the LDAP server. Range: Up to 64 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SEARCH BASE</p>
Attribute	<p>Specify the attribute that acquires. Range: Up to 32 characters Default: cn Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - ATTRIBUTE</p>

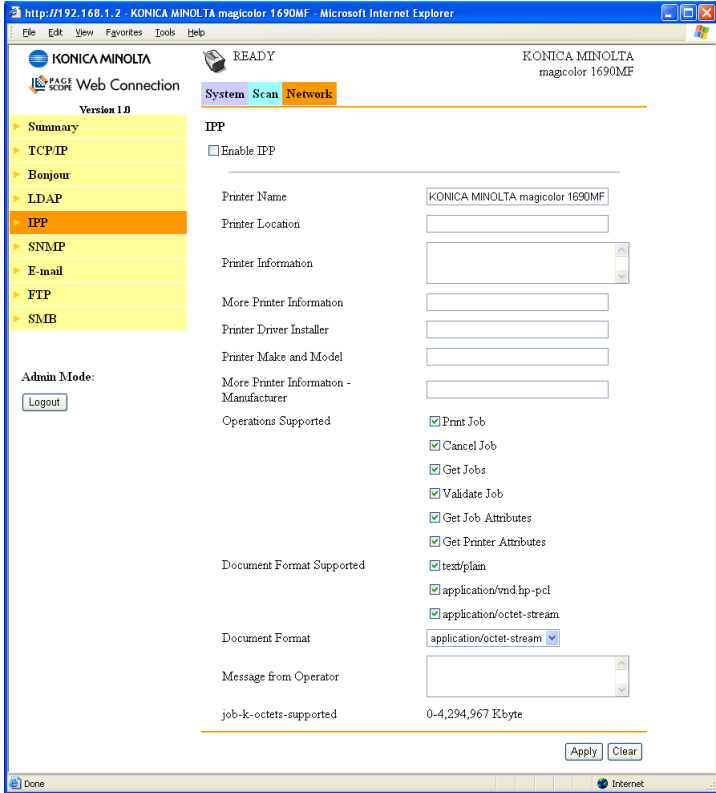
Item	Description
Search Method	<p>The specified characters can be searched for at the beginning, within or at the end.</p> <p>Choices: Begin, Contain, End</p> <p>Default: Contain</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SEARCH METHOD</p>
Timeout	<p>Specify the maximum wait time during a search.</p> <p>Range: 5 to 300</p> <p>Default: 60</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP TIMEOUT</p>
Maximum Search Results	<p>Specify the maximum number of destinations displayed after a search.</p> <p>Range: 5 to 100</p> <p>Default: 100</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - MAX. SEARCH RESULTS</p>
Authentication Method	<p>Select the authentication method used for logging on to the LDAP server.</p> <p>If "Anonymous" is selected, a user name and password are not necessary.</p> <p>If "Simple" is selected, a user name and password are necessary.</p> <p>If "Digest-MD5" is selected, use with a general LDAP server.</p> <p>If "GSS-SPNEGO" is selected, use with Active Directory in Windows.</p> <p>Choices: Anonymous, Simple, Digest-MD5, GSS-SPNEGO</p> <p>Default: Anonymous</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - AUTHENTICATION</p>
LDAP Account	<p>Specify the account used to connect to the LDAP server.</p> <p>Range: Up to 64 characters</p> <p>Default: [Blank]</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP ACCOUNT</p>

Item	Description
Password	Specify the password used to connect to the LDAP server. Range: Up to 32 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP PASSWORD
Domain Name	Specify the necessary domain name used to connect to the LDAP server. Range: Up to 64 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - DOMAIN NAME
Apply button	Applies the configuration settings in this window.
Cancel button	Resets all configuration settings to previous values.





When an LDAP server is used, the correct search results may not be retrieved when the search is performed from a server using anonymous access.

