

magicolor[®] 2350 Reference Guide

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In Section 1...

- Chapter 1.1 PC Connections
 Instructions for connecting your printer to a PC
 using parallel, USB, and Ethernet
 connections.
- Chapter 1.2 Macintosh Connections Instructions for connecting your printer to a Macintosh using USB and Ethernet connections.

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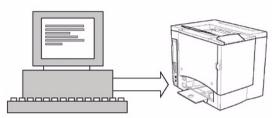
Connecting to Windows Operating Systems



Introduction

This chapter guides you through the installation of your printer in Windows environments. The two most common ways to connect your printer to a PC are using either a local connection (parallel or USB interface) or using a network connection (TCP/IP).

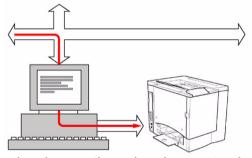
Local Connections



Local connection

A local connection is accomplished by connecting the workstation and the printer directly by means of a parallel or USB interface. These interfaces support only a one-to-one connection, which means that the workstation exclusively 'owns' the connection to the printer.

Some network environments allow the access of a printer locally attached to one of the workstations. Although all users attached to the network may use the printer, the (print) data flow to that particular workstation may affect its normal use. In most of these cases, this workstation is exclusively needed as a print server and cannot be used as a normal workstation anymore.



Local connection—shared over network

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Parallel Interface



1 000000000000000000000000000000000000					
Pin	Description	Pin	Description		
1	Strobe (-)	19	Return		
2	Data_1	20	Return		
3	Data_2	21	Return		
4	Data_3	22	Return		
5	Data_4	23	Return		
6	Data_5	24	Return		
7	Data_6	25	Return		
8	Data_7	26	Return		
9	Data_8	27	Return		
10	Acknowledge (-)	28	Return		
11	Busy (+)	29	Return		
12	Printer Error (+)	30	Return		
13	Select	31	Iprime		
14	Autofeed	32	Fault (-)		
15	Reserved	33	Reserved		
16	Ground	34	Reserved		
17	Ground	35	Reserved		
18	Vcc Test	36	Select In		

Making the Parallel Connection

Connecting your printer locally to your PC using a parallel connection requires two steps.

- 1 Connect your printer to your PC. Connect your printer to your PC by means of a parallel cable. The cable must not exceed a length of 6.5 feet (2 meters).
- 2 Install the KONICA MINOLTA PostScript or PCL Driver for Windows. (See "Installing the PostScript Printer Driver" on page 33 for more information.)



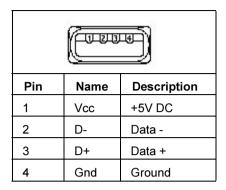
You would use similar steps to install the PCL driver.

Local Connections

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USB Interface





Making the USB Connection

Make sure your operating system (Win98SE and above, not including Windows NT4) supports USB and make sure USB drivers for the port are installed on your operating system (found on the Device Manager).

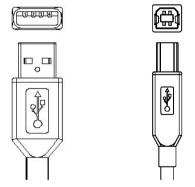
- 1 Turn the printer on and make sure the message window displays IDLE.
- Plug one end of the USB cable into the PC and the other into the printer USB port.

The operating system displays
New Hardware Found, and
lists USB Device.

The Add New Hardware Wizard listing KONICA MINOLTA Printing Support appears.

- 3 Select Next.
- 4 Make sure that Search for the Best Device, Recommended is selected, and then select Next.
- 5 Select Specify A Location:.
- 6 Select Browse.
- On the Software Utilities CD-ROM, browse to \Drivers\Windows 2K-XP, and select Next.
 For example, \Drivers\Windows 2K-XP\ps\English.

A Plug (To PC) B Plug (To Printer)



6—Chapter 1.1

Local Connections

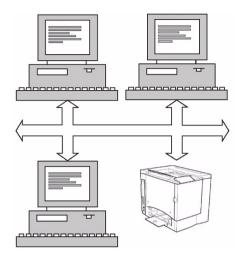
8 See Section 2 on page 17 to customize the driver settings of your printer's configuration.

Network Connections

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



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



Ethernet Interface



1 8				
Pin	Description			
1	Transmit Data(+)			
2	Transmit Data (-)			
3	Receive Data (+)			
4	Reserved			
5	Reserved			
6	Receive Data (-)			
7	Reserved			
8	Reserved			

The standard Ethernet interface is an RJ45 type of connector, capable of transmission speeds from 10 Mbit/s up to 100 Mbit/s.



The above illustration shows the receptacle of the Ethernet interface on the interface panel of the printer.

Making the TCP/IP Connection

1 Set the Internet address.

This setting must contain a unique IP address. Printers are shipped with a preset IP address. In most cases you may want to modify this address, so it doesn't conflict with any other IP address present in your network or in networks attached.



Your network system administrator should assign the IP address.



You need the printer's IP address when setting up the port on your workstation.

2 Set the subnet mask address.

The subnet mask allows you to limit access to your printer (for example. departmental divisions). The following table shows some examples.

Subnet Mask	User Access
000.000.000.000	No limitations (default)
255.255.255.xxx	Only users (PCs) having an IP address of 255.255.255.xxx have access to the printer (the last triplet of the address xxx, doesn't affect access and can be any value).

3 Set the router/gateway address.

If you have a router/gateway in your network and you allow users outside your network environment to print on your printer, you may need to enter the router/gateway's IP address here.

4 If needed, configure additional printer settings, and then reboot the printer.

Although the settings mentioned above are sufficient for normal operation, you might want to change other settings in the TCP/IP menu to accommodate your local requirements. When you are finished making changes, reboot your printer.



After all printer settings are performed, you must reboot your printer to make sure the changes take effect.

5 Connect your printer to the network.

Attach your printer to the network by plugging the network RJ45 connector into the RJ45 receptacle on the interface panel of your printer.

If you experience problems locating the printer on your network, see "Checking TCP/IP Connections" on page 28.

6 Install the Crown Print Monitor+. (See "Installing the Crown Print Monitor+" on page 118 for more information.)

What's a Print Monitor?

A print monitor is software that enables the connection between software applications and the network port on your PC. While some versions of Windows come with a print monitor, the Crown Print Monitor+ that came with your printer was designed specifically for your printer. It allows the transportation of print data using TCP/IP protocol for serverless printing.

7 Install the printer driver. (See Section 2 for more information.)



In a TCP/IP environment, you should install the Crown Print Monitor+ and the printer driver on each PC having network access to your printer.

8 Attach the driver to the port. (For more information refer to the Crown Print Monitor+ Administrator's Guide on the Software Utilities CD-ROM.)



Once the printer is connected, you can download additional utilities, such as ICC Profiles and Pantone tables for used with specialized color printing.

Installing the Printer's Firmware

When setting up the printer for the first time using the Software Utilities CD-ROM, you should download the printer's operating system software (firmware) from the CD-ROM to the printer. From time to time, firmware updates are created to enhance or expand printer performance. Check our website at printer.konicaminolta.net/support to find the most current version of your printer's firmware. If there's a newer version than the one on your CD, you can download it from the website and install it in your printer.

See "Your Printer's Operating System" on page 20 for information about when and how to manually install your printer's firmware.



Connecting to Macintosh Operating Systems

1.2

Introduction

This chapter describes the steps for connecting your printer to a Macintosh system, using USB, LPR, or an Ethernet connection. There are three steps for making the connection.

- 1 Install the printer support software
- 2 Create the desktop printer (Macintosh OS 9) or the Printer Queue (OS X), which includes
 - physically connecting the printer
 - configuring the Zone Name
- 3 Install the system software

See "Update Procedures for Macintosh Operating Systems" on page 26 for instructions on installing the printer's system software.



Once the printer is connected, you can download additional utilities, such as ICC Profiles and Pantone tables for use with specialized color printina.

Some Notes to Consider

- In the following sections, we assume that you are installing the software for the first time.
- The current version of Macintosh OS X has limited support for PPD (PostScript Printer Description) files. Although KONICA MINOLTA printers can be used with Macintosh OS X, not all advanced printing features are available. Advanced printing features are still available under Macintosh OS 9.
- You can connect to your printer using
 - A USB cable
 - A crossover Ethernet cable (when connecting the printer to a computer directly)
 - Ethernet patch cables and an Ethernet hub (when connecting the printer to multiple computers on a network)

Macintosh OS 9—PPDs and Utilities Installation

OS 9 Step 1. Software Installation

- a Insert the Software Utilities CD-ROM in your Macintosh's CD-ROM drive.
 - If this screen does not appear, double-click the KONICA MINOLTA CD-ROM icon on your Macintosh desktop.
- b Double-click the Install icon.
- c Follow the instructions on the screen to install the magicolor 2350 PPD and utilities.
- d After the PPD and utilities installation is complete, choose Quit.
- e When the system software installation is complete, remove the CD-ROM and store it in a safe place.

OS 9 Step 2. Creating a Desktop Printer

USB Connection

- **a** Plug one end of the USB cable into the Macintosh and the other into the printer's USB port.
- **b** Locate the Desktop Printer Utility.
 - If you cannot locate the Desktop Printer Utility on your Macintosh hard disk, it can be found on your Macintosh's system CD-ROM.
- c Double-click the Desktop Printer Utility icon to open the application. The first window prompts you to select the type of desktop printer you would like to create.
- d Select Printer (USB), and select OK.
- e Choose the Change button in the PostScript Printer Description section. In the resulting window, select the magicolor 2350 PPD, and choose Select.
- f Choose the Change button in the USB Printer Selection section. In the resulting window, select the magicolor 2350, and click OK.

EtherTalk Connection

- a You can connect via Ethernet in either of two ways:
 - Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.

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- Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.
- **b** Open the Chooser and select LaserWriter.
- c When your printer boots up, it finds a default zone. If your network has more than one zone and you want to use a different zone, use the Interface/Ethernet/Ethertalk/Name and Zone menus on the printer control panel to specify the new zone.



The Name and Zone menus allow you to identify 1 zone with a name up to 32 characters long. (Up to 16 characters can be entered in each of the two menus). You cannot use these two menus to identify two zones. Trailing spaces are not considered part of the zone name. All standard printable ASCII characters are valid except the @ and ' symbols. The names are case sensitive.

d Choose Create and then Set-Up.

LPR Connection

- a You can connect via Ethernet in either of two ways:
 - Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.
 - Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.
- **b** Locate the Desktop Printer Utility. If you cannot locate the Desktop Printer Utility on your Macintosh hard disk, it can be found on your Macintosh's system CD-ROM.
- c Select Printer (LPR), and select OK.
- **d** Enter the IP Address and use the same address for the Queue name. Click OK.
- e Choose Create.
- **f** Name the printer with the IP Address or a descriptive name.

OS 9 Step 3. System Software

See "Update Procedures for Macintosh Operating Systems" on page 26 for instructions on installing the printer's system software.

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Introduction

Macintosh OS X—PPDs and Utilities Installation

OS X Step 1. Software Installation—Automatic

a The Software Utilities CD-ROM has an automatic installer program. Simply insert the CD-ROM in your Macintosh's CD-ROM drive and follow the on-screen instructions.

If this screen does not appear, double-click the KONICA MINOLTA CD-ROM icon on your Macintosh desktop.

b Double-click the Install icon.



The installer uses the path Hard Disk Name/Library/Printers/ PPDs/Contents/Resources/ for PPDs and the path Hard Disk Name/Library/Fonts/ for fonts.

- c Follow the instructions on the screen to install the magicolor 2350 PPD and utilities.
- **d** After the PPD and utilities installation is complete, choose Quit.

OS X Alternate Step 1. Software Installation—Manual

Manual installation instructions are included in Chapter 2.6, "Installing Printer Software, Drivers and PPDs for Macintosh."

OS X Step 2. Creating a Printer Queue

a Connect the printer to the Macintosh using USB or Ethernet connections.

For USB, plug one end of the USB cable into the Macintosh and the other into the printer's USB port.

For Ethernet, you can connect in either of two ways:

- Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.
- Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.
- **b** Locate and double-click the Print Center utility to open it.
- c In the Printer List window, choose Add Printer.
- **d** In the resulting window, select from USB, AppleTalk, or LPR to match your printer connection.

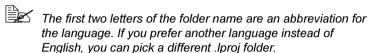
USB—The magicolor 2350 appears in the window.

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AppleTalk (for Ethernet connection)—Select the zone and scroll through printer choices. The magicolor 2350 appears in the choice list.

LPR—Enter the IP Address. If the "Use Default Queue on Server" box is checked, click it to unselect it. Type in the IP Address again for the Queue name.

- e Choose the Printer Model popup menu to select the magicolor 2350 PPD, and choose Other.
- f Browse to Library/Printers/PPDs/contents/Resources/en.lproj.



- g Select the magicolor 2350 PPD. Click Choose and then click Add. The Printer List opens.
- h Double-click on the printer you just created to open the Print Queue window.

OS X Step 3. System Software

See "Update Procedures for Macintosh Operating Systems" on page 26 for instructions on installing the printer's system software.





In Section 2...

Installing Printer Software, Drivers, & PPDs

- Chapter 2.1 Your Printer's Operating System
 Printer firmware download instructions.
- Chapter 2.2 Drivers and PPDs for Windows XP Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.3 Drivers and PPDs for Windows 2000
 Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.4 Drivers and PPDs for Windows Me & 98 Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.5 Drivers and PPDs for Windows NT Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.6 PPDs and Utilities for Macintosh Installation of the Mac PPD and utilities for your printer.
- Chapter 2.7 Linux Setup Printing from Linux.
- Chapter 2.8 UNIX Setup Printing from UNIX.
- Chapter 2.9 NetWare 5.x/6 Setup
 NDS setup using NetWare Admin.

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Your Printer's Operating System

Your Printer's Operating System

Your printer's Operating System software resides inside the printer and is referred to as printer firmware. The firmware is stored in flash ROM.

Updating new firmware is performed via one of the printer's interfaces. When the firmware is downloaded to the printer, the printer recognizes the nature of the code and replaces the older firmware with the new one that is downloaded. After downloading, the printer restarts with the new firmware resident and active

What's Flash ROM?

Flash ROM is nonvolatile memory. When the power is switched off, this kind of memory holds the data previously stored.

Firmware Updates

The Software Utilities CD-ROM contains the latest printer firmware available when the CD-ROM was made. During first-time printer setup you should install the firmware included on the CD-ROM.

From time to time, firmware updates are created to enhance or expand printer performance. Check our website at printer.konicaminolta.net/support to find the most current version of your printer firmware. If there's a newer version than the one on your CD, you can download it from the website.

When to Upgrade/Upgrade Verification

To determine if the printer's firmware needs to be updated, turn on the printer and note the version number of the System Release printed under Printer Information on the Startup Page. If the version number is equal to or higher than the version that you're considering for download, you do not need to update the printer's firmware.



You should install the firmware file on the Software Utilities CD-ROM during first-time printer setup, or download and install a newer version of the firmware file from our website (printer.konicaminolta.net/ support) if it is available.



Your printer's current firmware version can also be viewed in the Printer Information section of the Configuration page displayed in PageScope Light.



The printer firmware on our website is identified by version number.

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Your Printer's Operating System



Downloading Firmware from the Internet

Our website (printer.konicaminolta.net/support) contains the latest firmware file for your printer. To download your printer's firmware, follow the instructions below.

 $oldsymbol{1}$ Using your Internet Browser, go to the Support page for your printer and choose **Printer Specific Firmware**. Then click on the download link to begin downloading the firmware file.

- Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, continue with the installation steps described in the following sections.



Printer Firmware Updating Procedures

This section contains procedures for updating printer firmware from a PC using any of the Windows Operating Systems, and from a Macintosh using OS 9 x or OS X



The procedures in many of the following sections require the IP Address of the printer. The IP Address also appears on the Startup Page under Printer Interfaces and in the Printer Interfaces section of the Configuration page displayed in PageScope Light.

Update Procedures for Windows Operating **Systems**



See "When to Upgrade/Upgrade Verification" on page 2-20. to determine if your printer needs to be updated before performing any of the procedures described in this section.

The following instructions step you through the procedures for updating the firmware for your printer from a PC. These procedures are valid for all Microsoft Windows Operating Systems.

Printer Firmware Updating **Procedures**

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The procedures described in this section describe updating the printer

- via a parallel connection using DOS commands
- via TCP/IP using FTP
- via TCP/IP using the File Print option in PageScope Light

If your printer is connected to your PC via a parallel connection, use the first procedure listed above. If the printer is connected via TCP/IP, you can choose from either of the two remaining procedures to update the printer.

Updating the Printer via a Parallel Connection

The following steps describe how to update the firmware on your KONICA MINOLTA printer using a parallel connection from a PC.

- 1 Make sure the printer is on, idle, and connected to the PC via a parallel cable.
- 2 If the firmware file that you are downloading is on the Software Utilities CD-ROM, insert the CD-ROM in the CD-ROM drive of your PC.
- 3 From the Start button menu, select Run, and then at the prompt, type command
- 4 Select OK.
- 5 From the command line, type

x: [Enter]

where x is the drive letter of the drive containing the new firmware file.

6 If necessary, change the current directory to the directory where the firmware file is located. For example, type

cd y [Enter]

where y is the directory name that identifies where the firmware file is located. When you are finished, the DOS prompt should display the firmware file's complete directory path.



The firmware file on the Software Utilities CD-ROM is located in the Utilities\System code directory.

7 Copy the update file to the parallel port by typing

```
copy /b sys z.ps lpt1: [Enter]
```

where the first part of the file name (sys z) will vary to identify the version of firmware the file contains (.ps is always the file name extension).

After pressing Enter, the download of the update file starts. One of the following occurs:

- The printer reboots and a Startup Page is printed. Continue with step 10.
- An error page is printed. This occurs if your printer's firmware version is later than the version that you attempted to download. You do not need to upgrade the printer's firmware. Skip step 10.
- 8 Inspect the Startup Page to ensure the firmware has been upgraded. See "When to Upgrade/Upgrade Verification" on page 20 for upgrade verification instructions.
- 9 If you were installing the firmware file from the Software Utilities CD-ROM, remove the CD-ROM and store it in a safe place.

Updating the Printer via TCP/IP using FTP

The following steps describe how to update the firmware on your KONICA MINOLTA printer connected via TCP/IP using FTP.



See "Checking TCP/IP Connections" on page 28 if you experience problems when attempting to perform this procedure.

- 1 Identify the IP Address of the printer you want to update.
 - The IP Address appears on the Startup Page under Printer Interfaces, and also displays in the printer's Interface Menu/Ethernet/TCPIP/IP-Address menu.
- 2 If the firmware file that you are downloading is on Software Utilities CD-ROM, insert the CD-ROM in the CD-ROM drive of your PC.
- 3 From the Start button menu, select Run, and then at the prompt, type

command

4 Select OK

Printer Firmware Updating **Procedures**

Chapter 2.1—23

5 From the command line, type

```
x: [Enter]
```

where x is the drive letter of the drive containing the new firmware file.

6 If necessary, change the current directory to the directory where the firmware file is located. For example, type

```
cd y [Enter]
```

where y is the directory name that identifies where the firmware file is located. When you are finished, the DOS prompt should display the firmware file's complete directory path.



The firmware file on the Software Utilities CD-ROM is located in the Utilities/System code directory.

Open an ftp session to the printer and put the update file. For example, from the command line type

```
ftp xxx.xxx.xxx [Enter]
[Enter]
bin [Enter]
put sys z.ps [Enter]
```

where xxx.xxx.xxx.xxx is the IP address:

where the first part of the file name (sys z) will vary to identify the version of firmware the file contains (.ps is always the file name extension).

After pressing Enter, the download of the update file starts. One of the following occurs:

- The printer reboots and a Startup Page is printed. Continue with step 8.
- An error page is printed. This occurs if your printer's firmware version. is later than the version that you attempted to download. You do not need to upgrade the printer's firmware. Complete step 8 and skip remaining steps.
- 7 At the command prompt type

```
quit [Enter]
```

- 8 Inspect the Startup Page to ensure the firmware has been upgraded. See "When to Upgrade/Upgrade Verification" on page 2-20. for upgrade verification instructions.
- 9 If you were installing the firmware file from the Software Utilities CD-ROM, remove the CD-ROM and store it in a safe place.

Updating the Printer via TCP/IP using PageScope Light's File Print Option

The following steps describe how to update the firmware on your KONICA MINOLTA printer using the file printing feature from the printer's webpage. These steps are valid for all supported web browsers.



See "Checking TCP/IP Connections" on page 2-28. if you experience problems when attempting to perform this procedure.

- 1 Identify the IP Address of the printer you want to update.
 - The IP Address appears on the Startup Page under Printer Interfaces. and also displays in the Interface Menu/Ethernet/TCPIP/IP Address menu of the printer.
- 2 If the firmware file that you are downloading is on the Software Utilities CD-ROM, insert the CD-ROM in the CD-ROM drive of your PC.
- 3 From your web browser application, type the printer's IP Address in the URL Address Bar, and then press Enter.

The printer's web page opens.

- 4 Select the **Print Jobs** button at the top of the page.
- 5 Select Direct Printing from the options displayed in the left panel of the page.
- 6 From the Direct Printing section, select **Browse** and locate the new firmware file.

where the first part of the file name (sys z) will vary to identify the version of firmware the file contains (.ps is always the file name extension).



The firmware file on the Software Utilities CD-ROM is located in the Utilities/System code directory.

Click on the firmware file to select it, and then select **OK**.

Printer Firmware Updating **Procedures**

Chapter 2.1—25

8 Select Submit.

After selecting Submit, the download of the file starts. One of the following occurs:

- The printer reboots and a Startup Page is printed. Continue with step 9.
- An error page is printed. This occurs if your printer's firmware version is later than the version that you attempted to download. You do not need to upgrade the printer's firmware. Skip step 9.
- 9 Inspect the Startup Page to ensure the firmware has been upgraded. See "When to Upgrade/Upgrade Verification" on page 2-20. for upgrade verification instructions.
- 10 If you were installing the firmware file from the Software Utilities CD-ROM, remove the CD-ROM and store it in a safe place.

Update Procedures for Macintosh Operating Systems



See "When to Upgrade/Upgrade Verification" on page 2-20. to determine if your printer needs to be updated before performing any of the procedures described in this section.

The following instructions step you through the procedures for updating the firmware for your printer from a Macintosh. These procedures are valid for the Operating Systems identified at the beginning of each procedure.

Updating the Printer via TCP/IP on a Macintosh using OS 9.x

The following steps describe how to update the firmware on your KONICA MINOLTA printer connected via TCP/IP.



See "Checking TCP/IP Connections" on page 2-28. if you experience problems when attempting to perform this procedure.

- 1 Make sure your printer is on and connected to your network.
- 2 If the firmware file that you are downloading is on the Software Utilities CD-ROM, insert the CD-ROM in the CD-ROM drive of your computer.
- 3 If you have not already done so, create a desktop printer using the instructions in "OS 9 Step 2. Creating a Desktop Printer" on page 13.

4 From the CD-ROM, open the the Resources and then the System_Code folders, or locate the update file you downloaded. The update file is named

where the first part of the file name (sys z) will vary to identify the version of firmware the file contains (.ps is always the file name extension).

- 5 Drag the update file from the folder and drop it on the desktop printer. After dropping the file on the printer, the download of the update file starts. One of the following occurs:
 - The printer reboots and a Startup Page is printed. Continue with step 6.
 - An error page is printed. This occurs if your printer's firmware version is later than the version that you attempted to download. You do not need to upgrade the printer's firmware. Skip step 6.
- 6 Inspect the Startup Page to ensure the firmware has been upgraded. See "When to Upgrade/Upgrade Verification" on page 2-20. for upgrade verification instructions.
- 7 If you were using the *Software Utilities* CD-ROM, remove the CD-ROM and store it in a safe place.

Updating the Printer via TCP/IP on a Macintosh using OS X

The following steps describe how to update the firmware on your KONICA MINOLTA printer connected via TCP/IP.



See "Checking TCP/IP Connections" on page 2-28. if you experience problems when attempting to perform this procedure.

- 1 Make sure your printer is on and connected to your network.
- 2 Double-click on the printer to open the print queue window.

If you haven't already created a Printer Queue, see "OS X Step 2. Creating a Printer Queue" on page 15 for instructions.

- 3 If the firmware file that you are downloading is on the Software Utilities CD-ROM, insert the CD-ROM in the CD-ROM drive of your PC.
- 4 From the CD-ROM, open the Resources and then the System_Code folders, or locate the update file you downloaded. The update file is named

sys_z.ps

where the first part of the file name (sys_z) will vary to identify the version of firmware the file contains (.ps is always the file name extension).

5 Drag and drop the update file in the print queue window you opened in step 2.

After dropping the file in the print queue window, the download of the update file starts. One of the following occurs:

- The printer reboots and a Startup Page is printed. Continue with step 6.
- An error page is printed. This occurs if your printer's firmware version is later than the version that you attempted to download. You do not need to upgrade the printer's firmware. Skip step 6.
- 6 Inspect the Startup Page to ensure the firmware has been upgraded.

 See "When to Upgrade/Upgrade Verification" on page 2-20. for upgrade verification instructions.
- 7 If you were using the *Software Utilities* CD-ROM, remove the CD-ROM and store it in a safe place.

Checking TCP/IP Connections

If you experience problems downloading the firmware update files to your printer over a TCP/IP connection, verify that the communication to the printer is working properly by "pinging" the printer.

- 1 From the Start button menu, select Run, and then at the prompt, type command
- 2 Select OK.
- From the command line, type ping xxx.xxx.xxx

Why Ping?

The Ping command sends a small packet of information to the IP Address and waits for a return packet. If the connections and addresses are good, a packet of information is returned to the sending workstation.



where xxx.xxx.xxx.xxx is the IP address. For example, ping $161.33.128.5 \leftarrow J$

If the printer connection is working correctly, your screen displays printer information similar to the following:

```
Auto

Microsoft<R> Windows 98

<C>Copyright Microsoft Corp 1981-1998

C:\WINDOWS>ping 161.33.128.5

Pinging 161.33.128.5 with 32 bytes of data:

Reply from 161.33.128.5: bytes=32 time=2ms TTL=15

Ping statistics for 161.33.128.5:

Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,

Approximate round trip times in milliseconds:

Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\WINDOWS>
```

If your screen displays information similar to the following, you may have bad network cabling or connectors attached to the printer.

```
Auto

Auto

Microsoft<R> Windows 98

<C>Copyright Microsoft Corp 1981-1998

C:\WINDOWS>ping 161.33.128.5

Pinging 161.33.128.5 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 161.33.128.5:

Packets: Sent = 4, Received = 0, Lost = 4 <100% loss>,

Approximate round trip times in milliseconds:

Minimum = Oms, Maximum = Oms, Average = Oms

C:\WINDOWS>
```

Incorrect IP Addresses can cause errors similar to ones shown below:

```
Auto

CC>Copyright Microsoft Corp 1981-1998

C:\WINDOWS>ping 161.33.128.5

Pinging 161.33.128.5 with 32 bytes of data:

Reply from 161.33.128.5: Destination host unreachable.

Ping statistics for 161.33.128.5:

Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,

Approximate round trip times in milliseconds:

Minimum = Oms, Maximum = Oms, Average = Oms

C:\WINDOWS>
```

4 If error messages or "time-out" messages appear, check your network connections and the printer's IP Address, and then try again.



Printer Driver on Windows XP



KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the *Software Utilities* CD-ROM and from our website at <u>printer.konicaminolta.net/support</u>. This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click

on the setup.exe file in the root directory to start the Installer application. After driver installation is complete, remove the Software Utilities CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See "Manually Installing the KONICA MINOLTA PostScript Driver on Windows XP" on page 33 for instructions.

Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don't stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer's Support page on our website at printer.konicaminolta.net/ support.



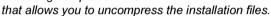
Downloading a Printer Driver from the Internet

Our website (<u>printer.konicaminolta.net/support</u>) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs and Utilities listing.

- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Double-click on the .exe file that was downloaded.

The exe is a selfextracting compressed file



5 After the files are uncompressed, close the extract utility, and then continue with the installation steps described in the next section, beginning with step 2.



Manually Installing the KONICA MINOLTA PostScript Driver on Windows XP

The following assumes that you are installing the KONICA MINOLTA Post-Script Driver for Windows XP for the first time.

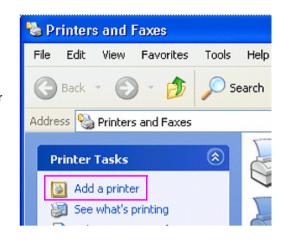
Installing the PostScript Printer Driver

You would use similar steps to install the PCL driver.

1 If the driver you are installing is on the Software Utilities CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

If the CD-ROM installation application starts, close the application before continuina.

- 2 From the Start menu, choose Printers and Faxes.
- 3 Select Add a printer from the Printer Tasks menu. The Add Printer Wizard starts, Follow the on-screen instructions.
- 4 Select local printer (vou are attaching to a port, not to a printer attached to a server). Then select Next.





5 Choose the appropriate printer port.

> For a local (parallel) connection, select LPTx:.



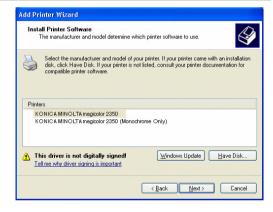
6 Select Have Disk and enter or browse to the location of the driver (see the following table), select the .inf file, select Open, and then select OK.

