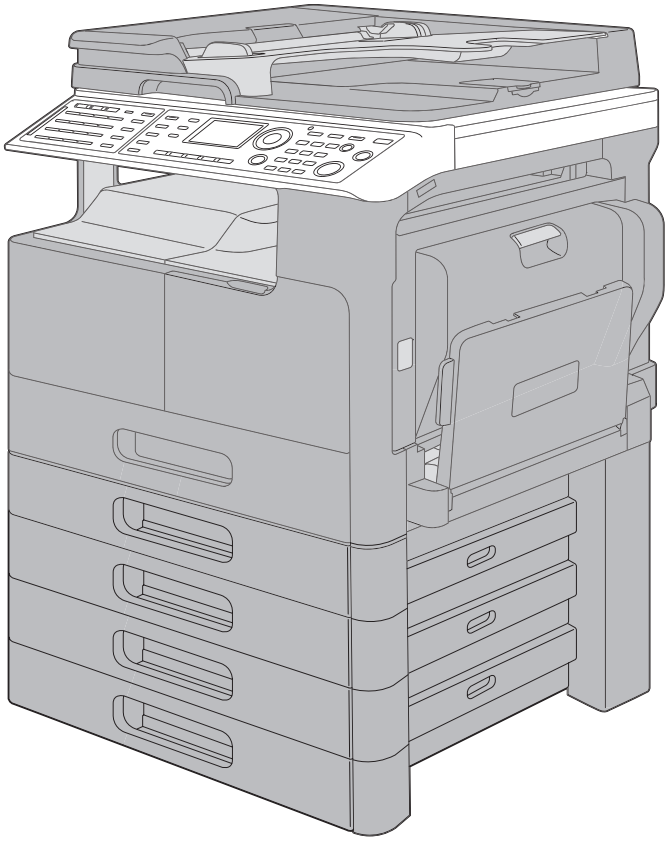
KONICA MINOLTA

The essentials of imaging

bizhub 215

User's Guide [Print Operations]



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1 Introduction

1 Introduction

1.1 Welcome

Thank you for purchasing this machine.

This User's Guide describes the functions, operating instructions, precautions for correct operation, and simple troubleshooting guidelines of this machine. In order to obtain maximum performance from this product and use it effectively, please read this User's Guide as necessary.

1.1.1 User's guides

Printed manual	Overview
[Quick Guide Copy/Print/Fax/Scan Operations]	This manual describes operating procedures and the most frequently used functions in order to enable you to begin using this machine immediately.

User's guide CD manuals	Overview
[User's Guide Copy Operations]	This manual describes details on copy mode operations and the settings of this machine. • Specifications of originals and copy paper • Copy function • Maintaining this machine • Troubleshooting
[User's Guide Fax Operations]	This manual describes details on fax mode operations and settings. • G3 fax function • Internet Fax • PC-FAX
[User's Guide Print Operations]	This manual describes details on printer functions. • Printer function • Setting the printer driver
[User's Guide Scan Operations]	This manual describes details on scan functions. • Scan Function • Setting the TWAIN/WIA scan driver • Network scan (E-mail TX, FTP Send, and SMB Send) • Scan to USB
[User's Guide Network Administrator]	This manual describes details on setting methods for each function using the network connection. • Network settings • Settings using **PageScope Web Connection**
[Trademarks/Copyrights]	This manual describes details on trademarks and copyrights. • Trademarks and copyrights

1.1.2 User's Guide

This User's Guide is intended for users ranging from those using this machine for the first time to administrators.

It describes basic operations, functions that enable more convenient operations, maintenance procedures, simple troubleshooting operations, and various setting methods of this machine.

Note that basic technical knowledge about the product is required to enable users to perform maintenance work or troubleshooting operations. Limit your maintenance and troubleshooting operations to the areas explained in this manual.

Should you experience any problems, please contact your service representative.

1.2 Conventions used in this manual

1.2.1 Symbols used in this manual

Symbols are used in this manual to express various types of information.

The following describes each symbol related to correct and safe usage of this machine.

To use this machine safely

⚠ WARNING
- This symbol indicates that a failure to heed the instructions may lead to death or serious injury.

⚠ CAUTION
- This symbol indicates that negligence of the instructions may lead to mishandling that may cause injury or property damage.

NOTICE
This symbol indicates a risk that may result in damage to this machine or documents.
Follow the instructions to avoid property damage.

Procedural instruction

✔ This check mark indicates an option that is required in order to use conditions or functions that are prerequisite for a procedure.

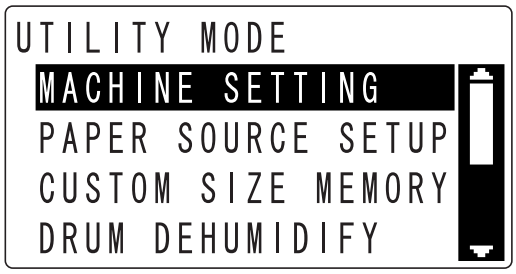
1 This format number "1" represents the first step.

2 This format number represents the order of serial steps.

➔ This symbol indicates a supplementary explanation of a procedural instruction.

The operation procedures are described using illustrations.

➔ This symbol indicates transition of the **Display** to access a desired menu item.



This symbol indicates a desired page.

Reference
This symbol indicates a reference.

View the reference as required.

Key symbols

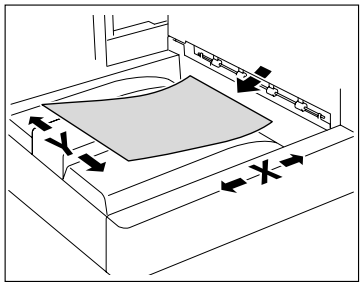
[ ]
Display items, key names on the computer screen, or a name of a user guide by these brackets.

Bold text
Key names, part names, product names and option names on the **Control Panel** are indicated in bold text.

1.2.2 Original and paper indications

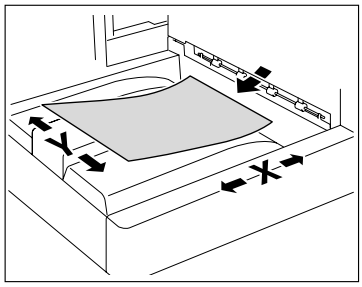
Original and paper sizes

The following explains the indication for originals and paper described in this manual.
When indicating the original or paper size, the Y side represents the width and the X side the length.

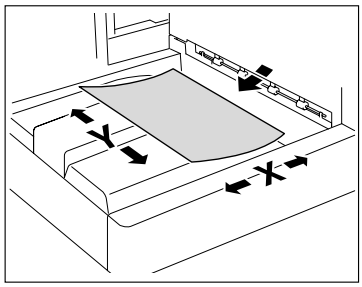


Original and paper indications

▭ indicates the paper size with the length (X) being longer than the width (Y).



▯ indicates the paper size where the length (X) is shorter than the width (Y).



2 Overview

2 Overview

2.1 Printer Controller

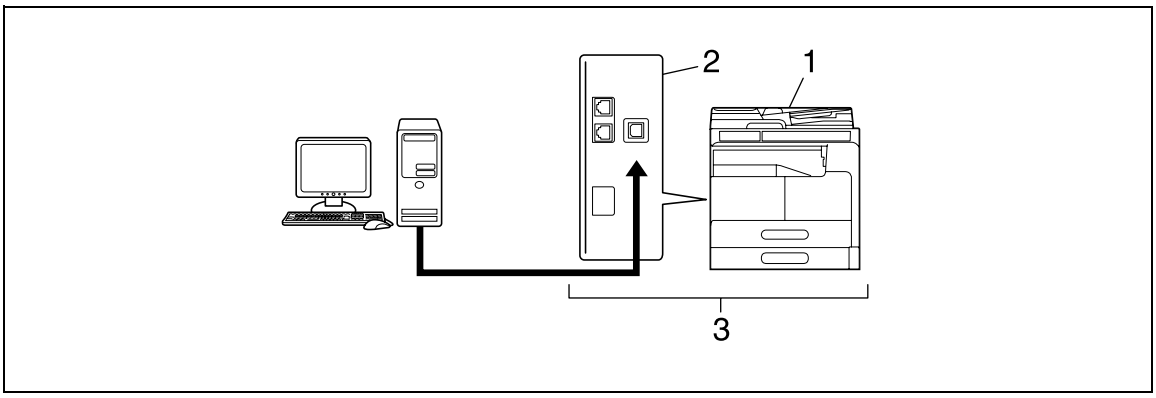
The printer controller is a device that enables the printing function on this machine.

2.1.1 Roles of the printer controller

Incorporating the printer controller enables this machine to function as a printing system, which enables printing through the use of applications loaded on the computer connected to this machine. When using this machine as a network printer, you can print using applications loaded on the computer. Two types of controllers are available for this machine: The standard controller and the optional **Image Controller IC-209**.

Standard controller

The standard controller can be connected to the computer via a USB port, and uses the GDI printer driver for printing.



1. This machine
2. Printer controller
3. Printing system

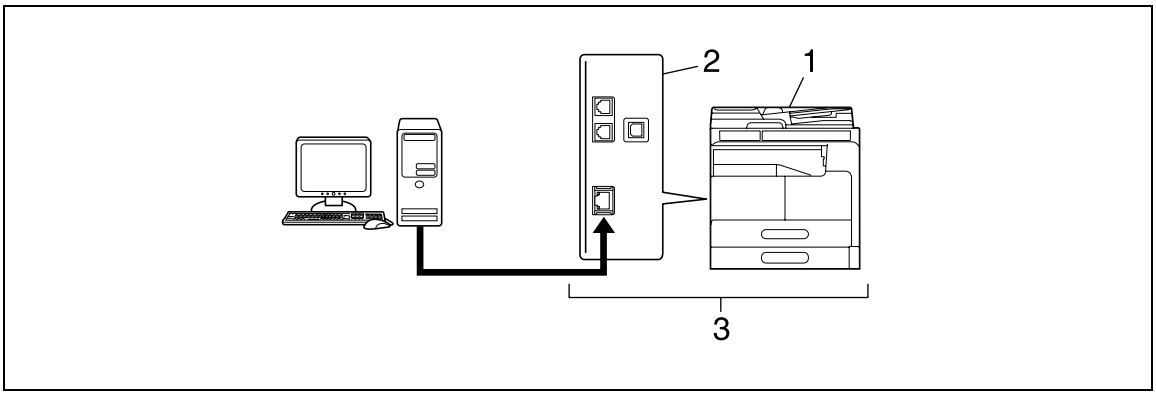
The standard printer controller provides the following functions:

- Printing data sent from a printer driver on a computer
- Controlling the number of pages to be printed (Account Track functions)
- Fax transmission direct from a computer (PC-FAX transmission)

If optional **Network Card NC-504** is installed, you can use functions via the network in the same way as when optional **Image Controller IC-209** is installed.

