

Network Guide

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- 1** Windows Configuration
 - 2** Using a Printer Server
 - 3** Monitoring and Configuring the Printer
 - 4** Appendix

Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Notes:

Certain options might not be available in some countries. For details, please contact your local dealer.

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The proper names of the Windows operating systems are as follows:

- The product names of Windows® 98 are as follows:
 - Microsoft® Windows® 98
 - Microsoft® Windows® 98 Second Edition
- The product name of Windows® Me is Microsoft® Windows® Millennium Edition (Windows Me)
- The product names of Windows® 2000 are as follows:
 - Microsoft® Windows® 2000 Advanced Server
 - Microsoft® Windows® 2000 Server
 - Microsoft® Windows® 2000 Professional
- The product names of Windows® XP are as follows:
 - Microsoft® Windows® XP Professional
 - Microsoft® Windows® XP Home Edition
 - Microsoft® Windows® XP Professional x64 Edition
- The product names of Windows Server® 2003 are as follows:
 - Microsoft® Windows Server® 2003 Standard Edition
 - Microsoft® Windows Server® 2003 Enterprise Edition
 - Microsoft® Windows Server® 2003 Web Edition

Manuals for This Machine

Refer to the manuals that are relevant to what you want to do with the machine.

Important

- Media differ according to manual.
- The printed and electronic versions of a manual have the same contents.
- Adobe Acrobat Reader/Adobe Reader must be installed in order to view the manuals as PDF files.
- Depending on which country you are in, there may also be html manuals. To view these manuals, a Web browser must be installed.

❖ About This Machine

Be sure to read the Safety Information in this manual before using the machine.

This manual provides an introduction to the functions of the machine. It also explains the control panel, preparation procedures for using the machine, and how to install the CD-ROMs provided.

❖ General Settings Guide

Explains User Tools settings, and how to register user codes.

❖ Troubleshooting

Provides a guide to solving common problems, and explains how to replace paper, toner, and other consumables.

❖ Copy Reference

Explains Copier functions and operations. Also refer to this manual for explanations on how to place originals.

❖ Printer/Scanner Reference

Explains system settings, functions and operations for the machine's printer/scanner unit. Also refer to this manual for explanations on how to connect the machine.

❖ Network Guide

Explains how to configure and operate the machine in a network environment, and use the software provided.

❖ Other manuals

- Manuals for This Machine
- Safety Information
- Quick Reference Copy Guide
- Quick Reference Printer/Scanner Guide

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How to Read This Manual

Symbols

This manual uses the following symbols:

WARNING:

Indicates important safety notes.

Ignoring these notes could result in serious injury or death. Be sure to read these notes. They can be found in the “Safety Information” section of About This Machine.

CAUTION:

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read these notes. They can be found in the “Safety Information” section of About This Machine.

Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

Note

Indicates supplementary explanations of the machine’s functions, and instructions on resolving user errors.

Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys that appear on the machine’s display panel.

[]

Indicates the names of keys on the machine’s control panel.

Setting Up the Machine on a Network

This section describes the network settings you can change with User Tools (Interface Settings). Make settings according to functions you want to use and the interface to be connected.

Important

- These settings should be made by the systems administrator, or after consulting with the systems administrator.

Initial Settings Overview

❖ Interface Settings

Menu	Description
IP Address	Specifies the machine IP address and subnet mask in the network environment.
Gateway Address	Configure the gateway address for the router or host computer used as a gateway.
Ethernet Speed	Set the access speed for networks.

Initial Settings

Viewing the Information Displayed in the List

● These items must be set to use the function. Be sure to set them before attempting to use the corresponding function.

○ These items must be set if required.

❖ Printer

Settings		
Interface Settings/Network	IP Address	●
	Gateway Address	○
	Ethernet Speed	○

❖ Network TWAIN Scanner

Settings		
Interface Settings/Network	IP Address	●
	Gateway Address	○
	Ethernet Speed	○

 **Note**

- Depending on which optional units you have installed or the printer language you have selected, some options are not displayed.
- Depending on the security settings, you might not be able to set certain options.

 **Reference**

For details, see “Interface Settings”, General Settings Guide.

For details about copier features and system settings, see Copy Reference and General Settings Guide.

1. Windows Configuration

Configuring TCP/IP

This section explains configuring Windows for TCP/IP and IPP.