Driver to be installed:	Browse to
Driver on CD-ROM	③:\drivers\windows 2K-XP\ps\ (where ③ is the letter of your CD-ROM drive)
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 32.

Choose your printer. Then select Next



In some network settings it may be desirable to limit the number of users that can print in color. Selecting magicolor 2350 Mono installs the printer without color printing options.



8 This screen allows you to rename the printer for your convenience and to set the printer as default printer. Select Next.



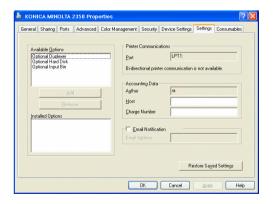
9 Select Do not share this printer. Select Next twice, and then select Finish.

> The Add Printer Wizard closes.



Customizing Driver Settings

- 1 From the Start menu, choose **Printers and Faxes**, and locate the (new) printer icon.
- 2 Click on the printer icon with the right mouse button and choose Properties.
- 3 Select Settings.

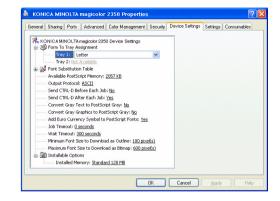


4 In this window you may choose certain "options" available on your printer. To add an available option to the installed options list, select the option and then click Add. After making selections, select OK.



If your printer connection uses bi-directional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

- 5 Select Device Settinas. In this window you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).
- 6 Finish customizing the settings, and then select OK.





For additional printer driver information, refer to the printer driver's online help.



You may continue installing other utilities available on the Software Utilities CD-ROM.



Printer Driver on Windows 2000

Installing the 1

KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from our website at printer.konicaminolta.net/support. This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The Software Utilities CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click

on the setup.exe file in the root directory to start the Installer application. After driver installation is complete, remove the Software Utilities CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See "Manually Installing the KONICA MINOLTA PostScript Driver for Windows 2000" on page 41 for instructions.



Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don't stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer's Support page on our website at printer.konicaminolta.net/support.



Downloading a Printer Driver from the Internet

Our website (printer.konicaminolta.net/support) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers. PPDs and Utilities listing.

Section EDNord - Istedgade 37A - 200 Aalborg - telefon 96333500

- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Double-click on the .exe file that was downloaded.

The exe is a selfextracting compressed file

that allows you to uncompress the installation files.



You have chosen to download a file from this location

5 After the files are uncompressed, close the extract utility, and then continue with the installation steps described in the next section, beginning with step 2.

Manually Installing the KONICA MINOLTA PostScript Driver for Windows 2000

The following assumes that you are installing the KONICA MINOLTA PostScript Driver for Windows 2000 for the first time.

Installing the PostScript Printer Driver

You would use similar steps to install the PCL driver.

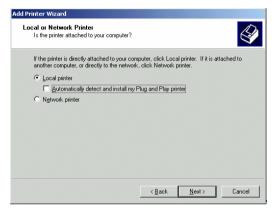
1 If the driver you are installing is on the Software Utilities CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

If the CD-ROM installation application starts, close the application before continuina.

- 2 From the Start menu, choose Settings/ Printers.
- 3 Double-click on the Add Printer icon (Windows 2000). The Add Printer Wizard starts. Follow the on-screen instructions.



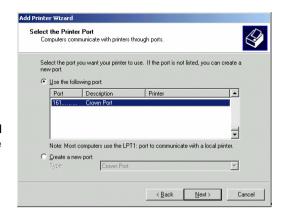
4 Select local printer (you are attaching to a port, not to a printer attached to a server). Then select Next.



5 Choose the appropriate printer port.

> For a local (parallel) connection, select LPTx:

6 Select Have Disk and enter or browse to the location of the driver (see the following table), select the .inf file, select Open, and then select OK.

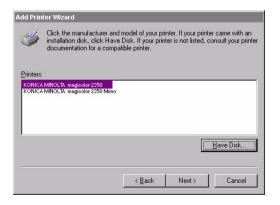


Driver to be installed:	Browse to
Driver on CD-ROM	④:\drivers\windows 2K-XP\ps\ (where④ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 40.

Choose your printer. Then select Next.

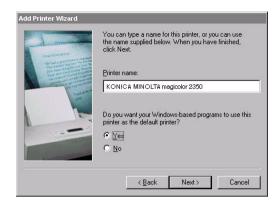


In some network settings it may be desirable to limit the number of users that can print in color. Selecting magicolor 2350 Mono installs the



printer without color printing options.

8 This screen allows you to rename the printer for your convenience and to set the printer as default printer. Select Next.



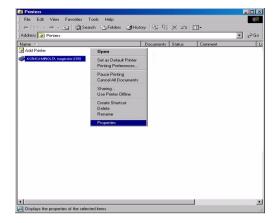
9 Select Do not share this printer. Select Next twice, and then select Finish.

> The Add Printer Wizard closes.

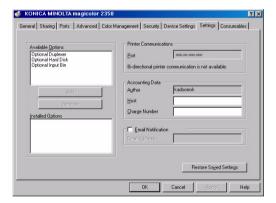


Customizing Driver Settings

- 1 From the Start menu, choose Settings/ Printers, and locate the (new) printer icon.
- 2 Right-click on the printer icon and choose Properties.



3 Select Settings.





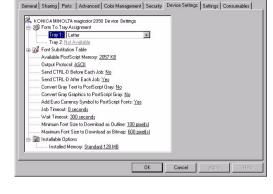
If your printer connection uses bi-directional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

4 In this window you may choose certain "options" available on your printer. To add an available option to the installed options list, select the option and then click Add. After making selections, select OK.

- 5 Select Device Settinas. In this window you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).
- 6 Finish customizing the settings, and then select OK.



For additional printer driver information. refer to the printer driver's online help.



You may continue installing other utilities available on the Software Utilities CD-ROM.

MENDETA MINOLTA magicolor 2350



Installing the Printer Driver on Windows Me & 98



KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from our website at printer.konicaminolta.net/support. This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The Software Utilities CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click

on the setup.exe file in the root directory to start the Installer application.

After driver installation is complete, remove the Software Utilities CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See "Manually Installing the KONICA MINOLTA PostScript Driver for Windows Me & 98" on page 49 for instructions.



Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don't stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer's Support page on our website at printer.konicaminolta.net/support.



Downloading a Printer Driver from the Internet

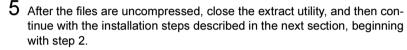
Our website (printer.konicaminolta.net/support) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs and Utilities listing.

- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Double-click on the .exe file that was downloaded.

The exe is a selfextracting compressed file

that allows you to uncompress the installation files.





The following assumes that you are installing the KONICA MINOLTA PostScript Driver for Windows XP for the first time.

Installing the PostScript Printer Driver

You would use similar steps to install the PCL driver.

1 If the driver you are installing is on the Software Utilities CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

If the CD-ROM installation application starts, close the application before continuing.

- 2 From the Start menu, choose Settings/Printers.
- 3 Double-click on the Add Printer icon.

The Add Printer Wizard starts.



You have chosen to download a file from this location

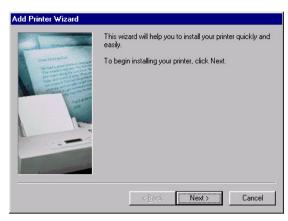
What would you like to do with this file?

Save this program to disk.

C Run this program from its current location

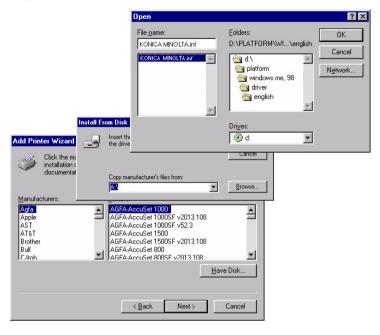
Always ask before opening this type of file

4 Select Next.



 $\ \, 5\ \, \text{Select Local Printer, and then select } \, \textbf{Next}.$

6 Select Have Disk and browse to the location of the driver you are installing.



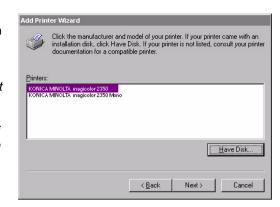
Driver to be installed:	Browse to
Driver on CD-ROM	②:\drivers\windows Me, 9x\ps\ (where ③ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 48.

7 Select **OK** twice.

8 Choose your printer from the list, and then select Next



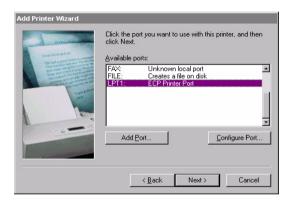
In some network settings it may be desirable to limit the number of users that can print in color. Selecting magicolor 2350 Mono



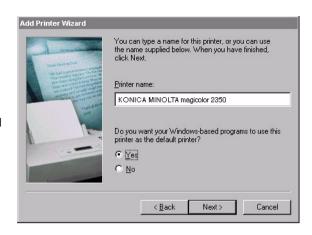
installs the printer without color printing options.

9 Choose the appropriate printer port, and then select Next.

> For a local (parallel) connection, select LPTx:.

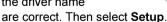


10 This screen allows you to rename the printer for your convenience. Select Next and then Finish. The Add Printer Wizard closes.



Customizing Driver Settings

- 1 From the Start menu, choose Settings/ **Printers** and locate the (new) printer icon.
- 2 Right-click on the printer icon.
- 3 Choose Properties. In the Properties Window, select **Details**. Verify that the port and the driver name



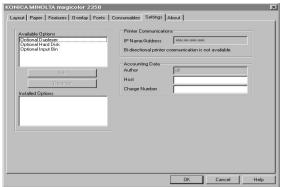
4 Choose the Settings tab.



If your printer connection uses bi-directional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.



5 In this window you may choose certain "options" available on your printer. To add an available option to the installed options list, select the option and then click Add. After making selections, select OK



6 Choose the Paper tab. From this tab.

you should set the defaults that are not print job dependent such as Paper Size, Source, and Media Type.



For additional printer driver information, see the printer driver's online help.

7 Finish the settings and select **OK**.



You may continue installing other utilities available on the Software Utilities CD-ROM.



Printer Driver on Windows NT4



KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from our website at printer.konicaminolta.net/support. This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



To use the KONICA MINOLTA PostScript printer driver, SNMP must be running and you must have Windows NT4 Service Pack 6 installed.



Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don't stop when you purchase our product. We make every effort to bring you the very best, and as a result. occasionally update the printer driver software. For the latest printer driver, check your printer's Support page on our website at printer.konicaminolta.net/support.



Downloading a Printer Driver from the Internet

Our website (printer.konicaminolta.net/support) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs and Utilities listing.

- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Nouble-click on the .exe file that was downloaded.

The .exe is a selfextracting compressed file

that allows you to uncompress the installation files.

5 After the files are uncompressed, close the extract utility, and then continue with the installation steps described in the next section, beginning with step 2.



Manually Installing the KONICA MINOLTA PostScript Driver on Windows NT4



Review the information in the driver's readme.txt file for driver availability notes and special instructions on driver installation and use.

The following assumes that you are installing the KONICA MINOLTA Post-Script Driver for Windows XP for the first time.

Installing the PostScript Printer Driver



You would use similar steps to install the PCL driver.

Section

1 If the driver you are installing is on the Software Utilities CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

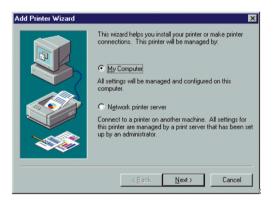
If the CD-ROM installation application starts, close the application before continuina.

2 From the Start menu, choose Settings/Printers.

> Double-click on the Add Printer icon. The Add Printer Wizard starts.

3 Select My Computer, and then select Next.

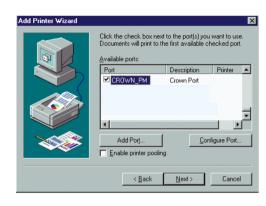


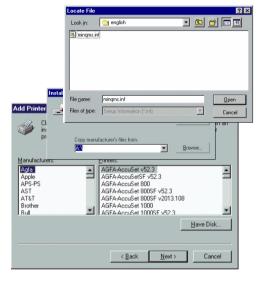


4 Choose the appropriate printer port, and then select Next.

> For a local (parallel) connection, select LPTx:.

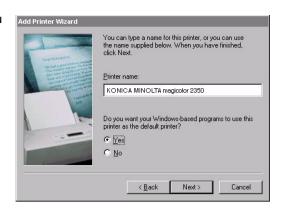
5 Select Have Disk, browse to the location of the driver you are installing (see the following table), select the .inf file. select Open, and then select Next.





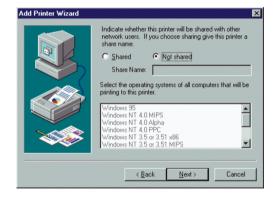
Driver to be installed:	Browse to
Driver on CD-ROM	③:\drivers\windows nt4\ps (where ॐ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 56.

6 This screen allows you to rename the printer for your convenience and to set the printer as the default printer. Select Next.



7 Select Shared or Not Shared. (If you select Shared, enter the share name). Select Next, and then select Finish.

> The Add Printer Wizard closes.



Customizing Driver Settings



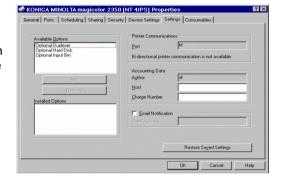
To use the KONICA MINOLTA PostScript printer driver, SNMP must be running and you must have Windows NT4 Service Pack 6 installed.

- 1 From the Start menu, choose **Settings/Printers** and locate the (new) printer icon.
- 2 Right-click on the icon and choose Properties.
- 3 Choose the Settings tab.



If your printer connection uses bi-directional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

4 In this tab you may choose certain "options" available on your printer. To add an available option to the installed options list. select the option and then click Add. After making selections. select OK.



General Ports | Scheduling | Sharing | Security | Device Settings | Settings | Consumables |

KONICAMINOLTA magicolor 2350 [NT 4/PS] Device Settings - Porm To Tray Assignment

Tray 1: <Letter>

Available PostScript Mem

Butnut Protocol (ASCII) Send CTRL-D Before Each Job: < No.

Send CTRL-D After Each Job: (Yes: Job Timeout: <0 seconds> Wait Timeout: (300 seconds

> Government Legal Government Letter Japanese Postcard

5 Select the Device Settings tab.

> In this tab you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).

6 Finish customizing the settings and select OK.



For additional printer driver

information, refer to the printer driver's online help.



You may continue installing other utilities available on the Software Utilities CD-ROM.



PPDs and Utilities for Macintosh

Introduction

This chapter describes how to install the PostScript Printer Description (PPD) files and utilities needed to take advantage of all of your printer's features. The PPD works with the Macintosh Operating System's PostScript printer driver (LaserWriter) to provide support for the features on the magicolor 2350, such as print resolution and media sizes, and optional features such as duplexing and proof-then-print.

Installing PPD Files



Installing from the CD-ROM

The Software Utilities CD-ROM has an automatic PPD files installer program. Simply insert the CD-ROM and follow the on-screen instructions for PPD files.

The Installer application automatically runs on most Macintoshes.

1 Insert the Software Utilities CD-ROM in your Macintosh's CD-ROM drive.

If necessary, double-click the CD-ROM icon on your Macintosh desktop.

- 2 Double-click the **Install** icon.
- 3 Follow the instructions on the screen to install the magicolor 2350 PPD and utilities.
- 4 After the PPD and utilities installation is complete, choose **Quit**.
- When the system software installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

Manually Installing the Macintosh PPD

You also have the option to manually install the PPD located on the CD-ROM.

Insert the Software Utilities CD-ROM.



PPDs are also available on our website at printer.konicaminolta.net/support.

- 2 Double-click the CD-ROM icon when it appears on the desktop.
- ${f 3}$ Read the Program License Agreement, and then select Agree to continue the installation.

If the license agreement does not appear when you double-click the CD-ROM icon, then double-click the Install icon and the screen appears.

- 4 Click the Install Software button.
- 5 From the Install Location drop-down list box, choose the disk where you want to install the software



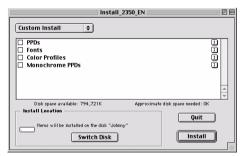
To change the install location. use the drop-down list box to display and choose the appropriate disk.

6 Choose Easy Install or Custom Install.

> Custom Install allows you to choose which printer files are installed during installation.

Select Install.





8 When the installation is complete, select Quit.



- 9 Remove the Software Utilities CD-ROM from your CD-ROM drive and store it in a safe place.
- 10 Customize the printer description (PPD) as described in the next section.

Customizing the Printer Description

- Open the Chooser (under the Apple icon in the desktop menu bar).
- 2 Select the LaserWriter printer driver.

The chooser searches for available printers.

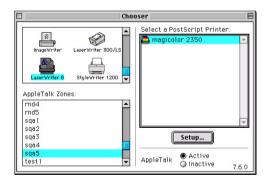
3 From the Select a PostScript Printer list, select your printer and then select Create.



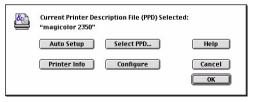
If your network has more than one zone, select the zone that your printer is configured for. (If it hasn't been configured yet, it's the zone to which your printer is physically connected. Refer to "Connecting to Macintosh Operating Systems" on page 11 for more instructions.) Then select your printer from the Select a PostScript Printer list, and finally select Create.

Message boxes indicating the set up progress appear and close. When you are returned to the Chooser window, the Create button is replaced by the Setup button.

4 Select Setup.



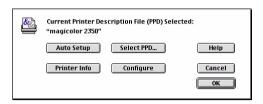
5 In the setup window, select Select PPD.



6 From the folder System Folder/ Extensions/Printer Descriptions, select the PPD file installed for your printer, and then select **Select**.

Your Macintosh makes a "connection" between the selected PPD file and vour printer.

7 In the setup window, select Configure.



8 Configure the settings by choosing from the options available in the drop-down list boxes. Use the scroll buttons to view the full list of optional settings for your printer.



9 When you are finished customizing the PPD,

select OK. and then close the Chooser.

KONICA MINOLTA PPDs for Macintosh

This section describes the additional printer configuration items that are available from your application's print dialog.



The following illustrations and options are present on Macintosh System 9 OS (Operating System) using Word. Variations may occur on different versions of the Macintosh OS and on different programs. Refer to your Macintosh documentation for a description of the differences between OS versions.

Overview

1 While using the application that you want to print from, choose Print. The print dialog appears.



Make sure your printer is selected from the Printer drop-down list, and that Printer is selected in the Destination list at the top of the dialoa.

KONICA MINOLTA PPDs for Macintosh

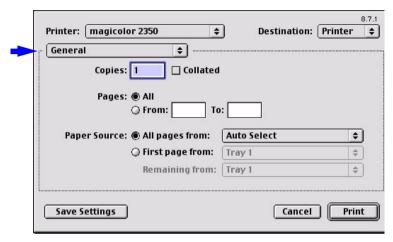
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2 Choose the options and settings that you want for the print job and then select Print.

The print job is printed.

The following sections describe the configuration items available from the print dialog.

General Dialog



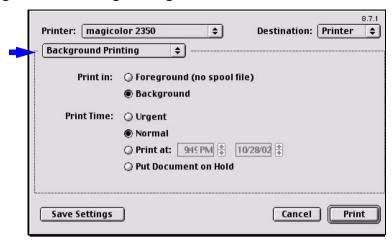
Item	Description
Copies	Allows you to specify how many copies of the print job you want printed.
Collated	If this item is selected, your print job is collated (one complete copy of the document is printed before the next copy is printed). Left unselected, the printing is uncollated.
Pages	Select All to print all pages in the open document. To print a specific range of pages, select From, and then enter the beginning page number in the From text box and the ending page number in the To text box.
Paper Source	Allows you to select the tray that the printer uses for the print job and to choose a different tray for the first page of the document, if you have more than one tray installed.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.

Item	Description
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Application-Specific Dialog

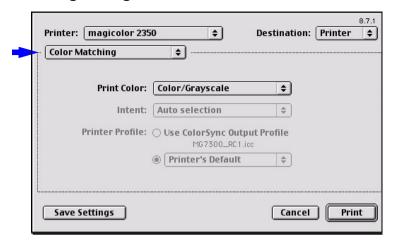
Many applications insert printer configuration choices that are commonly used with their programs. The content of these dialogs vary from application to application.

Background Printing Dialog



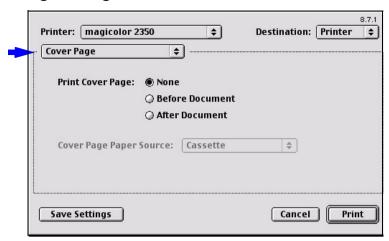
Item	Description
Print In	Allows you to choose between printing in foreground and printing in background. Printing in background creates a spool file that is temporarily saved on you computer until the print job is ready to be processed. This allows you to continue working in your applications while the print job is processing. If you don't have enough free file space on your computer to process a spool file, select Foreground printing.
Print Time	Allows you to assign a priority status to the print job and specify a particular time that the print job should be printed.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Color Matching Dialog



Item	Description		
Print Color	Allows you to choose from the color configurations available. Black and White Grayscale Color/Grayscale Color/Sync Color Matching PostScript Color Matching		
Intent	Allows you to specify the color matching configuration or allow for automatic configuration. This item is disabled (grayed out) unless ColorSync Color Matching or PostScript Color Matching is the selected Print Color setting.		
Printer Profile	Allows you to select from the printer profiles that are available.		
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.		
Cancel	Closes the print dialog without printing and without saving configuration changes.		
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.		

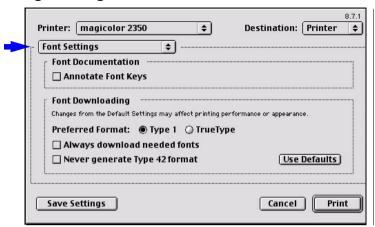
Cover Page Dialog



Item	Description	
Print Cover Page	Lets you choose whether to print a cover page, and specify the placement of the cover page in relation to the remaining pages of the print job.	
Cover Page Paper Source	Allows you to select the paper tray containing the cover page media. The Cover Page contains information about the print job such as: user name, application, document name, date, time, printer, and number of pages. This option is disabled (grayed out) if Print Cover Page is set to None.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

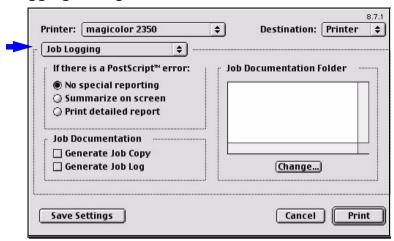
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Font Settings Dialog



Item	Description		
Font Documentation	Allows you to determine if the font keys are annotated. When selected, the print job contains additional information about the font translated by the driver. This option should only be checked by advanced users for the purpose of debugging complex print jobs.		
Font Downloading	Allows you to select the preferred font format and to specify if fonts should always be downloaded to the printer or if Type 42 formats should be generated.		
	Printer fonts are not used if Always Download Needed Fonts is selected.		
Use Defaults	Restores factory default settings for font downloading.		
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.		
Cancel	Closes the print dialog without printing and without saving configuration changes.		
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.		

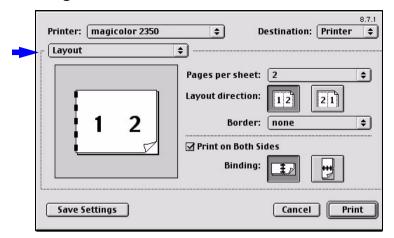
Job Logging Dialog



Item	Description	
If there is a PostScript error	Allows you to specify what should occur following a PostScript error.	
Job Documentation	Allows you to choose between generating a job copy in the folder specified as the Job Documentation Folder, and generating a job font log following the completion of the print job.	
Job Documentation Folder	Allows you to select the location of the Job Documentation Folder. The folder selected holds a copy of the print jobs or job information of print jobs that are configured for job documentation. Use the Change button to browse to and select a different folder.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

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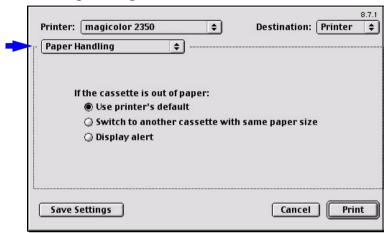
Layout Dialog



Item	Description	
Pages Per Sheet	Allows you to set the number of logical pages per physical sheet.	
Layout Direction	Lets you identify either left-right or right-left logical page direction on the physical sheet.	
Border	Allows you to select a border to surround each logical page.	
Print on Both Sides	Allows you to configure the print job for duplex printing.	
	This setting is disabled (grayed out) unless an optional duplex unit is installed and identified in the PPD configuration. See "Customizing the Printer Description" on page 64 for additional information.	
Binding	Determines the orientation of the logical pages on the physical sheet so the printed media is oriented for binding on the short edge or long edge of the media.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	

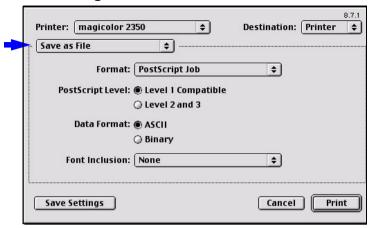
Item	Description
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Paper Handling Dialog



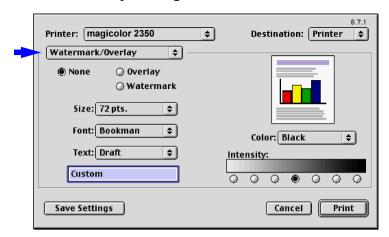
Item	Description	
If the Cassette is Out of Paper	Allows you to configure the printer's automatic response when the media tray is out of paper.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

Save as File Dialog



Item	Description	
Format	Select the file format of the output file. V PostScript Job EPS Mac Standard Preview EPS Mac Enhanced Preview EPS No Preview Acrobat PDF	
PostScript Level	Allows you to select from available PostScript levels.	
Data Format	Sends the print job data to the file in either ASCII or Binary format.	
Font Inclusion	Allows you to choose the fonts that are included with the print job as it is saved to a file.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

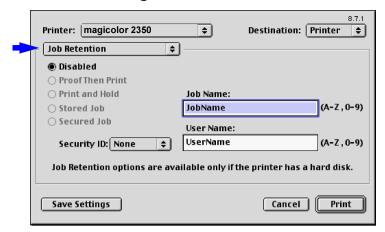
Watermark/Overlay Dialog



Item	Description	
None, Overlay, Watermark	Allows you to determine if an overlay or a watermark is to be printed on the document pages.	
Size	Specifies the font size of the overlay or watermark.	
Font	Specifies the font to be used for the overlay or watermark.	
Text	Allows you to choose from common overlays and watermarks, or to configure custom text that you enter in the text box provided.	
Text Color/ Density	Allows you to choose the overlay or watermark text color and the density of the printed text.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

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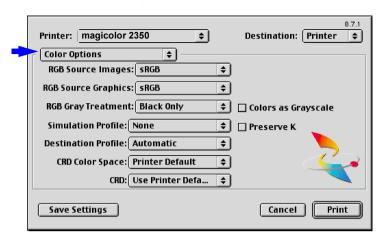
Job Retention Dialog



Item	Description
Disabled	Selecting this button disables, or turns off, the job retention options.
Proof Then Print	This option prints one copy of a multi-copy print job and holds the remaining copies in the printer's hard disk. After proofing the printed copy, you can select to print the remaining copies or delete the print job from the printer's control panel.
Print and Hold	Allows you to set up a multicopy print job that prints all copies of the print job, and then hold the print job in the printer's hard disk for printing additional copies.
Stored Job	Allows you to save a print job in the printer's hard disk indefinitely. After the print job is saved to the printer's hard disk, you can print the job using the Proof/Print menu at the printer's control panel. Stored Jobs remain in the printer's hard disk until you delete them.