IPP

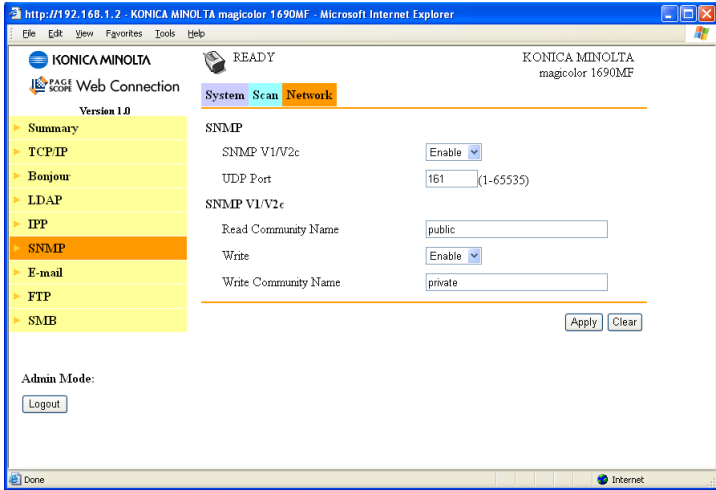


The **Network - IPP** window allows you to configure the following items. For details on IPP, refer to chapter 6, "Network Printing." In order to apply the settings, the machine must be turned off, then on again after the setting is specified.


Item	Description
Enable IPP	<p>Selects whether or not IPP is used. Choices: On, Off Default: On</p> <p> <i>When "HTTP" is set to "Disable", "Enable IPP" will automatically be set to "Off" (the "Enable IPP" check box will be cleared).</i></p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPP</p>
Printer Name	<p>Specifies the printer's name. Range: Up to 127 characters Default: KONICA MINOLTA magicolor 1690MF (xx:xx:xx)</p> <p> <i>"xx:xx:xx" refers to the last six digits of the MAC address (in hexadecimal).</i></p>
Printer Location	<p>Specifies the printer's location. Range: Up to 127 characters Default: [Blank]</p>
Printer Information	<p>Specifies the printer information. Range: Up to 127 characters Default: [Blank]</p>
More Printer Information	<p>Specifies printer information that is more detailed than the information entered in the "Printer Information" box. Range: Up to 127 characters Default: [Blank]</p>
Printer Driver Installer	<p>Specifies the version information for the printer driver installer. Range: Up to 127 characters Default: [Blank]</p>
Printer Make and Model	<p>Specifies the printer model information. Range: Up to 127 characters Default: [Blank]</p>

Item		Description
More Printer Information Manufacturer		Specifies the printer manufacturer and other information. Range: Up to 127 characters Default: [Blank]
Operations Supported	Print Job	If this check box is selected, Print Job is enabled. Default: Checked
	Cancel Job	If this check box is selected, Cancel Job is enabled. Default: Checked
	Get Jobs	If this check box is selected, Cancel Job is enabled. Default: Checked
	Validate Job	If this check box is selected, Validate Job is enabled. Default: Checked
	Get Job Attributes	If this check box is selected, Get Job Attribute is enabled. Default: Checked
	Get Printer Attributes	If this check box is selected, Get Printer Attribute is enabled. Default: Checked
Document Format Supported	text/plain	Select whether or not this format is used. Default: Checked
	application/vnd.hp-pcl	Select whether or not this format is used. Default: Checked
	application/octet-stream	Select whether or not this format is used. Default: Checked
Document Format	From the drop-down list, select the format type. Choices: text/plain, application/vnd.hp-pcl, application/octet-stream Default: application/octet-stream	
Message from Operator	Displays a message from the operator. Range: Up to 127 characters Default: [Blank]	
job-k-octets-supported	0-4,294,967 Kbyte	
Apply button	Applies the configuration settings for this window.	
Clear button	Resets all configuration settings to previous values.	