Configuring a Windows 98 / Me Computer

Follow the procedure below to configure a Windows 98 / Me computer to use TCP/IP.

- 1** On the [Start] menu, point to [Settings], and then click [Control Panel].
- 2** Double-click the Network icon.
- 3** Select [TCP/IP] in the [The following network components are installed] box on the [Configuration] tab.
If TCP/IP is not installed, click [Add] on the [Configuration] tab to install it. For details about installing TCP/IP, see Windows 98 / Me Help.
- 4** Click [Properties].
- 5** Configure TCP/IP using the appropriate IP address, subnet mask, and other settings.
Check with the network administrator that the settings are correct.

Configuring a Windows 2000 Computer

Follow the procedure below to configure a Windows 2000 computer to use TCP/IP.

- 1** On the [Start] menu, point to [Settings], and then click [Network and Dial-up Connections].
- 2** Double-click [Local Area Connection]. On the [General] tab, click [Properties].
- 3** Select [Internet Protocol (TCP/IP)] in the [Components checked are used by this connection] box on the [General] tab.
If TCP/IP is not installed, click [Install] on the [General] tab to install it. For details about installing TCP/IP, see Windows 2000 Help.
- 4** Click [Properties].
- 5** Configure TCP/IP using the appropriate IP address, subnet mask, and other settings.
Check with the network administrator that the settings are correct.

Configuring a Windows XP Computer

Follow the procedure below to configure a Windows XP computer to use TCP/IP.

- 1** On the [Start] menu, click [Control Panel], and then click [Network Connections].
- 2** Click [Network Connections], and then double-click [Local Area Connection].
- 3** On the [General] tab, click [Properties].
- 4** Select [Internet Protocol (TCP/IP)] in the [This connection uses the following items] box on the [General] tab.
If TCP/IP is not installed, click [Install] on the [General] tab to install it. For details about installing TCP/IP, see Windows XP Help.
- 5** Click [Properties].
- 6** Configure TCP/IP using the appropriate IP address, subnet mask, and other settings.
Check with the network administrator that the settings are correct.

Configuring a Windows Server 2003 computer

Follow the procedure below to configure a Windows Server 2003 computer to use TCP/IP.

- 1** On the [Start] menu, point to [Control Panel], point to [Network Connections], and then click [Local Area Connection].
- 2** On the [General] tab, click [Properties].
- 3** Select [Internet Protocol (TCP/IP)] in the [This connection uses the following items] box on the [General] tab.
If TCP/IP is not installed, click [Install] on the [General] tab to install it. For details about installing TCP/IP, see Windows Server 2003 Help.
- 4** Click [Properties].
- 5** Configure TCP/IP using the appropriate IP address, subnet mask, and other settings.
Check with the network administrator that the settings are correct.

2. Using a Printer Server

Preparing Printer Server

This section explains how to configure the machine as a Windows network printer. The machine is configured to enabling network clients to use it.

Important

- Under Windows 2000, Windows XP Professional, or Windows Server 2003, to change printer properties in the **[Printer]** folder, you need Printer Management access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

1 Open the **[Printers]** window from the **[Start]** menu.

The **[Printers]** window appears.

Under Windows XP or Windows Server 2003, **[Printers and Faxes]** window appears.

2 Click the icon of the machine you want to use. On the **[File]** menu, click **[Properties]**. The printer properties appear.

3 On the **[Sharing]** tab, click **[Shared As:]**.

4 To share the machine with users using a different version of Windows, click **[Additional Drivers...]**.

If you have installed an alternative driver by selecting **[Share As:]** during the printer driver installation, this step can be ignored.

5 Click **[OK]**, and then close the printer properties.

Reference

Configuring a network client computer, see "Printing with a Print Server", Printer/Scanner Reference.

3. Monitoring and Configuring the Printer

Features

You can check the status of the machine and change its settings using a Web browser.

❖ What can I do?

You can remotely check the status of the machine remotely, and if necessary change its settings over the network using a Web browser.

The following functions are available using a Web browser:

- Displaying machine status/settings
- Resetting network settings
- Making machine settings

❖ Configuring the machine

This requires TCP/IP to be installed. After the machine has been configured to use TCP/IP, it will be possible to adjust its settings using a Web browser. For details about configuring the machine to use TCP/IP, see “Setting Up the Machine on a Network”.