Optional Image Controller

The optional image controller can be connected to the computer via a USB or network port, and uses the PCL printer driver for printing.



1. This machine
2. Printer controller
3. Printing system

Optional **Image Controller IC-209** provides the following functions:

- Printing data sent from a printer driver on a computer
- Supporting network protocols including TCP/IP (IPv4/IPv6)
- Printing via the network using Web service (Windows Vista/7/Server 2008/Server 2008 R2), LPR or IPP printing
- Configuring settings for this machine and the printer controller from a client computer via the network (using a Web browser)
- Controlling the number of pages to be printed (Account Track functions)
- Fax transmission direct from a computer (PC-FAX transmission)

Reference

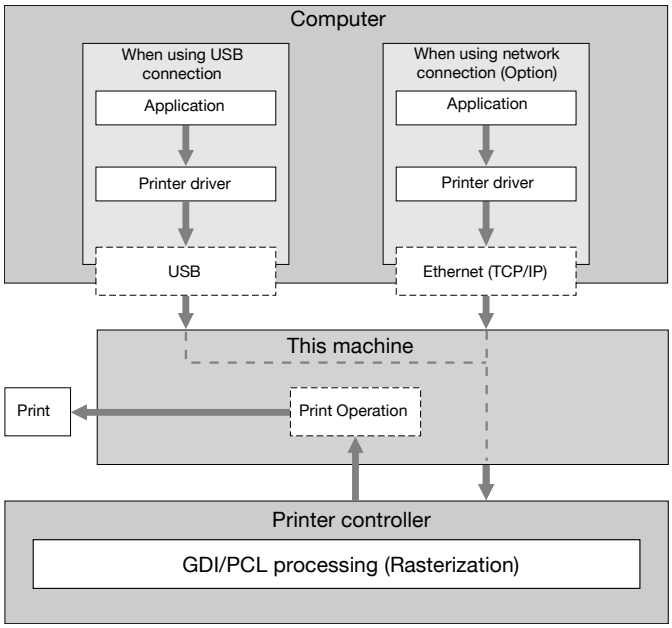
*The PC-FAX transmission requires optional **Fax Kit FK-510** and **Extended Operation Panel MK-733**. For details on the PC-FAX transmission, refer to the [User's Guide Fax Operations].*

2.1.2 Flow of printing

The following outlines the flow of operations for using this printing system as a printer.

Print data sent from an application is received by the printer driver.

The data is sent to this machine via the USB interface for USB connection or Ethernet (TCP/IP) for network connection. Then the data is passed from this machine to the printer controller. The printer controller rasterizes images (expands output target characters and images to bitmap data). This data is printed from this machine.



When a print job is received during copying, the data is stored in the memory of this machine. When the copying is completed, the print job is automatically printed.

2.2 Operating environment

This section describes the system requirements for using the printing system including the standard printer controller or optional **Image Controller IC-209**, and the interfaces used for connection.

2.2.1 Connectable computers and operating systems

Ensure that the computer to be connected meets the following conditions.

Operating system	Windows XP (x86, SP3 or later) Windows XP (x64, SP2 or later) Windows Server 2003 (x86/x64, SP2 or later) Windows Vista (x86/x64, SP2 or later) Windows Server 2008 (x86/x64) Windows Server 2008 R2 (x64) Windows 7 (x86/x64)
CPU	Windows XP, Windows Server 2003: 300 MHz or higher specification is recommended Windows Vista: 1 GHz or higher specification is recommended Windows Server 2008, Windows 7: 2 GHz or higher specification is recommended
Memory	Windows XP, Windows Server 2003: 128 MB Windows Vista: 1 GB Windows Server 2008, Windows 7: 2 GB Sufficient memory resource is required for your operating system and the applications to be used.
Drive	CD-ROM drive

2.2.2 Interface used for connection

To connect this printing system to the computer, the following interfaces can be used.

USB interface

Use this interface to use this printing system via a USB connection. The USB interface can be connected to a computer running Windows. A USB cable is required for connection. Use a type A (4 pin, male) or type B (4 pin, male) USB cable.

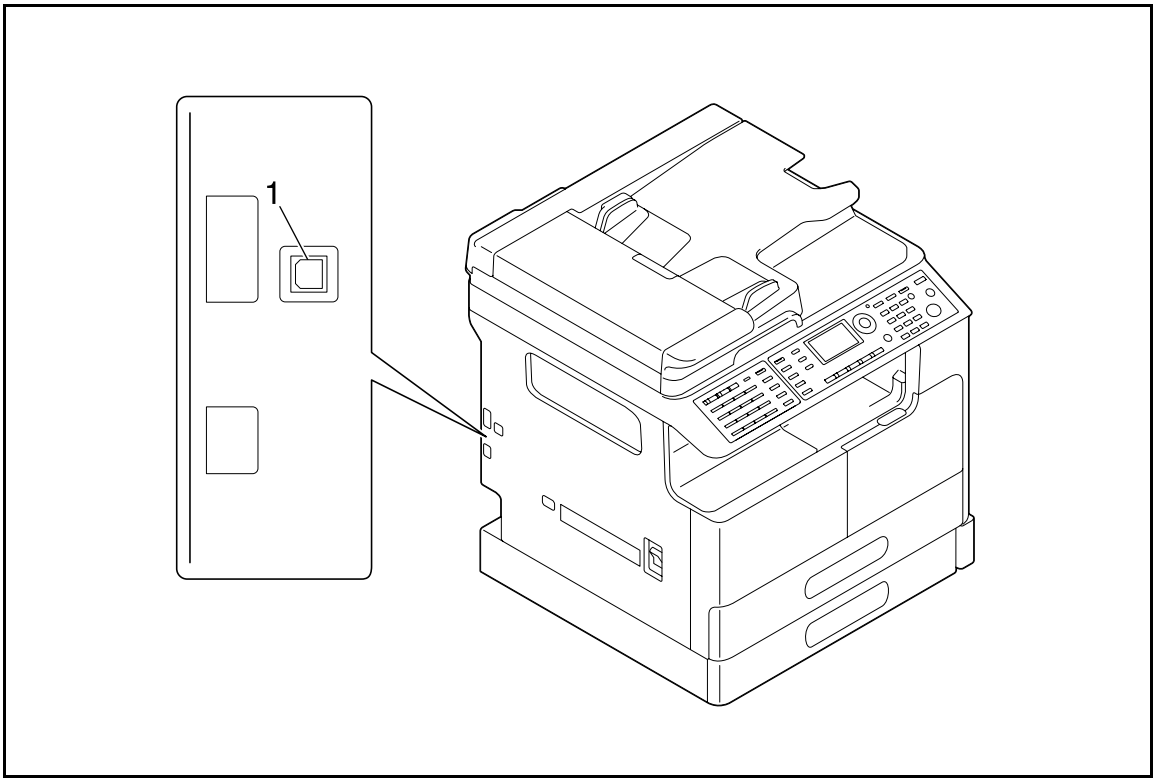
Ethernet

Use this interface to use this printing system via a network connection.
Optional **Image Controller IC-209** or **Network Card NC-504** is required.
It supports 100Base-TX and 10Base-T standards. In addition, TCP/IP (LPD/LPR, IPP) and Web service protocols are supported.

Connection diagram

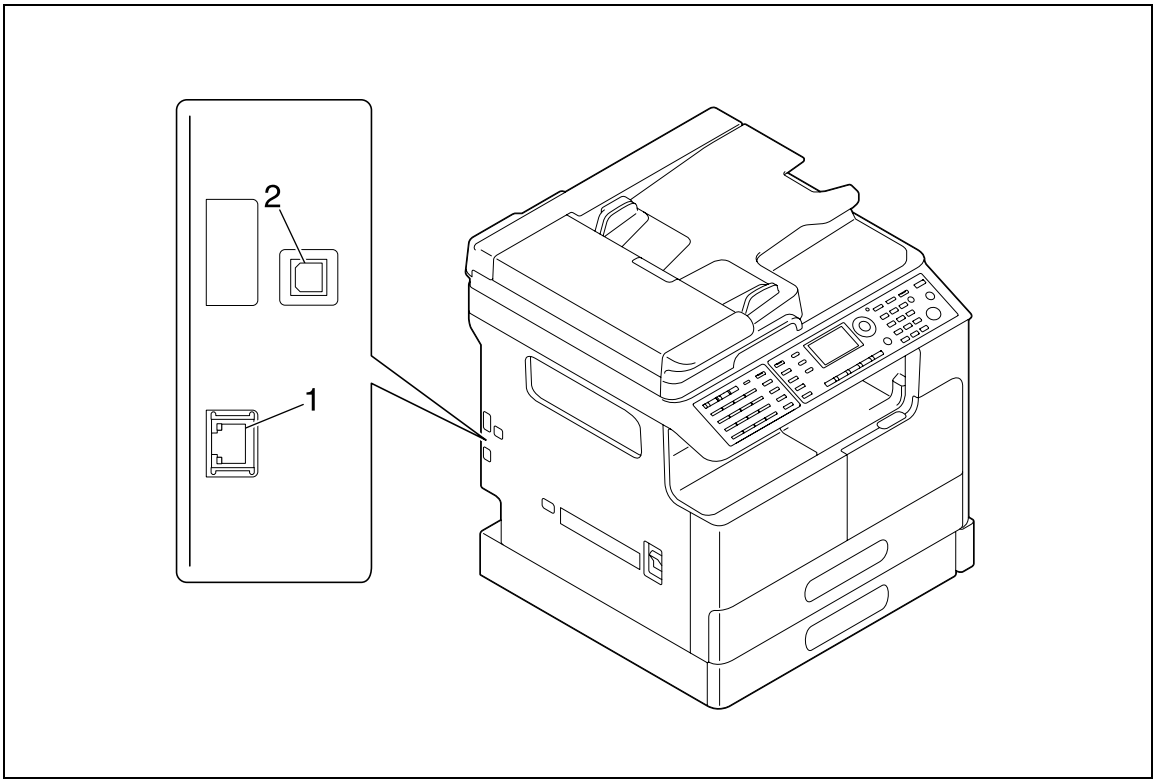
The printer cables are connected to each port on this machine.