SNMP

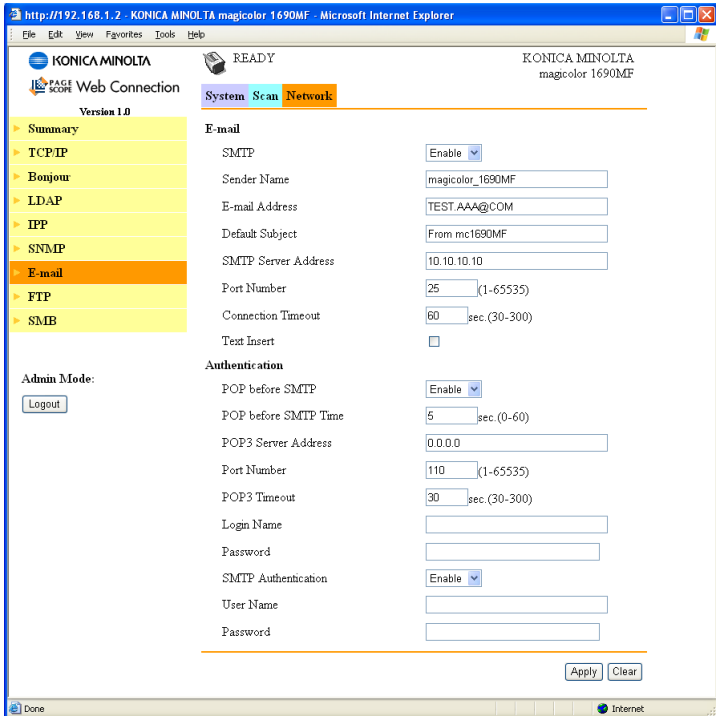


The **Network - SNMP** window allows you to configure the following items:

Item		Description
SNMP	SNMP V1/V2c	Select whether or not SNMP V1/V2c is used. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - SNMP
	UDP Port	Specify the UDP port number. Range: 1 to 65535 Default: 161  <i>The currently used port number and numbers 80, 427, 515, 631, 9100 and 4567 cannot be specified.</i>



Item		Description
SNMP V1/ V2c	Read Community Name	Specify the read community name for SNMP. Range: Up to 15 characters Default: Public
	Write	Specify whether or not writing is permitted with SNMP. Choices: Enable, Disable Default: Enable
	Write Community Name	Specify the write community name. Range: Up to 15 characters Default: private
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

E-mail



The **Network - E-mail** window allows you to configure the following items:

Item	Description
SMTP	If "Enable" is selected, sending E-mail is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP
Sender Name	Specify the name of the E-mail sender when using network scanning. Range: Up to 20 characters Default: magicolor_1690MF Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SENDER NAME

Item	Description
E-mail Address	<p>Specify the E-mail address of the sender when using network scanning.</p> <p>Range: Up to 64 characters Default: [Blank]</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - E-MAIL ADDRESS</p> <p> <i>If the E-mail Address text box remains blank when the Apply button is clicked, an error appears. Be sure to specify an appropriate setting.</i></p>
Default Subject	<p>Specify the subject of the E-mail message when using network scanning.</p> <p>Range: Up to 20 characters Default: From mc1690MF</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - DEFAULT SUBJECT</p>
SMTP Server Address	<p>Specify the IP address or host name for the SMTP server.</p> <p>Range: Up to 64 characters Default: 0.0.0.0</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP SERVER ADDR.</p> <p> <i>When specifying a setting for SMTP Server Address, also specify a setting for E-mail Address.</i></p>
Port Number	<p>Specify the port number communicating with the SMTP server.</p> <p>Range: 1-65535 Default: 25</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP PORT NO.</p>

Item	Description
Connection Time-out	<p>Select the amount of time (in seconds) until the connection with the SMTP server times out.</p> <p>Range: 30-300 Default: 60</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP TIMEOUT</p>
Text Insert	<p>Select whether or not the previously specified text is inserted into the body of the E-mail message when using network scanning.</p> <p>Choices: On, Off Default: Off</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - TEXT INSERT</p>
POP before SMTP	<p>If Enable is selected, POP before SMTP is enabled.</p> <p>Choices: Enable, Disable Default: Disable</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - DISABLE/ENABLE</p>
POP before SMTP Time	<p>Specify the time period to access the SMTP server after logging in to the POP server.</p> <p>Range: 0 - 60 (in seconds) Default: 5</p>
POP3 Server Address	<p>Type in the host name or IP address for the POP3 server used for authentication with POP before SMTP.</p> <p>Range: Up to 64 characters Default: 0.0.0.0</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 SERVER ADDR.</p>