❖ Browser

If you are using a proxy server, change the Web browser settings. Consult your network administrator about the settings.

The machine's information is not updated automatically. Click **[Reload]** or **[Refresh]** on the Web browser to update it.

❖ Specifying the address

Enter the machine's IP address in the [Address] box, using the following format: `http://XXX.XXX.XXX.XXX` (Replace XXX with the appropriate numbers.) Alternatively, you can enter the machine's host name if it is already registered on the DNS or WINS server.

🔍 Reference

p.2 “Setting Up the Machine on a Network”

Settings You Can Change Using a Web Browser

❖ System

- **Reset**
Reset the machine's settings.
- **Factory Defaults**
Reset the machine's settings to their default values.
- **Unit Status**
Display the machine's network settings.
- **Network Address**
Display the machine's serial number and Ethernet address (MAC address).
- **Change Password**
Change the password.

❖ Protocols

- **Setup TCP/IP**
Configure the machine's TCP/IP settings.
- **Setup IPP**
Configure the machine's IPP settings.

❖ Others

- **Printer Status**
Display the machine's printer status.

Configuring the Network Interface Board Using a Web Browser

1 Start the Web browser.

2 Enter the machine's IP address in the [Address] box, using the following format: `http://XXX.XXX.XXX.XXX` (Replace XXX with the appropriate numbers.)

The Web browser identifies the machine by its IP address, and then displays the status of that machine.

3 In the menu area, select the setting you want to change, and then configure it as necessary.

 **Note**

- Enter a password if necessary.
- Default password is "sysadm".

Using DHCP

If this machine is configured for DHCP, and the DHCP request fails four times, BOOTP takes over the request. If the BOOTP request fails three times, the Default IP address is used.

SNMP

The machine is equipped with an SNMP (Simple Network Management Protocol) agent that operates under UDP and IPX on the Ethernet interface. The SNMP manager enables you to get information about the machine.

The default community names are “public” and “private”. You can get MIB information using these community names.




❖ Supported MIBs

- MIB-II
- PrinterMIB
- HostResourceMIB

Error Messages on the Display

This section explains the most common network-related messages that appear on the display. If a message not shown here appears, follow its instructions.

Messages without Code Numbers

Message	Causes	Solutions
 Cannot connect to network Check IP Address.	Network connection could not be established.	Check the machine's IP address.
 Cannot connect to network Contact administrator.	Network connection could not be established.	Check the network. If this message continues to appear, contact your Administrator.
Ethernet Board Error	An Ethernet board error has occurred.	Turn off the main power switch, wait a few seconds, and then turn it back on. If this message continues to appear, contact your sales or service representative.
 Server communicat. failed Contact administrator.	Cannot communicate with the server.	Check the server. If this message continues to appear, contact your Administrator.

Reference

Before turning the main power off, see “Turning On the Power”, About this Machine.

Messages with Code Numbers

Message	Causes	Solutions	Code numbers
Cannot connect with DHCP server	The DHCP server cannot be found.	Check the DHCP server is running on the network.	101
The same IP Address already exists	The specified IP address overlaps another IP address.	The IP address specified for the machine overlaps another IP address in use. Check the address of the device indicated in <MAC address>.	102
Check network settings	An unauthorized value is specified as the IP address or gateway address.	Change the IP address, subnet mask, or gateway address to the correct value.	103
The same IP Address exists on several interfaces	IP addresses overlap across multiple interfaces. IP addresses of simultaneously operating interfaces overlap.	The IP address of the specified interface overlaps the IP address of another interface. Configure the IP address so it does not overlap.	004
Cannot set within the same subnet range	The subnet masks of simultaneously operating interfaces overlap.	The subnet range of the specified interface overlaps the subnet range of another interface. Configure the subnet mask so it does not overlap.	005

❖ Code Numbers

Displays the problem interface.

- 1XX: Ethernet
- 0XX: Independent of interface

Specifications

Interface	100BASE-TX, 10BASE-T
Protocol	<ul style="list-style-type: none">• Printer TCP/IP LPR IPP• Network Scanner TCP/IP• Management Function TCP/IP SNMP HTTP DHCP
SNMP	MIB-II, PrinterMIB, HostResourceMIB

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