Back side of the machine (Standard printer controller)



1. **USB port (type B) for USB 2.0/1.1**

Back side of the machine (Optional **Image Controller IC-209**)



1. Network connector (10 Base-T/100 Base-TX)
2. USB port (type B) for USB 2.0/1.1

2.3 Setup procedure

To use this printing system, you must complete the setup in advance.

The setup refers to a series of procedures for connecting the machine to the computer and installing the printer driver to the computer.

Perform the setup using the following procedures.

2.3.1 For local connection (USB port)

1 Connect this machine to the computer.

2 Install the printer driver.

- ➔ If the standard printer controller is installed, install the GDI printer driver.
- ➔ If optional **Image Controller IC-209** is installed, install the PCL printer driver.
- ➔ When you install the printer driver, WIA and TWAIN scan drivers are installed at the same time.

2.3.2 For network connection

1 Connect this machine to the computer.

2 Check that the computer to be used is connected to the network.

3 Specify the IP address of this machine, and then connect it to the network.

4 Change the network settings for this machine according to the connection method or protocol.

- ➔ LPR: From [TCP/IP Configuration]-[LPD Setting], enable LPD printing.
- ➔ Port 9100: In [IPv4 Configuration], enable the RAW port number (initial setting: [9100]).
- ➔ IPP: In [IPP Configuration], enable IPP printing.
- ➔ Web Service Print: In [WSD Configuration], enable [Use WSD Browsing].
- ➔ When you install the printer driver, WIA and TWAIN scan drivers are installed at the same time.

5 Install the printer driver.

- ➔ If **Network Card NC-504** is installed on the standard printer controller, install the GDI printer driver.
- ➔ If optional **Image Controller IC-209** is installed, install the PCL printer driver.
- ➔ Specify the network port for the printer driver according to the connection method or protocol.

Tips

- After installing the printer driver, perform test print to make sure that the connections are made properly.

Reference

For details on the network settings, refer to the [User's Guide Network Administrator].

The procedure for installing the printer driver varies depending on the connection method, operating system of the computer, and printer driver. For details, refer to page 3-2.

To update an existing printer driver, uninstall it first. For details, refer to page 3-17.

3 Installing the Printer Driver

3 Installing the Printer Driver

3.1 Printer drivers compatible with respective operating systems

Before using this printing system, you must install the printer driver.

The following lists the printer drivers included on the CD and the supported operating systems. Select the required printer driver.

Printer driver	Page description language	Supported Operating Systems
KONICA MINOLTA GDI Driver (GDI driver)	GDI	Windows XP (×86, SP3 or later) Windows XP (×64, SP2 or later) Windows Server 2003 (×86/×64, SP2 or later) Windows Vista (×86/×64, SP2 or later) Windows Server 2008 (×86×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)
KONICA MINOLTA PCL Driver (PCL driver)	PCL	Windows XP (×86, SP3 or later) Windows XP (×64, SP2 or later) Windows Server 2003 (×86/×64, SP2 or later) Windows Vista (×86/×64, SP2 or later) Windows Server 2008 (×86/×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)
KONICA MINOLTA XPS Driver (XPS driver)	XPS	Windows Vista (×86/×64, SP2 or later) Windows Server 2008 (×86/×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)
Fax driver		Windows XP (×86, SP3 or later) Windows XP (×64, SP2 or later) Windows Server 2003 (×86/×64, SP2 or later) Windows Vista (×86/×64, SP2 or later) Windows Server 2008 (×86/×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)

Tips

- Select the page description language according to the application used for printing.
- Either of the installer or Add Printer Wizard can be used to install the printer driver.
- The XPS driver does not support account track functions. If you are using account track functions on this machine, use another driver.
- To use the PCL driver for printing, optional **Image Controller IC-209** is required.
- To use the fax driver for PC-FAX transmission, optional **Fax Kit FK-510** and **Extended Operation Panel MK-733** are required.

Reference

For details on the fax driver, refer to the [User's Guide Fax Operations].

3.2 Connection methods able to be selected in each operating system

The connection method for this machine varies depending on the operating system of the computer. The printer driver installation method also varies depending on the connection method. This machine can be connected via a network or a USB interface. In network connection, the printer driver installation method varies depending on the protocol to be used. For network connection, optional **Image Controller IC-209** or **Network Card NC-504** is required.

Network connection (Ethernet):
This machine is connected as a network printer.
This printing system supports 100Base-TX and 10Base-T standards. In addition, TCP/IP (LPD/LPR, IPP) protocols are supported.
The applicable protocols vary depending on the operating system of the computer.

USB interface:
This machine is connected as a local printer. The USB interface can be connected to a computer running Windows.
For USB connection, this manual covers only the plug and play based setup procedures.

3.2.1 Windows Vista/7/Server 2008/Server 2008 R2

Setup procedures	Connection method		Reference page
Connection method in which installer-based setup is possible	Port 9100	A network connection using the Port 9100 print service. It uses a TCP/IP protocol and the RAW printing port.	p. 3-5
	USB	A connection using a USB port.	
Connection method in which setup is possible using Add Printer Wizard	LPR	A network connection using the LPR (Line Printer Remote) print service. It uses a TCP/IP protocol and the LPR printing port.	p. 3-7
	Port 9100	A network connection using the Port 9100 print service. It uses a TCP/IP protocol and the RAW printing port.	
	IPP	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol.	
	Web service print	It is a connection corresponding to Web Service function of Windows Vista/7/Server 2008/Server 2008 R2 and capable of automatically detecting printers on the network.	
	USB	A connection using a USB port.	
Connection method in which plug and play-based setup is possible	USB	A connection using a USB port.	p. 3-12

Tips

- Log on to the computer using a user name that has the Administrator privilege, then install the printer driver.
- The installer does not support installation in IPv6 environments.

Reference

Before you can use this machine in the network environment, you must configure network settings for this machine. For details, refer to the [User's Guide Network Administrator].

3.2.2 Windows XP/Server 2003

Setup procedures	Connection method		Reference page
Connection method in which installer-based setup is possible	Port 9100	A network connection using the Port 9100 print service. It uses a TCP/IP protocol and the RAW printing port.	p. 3-5
	USB	A connection using a USB port.	
Connection method in which setup is possible using Add Printer Wizard	LPR	A network connection using the LPR (Line Printer Remote) print service. It uses a TCP/IP protocol and the LPR printing port.	p. 3-13
	Port 9100	A network connection using the Port 9100 print service. It uses a TCP/IP protocol and the RAW printing port.	
	IPP	A network connection using the IPP (Internet Printing Protocol) print service. Printing via the Internet is possible with the HTTP (HyperText Transfer Protocol) of the TCP/IP protocol.	
	USB	A connection using a USB port.	
Connection method in which plug and play-based setup is possible	USB	A connection using a USB port.	p. 3-16

Tips

- Log on to the computer using a user name that has the Administrator privilege, then install the printer driver.
- The installer does not support installation in IPv6 environments.

Reference

Before you can use this machine in the network environment, you must configure network settings for this machine. For details, refer to the [User's Guide Network Administrator].

3.3 Installation using installer

The installer automatically detects the printer on the same TCP/IP network as your computer or the machine connected via USB to your computer, and allows you to install the required printer driver. You can also install the printer driver by manually specifying the connection destination.

The printer drivers that can be installed using the installer are PCL driver, GDI driver, XPS driver and fax driver.

3.3.1 Operating environment of the installer

Operating system	Windows XP (×86/×64, SP2 or later) Windows Server 2003 (×86/×64) Windows Vista (×86/×64) Windows Server 2008 (×86/×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)
CPU	Any processor of the same or higher specifications as recommended for your operating system
Memory	Memory capacity as recommended for your operating system Sufficient memory resource is required for your operating system and the applications to be used.

Tips

- Administrator authority is required for installation.
- If a wizard window for adding new hardware opens when using USB connection, click [Cancel].
- When you install the printer driver, WIA and TWAIN scan drivers are installed at the same time.

3.3.2 For USB connection

The USB cable must be connected during the last installation step. Do not connect the USB cable to this machine until a message appears on the screen instructing you to connect the cable.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Open the printer driver folder on the CD-ROM, and double-click [Setup.exe].

➔ If the [User Account Control] screen appears, click [Continue] or [Yes].

The installer starts.

3 Select a language, then click [OK].

4 Click [Next].

5 After checking all terms in the license agreement, select [I accept the terms of the License Agreement], then click [Next].

➔ If you disagree, you will not be able to install the driver.

6 Select this machine in [Select Model].

➔ Select [KONICA MINOLTA XXX PCL XPS] if the optional **Image Controller IC-209** is already installed when installing the XPS driver.

7 Select port [USB] to connect, then click [Next].

➔ In Windows Vista/Server 2008/7, when the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

➔ In Windows XP/Server 2003, when the [Windows logo testing] or [Digital Signature] window appears, click [Continue Anyway] or [Yes].

The installation starts.

8 When a message appears instructing you to connect the USB cable, connect the USB cable between the computer and this machine.