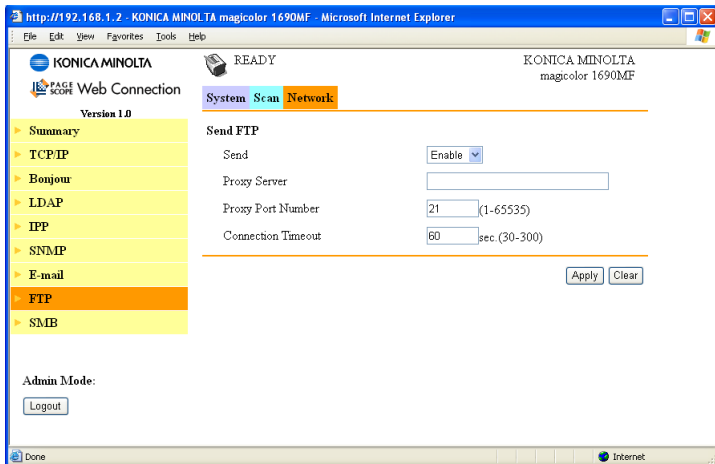
Item	Description
Port Number	Specify the port number used for communicating with the SMTP server. Range: 1 to 65535 Default: 110 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 PORT NO.
POP3 Timeout	Select the amount of time (in seconds) until the connection with the POP3 server times out. Range: 30 to 300 Default: 30 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 TIMEOUT
Login Name	Type in the user name used for authentication with POP3 server. Range: Up to 63 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 ACCOUNT
Password	Type in the password used for authentication with POP3 server. Range: Up to 15 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 PASSWORD
SMTP Authentication	If "Enable" is selected, SMTP Authentication is enabled. Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - DIS- ABLE/ENABLE

Item	Description
User Name	Type in the user name used for authentication with SMTP Authentication. Range: Up to 63 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - SMTP USER NAME
Password	Type in the password used for authentication with SMTP Authentication. Range: Up to 15 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - SMTP PASSWORD
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.



Use alphanumeric characters (including some symbols) for the Sender Name and Default Subject. Using other characters will corrupt the characters for the E-mail destination. For details on characters that can be entered, refer to the Printer/Copier/Scanner User's Guide on the Documentation CD/DVD.

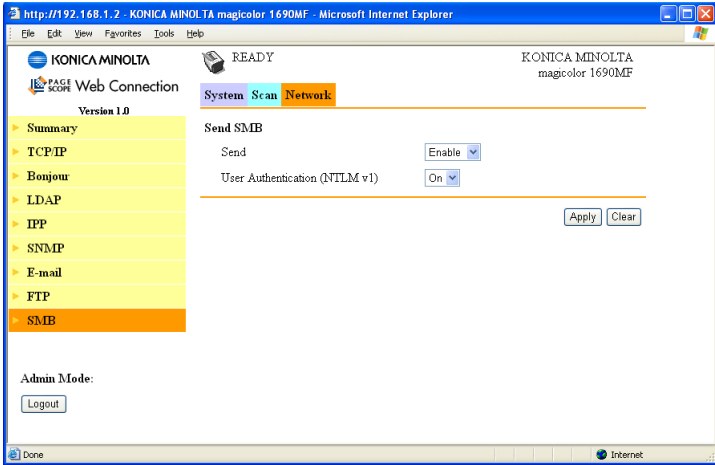
FTP



In the **Network - FTP** window, settings can be specified for the following parameters.

Item	Description
Send	If Enable is selected, FTP transmission is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - FTP
Proxy Server	Specify the address when using via proxy server. Range: Up to 64 characters Default: [Blank]
Proxy Port Number	Specify the port number for the proxy server. Range: 1 to 65535 Default: 21
Connection Timeout	Select the amount of time (in seconds) until the connection with the FTP server times out. Range: 30 to 300 Default: 60
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

SMB



In the **Network - SMB** window, settings can be specified for the following parameters.

Item	Description
Send	If Enable is selected, SMB transmission is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - SMB
User Authentication (NTLM v1)	Select whether or not NTLM user authentication is performed. Choices: On, Off Default: On
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

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