Item	Description	
Secured Job	Allows you to set up a print job that doesn't print until you enter the Security ID in the printer's control panel. This allows you to send print jobs that contain sensitive or private information to the printer that won't print until you are at the printer and have entered the Security ID that you assigned to the job. After printing, the print job is immediately removed from the printer's hard disk.	
Job Name	Allows you to assign a job name to a retention job saved in the printer's hard disk.	
Security ID	This text box is where the security PIN is entered for secure jobs.	
User Name	This text box enables you to enter a user name to identify print jobs saved in the printer's hard disk.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	

Color Options Dialog

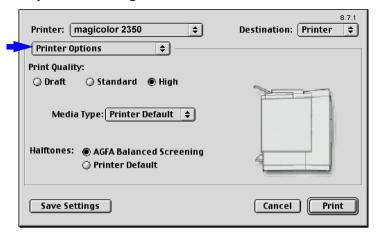


Item	Description		
RGB Source	Allows you to select RGB source profiles for ICC color matching of images and graphics.	None ✓ sRGB Apple RGB PrePress	
	Apple RGB—Apple monitor.	ColorMatch Vivid	
	ColorMatch—Based on the Radius PressView display. This space provides a smaller gamut altern print production work.	Printer Default This	
	None—No conversion.		
	PrePress—The SMPTE-240M standar	rd.	
	Printer Default—The default printer setting.		
	sRGB—A proposed common standard RGB based on the average performance of PC mo		
	Vivid—This space matches the intensi the monitor as closely as possible. Use sentation graphics (such as for overheand spot color.	e it for printing pre-	

Item	Description
RGB Gray Treatment	Allows you to select the way that the printer prints monochrome print jobs. Black Only Black and Gray Composite Black
	Black Only—Only RGB black is converted to the printer's CMYK black. Setting the RGB Gray Treatment to this item results in clear black text.
	Black and Gray—All RGB grays are converted to the printer's CMYK black only gray scale. Setting the RGB Gray Treatment to this item guarantees that monochrome documents print at full speed and that only black toner is used to print gray shades.
	Some gradient fills may not reproduce well using this item as the setting.
	Composite Black—RGB black and grays are converted to CMYK according to the output profile. Setting the RGB Gray Treatment to this item results in rich black colors using varying amounts of cyan, magenta, yellow, and black toner.
	Because all colors are used in this setting, toner scattering and registration errors are more likely to be seen in heavy text and lines.
Simulation Profile	Allows you to choose a CMYK source profile for ICC color matching.
	Commercial—Commercial printing simulation profile. EuroColor Commercial DIC TOYO
	DIC(DICOM)— Common in Medical imaging. Printer Default
	Eurocolor—Eurocolor simulation profile.
	None—No simulation profile.
	Printer Default—The default simulation profile set in the printer's configuration menu.
	SWOP—Specifications for Web Offset Publications simulation profile.
	TOYO—Japanese commercial printing.

	Description
item	Description
Destination Profile	Allows you to set a destination profile for the printer. Choosing Automatic selects the default profile, which was created specifically for the printer. Custom destination profiles must be resident on the printer's hard disk or flash.
CRD Color Space	Allows you to specify how the printer converts RGB images and graphics to CMYK images via the printer's CRDs (color rendering dictionaries).
CRD	Allows you to select from the choices of color rendering dictionaries. Use Printer Default Photographic Colorimetric Business
Color as Grayscale	Select (check) this check box if you're printing image colors as gray shades.
Preserve K	Allows you to choose between a normal CMYK to CMYK through CIE Lab profile connection space and a special black (K) preserving transform. When this check box is disabled (not checked) the normal CMYK to CMYK setting is used. When the check box is enabled (checked) the black preserving transform is used.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Printer Options Dialog



Item	Description	
Print Quality (Resolution)	Lets you select the print resolution from the resolutions supported by your printer.	
Media Type	Identifies the type of media you are printing on. Plain Paper Thick Stock Transparency Labels ✓ Printer Default	
Halftones	Allows you to customize the smoothness of the printed image according to the number of grayscale levels used. Your choices depend on the halftones available on your printer.	
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.	
Cancel	Closes the print dialog without printing and without saving configuration changes.	
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.	



Linux Setup 2

Printing From Linux

This document describes some of the common methods used to print from a Linux Operating System (OS) to a KONICA MINOLTA printer. These methods range from providing minimum to maximum printing flexibility and access to printer features from the Linux environment. A general description, installation instructions, and application notes are included for each method. Choose the method that best matches your printing environment and needs. We recommend using PDQ with the XPDQ front-end for novice Linux users as well as for any users who want to break from traditional Linux printing techniques



The instructions contained in this document were verified on RedHat 6.2 OS. Instructions may vary on different Operating Systems.

Common Printing Methods

PDQ



KONICA MINOLTA printers that support printing from Linux are shipped with the required PPDs (for use with CUPS) and PDQ drivers.

PDQ is a non-daemon-centric print system, which has a built-in and sensible driver configuration syntax. PDQ works similarly to and takes the place of LPD. To print, the pdg command is used instead of lpr. PDQ also includes a file called printre that contains all the needed information for each printer.

A printer is defined in PDQ as the combination of a "driver" and an "interface."

A PDQ interface describes how to send data to a printer. The most common interfaces, which are defined in the PDQ distribution example printre file, are

- Local-port-—The common parallel or serial port. This interface has a device name such as /dev/lp0.
- Bsd-lpd—A bsd-lpd interface transmits over the network to an LPD daemon or LPD-compatible network printer. It supports job submissions, cancellations, and gueries to LPD interfaces. The bsd-lpd interface also has hostname and queuename arguments.
- AppleTalk—The AppleTalk interface allows you to print over an AppleTalk network. Use this method if you have a printer connected to your Macintosh computer.



This interface requires that you have the Netatalk package installed.

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Printing From Linux

A PDQ driver contains all the printer options such as paper trays and media types, as well as a system for translating print data into a format that your printer can understand.



If a driver is not available for your printer, an existing driver may be modified. See the PDQ documentation for creating/modifying drivers.

XPDQ

XPDQ is a Graphical User Interface (GUI) for PDQ that displays a list of available printers and a summary of the print queue. From this dialog all printer options defined in the PDQ driver may be set.

CUPS



KONICA MINOLTA printers that support printing from Linux are shipped with the required PPDs (for use with CUPS) and PDQ drivers.

CUPS allows Linux users to manage print jobs and queues with the Internet Printing Protocol (IPP). The Line Printer Daemon (LPD). Server Message Block (SMB), and AppSocket (a.k.a. JetDirect) protocols are supported with reduced functionality. CUPS adds network printer browsing and PostScript Printer Description (PPD)-based options that support printing under Linux.

CUPS, with the use of PPD files, allows you to take advantage of the built-in printer features such as duplex and multiple media trays, and to set the default media size and type, all from the CUPS web-based GUI. However, a problem may arise when printing from applications that allow you to choose printer options because the application options override the CUPS options. For example, if you choose a different paper size in the Netscape print dialog than the one chosen in the CUPS options, then the Netscape choice would override the CUPS choice and be used. To avoid this problem, confirm that the application settings match the CUPS settings.



There are known margin alignment problems when printing duplex from Linux using CUPS with Windows NT PPDs.

XPP

XPP is a GUI for the CUPS printing system. The X Printing Panel (XPP) is a free tool (under the GNU General Public License - GPL) that allows you to select from a list of available printers and to set printer options. One simply

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uses the program (xpp) instead of the usual utilities (lpr or lp) at the command line or from applications.

Advantages and Features

- Manages printers more easily than the CUPS web-based system.
- Allows you to see and choose from printers available on the network.
- Can be started at the command line or from applications. The name of the file to print can be chosen by a built-in file browser or be given as a command line argument. Standard input can also be printed.
- No need to remember and type cryptic command line arguments to access printer features. Feature options are easily chosen from a dialog window.
- Allows you to use advanced features of most PostScript printers such as duplex units and additional media trays, without using proprietary software.
- Preprocessing options for your documents such as choosing the pages to print, setting brightness and gamma correction, and appearance of text or image printouts.
- Compatible with many of the command line tools of CUPS. It accepts the command line options of lpr and most command line options of lp.

Installation Steps

The following steps are for quick reference only. For more detailed instructions, see the documentation provided with each application.

Installing PDQ

- 1 Download the source distribution from http://pdq.sourceforge.net/.
- 2 Gunzip the file.
- 3 Untar the file.
- 4 As root, go to the pdq directory formed from untarring the file.
- 5 Type ./configure, and then press Enter.
- 6 Type make, and then press Enter.
- 7 Type make install, and then press Enter.
- 8 Type [cp /etc/pdq [printrc.example] /etc/pdq/printrc,] and then press Enter.

Adding A Printer

See the steps described in "Adding A Printer" in the XPDQ section.

Installing XPDQ

XPDQ is automatically installed with PDQ.

Adding A Printer

- 1 Copy the printer driver to the directory /etc/pdq/drivers.
- 2 From the command line, type xpdq.
- 3 From the menu, choose printer, and then choose add printer.

The wizard starts.

4 Enter a printer name.

This can be any name you want.

- 5 Select the printer driver for your printer from the list.
- 6 Enter the interface that is being used, (i.e.: /dev/lp0).

Installing CUPS (from an RPM)

- The current lpd print system must first be uninstalled. Instructions for uninstalling lpd are found below.
- 2 Download CUPS 1.1.1 or newer from www.cups.org.
- ${f 3}$ Type rpm -i cups-x.x.x-linux-x.x-intel.rpm (use the name of the RPM you have).

Uninstalling lpd

As root, from the command line, type the following:

```
rpm -e printtool-3.44-1
rpm -e rhs-printfilters-1.63-1
rpm -e lpr
```



The version numbers listed may be different than yours.

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Adding A Printer

CUPS provides two methods for adding printers: a command-line program called lpadmin and a Web interface. The lpadmin command allows you to perform most printer administration tasks from the command-line and is located in /usr/sbin. The Web interface is located at: http://localhost:631/admin and steps you through printer configuration.

Adding a Printer from the Command-Line

- 1 Copy the ppd file to /usr/share/cups/model.
- 2 Execute the command

/usr/sbin/lpadmin -p printername -E -v device -m file-name.ppd

where printername is what you want to name the printer and device is the printer's location (for example, parallel:/dev/lp0, or socket://11.22.33.44), and filename.ppd is the name of the ppd file copied in step 1

3 To make this printer the default printer, type /usr/sbin/lpadmin -d printer (where printer is the name of the printer from step 2).

Adding a Printer from the Web

To use the wizard from the local host you must first edit the cups.conf file.

- 1 vi the file /etc/cups/cups.conf and comment out the following lines in the /admin section:
 - Order deny allow
 - Deny from all
 - Allow from 127.0.0.1

A # placed at the beginning of the line comments out the line.

- 2 Using your web browser, go to http://localhost:631/admin (where localhost is the name of the computer with CUPS installed).
- 3 Enter root and root password in the dialog box.
- 4 Select add printer.
- 5 Follow the on-screen instructions and complete the setup.

Installing XPP

The easiest way to install xpp is by compiling the source distribution yourself.

- 1 Cups 1.1.1 or newer must be installed and working. See "Installing CUPS (from an RPM)" on page 2-87.
- 2 Download source code for XPP 1.0 and FLTK 1.0.10 from http://cups.sourceforge.net/xpp/.



The following steps must be done as root.

- 3 Go to the FLTK 1.0.10 directory.
- 4 Type ./configure, and then press Enter.
- 5 Type make, and then press Enter.
- 6 Type make install, and then press Enter.
- 7 Go to XPP 1.0 directory.
- 8 Type ./configure, and then press Enter.
- 9 Type make, and then press Enter.
- 10 Type make install, and then press Enter.

This automatically copies the xpp executable into the /usr/local/bin directory.

Adding A Printer

A printer cannot be added through XPP. XPP lists printers installed from CUPS.

Printing from Applications

The following steps are for quick reference only. For more detailed instructions, see the documentation provided with each application.

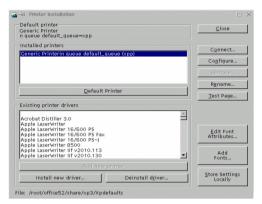
StarOffice

StarOffice uses PPD files in combination with the installed printing system. The following is a list of steps showing how to add and configure printers using PDQ and CUPS.

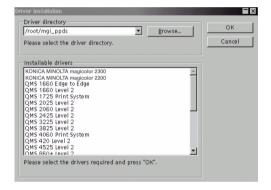
Chapter 2.7—89

Adding a Printer

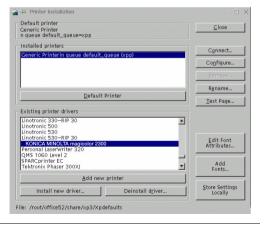
1 Start StarOffice and select Printer Setup.



- 2 Select Install New Driver.
- 3 Browse or enter the directory that contains the PPD files for your printer.
- 4 Select the printer to install, and then select OK.

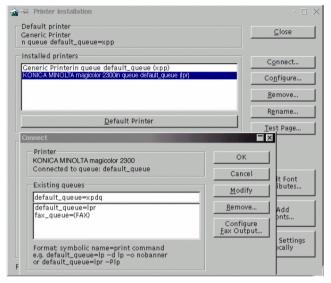


- 5 Select desired printer from the list, and then select Add New Printer.
- 6 To make your selection the default printer, select Default Printer.



Using XPDQ

- 1 With your printer already added, select the printer from the list and select Connect.
- 2 In the text box, replace lpr with xpdq, and then select OK.



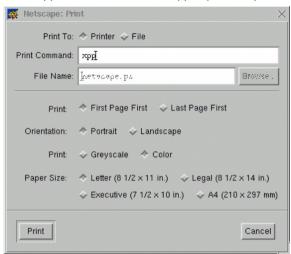
Using XPP

- 1 With your printer already added, select the desired printer from the list and select Connect.
- 2 In the text box, replace lpr with xpp, and then select OK.

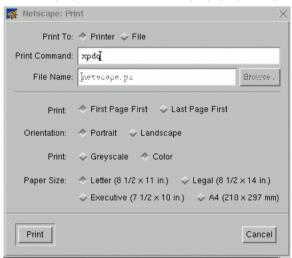
Netscape

When Print is selected, Netscape opens a print dialog box. From this dialog box different print commands may be entered. The following is a listing of the commands for the different options.

XPP: Enter xpp in the box to use the xpp/cups GUI option.



XPDQ: Enter xpdq in the box to use the pdq/xpdq GUI option.





Netscape remembers the last option entered so you don't have to reenter the command each time you print.

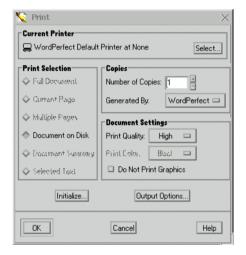
Corel WordPerfect

WordPerfect offers two ways of setting up a printer: personal or system. A personal printer only displays for the person who installed it and can only be modified by that user. A system printer can be accessed by all users but may be modified only by 'root'.

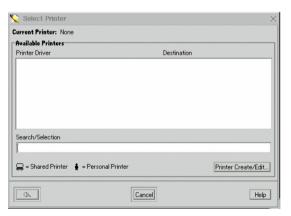
The steps for setting up a personal or system printer are the same with the exception that for a system printer you must login as 'root' and start WordPerfect with the -adm option.

Corel WordPerfect 7 or 8 GUI

- 1 Select Print.
- 2 Select Select.



- 3 Select Printer Create/Edit.
- 4 Select Add.



5 Scroll through the list and choose the desired printer. A PostScript printer driver must be chosen to work with CUPS or the drivers provided for PDQ.



If your printer is not listed go to ftp://ftp.corel.com/pub/printdrivers for a list of printer drivers.

- 6 Select OK.
- Select OK
- 8 With the desired printer highlighted, select **Setup**.
- 9 Select Destination.
- 10 Add any spooler options.
- 11 Select OK.





UNIX Setup 2.8

UNIX Quick Setup

Interface

- 1 Enter the Printer's IP address in the Interface Menu/Ethernet/TCPIP/ IP Address printer menu.
- 2 If necessary, enter the default router address in the Interface Menu/ Ethernet/TCPIP/Default Router printer menu.
- 3 If necessary, enter the default subnet mask in the Interface Menu/ Ethernet/TCPIP/Subnet Mask printer menu.

Network/Workstation

- 1 Add the printer to the workstation/network HOSTS file.
- 2 Install the UNIX Host Software (from the Software Utilities CD-ROM) from either the TAR or CPIO format in the /platform/UNIX/host sw directory.

UNIX Detailed Setup

TCP/IP Interface Configuration



If you do not use DHCP to configure TCP/IP (or if you do not want to use it for this particular printer), disable DHCP on the Interface Menu/ Ethernet/TCP/IP/DHCP configuration menu.

You can configure your KONICA MINOLTA print system by several different methods. This section briefly describes the configuration procedure for the printer interface. Refer to your printer documentation for detailed instructions. You can make these configuration changes through any of the following means:

- Printer Control Panel
- PageScope Net Care
- PageScope Light
- 1 If necessary, in the Interface Menu/Ethernet/TCPIP/IP Address printer menu, enter the printer's Internet address.

The default Internet address is 192.128.2.1.

2 If necessary, in the Interface Menu/Ethernet/TCPIP/Default Router printer menu, enter the Internet address of the default router.

The default router address is 000,000,000,000

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UNIX Quick Setup

3 If necessary, in the Interface Menu/Ethernet/TCPIP/Subnet Mask printer menu, enter the printer's subnet mask.

The default subnet mask is 000.000.000.000. This setting provides automatic sensing of gateways. If you identify a subnet mask, automatic sensing is disabled.

TCP/IP NetWork Configuration

- 1 Log on the UNIX system as administrator.
- 2 Edit the system host table by adding the following line to the hosts file:

internetaddress hostname

where internet address is the Internet address of the printer (Interface Menu/Ethernet/TCPIP/IP Address printer menu) and hostname is the name of the printer.

3 Send the hardware address to the print server by typing:

```
arp -s hostname hardwareaddress temp↓
ping hostname↓
```

where hostname is the name of the host and hardwareaddress is the new hardware address of the printer (in the form ##.##.## as found on the printer startup page).

Installing the UNIX Host Software

1 Insert the Software Utilities CD-ROM in your CD-ROM drive.



Some drives require that the disk be placed in a caddy before being inserted in the drive. Check your CD-ROM drive documentation for information. Also, it takes a few seconds for the automounter to detect the CD.

- 2 Log on the UNIX system as root.
- 3 Type the following command to go to the root directory:

cd /↵

4 If you're using a Solaris system, skip to step 6.

If you're using a SunOS system and already have a directory on the system named cdrom, skip to step 5.

Installing the UNIX Host Software

Chapter 2.8—97

If you're using a SunOS system and don't have a directory on the system named cdrom, type the following command to make one:

mkdir /cdrom↓

5 Mount the CD-ROM file system:

```
mount -r -t hsfs device filename /cdrom→
```

For device filename substitute the complete pathname of the device associated with the CD-ROM drive. On SunOS systems, device filename is usually /dev/sr0. If it isn't, check your SunOS system documentation.

6 Verify that the CD-ROM file system has been mounted by listing the contents of the directory:

The directory contains several subdirectories, including UNIX.

- 7 Change to the directory in which you want the UNIX Host Software to be installed.
- 8 Extract the files from the CD-ROM. For example:

```
tar xvf /cdrom/platform/unix/host sw/hs tar-
```

The utilities are installed in a directory named KMSoft in the current directory.



See the readme file on the CD-ROM for the exact location of this

9 Unmount the CD-ROM file system:

```
umount device filename↓
```

For device filename, substitute the complete pathname of the device file associated with the CD-ROM drive.

10 Change to the newly created KMSoft directory:

cd KMSoft↓

11 Run the Qinstall installation utility:

./Oinstall-

12 Follow the instructions on the screen. When the installation is complete, the following message displays:

> KONICA MINOLTA UNIX Host Software installation complete

13 Copy the addprt and qpr utilities and their associated manual pages to standard directories. For example,

```
cp addprt /usr/bin↓
```

- cp gpr /usr/bin↓
- cp man/addprt.1 /usr/man/man14
- cp man/qpr.1 /usr/man/man1,

- ${\bf 14} \ \ {\bf Update \ the \ printer's \ Internet \ name \ and \ address \ in \ the \ hosts \ file.}$
- $15 \ \ \, \text{Run the KONICA MINOLTA addprt utility by typing:}$

addprt↓

16 Follow the instructions on the screen.



Connecting to Part NetWare 5.x/6.x

NetWare 5.x/6.x Setup

This chapter describes the steps necessary to configure NetWare 5.x/6.x and your printer to print jobs routed through a print server.

Setup Overview



See the sections following this overview for detailed setup instructions.

Using NWAdmin (NetWare 5.x/6.x)

- Add a Print Server to the NDS tree.
- 2 Add a Print Queue to be serviced.
- 3 Add a Printer with the type as Remote/Other Unknown.
- 4 Associate the Print Queue with the Printer.
- 5 Associate the Printer with the Print Server.

NetWare NDS Setup Using NetWare Admin (Detailed Setup)

- 1 Double-click the NWAdmin icon.
- 2 If the tree is not displayed, select Tools NDS Browser to display the directory tree.
- ${f 3}$ Select the container that will hold the print queue, printer, and print server.



Although it's not required that all three objects reside in the same container, it is recommended by Novell.

4 Select Object - Create.



While the order of creation is not mandatory, we recommend that the objects be created in this order.

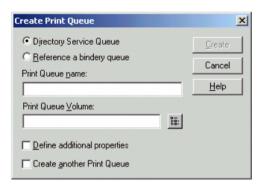


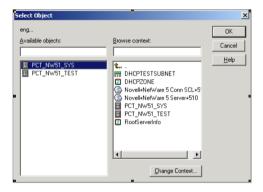
On all creation opening screens, you have the opportunity to change context if needed.

- 5 Select Print Queue, and then select **OK**.
- 6 Type the name of the print queue.
- 7 Select the icon button next to the Print Queue Volume.

The Select Object dialog box appears.

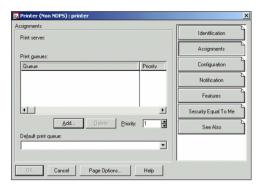
- 8 Select the volume to store the print queue and change the context, if needed; then Select **OK**
- 9 Choose Create.
- 10 Select Object Create.
- 11 Select Printer, and then select **OK**.
- 12 Enter the name of the printer.
- 13 Select Define Additional Properties.
- 14 Choose Create.



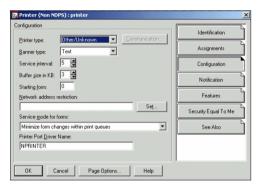




- 15 From the Assignment tab. select Add.
- 16 Select the print queue added in above to be serviced by this printer, and then select OK



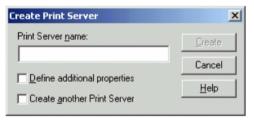
- 17 From the Configuration tab. select Other/ Unknown for the printer type, and then select OK.
- 18 Select Object Create.
- 19 Select Print Server, and then select OK.



20 Type the name of the print server.



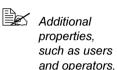
This name should match the latter portion of the name entered on the interface card. Refer to

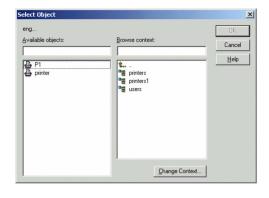


"Printer Interface Setup" on page 105.

21 Choose Define Additional Properties.

- 22 Choose Create.
- From the Assignments tab, select Add.
- 24 Select the printer you named in previous steps. Change the context if needed.
- 25 Select **OK** twice.





can also be assigned during initial installation or at a later time.

The NetWare setup is now complete. If you haven't already done so, configure the printer interface (see the next section).

Printer Interface Setup

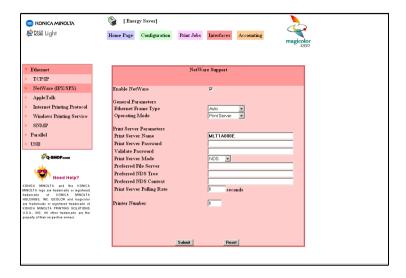
The following instructions describe how to configure your printer's interface for NDS PServer mode through the printer control panel, through PageScope Light, and through PageScope Net Care.

Configuring the Print Server Context Using the Printer Control Panel

From the Interface/Ethernet/IPX/SPX menu on the printer's control panel, enter values for the following parameters.

Frame Type	Allows you to specify the frame type used by the NetWare interface

Configuring the Print Server Context Using PageScope Light



In the Interfaces/NetWare (IPX/SPX) page in the web-based utility, enter values for the following parameters.

Ethernet Frame Type	Allows you to specify the frame type used by the NetWare interface
Operating Mode	Allows you to specify whether the mode is Print Server or Remote Printer
Print Server Name	If the print server is associated to the NDS tree, also enter the Preferred NDS Tree Name. If the print server is associated to a file server, also enter the Preferred NDS Server Name.
Print Server Password	If you want to use a password, enter it here, but make sure it matches the NWAdmin File Server password
Print Server Mode	Allows you to select NDS, Bindery, or both

Preferred File Server	Allows you to identify the name of the configuration file server
Preferred NDS Tree	Allows you to enter the NDS Tree Name associated with the print server
Preferred NDS Context	Allows you to set the Context. The Print Server Context must match the one assigned in NetWare setup.
Print Server Polling Rate	Allows you to set the rate at which the print server looks for print jobs
Printer Number	Allows you to check or change the printer number

Configuring the Print Server Context Using PageScope Net Care

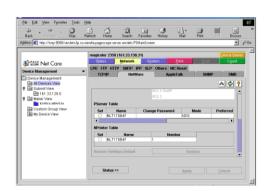
- 1 From the Device Management Screen, double-click on All Devices View and then double-click on your printer in the printer list.
- 2 Choose the NetWare tab.
- 3 Select Enable NetWare and set the Frame Type as Auto for Autodiscovery or Ethernet to set your frame type.

EDNord - Istedgade 37A - 200 Aalborg - telefon 96333500

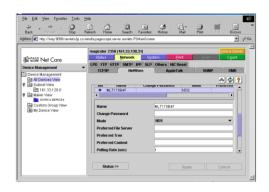
- 4 Enter the Print Mode.
- 5 Select PServer Mode or NPrinter Mode.

PServer Mode

1 Select the Set button.



2 Enter the required data for the PServer.



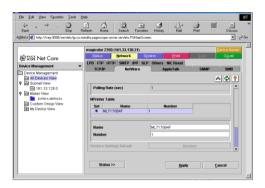
Print Server Name	If the print server is associated to the NDS tree, also enter the Preferred NDS Tree Name. If the print server is associated to a file server, also enter the Preferred NDS Server Name.
Print Server Password	If you want to use a password, enter it here, but make sure it matches the NWAdmin File Server password
Print Server Mode	Allows you to select NDS, Bindery, or both
Preferred File Server	Allows you to identify the name of the configuration file server
Preferred NDS Tree	Allows you to enter the NDS Tree Name associated with the print server
Preferred NDS Context	Allows you to set the Context. The Print Server Context must match the one assigned in NetWare setup.
Print Server Polling Rate	Allows you to set the rate at which the print server looks for print jobs

3 Click Apply.

4 Turn the printer off and then on again.

NPrinter Mode

- 1 Select the **Set** button.
- 2 Enter the required data for NPrinter.



Print Server Name	If the print server is associated to the NDS tree, also enter the Preferred NDS Tree Name. If the print server is associated to a file server, also enter the Preferred NDS Server Name.
Printer Number	Allows you to check or change the printer number. Make sure you use the same number here that you set in NWAdmin.

- 3 Click Apply.
- 4 Turn the printer off and then on again.





In this Section...

- Chapter 3.1 Using Printer Utilities
 An introduction to the printer management tools available for your printer.
- Chapter 3.2 Crown Print Monitor+ Installation instructions for manually installing the Crown Print Monitor+ utility.
- Chapter 3.3 Status Monitor
 Installation and user instructions for the Status Monitor utility.
- Chapter 3.4 Download Manager Installation and user instructions for the Download Manager utility.
- Chapter 3.5 PageScope Net Care
 Installation instructions for the PageScope Net
 Care printer management utility.

Chapter Location

Chapter	Title	Begins on page
3.1	Using Printer Utilities	113
3.2	Crown Print Monitor+	117
3.3	Status Monitor	129
3.4	Download Manager	143
3.5	PageScope Net Care	149

Using Printer **3** - 1

What's Available

Your magicolor 2350 comes with a variety of applications that are designed to make the printer easier to use and manage. PageScope Light, a powerful web-based tool that lets you configure all your printer settings from your workstation via TCP/IP, is built into the printer. Five more utilities are available on the *Software Utilities* CD-ROM that came with the printer. You can also download many of these same utilities, as well as updated drivers and PPDs, from our website at printer.konicaminolta.net/support.

The following table presents an overview of these utilities.

Name	Description	Begins on page
Crown Print Monitor+	Crown Print Monitor+ for Microsoft Windows XP/2000/Me/98/NT4 — Transports print jobs to your printer over TCP/IP protocol and displays status information to the host via Print Manager. Online help is available after installation.	117
Status Monitor	Printer Status Monitoring, Printer Polling, Task Bar Alerts, Email Notification, Consumable Supply Alerts, Recovery Instructions, Recovery Video Help, and Direct links via the Internet to KONICA MINOLTA-approved printer supplies, accessories, and support. For Windows XP/2000/Me/98 over TCP/IP Ethernet and USB 1.1 interfaces, and for Windows NT4 if you first install Windows Media Player.	129
Download Manager	Download fonts, overlays, and color profiles from your PC (Windows-only) to your printer using this convenient tool. Can be launched from the Start menu or from the KONICA MINOLTA PostScript driver.	143
PageScope Net Care	A cross-platform utility providing access to printer management functions including status monitoring and network/printer parameter settings. Online help is available after installation.	149

Name	Description	Begins on page
PageScope Network Setup	This utility provides basic configuration functions for network printers using TCP/IP and IPX protocols. Online help is available after installation.	See the PageScope Network Setup User Manual on the Software Utilities CD-ROM.
NDPS Gateway	NDPS Gateway—supports use with the magicolor 2350 and KONICA MINOLTA digital copier products. See the NDPS Gateway readme for installation and usage instructions.	See the NDPS Gate- way readme on the <i>Soft-</i> ware Utilities CD-ROM.
PageScope Light	Using your printer's built-in web pages and your Internet web browser, PageScope Light gives you access to all of your printer settings via TCP/IP Ethernet connections.	203
	PageScope Light is built into your printer and is not on the Software Utilities CD-ROM.	