➔ If the window instructing you to connect the USB cable does not appear, operate according to the instructions on the currently displayed window.

9 Click [Finish].

3.3.3 For network connection

To use this machine as part of a network, connect the computer with this machine via the network and check the IP address and RAW port number (initial setting: [9100]) before installing the printer driver.

Reference

*The IP address and RAW port number can be checked in [IPv4 Configuration]. For details on the network settings, refer to "Network settings" of [User's Guide Network Administrator], and **PageScope Web Connection** - [Network] - [TCP/IP Configuration] and [Network]-[IPv4 Configuration].*

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Open the printer driver folder on the CD-ROM, and double-click [Setup.exe].

➔ If the [User Account Control] screen appears, click [Continue] or [Yes].

The installer starts.

3 Select a language, then click [OK].

4 Click [Next].

5 After checking all terms in the license agreement, select [I accept the terms of the License Agreement], then click [Next].

➔ If you disagree, you will not be able to install the driver.

6 Select this machine in [Select Model].

➔ Select [KONICA MINOLTA XXX PCL XPS] if the optional **Image Controller IC-209** is already installed when installing the XPS driver.

7 Select port [Network] to connect, and click [Search].

The connected machine is automatically detected.

8 Select the IP address of the machine, then click [OK].

9 Click [Next].

➔ If the machine is not detected by [Search], you can enter the IP address directly.

➔ In Windows Vista/Server 2008/7, when the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

➔ In Windows XP/Server 2003, when the [Windows logo testing] or [Digital Signature] window appears, click [Continue Anyway] or [Yes].

The installation starts.

10 Click [Finish].

3.4 Manual installation using the Add Printer Wizard

3.4.1 Windows Vista/7/Server 2008/Server 2008 R2

This chapter describes the procedure for installing the Windows printer driver using the standard Windows Add Printer function, without using the installer.

For network connection (LPR/Port 9100)

In Windows Vista/7/Server 2008/Server 2008 R2, you can install the printer driver either by searching for the printer on the network, or by creating a new printer port.

Settings for the machine

To use Port 9100 or LPR printing, you must configure the network settings for the machine in advance.

Items to be configured	Description
IP address	In [NETWORK SETTING] on the Control Panel of this machine, specify the IP address.
RAW port number	To use Port 9100 printing: In [IPv4 Configuration] for the machine, enable the RAW port number (initial setting: [9100]).
LPD Setting	To use LPR printing: From [TCP/IP Configuration] - [LPD Setting] for the machine, enable LPD printing.

Reference

*For details on the network settings of this machine, refer to "Network settings" and **PageScope Web Connection** - [Network] - [TCP/IP Configuration] and [Network]-[IPv4 Configuration] of [User's Guide Network Administrator].*

Installing the printer driver by searching for the printer using the Add Printer Wizard.

✔ Administrator authority is required for installation.

✔ Since the printer is searched for during the installation, be sure to connect this machine to the network before turning it on.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Click [Start], then [Control Panel].

3 Select the desired printer function in [Hardware and Sound].

➔ In Windows Vista/Server 2008, click [Printers] under [Hardware and Sound]. If [Control Panel] is displayed in Classic View, double-click [Printers].

➔ In Windows 7/Server 2008 R2, click [View devices and printers] under [Hardware and Sound]. If [Control Panel] appears in the icon display, double-click [Devices and Printers].

4 On the toolbar, click the additional functions of the printer.

➔ Click [Add a printer] on the toolbar.

The [Add Printer] wizard appears.

5 Click [Add a network, wireless or Bluetooth printer].

Connected printers are detected.

➔ If no printer is detected, turn this machine off, then on again.
In this case, turn off the printer, and then wait approximately 10 seconds before turning it on again.
If you turn this machine on immediately after turning it off, it may not function correctly.

6 Select your machine from the list, then click [Next].

➔ It may take some time to finish searching the entire list of printers.
➔ If installation starts automatically, go to Step 12.
➔ If the screen for selecting drivers appears, go to Step 7.

7 Click [Have Disk..].

8 Click [Browse...].

9 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [Open].

➔ Select a folder according to the printer driver, operating system, and language to be used.
➔ The driver information file is "KMWTG.inf" for the GDI driver, "KMWTP.inf" for the PCL driver and "ONX.inf" for the XPS driver.

10 Click [OK].

The [Printers] list appears.

11 Click [Next].

12 Follow the instructions on the pages that follow.

➔ If the [User Account Control] window appears, click [Continue] or [Yes].
➔ When the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

13 Click [Finish].

14 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers] or [Devices and Printers] window.

15 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

Installing the printer driver by creating a printer port

✔ Administrator authority is required for installation.
✔ Since the printer is searched for during the installation, be sure to connect this machine to the network before turning it on.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Click [Start], then [Control Panel].

3 Select the desired printer function in [Hardware and Sound].

➔ In Windows Vista/Server 2008, click [Printers] under [Hardware and Sound]. If [Control Panel] is displayed in Classic View, double-click [Printers].
➔ In Windows 7/Server 2008 R2, click [View devices and printers] under [Hardware and Sound]. If [Control Panel] appears in the icon display, double-click [Devices and Printers].

4 On the toolbar, select the additional printer information.

➔ Click [Add a printer] on the toolbar.

The [Add Printer] wizard appears.

5 Click [Add a local printer].

The [Choose a printer port] dialog box appears.

6 Click [Create a new port:], and then select the port type.

➔ To use the LPR/Port 9100 protocol, select [Standard TCP/IP Port].

7 Click [Next].

8 Specify the IP address.

➔ To use the LPR/Port 9100 protocol, select [TCP/IP Device], and enter the IP address.

9 Click [Next].

➔ If the [Additional Port Information Required] or [More Port Information Required] window appears, go to Step 10.

➔ If the [Install the printer driver] dialog box appears, go to Step 13.

10 Check [Custom] and click [Settings...].

11 Change the settings according to the port, and then click [OK].

➔ For LPR connection, select [LPR], and then enter "Print" in the [Queue Name:] box.

➔ You must discriminate between upper and lower case letters when entering it.

➔ For Port 9100, select [Raw], and then enter a RAW port number (initial setting: [9100]) in the [Port Number:] box.

➔ If both LPR and Port 9100 are enabled on this machine, the printer driver is connected to this machine using LPR.

12 Click [Next].

The [Install the printer driver] dialog box appears.

13 Click [Have Disk..].

14 Click [Browse...].

15 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [Open].

➔ Select a folder according to the printer driver, operating system, and language to be used.

➔ The driver information file is "KMWTG.inf" for the GDI driver, "KMWTP.inf" for the PCL driver and "ONX.inf" for the XPS driver.

16 Click [OK].

The [Printer] list appears.

17 Click [Next].

18 Follow the instructions on the pages that follow.

➔ If the [User Account Control] window appears, click [Continue] or [Yes].

➔ When the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

19 Click [Finish].

20 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers] or [Devices and Printers] window.

21 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

For network connection (IPP)

Settings for the machine

To use IPP printing, you must configure the network settings for the machine in advance.

Items to be configured	Description
IP address	In [NETWORK SETTING] on the Control Panel of this machine, specify the IP address.
IPP Settings	In [IPP Configuration] for the machine, enable IPP printing.

Reference

*For details on the network settings of this machine, refer to "Network settings" and **PageScope Web Connection** - [Network] - [IPP Configuration] of [User's Guide Network Administrator].*

Installing the printer driver using the Add Printer Wizard

✔ Administrator authority is required for installation.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Click [Start], then [Control Panel].

3 Select the desired printer function in [Hardware and Sound].

➔ In Windows Vista/Server 2008, click [Printers] under [Hardware and Sound]. If [Control Panel] is displayed in Classic View, double-click [Printers].

➔ In Windows 7/Server 2008 R2, click [View devices and printers] under [Hardware and Sound]. If [Control Panel] appears in the icon display, double-click [Devices and Printers].

4 On the toolbar, select the additional printer information.

➔ Click [Add a printer] on the toolbar.

The [Add Printer] wizard appears.

5 Click [Add a network, wireless or Bluetooth printer].

Connected printers are detected.

6 In the window for detected printers, click [The printer that I want isn't listed].

7 In the [Select a shared printer by name] box, enter the URL for the machine in the following format, and then click [Next].

➔ http://<IP address for the machine>/ipp
Example: When the IP address for the machine is 192.168.1.20, http://192.168.1.20/ipp

8 Click [Have Disk..].

9 Click [Browse...].

10 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [Open].

➔ Select a folder according to the printer driver, operating system, and language to be used.

➔ The driver information file is "KMWTG.inf" for the GDI driver, "KMWTP.inf" for the PCL driver and "ONX.inf" for the XPS driver.

11 Click [OK].

The [Printer] list appears.

12 Click [OK].

13 Follow the instructions on the pages that follow.

➔ If the [User Account Control] window appears, click [Continue] or [Yes].

➔ When the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

14 Click [Finish].

15 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers] or [Devices and Printers] window.

16 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

Once the settings for the printer have been configured, you can use the printer in the same way as a general local printer.

For network connection (Web service print)

In Windows Vista/7/Server 2008/Server 2008 R2, printers supporting the Web service print function on the network can be located and installed.

Reference

To install a different printer driver in the computer where one has already been installed, you must uninstall the whole package of the currently installed printer driver. For details, refer to page 3-17.

Settings for the machine

To use the Web service print, you must configure the network settings for the machine in advance.

Items to be configured	Description
IP address	In [NETWORK SETTING] on the Control Panel of this machine, specify the IP address.
Web Service Settings	In [WSD Configuration], enable [Use WSD Browsing].

Reference

*For details on the network settings of this machine, refer to "Network settings" and **PageScope Web Connection** - [Network] - [WSD Configuration] of [User's Guide Network Administrator].*

Recognizing the printer driver from the Network window

When using Web service print, install the printer driver before having the system recognize it using plug and play.

✔ Administrator authority is required for installation.

1 Install the printer driver for this machine.

➔ Install the printer driver using the installer or Add Printer Wizard.
The printer driver can be installed in any port.
For details, refer to page 3-5 or page 3-7.

2 Turn on the power of the machine while it is connected to the network.
Since the printer is searched for, be sure to connect the machine to the network.

3 To use the Web service print, check that [Network discovery] is enabled in [Network and Sharing Center] on the computer.

4 Open the [Network] window.

➔ In Windows Vista/Server 2008, click [Start], then [Network].

➔ In Windows 7/Server 2008 R2, open [Computer] and click [Network].
If [Network] does not appear in [Computer], click the [Network and Internet] category in [Control Panel], then click [View network computers and devices].

Connected computers and devices are detected.

5 Select the device name of the machine, and then click [Install] on the toolbar.

The printer driver for this machine is detected and the machine is ready to print.

6 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers] or [Devices and Printers] window.

Tips

- If the printer driver is not correctly installed, the driver must be updated using [Update Driver...]. For details, refer to page 3-12.
- In Windows Vista/Server 2008, you can continue the task and specify the printer driver installation disk to install the printer driver if it is not installed in advance. When the [Found New Hardware] window appears, follow the displayed messages to perform the procedure.
- In Windows 7/Server 2008 R2, you cannot specify the installation disk after the machine is connected to the computer. Install the printer driver in advance (Step 1).

For local connection

To connect a USB port, install the printer driver before having the system recognize it using plug and play.

1 Install the printer driver for this machine.

➔ Install the printer driver using the installer or Add Printer Wizard.
To use the Add Printer Wizard, select the USB port to be connected in the [Use an existing port] section.
For details, refer to page 3-5 or page 3-7.

2 Connect this machine to the computer using a USB cable.

3 Turn on the main power of this machine.

The printer driver for this machine is detected and the machine is ready to print.

➔ If no printer driver is detected, turn this machine off, then on again. In this case, turn off this machine, and then wait approximately 10 seconds before turning it on again. If you turn this machine on immediately after turning it off, it may not function correctly.

4 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers] or [Devices and Printers] window.

Tips

- If the printer driver is not correctly installed, the driver must be updated using [Update Driver...]. For details, refer to page 3-16.

Updating the driver after connecting this machine

In Windows 7/Server 2008 R2, if this machine is connected without first installing the printer driver, the printer driver will not be correctly identified. In this case, the driver must be updated using [Update Driver...].

1 Open the [Devices and Printers] window.

➔ In [Control Panel], select [Hardware and Sound] and click [View devices and printers]. If [Control Panel] appears in the icon display, double-click [Devices and Printers].

2 Right-click the device name of the machine that is displayed in the [Unspecified] category, then click [Properties].

➔ If [Unknown Device] appears instead of the device name of the machine, right-click to remove the device, then install the printer driver. To connect this machine as described in "Making the printer driver known to the compute". For details, refer to page 3-11 or page 3-12.

3 On the [Hardware] tab, click [Properties].

4 On the [General] tab, click [Change Settings].

5 On the [Driver] tab, click [Update Driver...].

6 In the window for selecting how to search the driver software, click [Browse my computer for driver software anyway].

7 Click [Browse...].

8 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [OK].

➔ Select a folder according to the printer driver, operating system, and language to be used.

➔ The driver information file is "KMWTG.inf" for the GDI driver, "KMWTP.inf" for the PCL driver and "ONX.inf" for the XPS driver.

9 Click [Next].

10 Follow the instructions on the pages that follow.

➔ When the Verify the publisher dialog box of [Windows Security] appears, click [Install this driver software anyway].

11 Click [Close].

12 After finishing the installation, ensure that the icon for the installed printer appears in the [Devices and Printer] window.

13 Remove the CD-ROM from the CD-ROM drive.
This completes the printer driver updating.

Tips

- In Windows Vista/Server 2008, [Update Driver...] is also available. In Windows Vista/Server 2008, use [Device Manager] to open [Properties] of this machine that is displayed in [Other Devices]; you can specify [Update Driver...].
  To use [Device Manager], right-click [Computer], click [Properties] - [Tasks], and select Device Manager.

3.4.2 Windows XP/Server 2003

For network connection (LPR/Port 9100)

To use LPR/Port 9100 printing, specify the port while installing the printer driver.

Settings for the machine

To use Port 9100 or LPR printing, you must configure the network settings for the machine in advance.

Items to be configured	Description
IP address	In [NETWORK SETTING] on the Control Panel of this machine, specify the IP address.
RAW port number	To use Port 9100 printing: In [IPv4 Configuration] for the machine, enable the RAW port number (initial setting: [9100]).
LPD Setting	To use LPR printing: From [TCP/IP Configuration] - [LPD Setting] for the machine, enable LPD printing.

Reference

*For details on the network settings of this machine, refer to "Network settings" and **PageScope Web Connection** - [Network] - [TCP/IP Configuration] and [Network]-[IPv4 Configuration] of [User's Guide Network Administrator].*

Installing the printer driver using the Add Printer Wizard

✔ Administrator authority is required for installation.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Click [Start], then [Printers and Faxes].

➔ If [Printers and Faxes] is not displayed in the [Start] menu, open the [Control Panel] from the [Start] menu, and select [Printers and Faxes].

3 In Windows XP, select [Add a printer] from the [Printer Tasks] menu.
In Windows Server 2003, double-click [Add Printer].

The [Add Printer Wizard] appears.

4 Click [Next >].

5 Select [Local printer attached to this computer], then click [Next >].

➔ Clear the [Automatically detect and install my Plug and Play printer] check box.

The [Select a printer port] dialog box appears.

6 Select [Create a new port:], and then select [Standard TCP/IP Port] as the [Type of port:].

7 Click [Next >].

The [Add Standard TCP/IP Printer Port Wizard] starts.

8 Click [Next >].

9 In the [Printer Name or IP Address:] box, enter the IP address for the machine, and then click [Next >].

➔ If the [Additional Port Information Required] window appears, go to Step 10.
➔ If the [Finish] window appears, go to Step 13.

10 Check [Custom] and click [Settings:].

11 Change the settings according to the port, and then click [OK].

➔ For LPR connection, select [LPR], and then enter "Print" in the [Queue Name:] box.
➔ You must discriminate between upper and lower case letters when entering it.
➔ For Port 9100, select [Raw], and then enter a RAW port number (initial setting: [9100]) in the [Port Number:] box.

12 Click [Next >].

13 Click [Finish].

The [Add Printer Wizard] appears.

14 Click [Have Disk..].

15 Click [Browse...].

16 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [Open].

➔ Select a folder according to the printer driver, operating system, and language to be used.
➔ The driver information file is "KMWTG.inf" for the GDI driver and "KMWTP.inf" for the PCL driver.

17 Click [OK].

The [Printers] list appears.

18 Click [Next >].

19 Follow the instructions on the pages that follow.

➔ To use a network connection, perform a test print after the network settings have been configured.

20 Click [Finish].

➔ When the "Windows logo testing" or [Digital Signature] window appears, click [Continue Anyway] or [Yes].

21 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers and Faxes] window.

22 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

For network connection (IPP)

To use IPP printing, specify the port while installing the printer driver.

Settings for the machine

To use IPP printing, you must configure the network settings for the machine in advance.

Items to be configured	Description
IP address	In [NETWORK SETTING] on the Control Panel of this machine, specify the IP address.
IPP Settings	In [IPP Configuration] for the machine, enable IPP printing.

Reference

*For details on the network settings of this machine, refer to **PageScope Web Connection** - [Network] - [IPP Configuration] of [User's Guide Network Administrator].*

Installing the printer driver using the Add Printer Wizard

✔ Administrator authority is required for installation.

1 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

2 Click [Start], then [Printers and Faxes].

➔ If [Printers and Faxes] is not displayed in the [Start] menu, open [Control Panel] from the [Start] menu, click [Printers and Other Hardware], then click [Printers and Faxes].

3 In Windows XP, select [Add a printer] from the [Printer Tasks] menu.
In Windows Server 2003, double-click [Add Printer].

The [Add Printer Wizard] appears.

4 Click [Next >].

5 In the [Local or Network Printer] window, select [A network printer, or a printer attached to another computer], then click [Next >].

6 In the [Specify a printer] window, select [Connect to a printer on the Internet or on a home or office network].

7 In the [URL:] field, enter the URL for the machine in the following format, and then click [Next >].

➔ http://<IP address for the machine>/ipp
Example: When the IP address for the machine is 192.168.1.20, http://192.168.1.20/ipp

➔ If a confirmation dialog box appears after clicking [Next >], click [OK].

8 Click [Have Disk..].

9 Click [Browse...].

10 Select the driver information file in the desired printer driver folder on the CD-ROM, then click [Open].

➔ Select a folder according to the printer driver, operating system, and language to be used.

➔ The driver information file is "KMWTG.inf" for the GDI driver and "KMWTP.inf" for the PCL driver.

11 Click [OK].

The [Printers] list appears.

12 Click [OK].

13 Follow the instructions on the pages that follow.

14 Click [Finish].

➔ When the "Windows logo testing" or [Digital Signature] window appears, click [Continue] or [Yes].

15 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers and Faxes] window.

16 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

Once the settings for the printer have been configured, you can use the printer in the same way as a general local printer.

For local connection

When this machine is connected via a USB port, the printer driver can be installed with plug and play.

Tips

- When a USB connection is used, the printer driver is installed easily with the plug and play feature. However, it can also be installed using the Add Printer Wizard. To use the Add Printer Wizard, select the USB port to be connected in the [Choose a printer port] section.

1 Connect this machine to the computer using a USB cable, and then start the computer.

NOTICE
When starting up the computer, do not plug in or unplug the cable.

2 Insert the printer driver CD-ROM into the CD-ROM drive of the computer.

➔ The required CD-ROM varies depending on the printer driver. Select the CD-ROM corresponding to the printer driver used.

3 Turn on the main power of this machine.

The [Found New Hardware Wizard] dialog box appears.