Installing Utilities from the CD-ROM

The *Software Utilities* CD-ROM has an automatic installer program. Simply insert the CD-ROM and follow the on-screen instructions for installation of most utilities.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click

on the setup.exe file in the root directory to start the Installer application.

After installation is complete, remove the Software Utilities CD-ROM and store it in a safe place.



Efforts to enhance the features and performance of your KONICA MINOLTA printer utilities don't stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer utility software. For the latest printer utilities, check your printer's Support page on our website at printer.konicaminolta.net/support.



Downloading Printer Utilities from the Internet

Our website (printer.konicaminolta.net/support) contains the latest versions of our printer utilities. To download a printer utility, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and utility from the Drivers, PPDs and Utilities listing.

- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Double-click on the .exe file that was downloaded.

The .exe is a selfextracting compressed file

that allows you to uncompress the installation files.



6 See the remaining chapters in this section for additional information on manually installing your printer's utilities.



Crown Print Monitor+ 3 2

Installing the Crown Print Monitor+

The Crown Print Monitor+ is on the *Software Utilities* CD-ROM that comes with your printer and is also available from our website (<u>printer.konicaminolta.net/support</u>).

This chapter describes the steps for installing the Crown Print Monitor+ on PCs using a Windows Operating System. Use this chapter if you need detailed information about the installation procedures for the Crown Print Monitor+, or if you've already completed the initial installation of the printer software utilities and need only to install the Crown Print Monitor+. Additional information is available in the *Crown Print Monitor+ Administrator's Guide* on the *Software Utilities* CD-ROM.



Installation Using the CD-ROM

1 Insert the *Software Utilities* CD-ROM into the CD-ROM drive on your PC.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

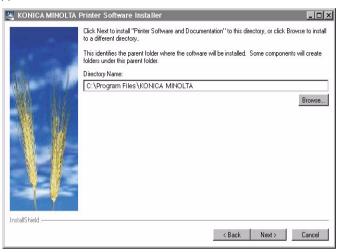
- 2 Select the language, select OK, and then select Next from the Introduction dialog.
- From the Main Menu dialog, select Install Additional Software.
- 4 After reviewing the License Agreement, select I Accept and then Next to continue.







Depending on your PC's configuration, you may see one or more windows containing special installation information. Review the information, and then select **Next** until the window shown below appears.



- 5 Choose the location where the installer will save the files necessary for the installation. If the default location shown in the Directory Name text box is not where you want the files installed, select Browse, choose a different directory, and then select OK. When the desired directory information appears in the Directory Name text box, select Next.
- 6 Choose (check) Printer Management Utilities and select Custom from the Setup Type list.
- 7 Select Next.
- 8 Choose the Crown Print Monitor check box.

All other check boxes should be clear.

- 9 Select Next.
- 10 After reviewing the installation information, select Next.

Select Back if you need to change any of the installation options.

of installation components to install. After making your custom choices, the installation procedures aren't more complex-there are just more of them.

installation selection just

Custom gives you a choice

for "computer experts?"

No, not at all. Selecting

Is the "Custom"

11 Select the Crown Print Monitor+ installation language, and then select OK.

The Welcome window appears.

12 Select Next.

Chapter 3.2—119 Installing the Crown Print Monitor+

- When the Add Crown Port dialog appears, add the port as explained in "Adding a Crown Port" on page 121.
- 14 Choose Finish and restart your computer when prompted.



Installation Using Internet File Download

The Crown Print Monitor+ can be downloaded from the Support area of our website at printer.konicaminolta.net/support.

- 1 Use Windows Explorer to create a new folder on your hard disk, and name the folder Monitor.
- 2 Using your Internet Browser, go to the Support page for your printer and choose the platform from the Drivers, PPDs and Utilities listing.
- 3 Select the Crown Print Monitor+ file (CPMPLUS.EXE).
- 4 Select Save this program to disk when prompted. Save the download file in the Monitor directory created in step 1.
- After the download is complete, use Windows Explorer to open the Monitor directory created in step 1.



6 Double-click on the mqpmon.exe file that was downloaded in step 4.

The mqpmon.exe is a self-extracting compressed file that allows you to uncompress the installation files.

- After the files are uncompressed, close the extract utility, and then double-click on the setup.exe file within the Monitor folder.
- 8 Choose the installation language, then select **OK**.
- 9 Click **Next** on the Welcome screen to run the Crown Print Monitor+ installation.
- 10 When the Add Crown Port dialog box appears, add the port as explained in the next section.
- 11 Choose Finish and restart your computer when prompted.

Section

Adding a Crown Port

Before you can send print jobs and receive status information on them using the Crown Print Monitor+, you must add a Crown port to your PC's configuration, and then associate the new port with your printer. Use the manual setup described here to add a port.



If you've already installed the Crown Print Monitor+, follow the instructions for adding a new Crown port as described in "Adding a Crown Port After Crown Print Monitor+ Installation" on page 127.

Windows XP/2000/NT4

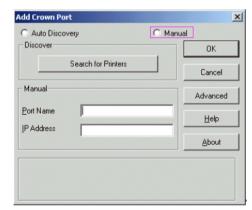
- 1 Following the instructions that came with your Windows system, complete the Create Printer dialog box information.
- 2 Right-click on your Printer to open the Properties dialog box.
- ${f 3}$ In the Properties dialog box, choose the Ports tab.
- 4 Click on Add Port.
- 5 In the Print to: list box select Other.
- 6 Click on Crown Port.
- 7 Click on New Port.
- 8 Select the Manual radio button from the Add Crown Port dialog box.



Auto Discovery and Search for Printers is not supported for magicolor 2350 printers.

9 Type the logical name for the port in the Port Name text box.

> This is a descriptive identifier of the port. Each port name must be unique. The maximum



port name is up to 128 characters. This name displays in the Print to: list box of the Printer Properties dialog box in Print Manager.

If the port name already exists, the following message displays:



You must choose another Port Name.



On initial access to the Add Port dialog box, whatever you type in the Port Name text box is automatically copied to the IP Address text box. The port name and IP address can be the same or they can be different. However, if they are different, then first click the cursor in the IP Address text box and type it. Then click the cursor in the Port Name text box and type it.

10 Type the Internet Protocol Address for the port.

This address is either the unique host name or the dot notation identifier (IP address) of your printer.

What's a Host Name?

A symbolic name (a convenient way for people to refer to a host) that identifies network devices on your computer. This name must exist in your Network Host Name file and must be unique.

What's Dot Notation?

A unique set of four numbers (triplets), separated by periods. which identifies a 32-bit device address on the Internet, For example, 191.45.105.227 (note that leading zeroes are not used).

If an invalid or previously used IP address (host name or dot notation identifier) is given, the following message displays:



If you receive this message, you must do one of the following:

- a Select No and type another valid IP address (this is what we recommend).
- b Select Yes and add this address in the Network Host Name file on your computer before you send any print jobs to the port. If a print job is sent to the port before the address is entered in the Network Host Name file, the job does not print.
- **c** Select Cancel to abort adding the port and to exit from the Add Port dialog box.
- 11 Select the Advanced button.

The Configure Crown Port dialog box appears. Follow the configuration instructions in "Configure the Port" on page 125

12 Select OK.

The Configure Crown Port dialog box closes.

Windows Me & 98

- 1 From the Start menu, choose **Settings**.
- 2 From the Settings menu, choose **Printers**.
- 3 In the Printers window, right-click on the magicolor 2350 to display the pop-up menu and choose Properties.
- 4 Choose the Details tab and then choose Add Port.
- 5 Select Other.
- 6 Select Crown Port from the list and then choose **OK**.

 The Add Crown Port window appears.
- 7 Choose the Manual option.
- 8 Select the Advanced button.

9 Type the logical name for the port in the Port Name text box.

This is a descriptive identifier of the port. Each port name must be unique. The maximum port name is up to 128 characters. This name displays in the Print to: list box of the Printer Properties dialog box in Print Manager. If the port name already exists, the following message displays:



You must choose another Port Name.



On initial access to the Add Port dialog box, whatever you type in the Port Name text box is automatically copied to the IP Address text box. The port name and IP address can be the same or they can be different. However, if they are different, then first click the cursor in the IP Address text box and type it. Then click the cursor in the Port Name text box and type it.

10 Type the Internet Protocol Address for the port.

This address is either the unique host name or the dot notation identifier (IP address) of your printer.

What's a Host Name?

A symbolic name (a convenient way for people to refer to a host) that identifies network devices on your computer. This name must exist in your Network Host Name file and must be unique.

What's Dot Notation?

A unique set of four numbers (triplets). separated by periods, which identifies a 32-bit device address on the Internet, For example, 191.45.105.227 (note that leading zeroes are not used).

If an invalid or previously used IP address (host name or dot notation identifier) is given, the following message displays:



If you receive this message, you must do one of the following:

- a Select No and type another valid IP address (this is what we recommend).
- b Select Yes and add this address in the Network Host Name file on your computer before you send any print jobs to the port. If a print job is sent to the port before the address is entered in the Network Host Name file, the job does not print.
- c Select Cancel to abort adding the port and to exit from the Add Port dialog box.
- 11 Configure the Timers and Port Setting using the instructions in "Configure the Port" on page 125.
- 12 Choose ok.

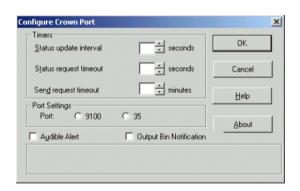
The Configure Crown Port dialog box disappears.

13 Choose OK.

The Properties dialog box displays again and the port name appears in the Print to the Following Port drop-down list box on the Details tab.

Configure the Port

1 Configure the Timers.



Name	Default Setting	Function
Status Update Interval	5 Seconds	Determines how often the Crown Print Monitor+ updates Print Manager with status information on the printer attached to the port.
Status Request Timeout	10 Seconds	Sets the amount of time the Crown Print Monitor+ waits for a response from the printer before notifying the Print Manager that the printer is not responding.
Send Request Timeout	60 Minutes	Sets the amount of time the Crown Print Monitor+ waits for a print job to be sent before it returns control to the Microsoft Print Spooler.
		If this timer expires and the job was sent via a Windows Me & 98 Server, the print job is automatically terminated and cleared from the system.
		If this timer expires and the job was sent via a workstation, the Windows Me & 98 Print Spooler dialog box displays, asking for a retry or cancel response. Regardless of your response, the job is terminated and cleared from the system.

- 2 Select the Port Settings option and select port 9100 for the magicolor 2350 printer.
- 3 Select **OK** and close the dialog box.
- 4 Restart your computer when prompted.

If you are updating an existing monitor, turn your system off and on again when prompted.

5 If you haven't already done so, install the printer driver for your printer.

Adding a Crown Port After Crown Print Monitor+ Installation

During Crown Print Monitor+ installation, the Add Crown Port dialog box is automatically opened for you so you can add a Crown port to your PC's configuration. You can use the following instructions to add a new Crown port at any time following the Crown Print Monitor+ installation.



The following assumes that Crown Print Monitor+ has already been installed on your PC.

Windows XP/2000/NT4

- 1 From the Start menu, choose **Settings**.
- 2 Choose Printers.
- 3 In Printers window click the right mouse button.
- 4 In the Properties dialog box select the Ports tab.
- 5 Select the Add Port button.
- 6 Select the Printer Ports button.
- 7 Choose Crown Port from the list then select **OK**.

The Add Port window appears. Follow the instructions for adding a port in "Adding a Crown Port" on page 121.

- 8 Select OK.
- 9 Choose Close in Printer Ports dialog box, then choose **OK** in Print Server Properties to close the Printers window.

Windows Me & 98

- 1 From the Start menu, choose **Settings**, and then **Printers**.
- 2 In the Printers window, click the right mouse button on an existing printer to display the printer's menu.
- 3 Choose Properties to display the Properties dialog box.
- 4 Choose the Details tab, and then select Add Port.
- 5 Select Other.
- 6 Select Crown Port from the list, and then select **OK**.

The Add Port window appears. Follow the instructions for adding a port in "Adding a Crown Port" on page 121.

7 Select OK.

 $\boldsymbol{8}$ Select Close in Printer Ports dialog box, then select OK in Print Server Properties to close the Printers window.

Section

Status Monitor 3.3

Overview

The Status Monitor gives you a real-time link to your printer status and can help you resolve most typical printer problems.

Features

- Printer Status Monitoring
- Printer Polling
- Task Bar Alerts
- Email Notification
- Consumable Supply Alerts
- Recovery Instructions
- Recovery Video Help
- Direct links (Internet access required) to KONICA MINOLTA-approved printer supplies, accessories, and support.

Requirements

- PC using Windows XP, Me, 2000, or 98 Operating System
- magicolor 2350 connected via Ethernet (TCP/IP)
- KONICA MINOLTA PostScript Driver for Windows (installed)



If you choose the Compact Installation option when installing the Status Monitor you will also need the Software Utilities CD-ROM (shipped with your printer) to view Recovery Video Help when using the Status Monitor. The videos on this CD-ROM are not copied to your PC unless the Complete Installation option is chosen during installation.



KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from our website at printer.konicaminolta.net/ support.



Installing from the CD-ROM

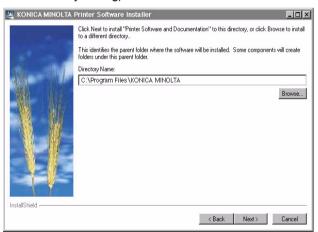
The Software Utilities CD-ROM has an automatic installer program.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

- 1 Select the language, select **OK**, and then select Next from the Introduction dialog.
- 2 From the Main Menu dialog, select Additional Software.
- 3 After reviewing and accepting the license agreement, select **Next**.



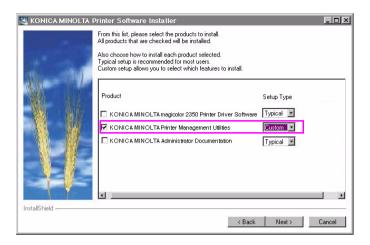
4 Choose the installation directory (or use the default directory setting).



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5 Select Next.

6 Choose (check) KONICA MINOLTA Printer Management Utilities and select Custom from the Setup Type list.

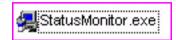


- 7 Select Next.
- 8 From the Printer Management Utilities dialog, select (check) Status Monitor. Make sure all other options are not checked and then select Next.
- 9 Follow the onscreen instructions until the Setup Options of the Status Monitor installer appear.
- 10 Complete the installation using the instructions in the next section, starting with step 3.

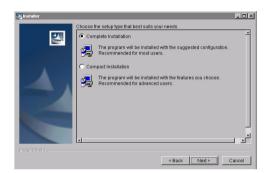


Manual Installation

- 1 Insert the Software Utilities CD-ROM into your CD-ROM drive. If the auto-installer opens, close it. Then using Windows Explorer, select your CD-ROM drive and browse to the folder ③:\Utilities\status monitor (where ③ is the letter of your CD-ROM drive).
- 2 Double-click on the StatusMonitor.exe icon. The Setup program automatically detects the Windows platform and opens the Install Wizard. Follow the directions on the screen.



When the Setup Options dialog appears, select the installation type.



Installation Type	Description	Note
Complete	Installs the Status Monitor program, including the video files used by Recovery Video Help. This is the recommended installation method.	The .mov files used by the Recovery Video Help feature are generally large. If you don't have sufficient disk space available, choose the Compact Installation option (described next).
Compact	Installs the Status Monitor program but does not install the video files used by Recovery Video Help. Select this installation type if the storage space on your PC's hard disk is insufficient or reserved for other applications.	To use the Recovery Video Help feature of the Status Monitor, the Software Utilities CD-ROM must be inserted to allow the program to access the video files that are not copied to your PC when Compact Installation is chosen.

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- 4 Select Next.
- 5 After the installation is complete, remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.

Using the Status Monitor

When a monitored printer issues an alert status, several things may occur within the application depending on how the application options are configured. Use the following procedure to detect and recover the printer status conditions.

Starting the Status Monitor

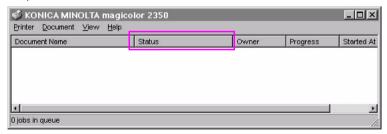
To begin monitoring printer status messages, start the Status Monitor program by selecting Programs/Status Monitor/Status Monitor from the Start menu.

The application icon displays in the Windows task bar to indicate that the Status Monitor is running.

Opening the Status Monitor

There are two methods of opening the Status Monitor program windows:

- From the Windows task bar, double-click on the application's icon.
- From the Printer Queue window, click on the Status column button (shown below).



Status Tab

When the Status
Monitor is opened the
Status tab displays.
From this tab you can
review the current
status of the printer,
view recovery video
and instructions,
activate the link to an
Internet site for ordering
printer supplies, and
open the Advanced
Options dialog.

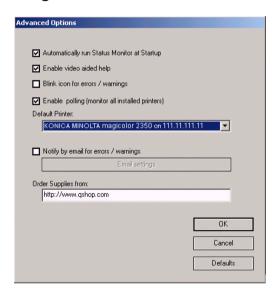


Item	Description
LCD display area	The upper portion of the tab is reserved for displaying messages that appear on the printer's control panel.
Recovery video help	Recovery videos are displayed in this area. Recovery videos are QuickTime movie files that illustrate many of the procedures that must be performed to return the printer to a ready status.
	Because of the nature of some printer errors and warnings, not all status messages have a corresponding video file. If no video file exists for the present status of the printer, the KONICA MINOLTA logo is displayed.
Recovery Instructions	This area displays the instructions that help guide you through procedures for eliminating problems and returning the printer to a ready status.
Advanced Options button	This button opens the Advanced Options dialog, which allows you to configure additional application options.

Item	Description
Order Supplies button	This button, configurable through the Advanced Options dialog, opens the designated URL for ordering printer supplies.
Close button	Closes the Status Monitor window.
	This button does not turn off the monitoring element of the application which continues to run in the background. To stop monitoring, right-click on the application icon in the Windows task bar and choose Exit.
Help button	Opens the Status Monitor online help file.

Advanced Options Dialog

The Advanced Options dialog allows you to configure how the Status Monitor responds to printer errors and warnings, and to configure additional options.



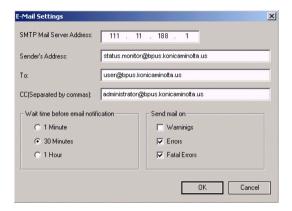
Item	Description
Automatically run Status Monitor at Startup	Enabling (checking) this check box configures the application to begin monitoring printer status as soon as the PC is turned on.
Enable video aided help	Enabling (checking) this check box allows recovery videos to be displayed from the Status tab.

Item	Description
Blink icon for errors/ warnings	Enabling (checking) this check box configures the application to make the Status Monitor icon blink whenever a status message is received.
Enable polling	Checking this box causes the application to monitor and respond to messages received from all printers. When this option is not checked, the application responds only to the messages from the printer configured in Windows as the default printer.
Default printer	This drop-down list box is configurable when Polling is enabled and allows you to specify which printer is to be treated as the default printer. When the Status Monitor window is opened, the status area at the top of the Status tab displays the status of the default printer. If the default printer is not a supported printer, the application uses the first printer it finds in the list that is supported as the default printer.
Notify by email for errors/warnings	Enabling (checking) this check box activates the email notification feature and the email Settings button to allow you to configure the email settings for automatic messages. When email is enabled, status messages from the monitored printer automatically send an email message to the designated recipient. See the Email Setting Dialog for more information.
Email settings button	Opens the Email Settings dialog, which allows you to configure the email account and sending options.
Order supplies from	This field allows you to specify the URL that is opened whenever the Order Supplies button on the Status tab is clicked. The default value is the URL for the Q-SHOP website, which offers online shopping for approved KONICA MINOLTA printer supplies.
OK button	Saves any changes to the configuration and closes the Advanced Options dialog.

Item	Description
Cancel button	Ignores any changes to the configuration of this dialog and closes the Advanced Options dialog.
Defaults button	Restores the configuration settings to the default values. (Default values are the values that are set when the application is first installed on the PC).

E-Mail Settings Dialog

The E-Mail Settings dialog box allows you to configure the email settings to be used whenever the Notify by email for errors/ warnings option is enabled on the **Advanced Options** dialog.



Item	Description
SMTP Mail Server Address	This field is provided for you to identify the IP address of your SMTP Mail Server.
Sender's Address	This field allows you to enter an email address that appears as the source of the automatically generated email message. If several workstations are assigned to monitor different printers in your organization, you can use this field to help identify the physical location of the originating message.
То	This field identifies who receives the automatically generated message when a status message is received by the Status Monitor.
СС	This field allows you to send the automatically generated message to additional email recipients. This option can be helpful if the To recipient is out of the office or unable to receive email.

Item	Description
Wait time before email notification	These option settings allow you to designate a delay period between a status alert and generation of an email about the alert. This setting can help minimize the number of email messages that are generated by allowing time for printer operators to address common alerts such as media out or toner low messages. Select from any of the available options.
Send mail on	Determines which type of status messages will cause the application to generate and send an email message. There are three types of status messages recognized by the Status Monitor: Warnings—indicate a warning condition such as "Toner Low." No immediate user intervention is required.
	Errors —indicate that user intervention is required before the printer can continue printing. For example, "Toner out."
	Fatal Errors —indicate that the printer has experienced an error that prevents it from printing. Fatal Errors usually indicate that the printer requires service.
OK button	Saves any configuration changes and closes the E-Mail Settings dialog.
Cancel button	Ignores any changes made to the configuration of this dialog and closes the E-Mail Settings dialog.

Consumable Tab

The consumable tab displays the status of consumables of the default printer. It also allows you to specify the level of remaining consumable life that will cause the application to send an email notification message.



The Notify by email for errors/warnings option on the Advanced Options dialog must be enabled to allow automatic email message generation by the application.

Item	Description
	The consumable tab displays status information about toner, OPC drum, and waste toner.

Item	Description
Status bar	The status bar for each listed consumable item displays the percentage of consumable life remaining. For toner and the OPC drum, when the bar is green and fills the entire space of the field, the toner is full or the OPC has a full life available. (A full green bar for the waste toner indicates the waste toner bottle is empty). As the bar moves to the left, the display turns yellow, indicating that the consumable life is lessening. When the amount reaches the threshold level set in the "Notify" option, the display turns red.
Notify when supplies reach	This text box contains the trigger percentage value that causes the application to send a status message email. When a consumable item equals the value in this field, the automatic email message feature is activated and a message is sent to the individual(s) configured as recipient(s).
Order Supplies button	This button, configurable through the Advanced Options dialog, opens the designated URL for ordering printer supplies.
Refresh button	When selected, this button causes the application to retrieve the latest status condition of the printer's consumable items and then updates the status bars on this tab to display the current conditions.
Close button	Closes the Status Monitor window.
Help button	Opens the Status Monitor online help file.

Recognizing a Printer Alert

When the printer issues an alert, one or more of the following notification actions occur:

■ The application icon in the Windows Task Bar changes colors. The application icon changes colors to indicate what type of alert the printer has issued. This effect occurs regardless of optional configuration settings.

Task Bar Icon Color	Indicates
	Green indicates that the printer is operating normally.
	Yellow indicates that a WARNING condition exists. No immediate user intervention is required. Warnings indicate a condition such as "Toner Low."
	Orange indicates that user intervention is required before the printer can continue printing. This is an ERROR condition. An example of an Error condition is "Toner out."
	Red indicates that the printer has experienced an error that prevents it from continuing printing. This is a FATAL ERROR condition. Fatal Errors usually indicate that the printer requires service.

- The application icon begins blinking. This effect is optional and is configured by the Blink Icon for Errors/Warnings option on the Advanced Options dialog.
- Email notification of the alert is automatically sent following the configured delay time. This action is optional and is configured by the Notify by Email for Errors/Warnings option on the Advanced Options dialog and the options located on the Email Settings dialog.

Recovery from a Printer Alert

After you've received notification of an alert (see above, "Recognizing a Printer Alert"), perform these steps to recover from the problem.

- 1 Double-click on the Status Monitor icon in the Windows Task Bar. The Status Monitor application window opens.
- 2 If not already selected, select the Status tab.
- 3 Identify the printer that has issued an alert.

The printer identity is displayed at the top of the Status Message Area (located near the top of the tab).

- 4 Review the status message.
 - The status message is displayed in the Status Message Area (located near the top of the tab). The status message appearing on the Status tab is identical to the message displayed on the printer control panel.
- 5 Review the Recovery Instructions, and if present, review the Recovery Video Help.
 - Recovery instructions are prepared specifically for each alert that your printer can issue. However, due to the nature of some alerts, not all alerts have a corresponding video available. If there is no video available or if the Enable video aided help option is disabled (unchecked) on the Advanced Options dialog, the KONICA MINOLTA logo is displayed.
- 6 Perform the actions described by the instructions and illustrated by the video to clear the printer alert status.
 - The application icon in the Windows Task Bar changes to a green color to indicate normal printer status.
- 7 Select the Close button at the bottom of the Status Monitor window.

 The Status Monitor application window is closed and the application continues to run in the background.

Closing the Application

To close the Status Monitor application and to halt all monitoring of printer status messages, right-click on the Status Monitor icon in the Windows task bar and then choose Exit.



Download Manager 3 4

Installing the Download Manager for Windows

The Download Manager makes it easy to add ICC (International Color Consortium) profiles, overlays, and fonts to your printer's hard drive. You can also use the Download Manager to install fonts to your printer's memory (RAM and Flash ROM memory). This chapter describes how to install and use the Download Manager application.

Requirements

- PC with Windows XP/2000/NT4/Me/98
- magicolor 2350 printer



To download ICC profiles or overlays using the Download Manager, the printer must have an installed hard disk.

■ KONICA MINOLTA PostScript printer driver with the port set to the target printer



KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from our website at printer konicaminolta net/support.



Installing from the CD-ROM

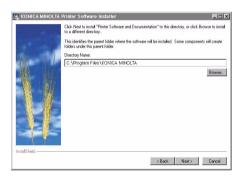
The Software Utilities CD-ROM has an automatic installer program.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

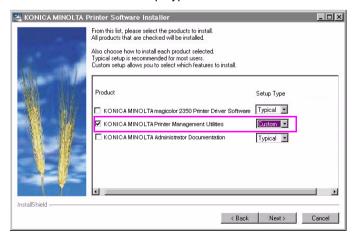
- Select the language, select **OK**, and then select Next from the Introduction dialog.
- 2 From the Main Menu dialog, select Additional Software.
- 3 After reviewing and accepting the license agreement, select **Next**.



- 4 Choose the installation directory (or use the default directory setting).
- 5 Select Next.



6 Choose (check) KONICA MINOLTA Printer Management Utilities and select Custom from the Setup Type list.



- 7 Select Next.
- 8 From the Printer Management Utilities dialog, select (check) the Download Manager Utility checkbox. Make sure all other options are not checked and then select Next.
- 9 Follow the onscreen instructions to complete the installation.
- 10 When the Information message box appears. select OK.



11 After the installation is complete, remove the Software Utilities CD-ROM from your CD-ROM drive and store it in a safe place.



Downloading a Printer Utility from the Internet

Our website (printer.konicaminolta.net/support) contains the latest printer utilities. To download a printer utility, follow the instructions below.

- $oldsymbol{1}$ Using your Internet Browser, go to the Support page for your printer and choose the platform and utility from the Drivers, PPDs and Utilities listing.
- 2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.
- 3 After the download is complete, use Windows Explorer to open the new directory created in step 2.
- 4 Double-click on the mgdl.exe file that was downloaded.





The mqdl.exe is a is a self-extracting compressed file that allows you to uncompress the installation files.

5 After the files are uncompressed, close the extract utility, and then continue with the installation steps described in the next section, beginning with step 2.

Section

6 Open the directory containing the uncompressed installation files and then continue with the installation steps described in the next section. beginning with step 2.

Manual Installation

If you don't want to use the Software Utilities CD-ROM auto-installer or if vou've downloaded a newer version of the Download Manager for installation. use the following instructions to manually install the application.



If you've downloaded the Download Manager from the Internet, browse to the directory containing the extracted download files and begin with step 2.

- 1 Insert the Software Utilities CD-ROM into your CD-ROM drive. If the auto-installer opens, close it. Then using Windows Explorer, select your CD-ROM drive and browse to the folder &:\utilities\dlmanager (where & is the letter of your CD-ROM drive).
- 2 Double-click on the setup.exe icon. The Setup program automatically detects the Windows platform, and opens the Install Wizard. Follow the directions on the screen.
- 3 When the Information message box appears. select OK.
- **4** After the installation is complete, remove the Software Utilities





CD-ROM from your CD-ROM drive and store it in a safe place.

Using the Download Manager

The Download Manager application can be opened from within the printer driver or independently.

Opening the Download Manager from the Printer Driver

A link to the Download Manager is provided in the property windows of the magicolor 2350 printer driver.

Windows XP/2000/NT

- 1 From the Start menu, choose **Settings/Printers** and locate the printer icon.
- 2 Right-click on the printer icon and choose **Printing Preferences**.
- 3 Choose the Overlay tab, and then select the Download Manager button.

 The Download Manager application opens.

See the Download Manager online help for information about using the application's controls and features.