➔ If the [Found New Hardware Wizard] dialog box does not appear, turn this machine off, then on again.
In this case, turn off this machine, and then wait approximately 10 seconds before turning it on again. If you turn the printer on immediately after turning it off, it may not function correctly.

➔ If the screen for specifying "Windows connect to Windows Update" appears, select [No, not this time].

4 Select [Install from a list or specific location (Advanced)] and click [Next >].

5 Select [Include this location in the search:] from [Search for best driver in these locations] and click [Browse].

6 Select a desired printer driver folder in the CD-ROM, and then click [OK].

➔ Select a folder according to the printer driver, operating system, and language to be used.

7 Click [Next >], and then follow the instructions on the pages that follow.

8 Click [Finish].

➔ When the "Windows logo testing" or [Digital Signature] window appears, click [Continue] or [Yes].

9 After finishing the installation, ensure that the icon for the installed printer appears in the [Printers and Faxes] window.

10 Remove the CD-ROM from the CD-ROM drive.

This completes the printer driver installation.

3.5 Uninstalling the printer driver

This chapter describes the procedure for uninstalling the printer driver.

When you have to remove the printer driver, for example, when reinstallation of the printer driver is necessary, remove the driver using the following procedure.

3.5.1 Manual uninstallation

Remove the printer driver manually.

1 Open the [Printers], [Devices and Printers], or [Printers and Faxes] window.

2 Select the icon for the printer to be uninstalled.

3 Remove the printer driver.

- ➔ In Windows XP/Vista/Server 2003/Server 2008, press the **Delete** key on the computer keyboard.
- ➔ In Windows 7/Server 2008 R2, click [Remove device] on the toolbar.

4 From then on, follow the instructions on the pages that follow.

When removal is completed, the icon will disappear in the [Printers], [Devices and Printers], or [Printers and Faxes] window.

Go on to remove the printer driver from the server properties.

5 Open the [Server Properties].

- ➔ In Windows Vista/Server 2008, right-click on the area that has nothing displayed in the [Printers] window, then click [Run as administrator] - [Server Properties].
- ➔ In Windows 7/Server 2008 R2, select other printer, then click [Print Server Properties] on the toolbar.
- ➔ In Windows XP/Server 2003, click the [File] menu, then [Server Properties].
- ➔ If the [User Account Control] window appears, click [Continue] or [Yes].

6 Click the [Drivers] tab.

7 From the [Installed printer drivers:] list, select the printer driver to be removed, and then click [Remove...].

- ➔ In Windows Vista/7/Server 2008/Server 2008 R2, go to Step 8.
- ➔ In Windows XP/Server 2003, go to Step 9.

8 In a window confirming the target to be removed, select [Remove driver only.] or [Remove driver and driver package.], then click [OK].

9 In the dialog box for confirming whether you are sure to remove the target, click [Yes].

- ➔ In Windows Vista/7/Server 2008/Server 2008 R2, the dialog box to confirm whether you are sure you want to remove the target appears. Click [Delete].

10 Close the open windows, and then restart the computer.

- ➔ Be sure to restart the computer.

This completes removing the printer driver.

Tips

- In Windows XP/Server 2003, even if the printer driver is removed using the preceding method, the model information file will remain in the computer. For this reason, when reinstalling the same version of the printer driver, the driver may not be rewritten. In this case, remove the following files as well.

– Check the "C:\WINDOWS\system32\spool\drivers\w32×86" folder (In the ×64 system, "C:\WINDOWS\system32\spool\drivers\×64" folder), and if there is a folder of the corresponding model, remove it. However, if multiple drivers are installed including the GDI printer driver, PCL printer driver, and fax driver, the model information of all drivers is deleted. To leave drivers other than the fax driver, do not remove the folder.
– From the "C:\WINDOWS\inf" folder, delete "oem*.inf" and "oem*.PNF" ("*" included in the file name indicates a number, which differs depending on the computer environment).
Before removing these files, open the inf file, and then check the model name described on the last few lines to confirm it is the file for the corresponding model. The number of the PNF file is the same as that of the inf file.
– In Windows Vista/7/Server 2008/Server 2008 R2, the above procedure is not required if [Remove driver and driver package.] is selected for uninstallation.

4 Setting the GDI/PCL Printer Driver

4 Setting the GDI/PCL Printer Driver

This chapter describes the functions that can be configured with the printer driver when data is printed from the computer.

4.1 Printer driver setting window

4.1.1 Displaying the setting window

From the Windows [Printers], [Devices and Printers], or [Printers and Faxes] window, select the printer to display a dialog box for setting the printer driver. The settings configured in this dialog box will apply to all application software programs.

1 Open the [Printers], [Devices and Printers], or [Printers and Faxes] window.

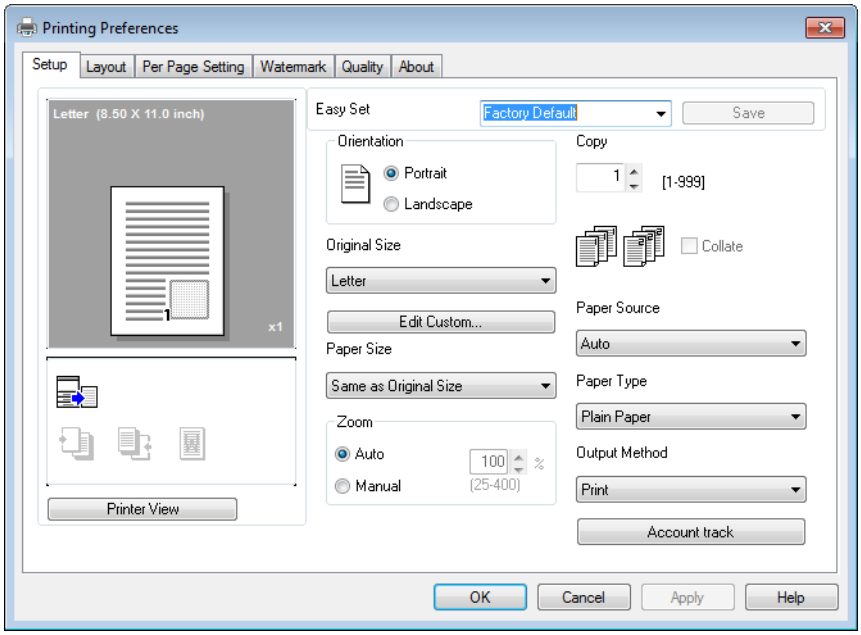
➔ In Windows XP/Server 2003, click [Start], then [Printers and Faxes].

➔ In Windows Vista, click [Start] to open [Control Panel], and select [Hardware and Sound] - [Printers].

➔ In Windows 7/Server 2008 R2, click [Start], then [Devices and Printers]. In Windows 7/Server 2008 R2, if [Devices and Printers] is not displayed in the [Start] menu, open [Control Panel] from the [Start] menu, and select [Hardware and Sound] - [View devices and printers].

2 Right-click the icon of the installed printer, then click [Printing Preferences...].

The screen for setting up the printer driver appears.

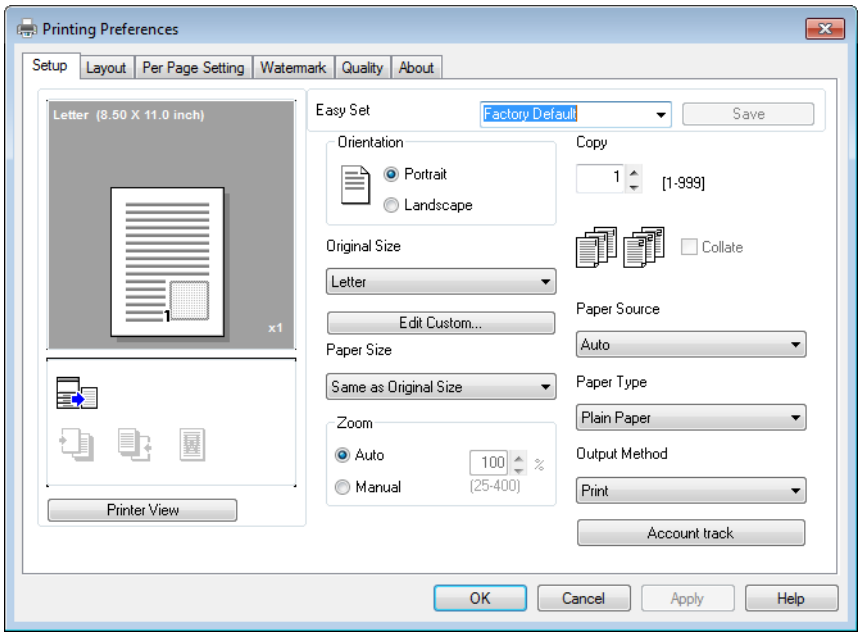


Tips

- To change settings for each print job, click [Properties] (or [Preferences]) in the [Print] window displayed when a function such as [Print] is specified by an application software program. The settings configured by properties in the [Print] window are temporal and, when the application software exits, it will return to the settings configured in the printer driver setting dialog box.
- The [Easy Set] function is available that can register the changed driver settings and invoke them if necessary. For details, refer to page 4-7.
- To display the [Device Options] tab, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Properties] or [Printer Properties].

4.1.2 Print settings window

A print function can be specified using the printer driver.



Tips

- To display the print settings window, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Printer Preferences...].

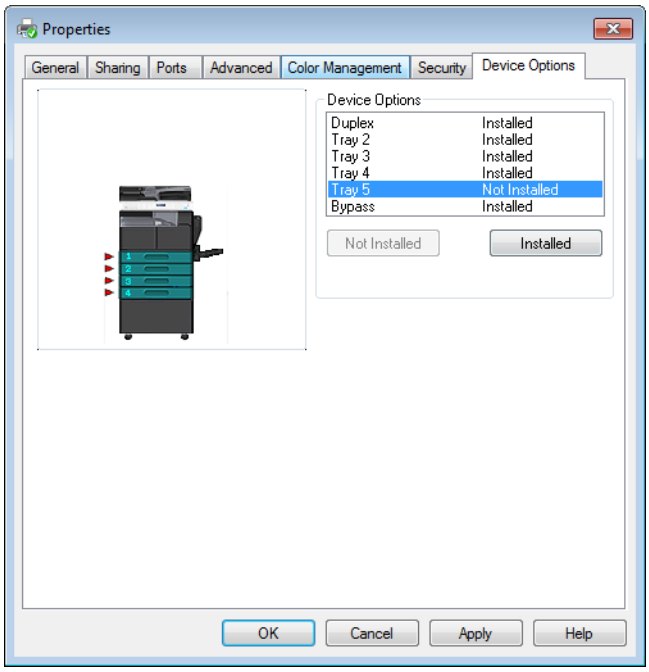
Tab Name	Functions
[Setup]	Specify the orientation, the number of copies, and other basic print functions.
[Layout]	Specify combination, 2-sided print, and other functions.
[Per Page Setting]	Specify the front cover or back cover. The [Back Cover Page] function is only available for the PCL driver.
[Watermark]	Specify the watermark (character stamp).
[Quality]	Specify the print quality.
[About]	Displays the printer driver version information.

4.1.3 Properties window

The printer driver properties dialog box can be used to specify the installation status of device options.

Tips

- Any options that are installed on the machine but not configured on the [Device Options] tab cannot be used by the printer driver. Be sure to configure the settings for the installed options.



Tips

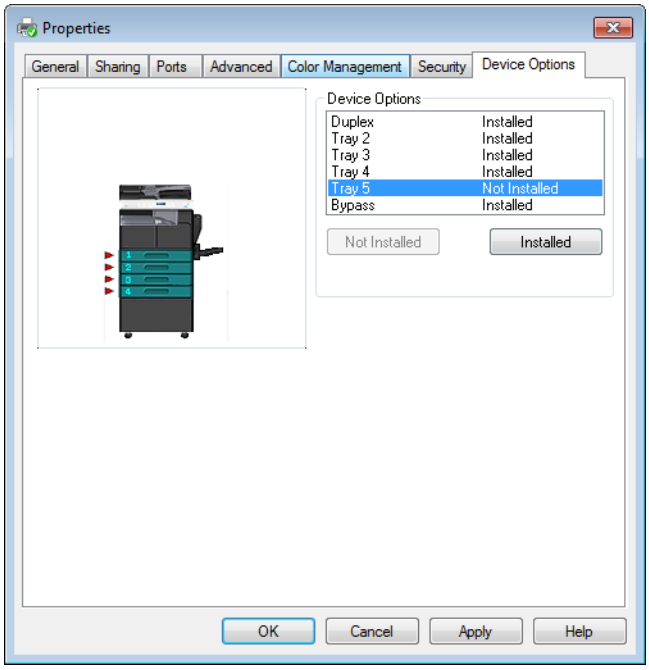
- To display the [Device Options] tab, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Properties] or [Printer Properties].

4.2 [Device Options] tab

Configure the option installation status to make the functions of the machine available from the printer driver.

Tips

- Any options that are installed on the machine but not configured on the [Device Options] tab cannot be used by the printer driver. Be sure to configure the settings for the installed options.



4.2.1 [Device Options]

Specify the installed options.

In the [Device Options] list, select an installed option and click [Installed] to install the option. Select an installed option and click [Not Installed] to restore the [Not Installed] status.

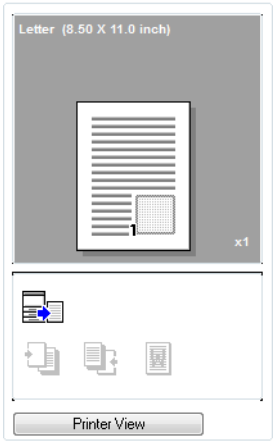
Tips

- If [Tray 3] to [Tray 5] are set to [Installed], [Tray 2] to the specified tray can be collectively set to [Installed].

4.3 Common operations

This section describes the buttons common to dialog boxes and the settings common to tabs. Buttons actually displayed may vary depending on the operating system.

4.3.1 Common settings

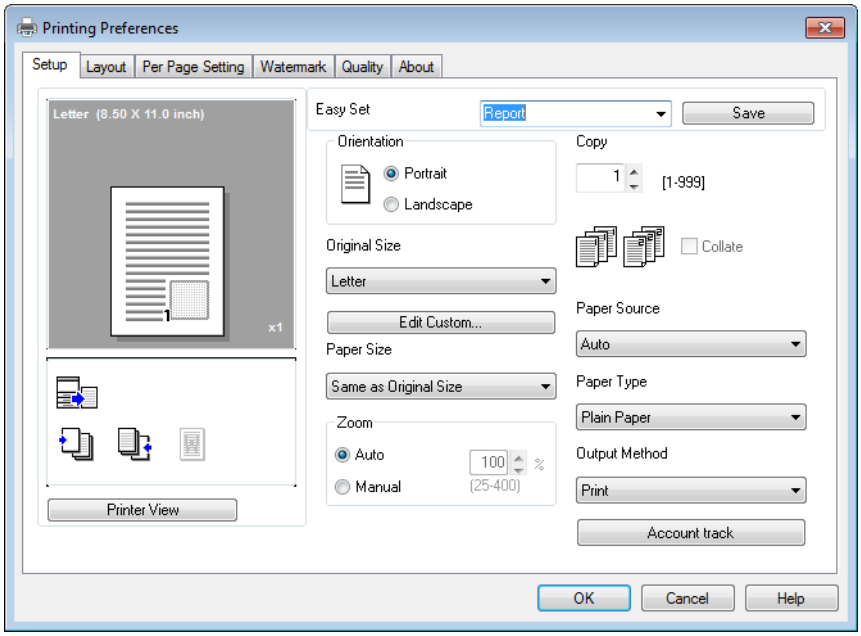
Button Name	Functions
[OK]	Click this button to enable changed settings and close the properties window.
[Cancel]	Click this button to disable (cancel) changed settings and close the properties window.
[Apply]	Click this button to enable the changed settings without closing the setting window. This button does not appear in the setting window invoked by [Properties] (or [Preferences]) from the [Print] window of the application software.
[Help]	Click this button to display Help of the items in the displayed window.
[Paper View]/[Printer View]	Displays paper setup or the machine status. The button at the lower left of the view can toggle between [Paper View] and [Printer View] for selection. Selecting [Paper View] displays the sample page layout based on current settings for checking the output result image. Selecting [Printer View] displays a printer figure showing the options installed on the machine such as paper trays, and displays the paper trays selected in [Paper Source] on the [Setup] tab in light blue.  [Paper View] [Printer View]
[Easy Set]	Click this button to save current settings so that they can be recalled later.

4.3.2 Saving the settings ([Easy Set])

The current settings can be saved and invoked later when you want to use them again.

1 Change the driver settings in the [Setup], [Layout], or other tab.

2 Enter the registration name in the [Easy Set] field.



3 Click [Save].

The settings are saved.

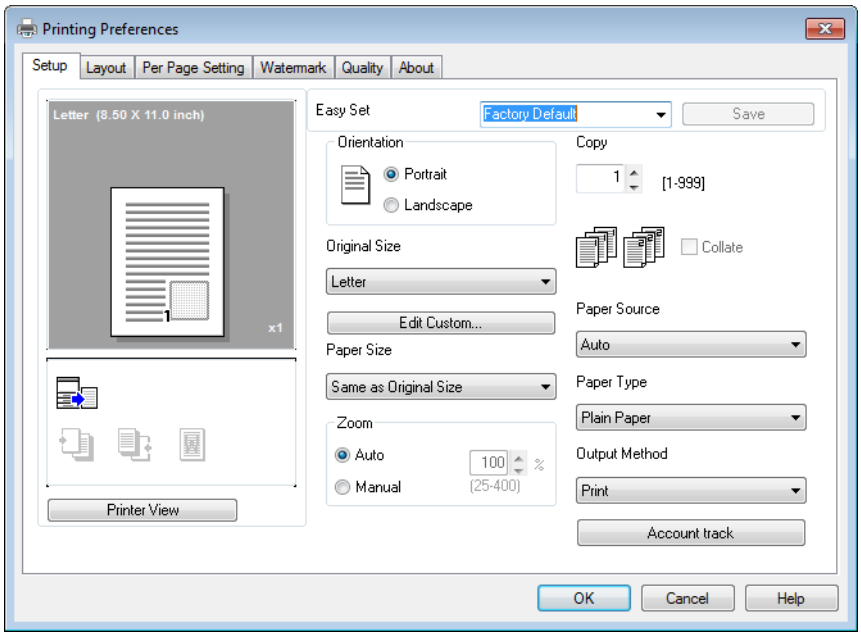
Tips

- To invoke the saved settings, select the name of the settings from the list.
- To rename the saved settings, select the settings from the list and enter a new name. The button name turns to [Rename]. Click [Rename] to rename the settings.
- To delete the saved settings, select the settings from the list. The button name turns to [Delete]. Click [Delete] to delete the settings.
- Selecting [Factory Default] from the list returns all settings to default.
- You can enter the registration name using up to 20 characters.
- Up to 31 [Easy Set] registrations can be saved.

4.4 [Setup] tab

The [Setup] tab configures the settings relevant to original and the paper used for printing. The number of copies and the orientation of print image can also be specified on this tab.

4.4.1 Function list



Item Name	Functions
[Orientation]	Specify the orientation for the original.
[Original Size]	Select the paper size of the original.
[Edit Custom...]	Specify the size of user-defined paper.
[Paper Size]	Specify the output paper size. If the paper size is different from the original size, the output image will be automatically enlarged or reduced.
[Zoom]	Select an enlarge or reduce ratio.
[Copy]	Specify the number of copies to be printed.
[Collate]	Select this check box to collate each copy or print pages sequentially when printing multiple sets of copies.
[Paper Source]	Select a paper tray to be used.
[Paper Type]	Select a paper type to be used.
[Output Method]	Select an output method. Select either usual [Print] or highly-confidential [Secure Print] that uses passwords.
[Account track]	Specify the account name if you are using the account track function on the machine.