Windows Me & 98

- 1 From the Start menu, choose **Settings/Printers** and locate the printer icon.
- 2 Right-click on the printer icon.
- 3 Choose Properties.
- 4 Choose the Details tab, and then select **Setup**.
- **5** Choose the Overlay tab, and then select the Download Manager button.

The Download Manager application opens.

See the Download Manager online help for information about using the application's controls and features.



PageScope 3.5

PageScope Net Care Overview

PageScope Net Care is a utility designed for administrators that want the ability to manage all network printers from a single location. Management tools include printer status checks, printer configuration, and job accounting. This flexible tool can also be used to manage related equipment, such as copiers, that are linked to the network.

PageScope Net Care is available for Windows, Macintosh, and UNIX platforms.

This chapter explains how to install PageScope Net Care, how to start the server and the client, how to log in, and how to update your installed version of PageScope Net Care. For details on how to use PageScope Net Care to manage printers and other equipment on your network, see the *PageScope Net Care Quick Guide* on the CD-ROM that came with your printer or on our website at printer.konicaminolta.net/support.

System Requirements

Network

Local Area Network Type	Protocol	
Ethernet (10/100BaseT)	TCP/IP	
Token Ring (4/16 Mbps)		

Server

Operating System	Recommended Hardware	
Windows XP/2000/NT4/Me & 98	Pentium 300 with 128MB RAM	
Solaris 8/7/2.6	SPARCstation with 128MB	
Linux (x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	Pentium 300 with 128MB RAM	

Client

Java Style View				
Operating System	Web Browser	Java Environment		
Windows XP*/2000*/NT4/ Me & 98*	■ Microsoft Internet Explorer 4.x or later	Java Plug-in 1.3 or higher		
	■ Netscape Communicator 4.x or higher			
	■ Netscape 6.x or higher			
Solaris 8/7/2.6 Linux(x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	Netscape Communicator 4.x or higherNetscape 6.x or higher			
*Do not downgrade from the Web browser that comes installed with your				

operating system.

HTML Style View				
Operating System	Web Browser			
Windows XP*/2000*/NT4/ Me & 98*	 Microsoft Internet Explorer 4.x or later (4.5 or higher for Macintosh OS) 			
Macintosh OSX*/9	■ Netscape Communicator 4.x or higher			
	■ Netscape 6.x or higher			
Solaris 8/7/2.6	■ Netscape Communicator 4.x or higher			
Linux(x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	■ Netscape 6.x or higher			
*Do not downgrade from the Web browser that comes installed with your				

operating system.

Installing the PageScope Net Care Server

Windows XP/2000/NT4/Me & 98

- 1 From the Utilities/Pagescope Net Care directory of the Software Utilities CD-ROM, double click the pncsetup.exe file. A self-extracting file is also available in the Support & Drivers section of our website at printer.konicaminolta.net/support.
- 2 Follow the instructions that appear on the screen.

Installing the PageScope Net Care Server

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Section

Solaris/Linux



The server is started as a daemon process, so use root privileges to perform the operations and install the package in the root partition.

- 1 Uncompress the archive PageScope Net Care.tar.gz. This creates a directory called PageScope Net Care.
- 2 Open the PageScope_Net_Care directory and run the script install.sh.



If you use SuSE Linux, run the script install.suse.sh, which is also located in the PageScope directory.

Starting the Server

Windows XP

- 1 Click Start/Control Panel.
- 2 Click the Administrative Tools icon.

Windows XP Professional: First click the Performance and Maintenance icon, then the Administrative Tools icon.

Windows XP Home: The Administrative Tools icon is on the Control Panel.

- 3 Double-click the Services icon.
- 4 Select PageScope Net Care from the list of services.
- 5 Click Start the service.

Windows 2000

- 1 Click Start/Settings/Control Panel.
- 2 Open the Administrative Tools folder.
- 3 Double click the Services icon.
- 4 Select PageScope Net Care Service from the list of services.
- 5 Click **Start** on the Action menu.

Windows NT4

- 1 Click Start/Settings/Control Panel.
- 2 Double click the Services icon.

- 3 Select PageScope Net Care Service from the list of services.
- 4 Click Start

Windows Me & 98

To start the server, click Start/Programs/KONICA MINOLTA PageScope Net Care/Start Server or double-click the start pagescope bat file in the PageScope Net Care home directory.



During the installation process, you can configure the server to start automatically whenever the system boots up.

Solaris/Linux

PageScope Net Care starts automatically on Solaris and Linux systems once it is installed. You can also start it manually, or shut it down momentarily and restart it.



Use root privileges to perform these operations.

Solaris systems

To start PageScope Net Care manually, type:

#/etc/init.d/nmu start

To stop momentarily and restart, type:

#/etc/init.d/nmu restart

Linux systems

To start PageScope manually, type:

#/etc/rc.d/init.d/nmu start

To stop momentarily and restart, type:

#/etc/rc.d/init.d/nmu restart

Starting the Client

1 Open a browser that includes the required Java plug-in.

2 Type the following URL:

http://SERVER NAME:PORT NUMBER/

In place of SERVER NAME, type the IP address of the host that is running the PageScope Net Care server.

Logging In

On the main Login screen, you can set your preferences for:

- User privileges
- Java or HTML view style
- Language

User Privileges

Login	Password	Privileges
Guest	Not required	View status and settings of network devices
Registered User	Required Administrator assigns name and password to registered users	Manage and change the configuration of network devices, but not the PageScope Net Care server
Administrator	Required The default password is admin.	Configure device management settings and PageScope Net Care settings.

View Style Options

You can select from four view styles:

- Java-Metal
- Java-Motif
- Java-System
- HTMI



HTML is recommended for faster performance on low-end servers.

If you select Java mode but do not have the required plug-in, you are asked if you want to install one. If you agree, the download process depends on your web browser:

- Internet Explorer. The Java plug-in is downloaded and installed automatically from the Internet.
- Netscape Communicator. The browser accesses a Java plug-in download site, but you must perform the download and installation manually.

Language

You can set the language in which PageScope Net Care text is displayed. Choices are English, German, French, Italian, Dutch, Danish, Spanish, Japanese, and Czech.

Completing Your Login

Once you have set the user privileges, view style, and language options the way you want them, click the Login button to select your choices and begin using PageScope Net Care.



For more information about using PageScope Net Care, see the PageScope Net Care Quick Guide on the Software Utilities CD-ROM that came with your printer.

Starting the Server Console Tool

The Server Console Tool is used to perform these operations in PageScope Net Care:

- Change the PageScope Net Care Server (HTTP server) port
- Initialize, backup, restore, or upgrade the database
- Plug in new device modules
- Plug in new language modules
- Update PageScope Net Care

Windows Platform

To start the Server Console Tool in any Windows platform, click Start/ Programs/KONICA MINOLTA/PageScope Net Care/Console Tool.

Starting the Server Console Tool

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Solaris/Linux



Use root privileges to perform these operations.

To start the Server Console Tool, type.

■ Solaris

#/etc/init.d/nmu console

■ Linux

#/etc/rc.d/init.d/nmu console

Shutting Down the PageScope Net Care Server

Windows XP

- 1 Click Start/Control Panel.
- 2 Click the Administrative Tools icon.

Windows XP Professional: First click the Performance and Maintenance icon, then the Administrative Tools icon.

Windows XP Home: The Administrative Tools icon is on the Control Panel.

- 3 Double-click the **Services** icon.
- 4 Select PageScope Net Care.
- 5 Click Stop the service.

Windows 2000

- 1 Click Start/Settings/Control Panel.
- 2 Open the Administrative Tools folder.
- 3 Double-click the Services icon.
- 4 Select PageScope Net Care Service.
- 5 On the Action menu, select **Stop**.

Windows NT4

- 1 Click Start/Settings/Control Panel.
- 2 Double-click the Services icon.
- Select PageScope Net Care Service.

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Shutting Down the PageScope Net Care Server

- 4 Click the **Stop** button.
- 5 Click **Yes** on the confirmation dialog box.

Windows Me & 98

- 1 Right click the PageScope Net Care icon in the task tray.
- Click the Shut Down button on the confirmation window.

Solaris/Linux



Use root privileges to perform these operations.

Shut down the PageScope server by typing.

- Solaris
 - #/etc/init.d/nmu stop
- Linux

#/etc/rc.d/init.d/nmu stop

Upgrading PageScope Net Care



If a printer on the server is upgraded, delete it from List Manager and then let List Manager find and register it again or add it to the list again using Add Printer. This updates the information about the printer.

Upgrade Notes

You can upgrade from PageScope 3.6 or later, but not from earlier versions.

Upgrades work best if performed at the same time as the installation. Upgrading after installation causes all PageScope Net Care 4.0 data to be replaced by old PageScope data.

Shut down the PageScope Net Care server before upgrading it.

All Platforms

- 1 If you are running an old version of PageScope, shut down the server. Specify a different directory for PageScope Net Care than the one where the old version of PageScope is installed.
- 2 If PageScope Net Care is running, shut it down.

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- 3 Start the Server Console Tool.
- 4 Click the **Database** tab.
- 5 Select Database Upgrade.
- 6 Click **Browse** and select the PageScope root directory.

Usually PageScope is stored in Program Files/PageScope.

- 7 Click Open.
- 8 Confirm the page and click **OK**.

The next time you start PageScope Net Care, the old PageScope Server data is transferred to the PageScope Net Care server.

9 Uninstall the old version of PageScope.

Uninstalling PageScope Net Care

Windows XP

- 1 Shut down the PageScope Net Care server.
- 2 Click Start/Control Panel.
- 3 Click the Add/Remove programs icon.

A dialog box appears.

- 4 On the Add/Remove Programs dialog box, select PageScope Net Care in the list of programs.
- 5 Click the Change/Remove button.
- 6 Follow the instructions that appear on the screen.

Windows 2000/NT4

- 1 Shut down the PageScope Net Care server.
- 2 Click Start/Settings/Control Panel.
- 3 Double-click the Add/Remove programs icon.

A dialog box appears.

- 4 On the Add/Remove Programs dialog box, select PageScope Net Care in the list of programs.
 - Windows 2000. Click the Change/Remove button.
 - Windows NT4. Click the Add/Remove button.
- 5 Follow the instructions that appear on the screen.

Windows Me & 98

- Shut down the PageScope Net Care server.
- 2 Click Start/Settings/Control Panel.
- 3 Double-click the Add/Remove programs icon.

A dialog box appears.

- 4 On the Add/Remove Programs dialog box, select PageScope Net Care in the list of programs.
- 5 Click the Add/Remove button.
- 6 Follow the instructions that appear on the screen.

Solaris/Linux



Use root privileges to perform these operations.

- 1 Shut down the PageScope Net Care server by typing.
 - Solaris

■ Linux

#/etc/rc.d/init.d/nmu stop

- 2 Run the uninstall.sh script in the PageScope_Net_Care directory.
- 3 Delete the PageScope_Net_Care directory by typing:





In this Section...

- Chapter 4.1 Color Basics
 An overview of the color printing fundamentals used by your printer.
- Chapter 4.2 Color Profiles An introduction to the proper use of color profiles and instructions for installing color profiles for your printer.

Chapter Location

Chapter	Title	Begins on page
4.1	Color Basics	163
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Color Basics

Color Management

KONICA MINOLTA technology automatically optimizes color output to produce professional quality, colorized documents without the use of sophisticated manual optimization techniques. This chapter starts with a brief introduction about color in general, and how your color laser printer processes color.

Color is a visual perception involving:

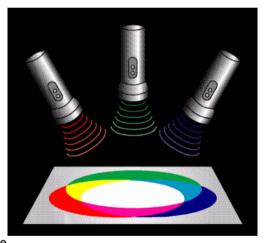
- A light source.
- An object that absorbs, reflects, or transmits the light of the light source.
- A detector, which receives and interprets the reflected light from the object.

A distinction must be made between light radiated by a source and light reflected from an object. Although closely related, they represent two different fundamental principles.

Additive Colors

Science has proved that any color can be produced with three colors: red. green, and blue (the illustration demonstrates this with the help of three flashlights). These are called the primary additive colors.

By mixing these colors in different combinations at various intensities, all visible colors can be simulated. Light sources radiate light of various percentages of red, green, and blue.





White light is a mix of 100% red, 100% green, and 100% blue.

Subtractive Colors

If we direct white light onto an object, such as a red apple, the white light seems to be modified in such a way that only the red part is reflected to our eyes. This means that



the apple must have absorbed the green and blue portions of the white light. This is why we say that the apple looks red. Further analysis shows that the object may be considered as having certain pigments responsible for the absorption. These pigments are cyan, magenta, and yellow (CMY) in a particular ratio. These are called the primary subtractive colors (subtracting or absorbing portions of red, green, and blue from white light).

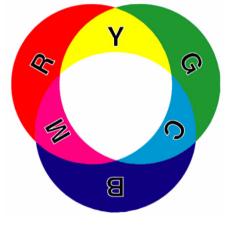
The relationship between additive colors and subtractive colors may be explained by using the result obtained with the flashlight experiment on the previous page. Notice that for light sources (= light-emitting objects) the following applies:

- Red light mixed with green light produces yellow light
- Green light mixed with blue light produces cyan light
- Blue light mixed with red light produces magenta light

The opposite colors on this 'wheel' are complementary, which means that for light-reflecting objects, the following applies:

- Red light is absorbed by cyan pigments
- Green light is absorbed by magenta pigments
- Blue light is absorbed by yellow pigments

In the case of our red apple, the pigments responsible for the absorption must be magenta (absorbing the green light) and yellow (absorbing the blue light), while the red light is not absorbed and is reflected.

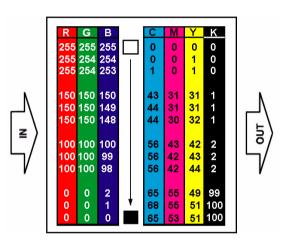




Mixing equal amounts of cyan, magenta, and yellow pigments produces black pigment (because all the red. green, and blue portions of white light are absorbed). Black, therefore, is the absence of color.

A color printer uses the subtractive principle, which means that when we look at a color printout, the pigments in the toners absorb portions of the white light reflected from the white substrate. A color laser printer typically ships with four toner cartridges; cvan, magenta, vellow and black, Mixing equal amounts of cyan, magenta, and yellow produces black. However, since color toners are never 100% pure, black toner is added to provide pure black. Moreover. black toner provides a more economical way to print in black only, such as for text.

When we talk about printing colors, we actually talk about matching a design created on a device like a monitor, using the additive principle and printing these colors on a color printer. using the subtractive principle. To print correct colors we need a module capable of translating the RGB colors of the monitor into CMY(K) colors used by color laser



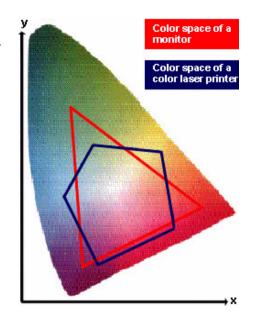
printers. This translation is device dependent. The illustration shows such a (software) module where certain RGB values (from a monitor) are converted into CMYK values (for a color laser printer).

There are many devices capable of producing colors, like a monitor, a color laser printer, a digital camera, and a scanner. To avoid a multitude of translation modules, we first need to define a standard for colors.

Since color is defined as how the human eye perceives this, we introduce the CIE LAB color model (also called color space, the organization of all colors of the visible spectrum in a device independent model). CIE is an acronym for Commission Internationale d'Eclairage. Based on human perception, the CIE LAB color model is most commonly used.

Color Model

A monitor and a color printer have limited color ranges compared to the range of colors visible to the human eve. In the illustration we have identified the range of colors that a monitor is able to produce and the range of colors a color laser printer may produce. This range of colors is called a gamut and is device dependent. To print identical colors on a color laser printer as the design looks on the monitor, we first need to translate the profile of the monitor to a standard color space and then translate this to a color laser printer profile. The standard color space most commonly used for these translations is CIE LAB.



The CIE LAB color space is based on the human perception of color. Looking closely at the CIE LAB color model, we notice that the gamuts for both devices are different. This means that the monitor may produce certain colors we cannot accurately print on a color laser printer. This is called the out-of-gamut range. This phenomenon is solely caused by the physical properties of such a device. Therefore, the translation module also needs to correct this out-of-gamut range or translate as close as possible.



Color Profiles and Pantone Tables

Color Profiles

In the previous chapter, we considered the range of colors any device can reproduce. Colors which a device can reproduce are said to be in the device's gamut; those it can't reproduce are outside the gamut. For example, a monitor can't reproduce all the colors in nature, and a color printer can't reproduce as many colors as a monitor can — so some colors you see on the monitor are outside the printer's gamut.

ICC Profiles

International Color Consortium (ICC) profiles have been developed to resolve the discrepancy between the color gamuts of various devices. Most color device manufacturers comply with the ICC profile specifications.

This means that a device, such as a monitor or digital camera, ships with a specific profile to convert its gamut into the CIE LAB model. A color-reproducing device (such as a color laser printer) should ship with a profile that converts these CIE LAB colors to its reproduction method. Each color producing or reproducing device has its own ICC profile that should be provided by its manufacturer.

There are two ways to incorporate ICC profiles into what is called a Color Management Module (CMM):

- 1 On the workstation. The disadvantage is that not all operating systems support CMM (for example, Windows 95). Due to this, some software manufacturers implemented CMM within their software (for example, CorelDRAW 10, PageMaker 6.5, and PhotoShop 7). This may lead to confusion and wrong implementations.
- In the printer. This is the easiest way since all color processes are taken care of inside the printer. The printer converts the color data received. KONICA MINOLTA color printers are equipped with an internal Color Management Module.

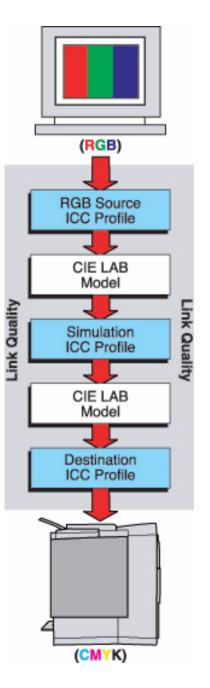
The illustration shows the internal Color Management Module of a KONICA MINOLTA color laser printer. First, the RGB Source ICC profile translates RGB values of the color producing device (in this case a monitor) to the standard CIE LAB color model. Next. those CIE LAB model values are translated into a Simulation profile, if the user chooses to use one. If a Simulation profile is used, the color data is once again translated to the standard CIE LAB color model. Finally, the KONICA MINOLTA Output or Destination profile converts the translated data into CMYK to be sent to the print engine.

Several RGB Source, Simulation, and Destination ICC profiles are integrated into the Color Management Module of KONICA MINOLTA color laser printers. You may also download other Source, Simulation and Destination ICC profiles.

A primary function of the internal Color Management Module is to map out-of-gamut colors to the closest in-gamut color. This mapping or "linking" process requires internal calculation. KONICA MINOLTA color laser printers offer a Link Quality selection (high, medium and low). A low link quality produces the fastest processing, while a high link quality produces the best quality but may require more processing time.

Downloading ICC Profiles

The magicolor 2350 printer includes two destination profiles, representing the two resolutions (Standard and High) that are used for ICC color management. In addition to the profiles implemented on the printer,



Color Profiles

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custom profiles can be downloaded for RGB Source, Simulation, and Destination profiles.

Creating a Custom Destination Profile

1 Create an ICC output profile that describes the new color space of your magicolor 2350 at the desired resolution.

A

Attention

Set the maximum toner limit to 250% in the separations setup of your profiling software. Setting the limit higher than 250% can damage the fuser and produce undesirable image artifacts.

2Name the profile.

Windows—Use any naming convention, as long as it follows the 8.3 filename/extension standard.

Macintosh—Name your destination profile custdes1.icc, custdes2.icc, or custdest3.icc if you intend to store the profile on your printer's hard disk. If you plan to store the profile in the printer's Flash memory, name your destination profile custdes4.icc, custdes5.icc. Of custdes6.icc.

3 Download the file to the hard disk using either FTP or the Download Manager.

Preparing to Download RGB Source and Simulation Profiles

1 Name the profile.

Windows—Use any naming convention, as long as it follows the 8.3 filename/extension standard.

Macintosh-

For RGB Source profiles, name your profile <code>custrgb1.icc</code>, <code>custrgb2.icc</code>, or <code>custrgb3.icc</code> if you intend to store the profile on your printer's hard disk. If you plan to store the profile in the printer's Flash memory, name your RGB Source profile <code>custrgb4.icc</code>, <code>custrgb5.icc</code>, or <code>custrgb6.icc</code>.

For Simulation profiles, name your profile custsim1.icc, custsim2.icc, or custsim3.icc if you intend to store the profile on your printer's hard disk. If you plan to store the profile in the printer's Flash memory, name your Simulation profile custsim4.icc,custsim5.icc, or custsim6.icc

2 Download the file to the printer using either FTP or the Download Manager.



You can download profiles to the printer's Flash memory or hard disk using FTP. The Download Manager downloads profiles only to the printer's hard disk.

Downloading Profiles Using FTP Client



You must have a specified IP address for your printer and your host system.

- Launch the FTP Client.
- Set the FTP Client for binary.
- Select the /dsk directory (cd /dsk) to download your profile to the hard disk. To download to the printer's Flash, select the /tffs0/user/ps/color/ profiles directory.

Refer to the documentation for your FTP Client for download commands and procedures.

4 After the file has been downloaded, turn the printer off and on again to register the new profile.

Downloading Profiles Using Download Manager



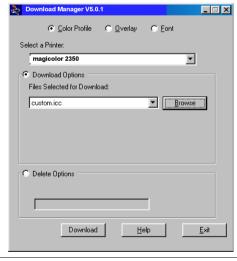
Downloading ICC profiles to your printer using the Download Manager requires a hard disk (an internal hard disk is recommended) and a TCP/IP network connection between your workstation and your printer.

1 Launch the Download Manager (Start/Programs/ Download Manager.



You can also launch the Download Manager from the printer driver

- 2 Select Color Profile as the type of file to be downloaded.
- 3 Specify your magicolor 2350 printer.



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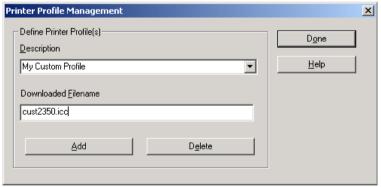
- 4 Under Download Options, use the Browse button to locate the file to be downloaded.
- 5 Choose Download to send the new profile to the printer.
- 6 After the file has been downloaded, turn the printer off and on again to register the new profile.

Working with Downloaded Profiles—Windows

1 Verify that the download was successful.

Use PageScope Light or the printer control panel (Print Menu/Directory List/Yes) to print a directory list of files in printer storage. The new profile should be included in the directory /dsk (for downloads to the hard disk) or in the directory /tffs0/user/ps/color/profiles (for downloads to Flash).

- 2 In the printer driver, choose Printer Properties/Features/Color Options/ Configure ICC Color.
- 3 Select Manage Profiles under the appropriate profile: source, simulation or destination.
- 4 Type the description you want to appear in the drop-down menu.
- 5 Type the filename of the downloaded profile as it appears in the directory list, but omitting the path and location of the file.



- 6 Select Add and then Done.
- Set the RGB Sources, Simulation, and Destination profiles you want to use.

The profile that you downloaded to the printer should now appear in the pull-down menu as the description entered in the Manage Profiles window



The Automatic setting for ICC Destination uses the destination profile on the printer's ROM.

Working with Downloaded Profiles—Macintosh

1 Verify that the download was successful.

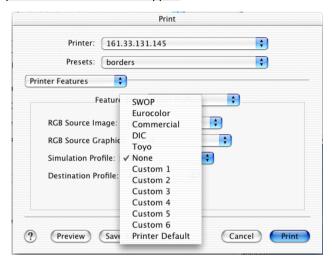
Use the printer control panel (Print Menu/Directory List/Yes) to print a directory list of files in printer storage. The new profile should be included in the directory /dsk (for downloads to the hard disk) or in the directory /tffs0/user/ps/color/profiles (for downloads to Flash). The profile filenames are listed below.

- RGB Source—custrgb1.icc, custrgb2.icc, custrgb3.icc, custrgb4.icc, custrgb5.icc, and custrgb6.icc. The appropriate file is automatically used when Custom 1, Custom 2, Custom 3, Custom 4, Custom 5, or Custom 6 setting for RGB Source is selected from the PPD.
- Simulation—custsim1.icc, custsim2.icc, custsim3.icc, custsim4.icc, custsim5.icc, and custsim6.icc. The appropriate file is automatically used when Custom 1, Custom 2, Custom 3, Custom 4, Custom 5, or Custom 6 setting for Simulation is selected from the PPD.
- Destination—custdes1.icc, custdes2.icc, custdes3.ic, custdest4.icc, custdes5.icc, and custdes6.icc. The appropriate file is automatically used when Custom 1, Custom 2, Custom 3, Custom 4, Custom 5, or Custom 6 setting for Destination is selected from the PPD.

The Automatic setting for ICC Destination uses the destination profile on the printer's ROM.



Note to Macintosh OS 9 users—Custom profiles stored in the printer's Flash memory (Custom 4, 5, 6) can only be accessed via the OS X PPD. This PPD is not installed on an OS 9 system by default. The OS X PPD will function properly on an OS 9 system and can be accessed from your Software Utilities CD-ROM or downloaded from printer.konicaminolta.net/support.



Color Rendering Dictionaries

In the preceding text we explained how color laser printers process color by means of ICC profiles. There is, however, another method called **Color** Rendering Dictionary (CRD) color matching. Before ICC profiles were introduced, the CRD color matching was the standard color processing method, but it managed only RGB color.

The major difference is that CRDs use *fixed* dictionaries (translation tables), while ICC profiles use flexible profiles for the input and output devices involved.

Check the documentation for your software application to see whether it specifies ICC or CRD color matching or whether you have a choice. You can also check Color Notes in the Support & Drivers areas of our website at printer.konicaminolta.net/support for tips on color matching with particular software applications.

Because color printers have gamuts different than other color devices (such as your monitor), it is necessary to tell the printer how to simulate colors out of its gamut.

The CRD contains three different sections that may be independently selected, each representing a specific desired output. By clicking on the

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Configure button, you may select the required CRDs for text, graphics, and images contained in your document.

Three typical selections for images, text and graphics are:

- Business—This CRD mostly closely matches the intensity of the colors on the monitor. Use it for printing presentation graphics (such as overhead transparencies), spot color, and text.
- Photographic—This CRD was developed to optimize the quality of photographic images. It adjusts all colors (both in and out of gamut) to maintain the proportional relationship among the colors.
- Colorimetric—Use this CRD for printing spot colors, such as logos and single solid colors where hue accuracy is crucial. With this CRD, in-gamut colors are not changed, and out-of-gamut colors are mapped to the closest in-gamut color.

Installing Pantone Tables

Pantone tables are available on the *Software Utilities* CD-ROM or on our website at printer.konicaminolta.net/support.

Downloading Pantone Tables from the Internet

Windows Operating Systems

- 1 Use your Internet browser to access our website at printer.konicaminolta.net/support.
- 2 In the Color Printers list box, select your printer from the drop-down list.
- 3 In the Drivers, PPDs & Utilities section, choose the appropriate Windows platform.
- 4 Locate and download the Pantone file.

PANTONE Color palette files are compressed and have an "exe" file name extension. You must decompress these files before you can use them.

- 5 Move the downloaded file into a new directory.
 - It may be helpful to name the new directory to identify the printer model and the resolution set. For example,

mc23506 (magicolor 2350, 600 dpi set)

- 6 Double-click on the file that you downloaded.
 - Self-extracting compressed files will automatically decompress in the directory you have created.

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See the information contained in the decompressed files for additional instructions on using Pantone tables.

Macintosh Operating Systems

- 1 Use your Internet browser to access <u>printer.konicaminolta.net/support</u>.
- 2 In the Color Printers list box, select your printer from the drop-down list.
- 3 In the Drivers, PPDs & Utilities section, choose the Macintosh platform.
- 4 Locate and download the Pantone file.

The downloaded file contains compressed files that need to be extracted, or "unstuffed." prior to use.

- 5 Double-click the .SEA file to uncompress it.
 - Follow the on-screen instructions to extract the compressed files.
- When prompted to select a folder to UnStuff as:, select a folder location and name the folder (for example, PANTONE).
- 7 Select Save.

The Pantone tables, readme, and other files are extracted.

- 8 Select Quit after the files are unstuffed.
- 9 See the information contained in the extracted files for additional instructions on using Pantone tables.

Downloading Pantone Tables from the CD-ROM

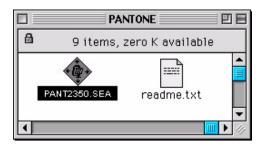
Windows

- 1 Insert the Software Utilities CD-ROM.
- 2 Open the Utilities/Color/Pantone directory on the CD to locate and copy the Pantone files.

Macintosh

- 1 Insert the Software Utilities CD-ROM.
- 2 Double-click the CD-ROM icon when it appears on the desktop.

- 3 Double-click on the Explore this CD icon.
- 4 Open the Color and the printer folder for your printer.
- 5 Open the Pantone folder.
- 6 Double-click the .SEA file to uncompress it.



Follow the on-screen instructions to extract the compressed files.

- When prompted to select a folder to UnStuff as:, select a folder location and name the folder (for example, PANTONE).
- 8 Select Save.

The installer, readme, and other files are extracted.

- 9 Select Quit after the files are unstuffed.
- 10 Remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.
- 11 See the information contained in the extracted files for additional instructions on using Pantone tables.





Features & Configuration

In this Section...

■ Chapter 5.1 — Inside Your Printer

Information about what goes on inside of your printer's operating system and hardware when a print job is received. Includes information on parameter settings that allow you to optimize your printer's performance.

■ Chapter 5.2 —Printer Features

Describes many of the key features that your printer supports.

■ Chapter 5.3 — Printer Configuration

Contains the methods and details of printer configuration. Features a section about the printer's internal web page and how you can access it using PageScope Light, a menu map, and instructions for accessing the printer configuration controls included with the printer driver.

■ Chapter 5.4 — Accounting

Describes how to retrieve and interpret accounting information from a printer that has a hard disk installed.

Chapter Location

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5.1	Inside Your Printer	183
5.2	Printer Features	191
5.3	Printer Configuration	203
5.4	Accounting	273

Inside Your 5 - 1

Inside Your Printer

Your printer's Operating System software resides inside the printer and is referred to as printer firmware. The firmware is stored in Flash ROM.

Updating new firmware is performed via one of the printer's interfaces. The printer recognizes the nature of the code and replaces the older firm-

What's Flash ROM?

Flash ROM is nonvolatile memory. When the power is switched off, this kind of memory holds the data previously stored.

ware with the new one that is downloaded. After downloading, the printer restarts with the new firmware resident and active.

When your printer is switched on, by default it prints a startup page. This page is generated internally by the Operating System. Below is a list of the information pages that may be printed by the Operating System.

INFORMATION PAGES	REMARK(S)
CMM Profile (On the Software Utilities CD-ROM)	CMM (Color Management Module) — This page gives information about all ICC profiles and color device links.
Configuration	The configuration page lists the major printer settings, their current values, and their default values. Also prints at startup.
	You may disable printing a startup page by means of the control panel.
Demo Page	This page contains text and images that can be printed for demonstrating printer quality.
Directory List	This page lists all directories and files in your printer's hard disk, Flash, and RAM.
Font List	These pages provide a list of fonts installed in the printer. You can choose to print either the PostScript or the PCL font list.
Menu Map	These pages list the printer's control panel menu items, along with current settings.
Registration	This page shows the registration of the four colors of your color printer in respect to each other.
Statistics Page	This page gives statistical information about the usage of the printer and the current status of the consumables.

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Inside Your Printer

INFORMATION PAGES	REMARK(S)
Test Pages	These pages can be used to check print uniformity and jitter.

Active Interfaces

Your printer is shipped with all standard interfaces active. Using a hot-port interfacing technique, all interfaces are active and ready to accept incoming print jobs.



Only one interface can receive an incoming print job at a time.

Interpretation

The print data from the spool buffer is examined by the printer. Each printer emulation (like PostScript, PCL, GL, etc.) is recognized by examining the nature of the data. The printer tries to find a match within the first part of the print data by comparing the print code to specific printer language patterns stored within the printer.

The printer assigns a criteria-dependent value for each selectable resident printer emulation. Each emulation is weighed, and either an emulation is selected or the printer defaults to a user configurable option.

This avoids the need of selecting an emulation in the printer configuration menu each time. Moreover, manually selecting an emulation for each print job would be impossible if the printer is in a remote network location, serving a group of users.

Two situations may occur:

1 No clear match is found. The printer selects the default emulation (usually PCL5).



Your printer is shipped with the default emulation set to PCL5. You may select another resident emulation as the default emulation.

2 A clear match is found. The printer activates the appropriate resident emulation.

The print data is then interpreted, and a special compressed format is generated and stored until the print job is completely printed. This automatically enables two major features:

 Automatic Jam Recovery. If a media jam occurs, and if the printer power remains on, the printer is able to reprint the page or pages in the engine at

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- the time of the jam after the jam has been cleared. This enables you to collect your document(s) from the printer without missing pages and without resending the print job.
- Electronic Document Collation (the printer must have an installed hard disk to use this feature). Since all pages of a particular document are stored, it is not necessary to send a print job multiple times from the software application to print multiple copies. This feature enhances printer performance and decreases network traffic dramatically.

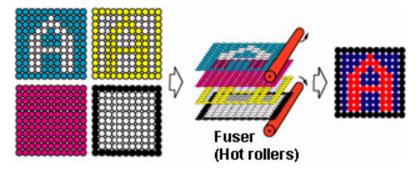
Rasterization

Each time the print engine is ready to print a new page, the print data is translated into a bitmap format that is stored, and then read by the print engine.

What's a bitmap? A bitmap is a graphic representation of a page. All characters and art representations are printed using tiny dots.

For monochrome printing, the page bitmaps consist of black bitmaps only. Color printers translate the print data into either four separate bitmaps, (one for cyan, one for magenta, one for yellow, and one for black).

The below illustration demonstrates the color rasterization process with bitmap representations. The rasterizer processes the data into four bitmaps,



one for cyan, one for magenta, one for yellow, and one for black.

The print engine processes these bitmaps and fuses the four toner layers onto the media to produce a printed output.



Cyan combined with yellow produces green, cyan combined with magenta produces blue, and yellow combined with magenta produces red. Cyan, magenta, and yellow combined produce black. In our example, the black is produced by fusing all four toner colors.

Printable Areas

The printable area is defined as the media size minus the nonprintable edges around the media. The value of the nonprintable edges is about 0.157" (4 mm) from the edges of the media.



See the User's Guide for more information about printable area(s).

Printing

The hardware components that make printing possible are collectively known as the print engine. To become familiar with the basic functions of a print engine, see the following descriptions of the print engine's main components.

1 Laser Unit—The laser unit is controlled by the contents of the Frame Buffer (for each color). For each dot color of the Frame Buffer bitmap that is turned on, the laser is switched on and 'writes' an electrical dot onto the OPC.



An electrical dot is an isolated area on the surface of the OPC. The OPC is initially charged. When the laser beam strikes the surface, that area is electrically neutralized.

- $2\,$ OPC (Organic Photo Conductive) Drum (also called "Belt")—The laser unit 'writes' the dots from one side to the other, while the rotation of the OPC is responsible for the vertical movement (lines of dots).
- 3 Toner—Each toner cartridge transfers its toner to the neutral areas on the OPC by means of electrostatic attraction (the toner carries a negative charge).
- 4 Transfer Belt Unit—The Transfer Belt Unit collects all four color images in succession (on top of each other). Then the total combined toner image is transferred from the Transfer Belt Unit to the media drawn from the media tray. The transfer is also obtained by electrostatic attraction.
- 5 Fuser Unit—The fuser unit contains pressurized hot rollers. As the media passes the fuser, the toner images are melted and fused onto the media. The printed media is then transported to the output area of the print engine.

The various print engine units are controlled by the firmware. To detect the status of these modules, the print engine provides specific sensor signals.

How does Duplex Density affect printing?

Duplex Density, available from the printer's Quality menu when a duplex unit is installed, directly affects the printer's engine operating characteristics. This option actually changes the transfer voltage used to apply the image to the media to adjust for duplex printing quality. When a sheet goes through the first pass, the fuser unit's heat may affect the characteristics (such as dampness) of the media. The printer automatically adjusts to compensate for this on the second (reverse) pass of the media, but you can change this if you want to. The down key decreases the voltage and lightens the output. The up key increases the voltage and darkens the output. The choices for this setting are -5 to +5 in 1-step increments (-500 V to +500 V).

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Printing

6 Memory—The memory that comes with your printer and the default memory optimization settings should be sufficient for typical print jobs: however, in some situations you may need to change the memory configuration or add more memory to increase your printer's performance. The following describes situations that may benefit from additional memory or changes to printer parameter settings.



For references to PageScope Light, see "Startup Options & Resets" on page 236 for details. For references to your printer's control panel, see "Using the Printer Menu" on page 255 for a map of the control panel menu.

PDF Direct Printing



PDF direct printing is supported only if your printer has an installed hard disk.

If the majority of print jobs sent to your printer are PDF direct print jobs, you may be able to increase your printer's performance by

- Changing the printer's System Default/Startup Options/Optimize PDL setting to For PDF. You can make this change at the printer's control panel or from the Memory Client Optimizations/Emulations setting on the Configuration/Startup Options & Resets page of PageScope Light.
- Increasing your printer's memory.



If complex PDF direct print jobs are common, you may need to perform both of the above suggestions.

- High-Resolution Print Jobs Using Letter/A4 Duplex or Legal Simplex If the majority of your print jobs are configured for High or Enhanced resolution using Letter/A4 media duplexed or Legal media simplexed. increase the printer's memory to 192 MB or higher.
- High-Resolution Print Jobs Using Legal Duplex If the majority of your print jobs are configured for High or Enhanced resolution using Legal media duplexed, increase the printer's memory to 256 MB or higher.

Complex PCL Printing If your printer regularly receives complex PCL print jobs, try setting the printer's System Default/Startup Options/Optimize PDL setting to For PCL. You can make this change at the printer's control panel or from the Memory Client Optimizations/Emulations setting on the Configuration/Startup Options & Resets page of PageScope Light (Emulation parameter).



Many PCL printing problems are not affected by memory optimization settings. Changing the Optimize PDL setting to For PCL has been found to enhance printer performance in a limited number of printing situations.

- Multi-page Color Legal Printing If the majority of your print jobs are large legal-size documents printed in color, try setting the printer's System Default/Startup Options/ Optimize Media setting to For Legal. You can make this change at the printer's control panel or from the Memory Client Optimizations/Media Size setting on the Configuration/Startup Options & Resets page of PageScope Light (Media Size parameter).
- Miscellaneous Printing Situations If you have large, complex print jobs (such as multi-page PowerPoint presentations) that degrade your printer's performance, try increasing your printer's memory to 384 MB.



You may experience improved printer performance by upgrading to 256 MB; however, upgrading to 384 MB reduces the chances that an even more complex print job would hamper your printer's performance.



Printer Features 5.2

Serverless Printing

The illustration shows a simplified section of a typical network environment. A workstation (WS1) generates print data from a software application and transmits it via the network to the network server. The network server stores the data on its hard disk (in what is called a print queue). After the data transmission is completed, the network server sends the print job to the printer via the same network.

This method has two major disadvantages:

- 1 The print data is sent two times across the network, increasing the network traffic.
- ${f 2}$ It also takes much longer to print from the time the workstation sends the data until the print job is completely printed.

Network Server

Not only do you have to wait a relatively long time before the printer starts to process the job, but all other users on the network experience a slower response time as well.

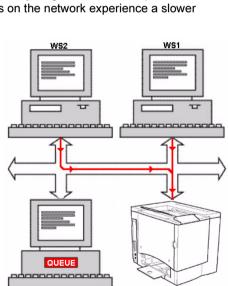
KONICA MINOLTA technology offers a better solution:

Workstations send the print data directly to the printer, omitting the network server routing.



All KONICA MINOLTA printers can print through a print queue on a network server if you need to use that method.

Your KONICA MINOLTA printer behaves like a network server when connected to a network. decreasing unnecessary network traffic.



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Serverless Printing

Network Server

This becomes a major benefit when multiple printers are active in the same network. Everyone experiences a much faster throughput of their print jobs.

Automatic Jam Recovery

Your printer provides automatic jam recovery (when enabled through the Paper/Page Recovery menu). After you remove any jammed media, printing automatically resumes from the page the printer stopped at when the jam occurred



For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media.

Direct File Printing

Your printer has the ability to print PCL, PDF, and PostScript files directly. This can be a time-saving feature. For example, you can ftp a file directly to the printer without opening the file's authoring software. See "Direct Printing" on page 242 for information about using PageScope Light to send direct print files.

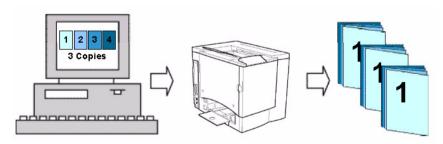


Your printer must have an installed hard disk to support PDF direct printing. Your printer supports PDF version 1.3 and below.

Electronic Document Collation



The Collation feature is supported only on printers with an internal hard disk installed.





The following description of Electronic Document Collation uses a 12-page file as an example. Note that this 12-page file is nothing more than THREE IDENTICAL 4-page documents.

Automatic Jam Recovery

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When collate is not selected and the copy count is set to 3, the application sends the 4-page file once, with a copy count of 3 embedded in the data stream. Printers without collation features usually print page 1 three times. followed by page 2 three times, page 3 three times, and page 4 three times. You must manually collate the pages afterward to obtain the documents. The example discusses what happens when only three copies are selected. In some cases, many more copies are needed.

KONICA MINOLTA technology offers a better solution:

With your printer, you do not have to select collation in the software application when you need multiple copies of your document. If the driver collate setting is turned on, just enter the number of copies you need in the driver. The print data is sent once, regardless of the number of copies you selected. Your printer prints and automatically collates the specified amount of documents. with the pages in the correct order for each copy of the document. This feature allows a very efficient way of producing multiple documents while keeping the network traffic at a minimum and saving you from manually collating the printed pages into documents.



Your printer is shipped with the collate feature switched off. You are advised to switch it on after completely setting up your printer.

Emulation Switching

Some printers require manual intervention to change the printer configuration to process print jobs from sources using different emulations. Your KONICA MINOLTA printer is capable of sampling incoming print job data, identifying the print job emulation (PCL, PCL XL, PDF, or PostScript), and automatically switching to the correct emulation configuration to process the print job. You can also configure your KONICA MINOLTA printer to automatically use an emulation you've selected (LinePrinter, PCL5, or PostScript) for any print job lacking emulation identification that is recognizable by the printer.

The following provides an example of automatic emulation switching.

Both workstations **WS1** and **WS2** are independently creating documents. Workstation WS1 uses a PCL printer driver, and workstation WS2 uses a PostScript printer driver.

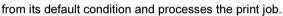
Assume the printer is just switched on and each page is sent as a separate print job.

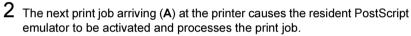
The following is received by the printer in succession:

- Print job C is received from WS1.
- Print job A is received from WS2
- Print job D is received from WS1.

This sequence causes the following actions:

1 The printer activates the resident PCL emulator after print job C was received. The PCL emulator starts





WS1

(PCL)

WS2

(PostScript)

3 Following, print job **D** from **WS1** is received. The PCL emulator is activated and processes the print job.

Typefaces and Symbol Sets

What is a typeface?

A named design of a set of printed characters, such as Times, that has a specified obliqueness (degree of slant) and stroke weight.

What is a symbol set?

Network

A named set of characters (such as symbols) available within a typeface. Multiple symbol sets may be available within the same typeface.

These are the supported typefaces and symbol sets.

Total Each Typeface and Symbol Set

144 PostScript Typefaces

Typefaces and Symbol Sets

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Total	Each Typeface and Symbol Se	t
259	PostScript Encodings	
	Standard Encoding	133
	Symbol Encoding	4
	Central European Encoding	115
	Barcodes	7
103	PCL Typefaces	
	Roman Typefaces	76
	Hebrew Typefaces	7
	Arabic Typefaces	6
	Symbol Typefaces	4
	Lineprinter Typefaces	10

For detailed listings of the supported fonts, print the system font page(s) from the control panel (Print Menu/Font List) or through PageScope Light (refer to "List Fonts" on page 212).

Overlay Printing

In certain cases a special kind of media, like preprinted forms or letterhead, is used. When you produce many documents with preprinted forms (for a mailing) you may run out of this media. Or you must first reprint this media, since something may have changed (like a telephone number). Even though you are able to print, your production stops and becomes dependent upon external situations.

KONICA MINOLTA technology offers a better solution:

You may download the entire preprinted form(s) onto the printer's hard disk and use this file as an overlay template.

Overlay printing features three major advantages:

- 1 You do not need a stock of preprinted forms anymore.
- 2 You may modify forms whenever needed, without scrapping existing stock.
- 3 The overlays are printer resident and do not need to be transmitted from a workstation to the printer each time.

Up to 5 different overlays may be used for each document. For each overlay, you may select the following criteria:

a Disk—Printer hard disk where the overlay file is located.

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Overlay Printing

- **b** *File*—The overlay filename.
- c Placement—On All Pages, the First Page only, all Even Pages, all Odd Pages or Complex (page number for the first placement, followed by a cycle number, representing how many successive pages later the overlay should be placed again).



You are also able to include a 'watermark.' A watermark is a text line for special purposes, such as 'Confidential' or 'Draft.' A watermark, however, is generated by the printer driver and is independent from the contents of the document and function of overlay printina.

The overlay may be designed from any available software application. It must be a one page document that can be printed. Rather than printing, you must temporarily store the overlay on your PC's hard disk as a PostScript file, for example, overlay1.ps. The next step is to transfer this file to the internal hard disk of your printer. You can use the Download Manager application or FTP to transfer the files to the hard disk of the printer.

Printer-based Accounting

Printers with an internal hard disk may utilize Printer-Based Accounting. With Printer-Based Accounting, individual print job information is saved on the printer's internal hard disk in an accounting file. This information can be retrieved from the printer, filtered in regards to the individual customer requirements and exported into a spreadsheet program in order to be analyzed. There are over 40 different information fields available.

Printer-Based Accounting is important for System Administrators who need interdepartmental accounting, pay-for-print applications, or workflow management.

There are 2 types of accounting information captured by your printer:

Job Accounting

As each print job is completed, the information describing the print job is saved in the accounting file. This information allows you to analyze consumable usage, media usage, operator usage, and the history of printer activities.

Error Accounting

Printer-based Error Accounting maintains a record of each error and status message generated by the printer.

For More Information

See "Printer-based Accounting" on page 274 for details about the Accounting records that are saved in the Accounting file on your printer's hard disk.

Job Retention Options



Job Retention options are supported only in Windows applications, and only on printers with an installed hard disk.

The Job Retention Options dialog in the KONICA MINOLTA PostScript printer driver, contains controls for configuring print jobs that are held in your printer's hard disk for later printing. These options allow you to configure print iobs using the proofing, storage, and security features of your printer.

Proof-then-Print

This option prints one copy of a multi-copy print job, and holds the remaining copies in the printer's hard disk. After proofing the printed copy. you can elect to print the remaining copies or delete the print job from the printer's control panel.



The number of print jobs that the printer can retain is dependent on job size and disk space.

After printing all copies, the job is deleted from the printer's hard disk.

PJL Example:

<ESC>%-12345X@PJL

@PJL SET HOLD = PROOF

@PJL SET JOBNAME = "ProofThenPrint"

@PJL ENTER LANGUAGE = POSTSCRIPT

When would I use Proof-then-Print?

Whenever you want to review a single copy of a print job before allowing the additional copies to print. This gives you a chance to proof the printed pages before spending the printer's time and consumables to print additional copies.

After reviewing the first copy, if you determine that changes are needed, you can cancel the print job and save the cost and time of printing the remaining copies.

Print and Hold

Allows you to set up a multicopy print job that prints all copies of the print job, and then hold the print job in the printer's hard disk for printing additional copies.

After printing all copies, the job is deleted from the printer's hard disk.

PJL Example:

<ESC>%-12345X@PJL

@PJL SET HOLD = PROOF

@PJL SET JOBNAME =

"PrintAndHold"

@PJL ENTER LANGUAGE = POSTCRIPT

When would I use Print and Hold (also called Print-then-Hold)?

Whenever you may require additional copies of a print job, but don't want to return to your workstation to resend the job.

This feature may be helpful in situations such as meetings where you are unsure of the number of attendees, and the printer is near the meeting location.

Stored Job

Allows you to save a print job in the printer's hard disk indefinitely.

After the print job is saved to the printer's hard disk, you can print the job using the Job Retention menu at the printer's control panel.

Stored Jobs remain in the printer's hard disk until you delete them.

PJL Example:

<ESC>%-12345X@PJL

@PJL SET HOLD = STORE

@PJL SET JOBNAME = "StoredJob"

@PJL ENTER LANGUAGE = POSTCRIPT

When would I use Stored Job?

If your organization uses forms or other documents that are frequently needed, storing the job on the printer's hard disk gives you, and other users, easy access to print the needed pages without having to resend the print job from a workstation.

Secured Job

Allows you to set up a print job that doesn't print until you enter the Security ID in the printer's control panel. This allows you to send print jobs that contain sensitive or private information to the printer that won't print until you are at the printer and have entered the Security ID that you assigned to the job.

Stored Jobs remain in the printer's hard disk until you delete them

Job Retention options are available only if the printer has a hard disk. If a Secured Job is sent to the printer and the printer's hard disk is full, the printer prints an error page indicating that the disk is full.

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Print jobs sent when the hard disk is full are not saved to the printer's hard disk.



All Secured jobs present on the printer's hard disk are not deleted when the printer is powered off and then on.

When would I use Secured Job?

Whenever you want to personally oversee the printed pages coming out of the printer because they contain confidential or sensitive data.



Security IDs—The Security ID text

box on the Job Retention dialog allows you to enter a numeric ID for Secured Jobs, or for any other Job Retention option that you want to protect with a Security ID.



If a Security ID is assigned to a print job, the Security ID must be entered at the printer's control panel in order to print additional copies of the job saved in the printer's hard disk.

Job Names—The Job Name text box on the Job Retention dialog allows you to enter alpha-numeric characters to uniquely identify jobs that are retained by the printer for security or proofing purposes.



If the name selected already exists in the printer's hard disk, the printer prints the expected initial copies (for Proof-then-Print jobs and Print -then-Hold jobs), and then prints an error page indicating that the name already exists. Print jobs that would duplicate existing names are not saved to the printer's hard disk.



To setup a retained job for Collated or Uncollated output, first set your application's collation option (if available) to Uncollate, and then select collate or uncollate from the printer driver.

PJL Example:

<ESC>%-12345X@PJL

@PJL SET HOLD = ON

@PJL SET HOLDTYPE = PRIVATE

@PJL SET HOLDKEY = "1234"

@PJL SET JOBNAME = "SecuredJob"

@PJL ENTER LANGUAGE = POSTCRIPT

Tray Chaining and Auto Continue

Tray Chaining

When the optional lower media tray is installed, you can configure the printer to automatically switch input trays during a print job when the first tray runs out of media. This is called tray chaining. Tray chaining can be enabled from the printer's control panel (Paper/input Tray/chain menu) and from the Configuration/Paper Handling window of PageScope Light. See the following section "Auto Continue" for additional information concerning the use of tray chaining.

Auto Continue

If the requested input tray contains a different media type or size than what the print job calls for, the printer stops printing and requests the media size and type that the print job specified. The Auto Continue feature allows you manually or automatically continue the print job using the media in the requested tray. You can enable or disable Auto Continue from the printer's control panel (System Default/Auto Continue menu) and from the Configuration/Paper Handling window of PageScope Light.

Overriding a Media Mismatched Tray From the Printer's Control Panel

If Auto Continue is disabled and a print job is disrupted because of a media mismatch in the requested media tray, you can continue the print job using the media in the tray by pressing the printer's control panel right arrow key once and then pressing the Select key.

Automatically Overriding a Media Mismatched Tray

Section

When Auto Continue is enabled, the printer automatically changes the print job to allow it to print on the media size and type present in the requested tray.



Printer 5.3

Configuring your Printer

This chapter describes how to configure printer settings via the printer's internal web page manager (PageScope Light), and provides a menu map of the printer's control panel.

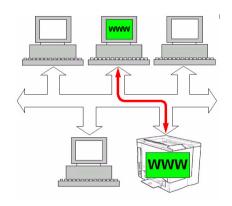
To help you locate information about configuration items or parameters for your printer, hyperlinks have been added to these Menu pages to allow you to quickly jump from parameter descriptions in the PageScope Light section to the corresponding page in the menu map section (and vice-versa). Parameter descriptions accompanied with the menu button icon (shown at right) have a corresponding menu item that can also be used for setting the default value. Just click on the menu icon to jump to the menu page. When viewing the menu map pages, clicking on the menu item leads you to the description in the PageScope Light section if there's an equivalent parameter.

Using PageScope Light

Your printer has a built in web page manager (PageScope Light) that you can access using your web browser. With PageScope Light, you can change the configuration of the printer without leaving your workstation.



When the PageScope Light security feature is enabled, users that are not given passwords by the administrator can still view the configuration settings



and options but are not able to save or apply changes.

Inside your printer resides an HTTP (Hyper-Text Transfer Protocol) based web page that can be accessed from most common web browser software. such as Netscape Navigator and Microsoft Explorer. This web page gives you access to the most frequently used printer configurations and gives you instant access to printer status. Anyone on your company Intranet can access the printer using their web browser software.



You do not need an Internet connection to view your printer web pages. Only the web browser software application is needed on your workstation.

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Configuring your Printer

To use PageScope Light, you need to have the following installed on your workstation:

- a An Internet browser.
- b TCP/IP communication software. This is needed since Internet browsers use this communication protocol. Because the communication for PageScope Light is a direct one (from your workstation to the printer). the TCP/IP communication software may be independently installed from the communication protocol of your network environment.



You cannot access PageScope Light using a parallel connection.



Some of the menus shown on the following pages may vary per printer model and/or options installed.

Setting Up the Printer Web Page

Setting up the printer web page to run on your Intranet involves two basic steps:

- 1 Determining the name and address of your printer
- 2 Setting up the "no proxy" preferences in your browser software

Determining the Printer Name

The printer web page can be accessed only through the assigned name of the printer or the printer's IP address. The IP address can be found on the startup page of your printer. The name for the printer comes from the IP host table on the computer system and is usually assigned by the system administrator, for example, magicolor 2350.

Name or Number?

It may be more convenient for you to use a name rather than the IP address, however, the IP address of your printer is a unique number and may be preferred if you have many printers active on your network.

Setting Up Your Browser Software

Since your printer 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 printer 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.

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

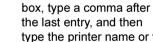


Our examples represent the IP address of the printer with: xxx.xxx.xxx.xxx. Always enter your printer's IP address without leading zeros. For example, 131.011.010.001 should be entered as 131.11.10.1.

Netscape Navigator (version 6.2)

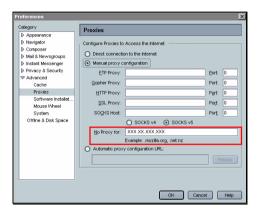
- 1 Start vour web browser.
- 2 Access the Edit menu and choose Preferences.
- 3 Select the Advanced/Proxies directory from the left pane of the dialog box.
- 4 Select the Manual Proxy Configuration radio button.
- 5 In the No Proxy For: text the last entry, and then





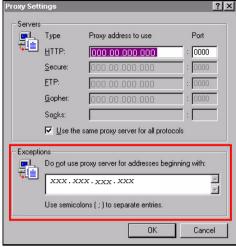


7 Enter the printer name or IP address in the Go to: URL address box to access the printer home page.



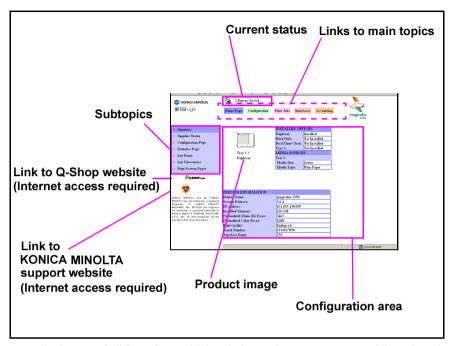
Internet Explorer (version 6.0)

- 1 Start your web browser.
- Access the Tools menu and choose Internet Options.
- 3 Select the Connection tab on the dialog box.
- 4 Select the LAN Settings button to display the Local Area Network (LAN) Settings dialog
- 5 Select Advanced to open the Proxy Settings dialog.
- 6 In the Exceptions text box, type a comma after the last entry and then type the IP address of your printer.
- 7 Select OK.
- 8 Enter the IP address in the URL address box to access the printer home page.



Navigating PageScope Light

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



At the top of all PageScope Light windows, the current status of the printer is displayed.

Selecting the main topic and subtopic, displays the configuration area for the printer 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.



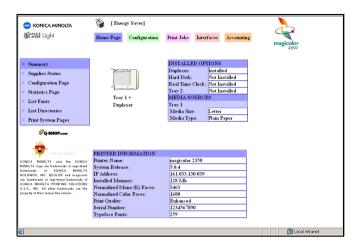
Many configuration items do not allow typed entries and must be changed by selecting a value from a drop-down list that appears when you click on the current setting.



If security is enabled, the correct password must be entered at the top of the configuration area of many of the windows in order to apply and save any changes made to the configuration settings.

Printer Home Page

The Home Page is the starting point for all access to the printer's internal web pages. On this page you find printer status and current configuration settings, printer identification, and links to all other web pages.



Summary (shown above)

The Home Page/Summary window provides the following information:

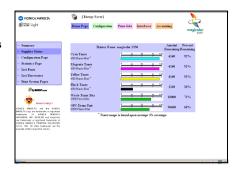
Item	Description
Product image	Identifies the type of printer that you are browsing and identifies the installed options.
Printer Name/Status	Shows the name assigned to your printer, and displays the current status of the printer—just as it's displayed on the printer's control panel message window.
	The status display allows you to remotely identify possible printer problems, such as out of paper and out of toner.
Installed Options	Lists all printer options and identifies which ones are installed.
Media Sources	Lists the media sources and the media sizes currently configured for each source.
Printer Information	Lists basic information about your printer.



All of the information displayed on the Home Page Summary is read-only, however, some of the items (such as the media type), are configurable on other pages.

Supplies Status

The Home Page/Supplies Status window provides the following information:



Item	Description
Consumable items	Identifies the type of consumable that is being monitored.
Status bars	Graphically represent the remaining life of the identified consumable item.
Amount Remaining	Describes the remaining life of the consumable item in plane or face counts. Plane counts are based on 5% toner coverage for each page. If your pages average more than 5% coverage, the remaining life is less than the plane count displayed.
Percent Remaining	Describes the amount of remaining life for the consumable using a percentage of total life based on plane or face counts.



A plane is defined as a one-color face, while a face is defined as a single side of a sheet of media. A color face is typically made of 4 color planes.

Configuration Page

The Home Page/Configuration windows provides the following information:



Item	Description
Printer Information	Displays the basic printer properties, as well as page counts to date.
Installed Options	Displays all printer options and identifies which options are installed in the printer.
Printer Interfaces	Displays Parallel, USB, and Resident NIC (Network Interface Card) information.
Paper Settings	Displays Tray configuration, duplex setting, and Special Pages information.

Statistics Page

The Home Page/Statistics Page window provides the following information:



Item	Description
Supplies Status	Displays the statistics of consumable items in the printer.
Lifetime Counts	Displays printer statistics grouped by Sheets Printed by Media Size, Sheets Printed by Media Type, Total Normalized Counts, and Normalized Coverage Information.

List Fonts

The **Home Page/List Fonts** window provides the following information:



Item	Description
PostScript Fonts Menu Select	Displays the list of PostScript (PS) fonts currently installed in the printer.
PCL Fonts Menu Select	Displays the list of PCL fonts currently installed in the printer.

List Directories

The **Home Page/List Directories** window provides the following information:



Item	Description
Disk Drive	Displays the list of files currently installed in the printer's hard disk.
	A Hard Disk Not Installed message appears if no optional hard disk is installed in the printer.
RAM Disk	Displays the list of files currently installed in the printer's RAM (Random Access Memory).

^{*} Click on



to view this parameter in the printer's control panel menu.

Item	Description
FLASH Memory	Displays the list of files currently installed in the printer's flash memory.

Print System Pages

The Home Page/Print System Pages window allows you to select and print any of the printer's built-in system pages.



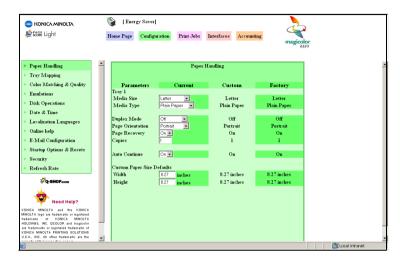
Item	Description
System Pages	The system pages available in your printer are displayed in the list. Select the page you would like to have printed, and then select the Submit button. After the Submitted message appears, select OK.
	The Reset button clears the selection indicator from the list.

Configuration Page

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



If security is enabled, you must have the correct password to apply and save any changes to the settings available from this page.



Paper Handling (Shown above)

The Configuration/Paper Handling window allows you to view and change the current paper handling option settings. The settings are arranged in 3 columns: Current, Custom, and Factory.

Parameter	Description
Tray1	
Media Size	Identifies the media size currently loaded in the media tray. Choices are
Menu Select	A4 A5 B5 C5 C6 DL CHINESE16K CHINESE32K CHOKEI3 CHOKEI4 COM10 CUSTOM EXECUTIVE FOLIO FOOLSCAP GOVT LEGAL GOVT LETTER JISB5 JPOSTCARD LEGAL LETTER (Default) MONARCH SPFOLIO STATEMENT
	UK QUARTO



Parameter	Description
Media Type	Identifies the media type currently loaded in the media tray. Choices are
Menu Select	PAPER (Default) TRANS[PARENCY] THICK STOCK LABELS
Tray2 (optional)	
Media Size	Identifies the media size currently loaded in the media tray. Choices are
	A4 (220 V Default) LETTER (110 V Default)
Media Type	Identifies the media type currently loaded in the media tray. Choices are
	PAPER (Default)

Duplex Mode Menu Select	Displays the current setting for duplex printing. Duplex printing allows you to print on both sides of the media. Choices are
	OFF (Default) — Prints simplex pages. SHORTEDGE — Prints duplex pages so pages can be bound at the short edge. LONGEDGE — Prints duplex pages so pages can be bound at the long edge.
	Short edge Long edge
	A duplex unit must be installed to use the duplex feature.



Parameter	Description
Page Orientation Menu Select	Identifies the page orientation that the printer should use. Choices are
	Portrait (Default) —Vertical orientation (longest side of media vertical) Landscape — Horizontal orientation (longest side of media horizontal)
Page Recovery Menn Select	When this feature is enabled (ON), following the clearing of a media jam the printer reprints any pages that did not progress to the output bin when the media jam occurred. Choices are
	OFF ON (Default)
Collate Menu Select	When this parameter is enabled for a multi-copy print job, all pages of the first copy are printed followed by all pages of the next. When Collate is disabled for a multi-copy print job, all copies of the first page are printed followed by all copies of the next page. Choices are
	YES (Default) NO
	A hard disk must be installed to use the Collate feature.
Default Input Tray Menu Select	Identifies the media tray that the printer uses as the media source if no tray is specified by the print job. Choices are
	TRAY1 (Default) TRAY2
	The optional Tray 2 must be installed to use this setting.

Parameter	Description
Tray Chaining Menu Select	Tray Chaining allows the printer to switch from one paper source to another when the initial paper source is empty. You can turn Tray Chaining on by selecting ON. Selecting OFF turns Tray Chaining off. Choices are
	OFF ON (Default)
	The optional Tray 2 must be installed to use this setting. Both trays should also have the same media size and media type installed (unless Auto Continue is usedsee Auto Continue for more information).
Copies Menu Select	Sets the default number of copies that should be printed when a print job request is received by the printer. Type the default value or use the arrow buttons to adjust the number of copies. Choices are
	1-999 (Default=1)
Auto Continue	Configures the printer for automatically continuing printing if the media tray has a different media size or media type than what the print job requests. Choices are
•	OFF—disables the Auto Continue feature. When the requested tray empties, printing will stop until you've identified the media to be used to complete the print job.
	ON (Default) —enables the Auto Continue feature. When the requested tray empties, the printer will automatically adjust for the media installed (or for the media installed in the second tray if tray chaining is active) and continue printing.



Parameter	Description
Custom Paper Size Width	Sets the width measurement for custom paper sizes. Choices are
Menu Select	3.6-8.5" (92.0 -216.0 mm) (Default=8.27" [110 V] or 210 mm [220- V])
	Custom media must be loaded in tray 1. See "Media Specifications" in the magicolor 2350 User's Guide for a list of supported media types and sizes.
Custom Paper Size Height	Sets the height measurement for custom paper sizes. Choices are
Menu Select	8.3-14.0" (210.0-356.0 mm) (Default=8.27" [110 V] or 210 mm [220 V])
	Custom media must be loaded in tray 1. See "Media Specifications" in the magicolor 2350 User's Guide for a list of supported media types and sizes.
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

Tray Mapping

The **Tray Mapping** window allows you to view and change the current tray mapping options. Tray mapping lets you assign logical mapping numbers to physical media trays.



Tray 2 must be installed to enable tray mapping selec-



tions (otherwise, all logical mapping numbers map to physical tray 1).

Parameter	Description
Tray Mapping Mode	Used to turn tray mapping on and off. Choices are ON (Default) OFF
Logical Tray 0 - 9	Identifies the physical tray for each logical tray number. Choices are PHYSICAL TRAY 1 (Default)
	PHYSICAL TRAY 2 The optional Tray 2 must be installed to be
	used for tray mapping.

Color Matching & Quality

The Configuration/Color Matching & Quality window allows you to view and change the current paper handling options. The settings are arranged in 3 columns: Current, Custom, and Factory:



Parameter	Description
Print Quality	Used to select the printing resolution. Choices are
	STANDARD
	DRAFT
	HIGH
	ENHANCED (Default)

Click on

220



Parameter	Description
Color Model	Identifies the color model that the printer uses for color printing. Choices are
	CMYK (Default) GRAYSCALE CMY RGB
Color Matching	Sets color matching on and off. Choices are
	YES (Default) NO
Color Profiles RGB Source Graphics	Sets the RGB source profile for ICC color matching. Choices are
	APPLE BARGB COLORMATCH NONE PREPRESS SRGB VIVID (Default)
Graphics RGB Source Images	Sets the RGB source profile for graphics. Choices are APPLE BARGB COLORMATCH NONE PREPRESS SRGB (Default) VIVID
ICC PCL Source	Sets the ICC profile for PCL. Choices are SRGB (Default)
	NONE

Parameter	Description
Simulation Profile	Sets the CMYK source profile for ICC color matching. Choice are
	COMM DIC EURO NONE (Default) SWOP TOYO
Destination Profile	Defines the destination profile of the printer. Choices are
	AUTOMATIC (Default) A1PCMYK A5PCMYK
Simulation in RGB	Specifies whether the ICC simulation profile selection should be used with the RGB source profile to construct the color matching device links used in RGB color space processing.
	RGB color space Device Link construction may be visualized as follows (where Simulation Profile is optional): RGB Profile + Simulation Profile + Destination Profile> Device Link
	Choices are
	YES NO (Default)
Default RGB Black	Sets the quality of any ICC device links created during execution of the current print job. Choices are
	BLACK AND GRAY (Default) —prints 100% black and intermediate grays with black toner only. BLACK ONLY—prints 100% black with black toner only. COMPOSITE BLACK—prints 100% black and intermediate grays with a composite of all four toners.

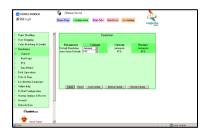
Click on

Parameter	Description
Toner Low Action	Determines if the printer continues accepting jobs sent to it when a low toner condition occurs. Choices are
	CONTINUE (Default) STOP
Toner Out Action	Determines if the printer continues accepting jobs sent to it when a toner out condition occurs. Choices are CONTINUE STOP (Default)
OPC Low Action	Determines if the printer continues accepting jobs sent to it when a low OPC condition occurs. Choices are CONTINUE (Default) STOP
OPC Out Action	Determines if the printer continues accepting jobs sent to it when a OPC out condition occurs. Choices are CONTINUE (Default) STOP
AIDC Calibration	AIDC (Auto Image Density Control Mode) controls the toner density (image darkness) to provide optimum output quality. Choices are OFF ON (Default)
Color Separation Menu Select	Turns color separation on and off. Choices are NO (Default) YES
Density Control Menu Select	Adjusts toner (color) density of each color (cyan, magenta, yellow, and black). The higher the value, the higher the density of the color. Choices are 1–9 (Default=5)

Parameter	Description
Submit button	Saves and applies any changes made to the parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all parameter settings to the Custom values.
Restore Factory button	Changes all parameter settings to the Factory values.

Emulation/General

The Configuration/Emulation/General window provides the following parameters for configuration:



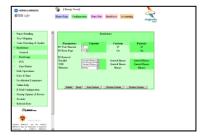
Parameter	Description
Default Emulation Menu Select	Assigns the selected emulation as the default emulation. The default emulation is used whenever a print job without emulation identification is received. Choices are
•	AUTOMATIC (Default)
	HEXDUMP
	LINEPRINTER
	PCL
	PCL XL
	PDF
	POSTSCRIPT

Click on to view this parameter in the printer's control panel menu.

Parameter	Description
Auto-Sense Default Menu Select	When Auto Default is selected as the Default Emulation (see above), the printer samples the incoming print job to try to determine the correct emulation to use for the job. If the printer is unable to discern the emulation of an incoming print job, the setting for this parameter is used as the emulation. Choices are
	LINEPRINTER PCL (Default) POSTSCRIPT
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all parameter settings to the Custom values.
Restore Factory button	Changes all parameter settings to the Factory values.

Emulation/PostScript

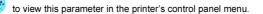
The Configuration/Emulation/Post-Script window provides the following parameters for configuration:



Click on

Parameter	Description
PS Wait Timeout	The PostScript Wait timeout is the maximum number of seconds the PostScript emulation waits for incoming data from a particular print job. Choices are
	0-999 (seconds) (Default=15)
PS Error Page	Choices are
Menu Select	ON (Default) OFF
PS Protocol Parallel	Sets the binary communications protocol (BCP). Choices are
Menu Select	NORMAL QUOTED BINARY (Default)
PS Protocol USB	Sets the binary communications protocol (BCP). Choices are
Menu Select	NORMAL QUOTED BINARY (Default)
PS Protocol Ethernet	Sets the binary communications protocol (BCP). Choices are
Menu Select	NORMAL BINARY (Default) QUOTED BINARY
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.

Click on



Parameter	Description
Restore Custom button	Changes all parameter settings to the Custom values.
Restore Factory button	Changes all parameter settings to the Factory values.

Emulation/PCL

The Configuration/Emulation/PCL window provides the following parameters for configuration:



Parameter	Description
Line Termination	Sets the line termination value. Choices are
Menu Select	CR=CR LF=LF CR=CRLF LF=LF CR=CR LF=CRLF (Default) CR=CRLF LF=CRLF
Optimize Images Menu Select	Optimizes the printer's memory configuration for PCL printing. For Speed (Default) For Quality
Pitch Size Menu Select	Controls the font pitch in characters per inch (cpi). Choices are 0–9999 (cpi) (Default=1000)
Font Number Menu Select	Identifies the PCL font number. (Default=0)

Click on

Parameter	Description	
Font Source	Identifies the Choices are I — Internal (D S — Permane	*
Point Size	Controls the height (in points) of the default font. Choices are 0–9999.75 (Default=1200)	
Symbol Set	Sets the sym	bol set to be used. Choices are
Menu Select	ARABIC8 DESKTOP GB2312 GREEK8 HEBREW7 HEBREW8 HPWARA ISO4 ISO6 ISO11 ISO15 ISO17 ISO21 ISO60 ISO69 ISOCYR ISOGRK ISOHEB ISOL1 ISOL2 ISOL5 ISOL6 ISOL9 LEGAL MATH8 MCTEXT MSPUBL PC775	PC8 (Default) PC8DN PC8GRK PC8TK PC850 PC851GRK PC852 PC862HEB PC864ARA PC866 PC866CYR PC866UKR PC1004 PIFONT PSMATH PSTEXT ROMAN8 VNINTL VNMATH VNUS WIN30 WIN31J WINBALT WINCYR WINGRK WINL1 WINL2 WINL5

Click on to view this parameter in the printer's control panel menu.

Parameter	Description
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes settings to the Custom values.
Restore Factory button	Changes settings to the Factory values.

Emulation/Line Printer

The Configuration/Emulation/Line Printer window provides the following parameters for configuration:



Parameter	Description
Font Size Menu Select	Controls the height (in points) of the default font. Choices are 0–999975 (Default=1200)
Font Name Menu Select	Controls the font to be used for the current print job. All printer-resident PostScript fonts can be used. (Default=Courier)

Parameter	Description
Left, Right, Top, and Bottom Margin	Sets the usable area of the logical page. Choices are
Menu Select	0-79200 (Default=7200)
Tab Stops	Identifies the number of spaces between tab stops. Choices are
Menu Select	0–256 (Default=8)
Lines Per Page	Identifies the number of lines to print on a page before automatic page eject. Choices are
Menu Select	0–128 (Default=60)
Page Orientation	Controls the default page orientation. Choices are
Menu Select	PORTRAIT (Default) LANDSCAPE
Line Numbering	Enables and disables line numbering. Choices are
Menu Select	YES NO (Default)
Line Termination	Sets the line termination value. Choices are
Menu	CR=CRLF=LF (Default)
Select	CR=CRLFLF=LF CR=CRLF=CRLF
	CR=CRLFLF=CRLF
Character Map	Selects the character map. Choices are
Menu Select	ASCII (Default) EBCDIC
Submit button	Saves and applies any changes made to parameter settings.

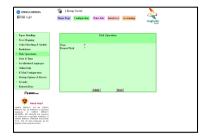
^{*} Click on



Parameter	Description
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all parameter settings to the Custom values.
Restore Factory button	Changes all parameter settings to the Factory values.

Disk Operations

The Configuration/Disk Operations window provides the following parameters for configuration of printer's with an installed hard disk:



Parameter	Description
None	No disk operation is performed. (Default=Selected)
Format Flash Menu Select	Clears the Flash memory of the printer. (Default=Not selected)
Format Disk	Formats the printer's internal hard disk, erasing all data previously stored on the disk. (Default=Not selected)

Click on Menu Select

Parameter	Description
Capture Print Job	Captures a print job by saving it to the printer's hard disk. (Default=Not selected)

Date & Time

The Configuration/Date & Time window provides the following parameters for configuration of printer's with an installed hard disk:



Parameter	Description
Day, Month, Year	Sets the current day, month, and year.
Menu Select	Entering a day value exceeding the number of days in the chosen month results in a date set to the next month. In this case the current day value is the number of days entered minus the previous month's total days.
Hour, Min, Sec	Sets the current hour, minute, and second.
Menu Select	

Localization Languages

The Configuration/Localization Languages window provides the following parameters for configuration:



^{*} Click on



Parameter	Description
Keypad Language Menu Select	Identifies the language of the keypad located on the printer. Choices are Czech (Cesky) English (Default) French (Français) German (Deutsch) Italian (Italiano) Portuguese (Portuguès) Spanish (Español)
PSL Language	Identifies the language displayed in the Page-Scope Light windows. Choices are Arabic (عجب) Chinese Simplified (简体中文) Chinese Traditional (繁體中文) Czech (Cesky) English (Default) French (Français) German (Deutsch) Hebrew (מברית) Hungarian (Magyar) Italian (Italiano) Polish (Polski) Portuguese (Portuguès) Russian (По-русски) Slovak (Slovák) Spanish (Español) Submitted language changes affect all users who open PageScope Light. Parameter values that are supplied by the printer are not affected by this setting.
Submit button	Saves and applies any changes made to parameter settings.

Parameter	Description
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Online Help

The Configuration/Online Help window provides the following parameters for configuration:



Parameter	Description
If you need assistance, contact	Identifies the organization that provides assistance with the printer.
Contact Number	Phone number.
Printer Help URL	Help website address.
KONICA MINOLTA Corporate URL	The KONICA MINOLTA BUSINESS TECHNOLO-GIES, INC. website address.
For Product or Dealer Information	Phone number.
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

E-Mail Configuration

The Configuration/E-Mail Configuration window provides the following parameters for configuration:



Parameter	Description
From Address	Identifies the <i>From</i> address that appears on email generated by the printer.
	The value entered for this parameter must comply with RFC formatting standards: name@domain_name Commas, semicolons, colons, and spaces are not allowed.
То	Identifies the destination address of email generated by the printer.
Subject	Identifies the subject text that appears on email generated by the printer.
When to Send Email Notification on Error	Identifies how long the printer waits after an error condition before generating and sending an email message. Choices are
	OFF (Default) 1 MINUTE 30 MINUTES 1 HOUR TEST
SMTP Server	Identity of your mail server. (Default=000.000.000.000)
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Startup Options & Resets

The Configuration/Startup Options & Resets window provides the following parameters for configuration:



Parameter	Description
Energy Saver	If no print jobs are sent to the printer for the time specified by this parameter, the printer's Energy Saver feature is activated. Choices are
	1 MINUTE
	15 MINUTES
	30 MINUTES (Default)
	1 HOUR
	2 HOURS*
	3 HOURS*
	The Energy Saver feature is disabled and enabled from the Energy Saver Mgt. parameter described next.
	*For 110 V only.
Energy Saver Mgt.	Sets Energy Saver management on or off. Choices are
	Off—Energy Saver settings are ignored.
	On (Default)—Energy Saver settings are active.
	This parameter does not apply to 220V printer models.

Click on 🥞

Parameter	Description
Memory Client Optimizations Media Size	Sets the printer's memory configuration to optimum settings according to the media size selected. See "Printing" on page 188 for suggested settings. Choices are
Menu Select	For Letter/A4 (Default) For Legal
	Changes to this parameter do not take effect until the printer is reset or powered off and then on.
Memory Client Optimizations Emulation	Sets the printer's memory configuration to optimum settings according to the emulation selected. See "Printing" on page 188 for suggested settings. Choices are
Menu Select	For PS (Default) For PCL For PDF
	Changes to this parameter do not take effect until the printer is reset or powered off and then on.
Reset Printer	Reboots the printer.
	(Default=Not checked)
Sysstart Menu Select	If you have an internal hard disk installed and 'Sysstart' is enabled (YES), the controller checks the internal hard disk for a PostScript file named Sys/Start and executes this file. Choices are NO (Default)
	YES
Printer Name	Sets the printer name.
	(Default=magicolor 2350)
Start Page	Sets the printer to print a startup page when the printer is powered on. Choices are
	YES (Default)

Parameter	Description
Resets None	No action.
	(Default=Selected)
Resets Restore Factory	If selected, restores the factory default settings of the printer.
Menu Select	(Default=Not selected)
Resets Save Custom	If selected, saves any changes to the printer parameters as the Custom settings.
Menu Select	(Default=Not selected)
Resets Restore Custom	If selected, restores the Custom settings of the printer.
Menu Select	(Default=Not selected)
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.



Security

The **Configuration/Security** window provides the following parameters for configuration:



Parameter	Description
Administration Enable Security	When selected, enables the printer's security feature, which requires users to enter the password to access or change printer information and configuration. (Default=unchecked)
Administration Set Password	Sets the printer password.
Administration Verify Password	Verifies the password entered in the above field. If the password entered in this field doesn't match the text entered in the Set Password field, the password is not set when the Submit button is selected.
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Click on

Refresh Rate

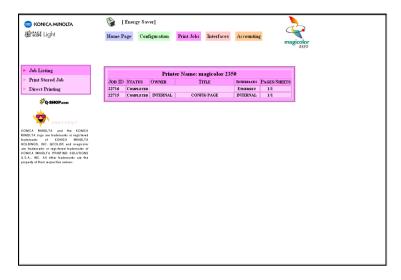
The Configuration/Refresh Rate window provides the following parameters for configuration:



Parameter	Description
Refresh Rate	Sets the time interval that passes between screen refreshes. During a screen refresh the printer is polled for any new status information and the status shown at the top of the PageScope Light window is updated. Choices are
	0 seconds (Default)
	15 seconds
	30 seconds
	60 seconds
	300 seconds
	To refresh the fields appearing in the PageScope Light window, select the Refresh button in your browser application.
Submit button	Saves and applies any changes made to parameter settings.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Print Jobs Page

This window allows you to view the status and history of print jobs, print stored jobs, and use direct printing.



Job Listing (shown above)

The **Print Jobs/Job Listing** window provides the following information about recent print jobs:

Parameter	Description
JOB ID	Each job that the printer receives is assigned a unique identification number.
STATUS	Displays the current status of the print job.
OWNER	If known, displays the owner of the print job.
TITLE	If known, displays the title of the print job.
INTERFACES	Displays the printer interface that was used to process the incoming print job.
PAGES/SHEETS	Indicates the number of pages in the print job.

Print Stored Job



The printer must have a hard disk to use the Stored Job parameters described below.

The Print Jobs/Print Stored Job window provides the following parameters for configuration when stored jobs are present on the printer's hard disk:



Parameter	Description
Job ID	Displays the Job ID of the stored job.
Job Menu Select	Displays the name of the stored job.
Owner	If known, displays the owner of the stored job.
Copies	Displays the number of copies that the stored print job has been configured to print. (Default=1)
PIN	Password field that is required on secured print jobs.
Submit button	When selected, prints the selected stored job.

Direct Printing

The Print Jobs/Direct Printing window provides the following parameters for configuration:





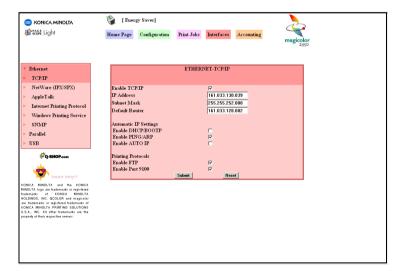
Parameter	Description
File Name	Contains the name of the file to be printed.
Browse button	This button allows you to locate the file that you want to print. After selecting a file, the file name appears in the File Name text box.
Submit button	Selecting this button sends the chosen file to the printer for printing.



PDF direct printing is supported only if your printer has an installed hard disk.

Interfaces Page

This window gives you access to the printer's interface configuration for Ethernet, Parallel, and USB interfaces.



Ethernet/TCP/IP (shown above)

The Interfaces/Ethernet/TCP/IP window provides the following parameters for configuration:

Parameter	Description
Enable TCP/IP	Enables the settings for TCP/IP.
	(Default=Checked)
IP Address	Contains the IP address.
Menu Select	(Default=192.168.1.2)
Subnet Mask	Contains the subnet mask address.
Menu Select	(Default=000.000.000.000)
Default Router	Contains the default router IP address.
Menu Select	(Default=192.168.1.2)
Enable DHCP/BOOTP	Selecting this check box enables DHCP/BOOTP.
Menu Select	(Default=Checked)
Enable PING/ARP	Selecting this check box enables PING/ARP.
	(Default=Checked)
Enable AUTO IP	Selecting this check box enables automatic IP detection.
	(Default=Not checked)
Enable FTP	Selecting this check box enables FTP.
	(Default=Checked)
Enable Port 9100	Selecting this check box enables Port 9100.
	(Default=Checked)
Submit Button	Submits the selections made in this window.



* Click on to view this parameter in the printer's control panel menu.

Interfaces Page

Parameter	Description
Reset Button	Clears all selections made in this window.

NetWare (IPX/SPX)

The Interfaces/Ethernet/NetWare window provides the following parameters for configuration:



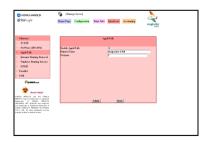
Parameter	Description
Enable NetWare	When selected, enables the NetWare settings.
	(Default=Checked)
Ethernet Frame Type	Sets the Ethernet Frame Type. Choices are
Menu Select	Auto (Default) Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP
Operating Mode	Sets the operating mode. Choices are
	Print Server (Default) Remote Printer
Print Server Name	Sets the print server name.
	1–64 characters
Print Server Password	If the print server requires a password, enter the password in this field.
	1–64 characters
Validate Password	Used to validate the password entered in the Print Server Password field.
	1–64 characters

Click on Menu Select

Parameter	Description
Print Server Mode	Sets the print server mode. Choices are
	Bindery Both NDS (Default)
Preferred File Server	Sets the name of the preferred file server.
	1–47 characters
Preferred NDS Tree	Identifies the NDS tree.
	1–48 characters
Preferred NDS Context	Identifies the NDS context.
	1–191 characters
Print Server Polling Rate	Sets the time interval (in seconds) that passes between print server pollings.
	0-65535 (seconds) (Default=1)
Printer Number	Allows you to assign a printer number for identification purposes.
	0–254 (Default=1)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

AppleTalk

The Interfaces/Ethernet/AppleTalk window provides the following parameters for configuration:



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to view this parameter in the printer's control panel menu.

Interfaces Page

Click on

Parameter	Description
Enable AppleTalk	When selected, enables the parameter settings for AppleTalk.
	(Default=Checked)
Printer Name	Identifies the printer name.
Menu Select	(Default=magicolor 2350)
Netzone	Identifies the zone where the printer is located.
Menu Select	(Default=first zone found)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

Internet Printing Protocol

The Interfaces/Ethernet/Internet Printing Protocol window provides the following parameters for configuration:



Parameter	Description
Enable IPP	When selected, enables the parameter settings for IPP.
	(Default=Checked)
Printer Name	Identifies the printer name.
	(Default=magicolor 2350)
Printer Location	Identifies the location of the printer.

^{*} Click on to view this parameter in the printer's control panel menu.

Parameter	Description
Accept IPP Jobs	When Enable is selected, allows the printer to process incoming IPP jobs. Choices are
	Enabled (Default) Disable
Printer Make & Model	Identifies the printer manufacturer and printer model. This text is read-only.
Printer URLs Supported	Displays the URLs supported by the printer. This text is read-only.
Operations Supported	This read-only text lists the operations supported.
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

Windows Printing Service

The Interfaces/Ethernet/Windows Printing Service window provides the following parameters for configuration:



Parameter	Description
Enable Windows Printing Service	When selected, enables the parameter settings for Windows printing service.
	(Default=Checked)
WorkGroup Name	Identifies the workgroup name.
	1–15 characters
Host Name	Identifies the host name.
	1–15 characters

Parameter	Description	
Printer Name	Identifies the printer name	
	1–32 characters	
Printer Description	Displays the printer description	
	1–32 characters	
Submit Button	Sends changes made to the parameters in this window to the printer.	
Reset Button	Clears any changes made to the settings on this page.	

SNMP

The Interfaces/Ethernet/SNMP window provides the following parameters for configuration:

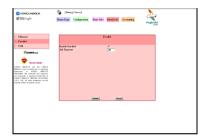


Parameter	Description
Enable SNMP	If selected, enables the parameter settings for SNMP.
	(Default=Checked)
(NMS1 & NMS2)	Identifies the IP community of the printer.
Community	1–32 characters
	(NMS1 Default=Public; NMS2 Default=Private)
(NMS1 & NMS2) Access	Identifies Read or Write access.
	(NMS1 Default=Read; NMS2 Default=Read/Write)
Enable Trap	When this check box is selected (checked), the Trap parameters (below the check box) are enabled.
	(Default=Not checked)
Community	Identifies the community of the printer.
	1–32 characters (Default=Public)

Parameter	Description
Trap IP Address	IP address of the printer.
	(Default=255.255.255.255)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

Parallel

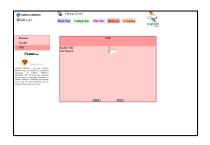
The Interfaces/Parallel window provides the following parameters for configuration:



Parameter	Description
Enable Parallel Menu Select	When selected, enables the parameter settings for parallel. (Default=Checked)
Job Timeout Menu Select	Sets the number of seconds the interface waits for further data from the host before terminating a spooled print job. 0–999 (seconds) (Default=30)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

USB

The **Interfaces/USB** window provides the following parameters for configuration:

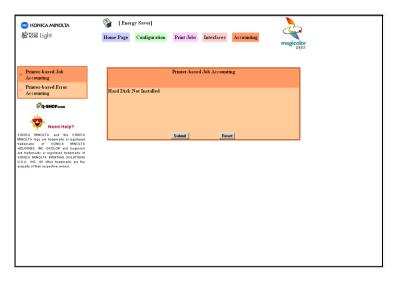


Parameter	Description
Enable USB Menu Select	When selected, enables the parameter settings for USB. (Default=Checked)
Job Timeout Menu Select	Sets the number of seconds the interface waits for further data from the host before terminating a spooled print job. 0–999 (seconds) (Default=5)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

to view this parameter in the printer's control panel menu.

Accounting Page

If a hard disk is installed in the printer, the Accounting window allows you to view accounting reports and reset the Accounting file.



Printer-based Job Accounting

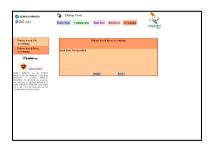
Printer-based Job Accounting maintains a record of each print job sent to the printer. The **Printer-based Job Accounting** window provides the following parameters for configuration:

Parameter	Description
Enable Accounting	When selected, enables the parameter settings for Accounting.
	(Default=Not checked)
Reset Accounting Files	Resets the accounting file located on the printer's internal hard disk. (Default=Not checked)
Display Information	Identifies where the accounting records are to be
Biopidy information	displayed for your review. Choices are
	UPLOAD TO HOST DISPLAY IN PAGESCOPE (Default)

Parameter	Description
Number of Records to Retrieve	Sets the number of accounting file records that are to be retrieved and displayed when Display in PageScope is selected in the Display Information field (described above).
	ALL LAST 10 LAST 50 LAST 100 LAST 250 LAST 500 NONE (Default) When Upload to Host is selected as the Display Information parameter, all records are uploaded regardless of the value of this parameter.
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

Printer-based Error Accounting

Printer-based Error Accounting maintains a record of each error and status message generated by the printer. The **Printer-based Error Accounting** window provides the following parameters for configuration:



Parameter	Description	
Enable Accounting	When selected, enables the parameter settings for Accounting.	
	(Default=Not checked)	
Reset Accounting Files	Resets the accounting file located on the printer' internal hard disk.	
	(Default=Not checked)	

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Parameter	Description
Display Information	Identifies where the accounting records are to be displayed for your review. Choices are
	UPLOAD TO HOST DISPLAY IN PAGESCOPE (Default)
Number of Records to Retrieve	Sets the number of accounting file records that are to be retrieved and displayed when Display in PageScope is selected in the Display Information field (described above).
	ALL LAST 10 LAST 50 LAST 100 LAST 250 LAST 500 NONE (Default)
Submit Button	Sends changes made to the parameters in this window to the printer.
Reset Button	Clears any changes made to the settings on this page.

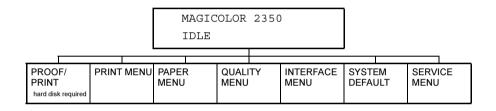
Using the Printer Menu

Many of the printer's configuration settings can be made through the printer's control panel. The following menu charts identify option locations in the menu structure.

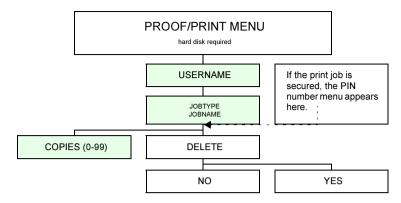


© Clicking on a shaded — menu item opens a page in the PageScope Light section (previous section) to provide information about equivalent controls and settings. After viewing the PageScope Light information, select the Previous View button to return to the menu section.

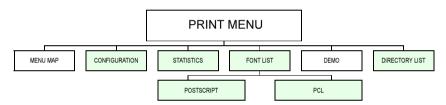
Main Menu



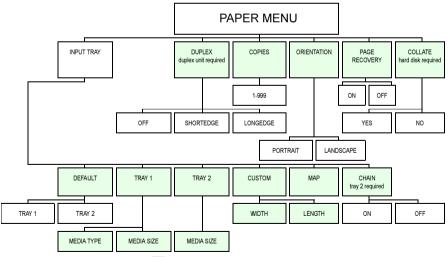
Proof/Print Menu



Print Menu

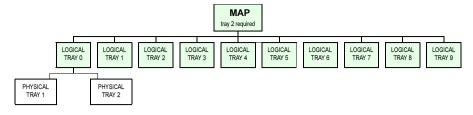


Paper Menu



Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

Paper/Map

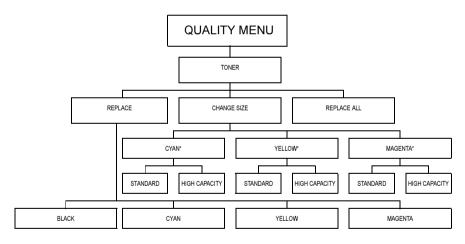


Quality Menu



*See 188 for a description of Duplex Density.

Quality/Toner

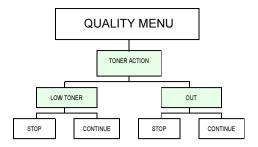


*At this point, some older magicolor 2350 printers may also require you to select the toner cartridge size for cyan, yellow, and magenta cartridges. Although the black cartridge that comes with your printer is standard capacity, replacement black cartridges come only in the high-capacity size, so you don't need to select a black cartridge size during the installation process. If you accidentally select the wrong cartridge size, use the Quality Menu/Toner/Change Size sequence in the configuration menu to change the setting.

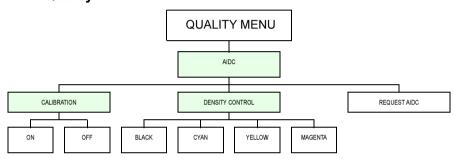
Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

1

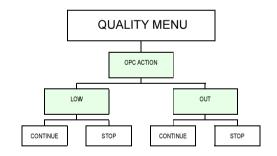
Quality/Toner Action



Quality/AIDC

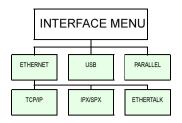


Quality/OPC Action

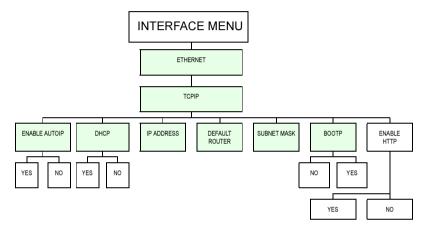


Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

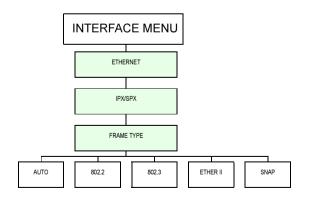
Interface Menu



Interface/Ethernet/TCPIP



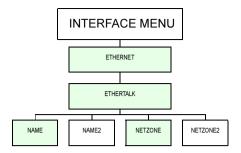
Interface/Ethernet/IPX/SPX



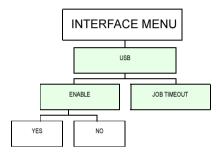
Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

Section

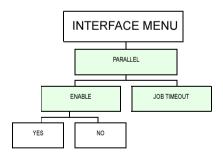
Interface/Ethernet/Ethertalk



Interface/USB

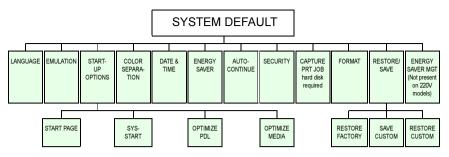


Interface/Parallel

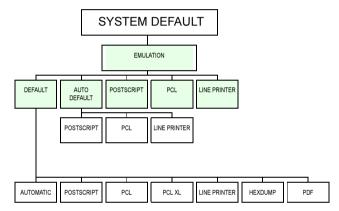


Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

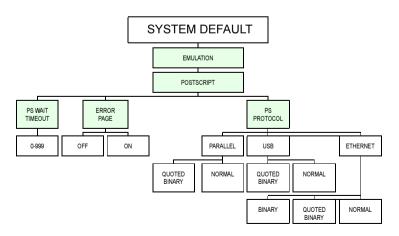
System Default Menu



System Default/Emulation



System Default/Emulation/PostScript

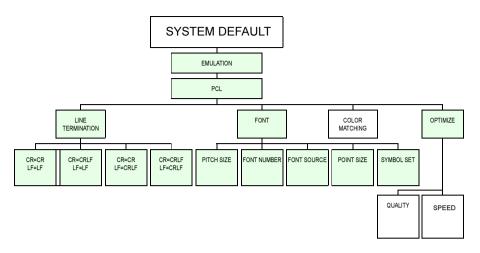


Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

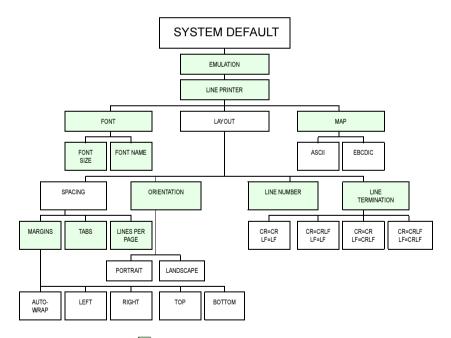
Using the Printer Menu

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System Default/Emulation/PCL



System Default/Emulation/Line Printer

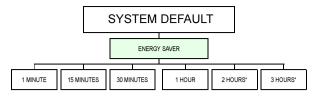


Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

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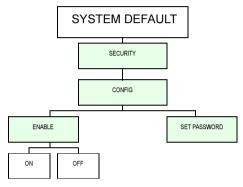
Using the Printer Menu

System Default/Energy Saver

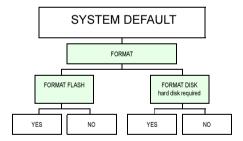


*Not present on 220 V.

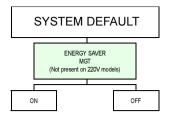
System Default/Security



System Default/Format



System Default/Energy Saver Management



Click on shaded menu items to view descriptions of equivalent PageScope Light controls.

Service Menu

The Service Menu is password protected. It allows a service technician to handle maintenance and service procedures.

Accessing Windows Me & 98 Printer Driver Configuration

There are two methods of accessing the printer driver configuration items in Windows Me/98/95:

1 via the printer device properties		2 via your application's printer setup	
	res you access to all printer tings.	Pa	res you access to Paper, ge Layout, Image, Device tion, and About tabs.
Lets you assign the default printer settings for all print jobs.		Lets you assigns the printer settings for only the current print job.	
Retains your settings until changed again via properties.			mporarily overrides the sting default settings.
Ho	w To:	Но	w To:
1	From the Windows Start menu choose Settings, and then choose Printers.	1	From the application's File menu choose Print (or, in some cases, Print Setup or Page Setup).
2	Select your printer.	2	In the Print, Print Setup, or
3	From the File menu , choose Properties .		Page Setup dialog box, choose your printer.
4	Choose the Details tab , and then select Setup .	3	Select the Properties button.
5	Make your selections, and then select OK to save your changes.	4	Make your selections, and then select OK to save your changes.
6	Close the Printers window.	5	Select OK from the Print Setup window.



You should configure your printer driver settings via the printer device properties method for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.

Standard Printer Driver Tabs in Windows Me & 98

The configuration items of KONICA MINOLTA PostScript drivers are arranged on tabs in combination with the branches and tabs that are provided by the Windows operating system. Each tab or branch represents a functional part of a print job. See your operating system documentation and the printer driver's online help for complete information.

The standard Windows tabs and a summary of the options found on each are as follows:

- General—Allows you to attach comments, use a separator page, and print a test page. See your Windows documentation.
- Details—Allows you to set interface connection details. See your Windows documentation.
- Setup Button—This button on the Details tab leads to the configuration tabs that are also accessible from your application's printer setup properties.
- Sharing—Allows you to set up the printer so others on the network can use it. See your Windows documentation.
- Color Management (Windows Me/98 only)—Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you.

Printer Configuration Tabs in Windows Me & 98

The printer configuration tabs are provided specifically for your printer. You can access these tabs from your application's printer setup properties and from the printer device properties

(see "1... via the printer device properties" on page 265).

- Layout Tab—Contains configuration controls for setting page orientation, duplex options, and pages per sheet.
- Paper Tab—Contains media configuration items. These items allow you to select the media and control how the media is processed by the printer.
 - Advanced Paper Handling—You can configure page header, first page, trailer page, and media selection options.
- Features Tab—Contains links to color, graphics, and PostScript dialogs, and provides resolution and quick color configuration options.
 - Color Options—Allow you to fine-tune color printing settings. However, in most cases, the color optimization provided in the Quick Color Configuration drop-down list box is the easiest way to produce the best color output possible.
 - Configure ICC and CRD Color Matching Dialogs—Opened by selecting the configure buttons on the Color Options dialog.

Accessing Windows Me & 98
Section Printer Driver Configuration

- Graphics Options—Contains configuration items used to control the placement of the image on the page.
- PostScript Options—Allows you to control headers, job timeouts and additional PostScript printing options.
- Overlays Tab—Contains the controls you need to configure and customize watermarks.
 - Watermarks—Accessible from the Overlays tab, the Watermarks dialog allows you add new watermarks and edit existing watermarks.
- Fonts Tab—Contains the configuration items that allow you to specify which fonts are used or substituted for, during printing.
- Consumables Tab—Allows you to monitor your printer's consumables and maintenance schedule. This information is available if the printer's IP Address is entered in the IP Name/Address text box on the Settings tab. The bars show the amount of planes or faces that are left before replacement or maintenance must occur.
- Settings Tab—Allows you to customize the printer driver for your printer's configuration.
- About Tab—Displays the printer driver identification, gives you a link to our Internet website, and allows you to reset all of the driver's configuration items to their original values.

Accessing Windows XP/2000/NT4 Printer Driver Configuration

There are three methods you can use to configure the printer driver designed for Windows XP/2000/NT4. However, these three methods don't all have the same options or control.

1 via the printer device properties	2 via your application's printer setup
Gives you access to the General, Ports, Scheduling (Windows NT4) or Advanced (Windows XP/2000/), Sharing, Security, and About tabs	Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs
Lets you assign the printer set- tings for all print jobs	Lets you assigns the printer settings only for the current print job
Retains your settings until changed again via properties	Temporarily overrides the existing default document settings
How To:	How To:
1 From the Windows Start menu choose Settings.	1 From the application's File menu choose Print (or, in some cases, Print Setup or
2 Choose Printers .	Page Setup).
3 Choose your printer.4 From the File menu, choose Properties.	2 In the Print, Print Setup, or Page Setup dialog box, choose your printer.
5 Make your selections, and then select OK to save	3 Select the Properties button.
your changes. 6 Close the Printers window.	4 Make your selections, and then select OK to save your changes.
	5 Select OK from the Print Setup window.

Section

$oldsymbol{3}_{...}$ via document defaults (Windows NT4) or via printing preferences (Windows XP/2000)

Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs

Lets you assign the default printer settings for all print jobs Retains your settings until changed again via properties

How To:

- 1 From the Windows Start menu choose Settings.
- 2 Choose Printers.
- 3 Select your printer.
- 4 From the File menu, choose Default Document Properties (Windows NT4) or choose Printing Preferences (Windows XP/2000).
- 5 Make your selections, and then select **OK** to save your changes.
- 6 Close the Printers window.



You should configure your printer driver settings via the printer device properties and document defaults properties for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.



Because Windows NT remembers the configuration changes you make to the driver, reinstalling the driver does not restore the factory default configuration.

Printer Device Properties in Windows XP/2000/NT4

The configuration items of KONICA MINOLTA PostScript drivers are arranged on tabs in combination with the branches and tabs that are provided by the Windows operating system. Each tab or branch represents a functional part of a print job. See your operating system documentation and the printer driver's online help for complete information.

The following are tabs that appear when the printer device properties has been chosen. The tabs and a summary of the options found on each are as follows:

■ General (Windows XP, Windows 2000, and Windows NT4)—Allows you to name the printer, specify a location, specify a driver to be used, install a new or updated printer driver, use a separator page between documents.

- specify a specialized print processor/data type, and print a test page. See vour Windows documentation.
- Ports (Windows XP, Windows 2000, and Windows NT4)—Lists the available ports (under Ports), the associated port monitor (under Description). and a comma-delimited list of printers that use the port (under Printer). Allows you to add, delete, or configure ports. It also allows the printer to get setting and status information from other printing devices, and enables printer pooling (printing to two or more identical printing devices through one logical printer). See your Windows documentation.
- Device Settings (Windows XP, Windows 2000, and Windows NT4)— Allows you to configure tray assignments, memory, output protocol and job timeout.
- Settings (Windows XP, Windows 2000, and Windows NT4)—Allows you to customize the printer driver for your printer's configuration.
- Consumables (Windows XP, Windows 2000, and Windows NT4)—Allows you to monitor your printer's consumables and maintenance schedule. This information is available if the printer's IP Address is entered in the IP Name/Address text box on the Settings tab. The bars show the amount of planes or faces that are left before replacement or maintenance must occur.
- Color Management (Windows XP and Windows 2000)—Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you. See your Windows documentation.
- Advanced (Windows XP and Windows 2000), or Scheduling (Windows NT4)—Allows you to configure the printer for availability, set spooling information, and define default document printing priority. See your Windows documentation.
- Sharing (Windows XP, Windows 2000, and Windows NT4)—Allows you to share the printer and install alternate drivers. See your Windows documentation.
- Security (Windows 2000 and Windows NT4)—Allows you to modify the permissions to limit access on the printer, view or set auditing information. or view or take ownership of the selected item(s). See your Windows documentation.

The About, Consumables, Features, Fonts, Layout, Paper/Quality, and Overlay tab—accessible from your application's printer setup and from document default properties are explained next.

Printing Preferences/Document Default Properties in Windows XP/2000/NT4

- Paper/Quality Tab (Windows XP and Windows 2000), or Page Setup (Windows NT4)—Contains media configuration items and color printing selection.
- Layout Tab (Windows XP and Windows 2000)—Contains controls for setting orientation, duplexing, page order, and pages per sheet.
- Features Tab (Windows XP, Windows 2000, and Windows NT4)—Allows you to choose printing resolution, quick color settings, and user default settings. From this tab you can also access additional choices for the following dialogs.
 - Graphics Options—Contains configuration items used to control the placement of the image on the page.
 - Color Options—Contains configuration items that allow you to fine-tune color printing settings. However, in most cases, the color optimization provided in the Quick Color Configuration drop-down list box is the easiest way to produce the best color output possible.
 - Configure ICC and CRD Color Matching—The ICC Color Matching and CRD Color Matching dialogs are opened by selecting the configure buttons on the Color tab.
 - PostScript Options—Allows you to control headers, job timeouts and additional PostScript printing options.
 - Document Options (Windows XP and Windows 2000)—Allows you to setup configuration items to control collation, copy count, Proof-Then-Print, and E-mail notification.
- Overlays Tab (Windows XP, Windows 2000, and Windows NT4)—Allows you to configure and customize watermarks.
 - Watermarks Dialog—Accessible from the Overlays tab, the Watermarks dialog allows you add new watermarks and edit existing watermarks.
- About Tab (Windows XP, Windows 2000, and Windows NT4)—Displays the printer driver identification, gives you a link to our Internet website, and allows you to reset all of the driver's configuration items to their original values.

Printer Driver Configuration Items

For information about printer driver controls, refer to the printer driver's online help.



Not all options described in online help are available on all models of KONICA MINOLTA printers. Refer to your printer documentation to determine which options apply to your printer.



Accounting 5.4

Printer-based Accounting

If your printer has a hard disk installed, it can capture and save details about each print job your printer processes. The captured information is stored in an accounting file on the printer's hard disk and can be retrieved using Page-Scope Light. This chapter describes how to retrieve and interpret the accounting information stored in the accounting file.



You can also use PageScope Net Care to perform advanced accounting tasks. It can gather accounting information for an individual printer or it can combine accounting data for multiple printers on the same network into a single database. See the PageScope Net Care online help or check the user manual on the Software Utilities CD-ROM or from our website at printer.konicaminolta.net/support.

Retrieving Accounting Information

Using PageScope Light

You can retrieve accounting data from your printer using the printer's internal web page interface (PageScope Light).



If Administration security is enabled from the Configuration/Security window, changing accounting parameters requires an administrator password.

- 1 Open the PageScope Light interface associated with the printer containing a hard disk and the accounting data you want to retrieve.
- 2 Select the Accounting button.

The Accounting tab opens.

- 3 Choose the Number of Records to Retrieve.
- 4 Choose how and where the accounting information is to be retrieved from the Display Information list box.



Accounting File Format

CSV File Format

The printer stores accounting data in a CSV (Comma Separated Values) file format. CSV is an ASCII (plain text) representation of spreadsheet data. The values are separated by commas to indicate the separating points for columns.



Many spreadsheet programs can read CSV data, notably Microsoft Excel (TM) for the Macintosh and for the PC.

Data Order

The first line of the file is used for describing each field name. This line is created when each accounting function is activated. Lines following the first line are used for storing actual accounting information.



New information is always attached to the bottom line of the file.

Job Accounting Data Example

Job ID.Function.Owner.Job Name.Finish Time.Faces.Sheets.Paper Size.Format.ImageType<LF> 4,"2 Print Job","John","Report1",2002/07/11 08:40:00,5,5,"39 Letter","9 PCL","4 B/W',....<LF> 5,"2 Print Job","Kevin","Memo",2002/07/11 12:11:15,4,2,"39 Letter","10 PostScript","2 Color",....<LF> 6,"2 Print Job","King","Specification_xx",2002/07/11 14:06:03,3,3,"15 A4","9 PCL","2 Color",....<LF>

Field Definitions

This Section identifies and defines the Job Accounting fields that are used in the Accounting file.

Job Accounting

As each print job is completed, the information describing the print job is saved in the accounting file. This information allows you to analyze consumable usage, media usage, operator usage, and the history of printer activities.

Job Accounting Fields

Field	Charge No	
Format	<numeric (1–="" 8="" digits)=""></numeric>	
Description	This field displays the information identifying the group to be charged for the job.	
Notes	The value of this field corresponds to the PJL command @PJL SET CHARGENUMBER.	

Field	Connection
Format	<string (1–16="" characters)=""></string>
Description	This field describes the connection used to transmit the job.
	Ethernet
	IEEE1284 (parallel)
	Internal
	USB

Field	Copies
Format	<numeric (1–3="" digits)=""></numeric>
Description	The number of copies specified in the received job data.
	Example: 4 (for a job consisting of 5 pages x 4 copies x simplex)

Field	Cyan/Magenta/Yellow/Black Coverage
Format	<numeric (1–3="" digits)=""></numeric>
Description	Percentage of printable area covered by toner. The value is always calculated regarding the printable area of Letter size (8.5 x 11inch) as 100%.

The value is calculated to one decimal place (for example, 51.5%, not 51.54%). Monochrome printers report this value
as 0.

Field	Destination
Format	<string (1–32="" digits)=""></string>
Description	This describes the output place of printed paper.

Field	Details (status)
Format	This field is not used by the magicolor 2350 printer.

Field	Doc Pages
Format	<numeric (1–3="" digits)=""></numeric>
Description	The number of logical pages included in the received job data.
_	Example: 5 (for a job consisting of 5 pages x 4 copies x simplex)

Field	Duplex
Format	<numeric (1="" digit)=""><space><string (1–8="" characters)=""></string></space></numeric>
Description	Identifies whether duplex printing was on or off for the print job.
	1 On
	2 Off

Field	Faces
Format	<numeric (1–4="" digits)=""></numeric>

Description	The number of faces printed for this job.
	Example: 20 (for a job consisting of 5 pages x 4 copies x simplex)
Notes	Faces are physical pages.

Field	Finish Time
Format	<yyyy dd="" mm=""><space><hh:mm:ss></hh:mm:ss></space></yyyy>
Description	The time when the final page of the document is delivered to the output bin.
	Example: 2002/07/05 16:48:35
Notes	This format is supported by MS Excel. This value is null if the printer doesn't have the optional TOD clock installed.

Field	Format
Format	<numeric (1–2="" digits)=""><space><string (1–16="" characters)=""></string></space></numeric>
Description	The file format or language for this job.
	0 Other
	1 Unknown
	8 PDF
	9 PCL
	10 PostScript 12 LinePrinter
	12 LinePrinter

Field	Function
Format	<2 Print Job>
Description	Identifies the printer function that was completed.

Field	Host
Format	<numeric (1–16="" digits)=""></numeric>
Description	This field displays the information identifying the host that submitted the job.
Notes	The value of this field corresponds to the PJL command @PJL SET HOST.

Field	Image Type
Format	<numeric (1="" digit)=""><space><string (1–16="" characters)=""></string></space></numeric>
Description	Identifies the color mode.
	2 Color — Including mono color and full color.
	4 Grayscale — Black and white.

Field	Job ID
Format	<numeric (1–65536)=""></numeric>
Description	This number is used to uniquely identify print jobs sent to the printer. The Job ID is an incremental counter (1-65536) and counts all print jobs received by the printer. After the counter reaches 65536, it restarts the count from 1. The Job ID is assigned when the printer recognizes the data it is receiving as a job.
Notes	The current count remains in memory even after the printer is turned off.

	Job Type
Format	<numeric (1–2="" digits)=""><space><string (1–16="" characters)=""></string></space></numeric>

Description	This field categorizes the type of job received by the printer.
	20 Normal — General printing job.
	21 IPP Print — Normal jobs received via IPP protocol.
	22 Secure Print — password attached job.
	24 Print to HDD—Permanent hold job in HDD.
	25 Proof & Print — Job Retention job.
	29 Report Print — Internally created job. Example: Test Pages

Field	Media Type
Format	<numeric (1–2="" digits)=""><space><string (1–16="" characters)=""></string></space></numeric>
Description	The media type used by the job. If multiple media types are included in the same job, the last fed one is captured in this information.
	208 Other
	209 UnKnown
	210 Plain Paper
	220 CardStock
	230 Transparency
	240 Envelope
	242 Label
	244 Post Card
	246 Letterhead

Field	Owner
Format	<string (1–64="" characters)=""></string>
Description	This field displays the information identifying the owner that submitted the job.
Notes	The value of this field corresponds to the PJL command <code>@PJL</code> SET USERNAME.

Field	Paper Size
Format	<numeric (1–2="" digits)=""><space><string (1–8="" characters)=""></string></space></numeric>
Description	The paper size used by the job. If multiple paper sizes are included in the same job, the last fed size is captured in this information.
	15 A4
	39 Letter
Notes	In the case of Custom Paper size, the following format is used.
	0 210.0*170.0mm — Unit is always in millimeters.

Field	Receive Time
Format	<yyyy dd="" mm=""><space><hh:mm:ss></hh:mm:ss></space></yyyy>
Description	The date and time when the printer receives the job data.
	Example: 2002/07/05 16:48:30
Notes	This format is supported by MS Excel. This value is null if the printer doesn't have the optional TOD clock installed.

Field	Resolution
Format	<string (1–16="" characters)=""></string>
Description	The resolution (dpi) of images.
	600*600*1
	1200*1200*1
	600*600*4 — 4-bit contone — 9600 x 600 dpi class

Field	Sheets
Format	<numeric (1–4="" digits)=""></numeric>
Description	The number of physical sheets of paper used for this job.
	Example: 20 (for a job consisting of 5 pages x 4 copies x simplex)
	Example: 12 (for a job consisting of 5 pages x 4 copies x duplex)

Field	Status
Format	<numeric (1–2="" digits)=""><space><string (1–8="" characters)=""></string></space></numeric>
Description	The completion status of the job.
	0 Unknown
	30 Completed
	31 OK-Caution — Some restriction occurred on a job but ignored. (For example, the job was printed to different paper size).
	32 Aborted — Stopped or canceled by internal issues, such as a PostScript error.
	33 Canceled — Deleted by user operation

Field	Title
Format	<string (1–32="" characters)=""></string>
Description	The title of the document, if known.
Notes	The value of this field corresponds to the PJL command @PJL JOB NAME.





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