Tips

- Envelope or custom paper size can be selected when [Paper Source] is set to [Auto], [Tray1], or [Bypass].
- When [Paper Type] is set to [Transparency], only [Letter] or [A4] paper size can be selected.
- The paper able to be selected in [Paper Type] varies depending on the [Paper Source] setting.
- To output a job set to [Secure Print], a password must be entered on the **Control Panel**. For details, refer to page 4-10.
- When you are using account track functions on this machine and if you send a print job without setting [Account track], the print job is discarded and will not be printed.

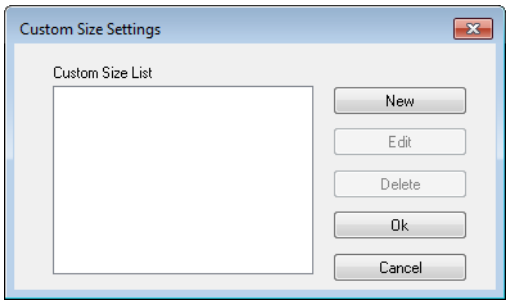
4.4.2 Setting Custom Size

Any size that is not listed in the paper size list must be registered as a custom size.

1 On the [Setup] tab, click [Edit Custom...].

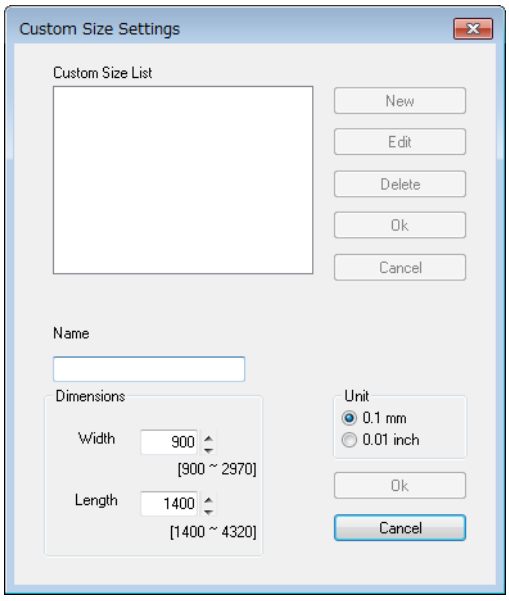
The paper registration dialog box appears.

2 Click [New].



The dialog box expands and the paper setting items are displayed.

3 Enter the paper name in [Name].



4 Specify the width and length of the paper in [Dimensions].

➔ The unit system can be changed in [Unit].

5 Click [OK] at the lower right of the dialog box.

The paper setting items in the dialog box collapse.

6 Click [OK].

This saves the custom size, which can be selected from the paper size list.

Tips

- To change the width and length of the registered custom size, select the target paper, then click [Edit]. You cannot change the name.
- To delete the registered custom size, select the target paper then click [Delete].
- You can enter the registration name using up to 20 characters.
- Up to 32 custom sizes can be registered.

4.4.3 Using Secure Print

A password can be specified for a document. The document printed from the computer is temporarily saved to the memory of this machine, and can be output by entering the password on the **Control Panel**. Select this option when printing highly confidential documents.

Specifying from the printer driver

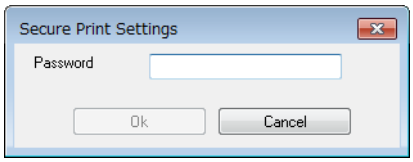
1 Click the [Setup] tab.

2 From the [Output Method] drop-down list, select [Secure Print].

A password input window pops up.

3 Enter the password, and then click [OK].

➔ The password must be entered using four digits in the range [0000 to 9999].



4 Send the print job.

➔ Perform the usual printing operation from an application software program.

Outputting in this machine

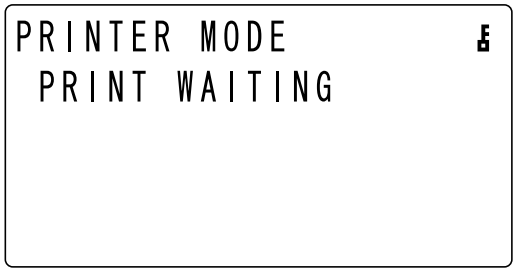
To output the document for which a password was specified in [Secure Print Setting] of the printer driver, you must enter the password on the **Control Panel** of this machine.

1 After confirming that the **Printer Indicator** flashes or lights up, press **Printer**.

The screen changes to the print mode screen.

2 Confirm that a key mark appears at the upper right of the **Control Panel**.

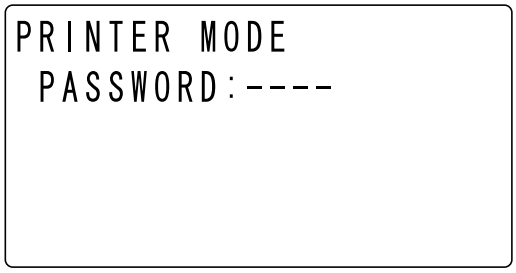
➔ A key mark appears if a secure print job is provided.



3 Press **Access**.

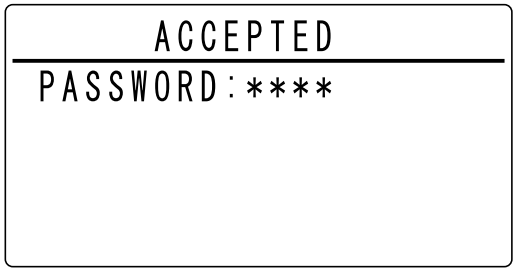
4 Enter the password.

➔ Enter the password, that is the same number as that specified in the printer driver.



5 Confirm that the document is printed.

➔ If the password is correct, the following screen appears and the print job will be output.

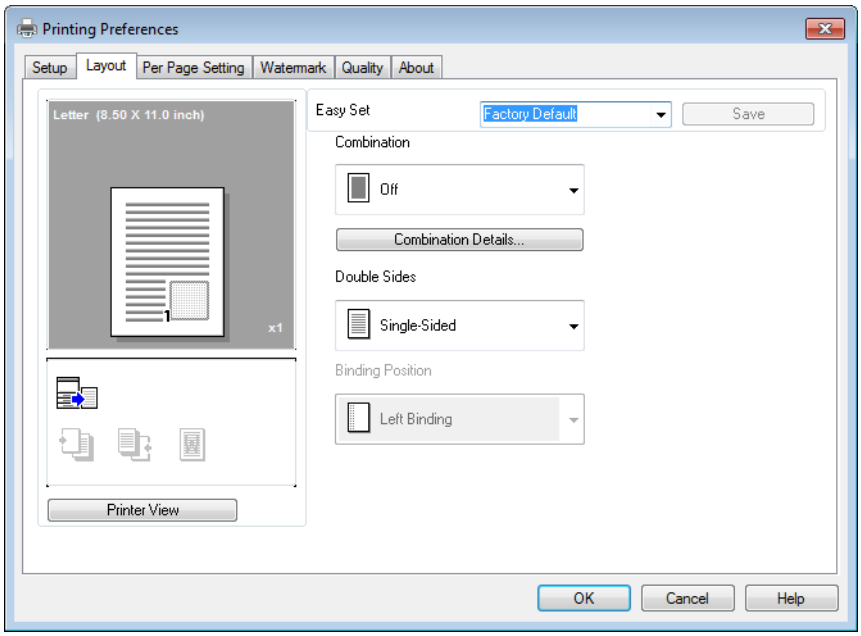


Tips

- If there are multiple secure print jobs that have the same password, all of the secure print jobs will be output.

4.5 [Layout] tab

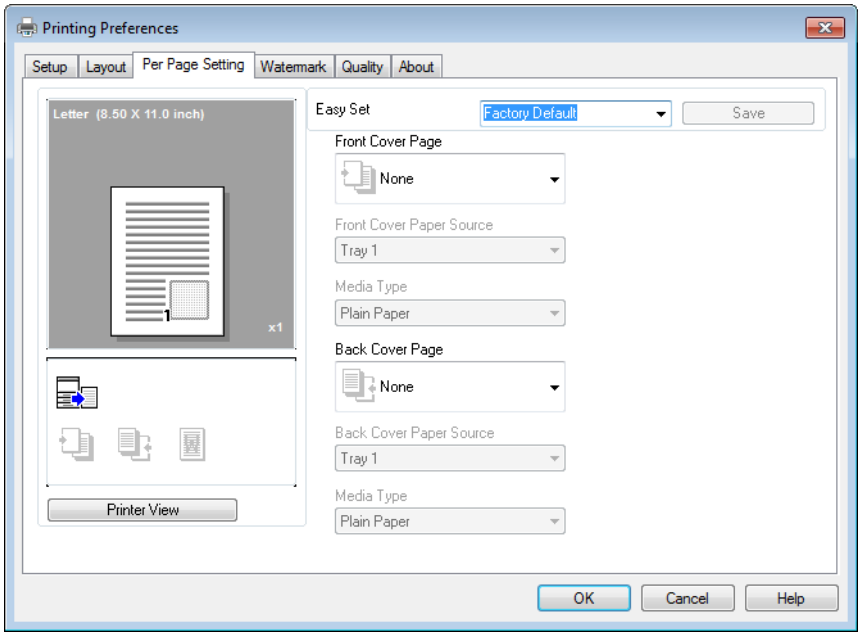
The [Layout] tab configures pages to be printed on one sheet of paper.



Item Name	Functions
[Combination]	Multiple pages can be combined on a single page for printing.
[Combination Details...] button	As details of combination, specify the layout order or printing of page frame.
[Double Sides]	Specify 2-sided print.
[Binding Position]	Specify the binding position. This can be specified when [Double Sides] is set to [Double-Sided].

4.6 [Per Page Setting] tab

The [Per Page Setting] tab is used to specify whether to attach cover pages.

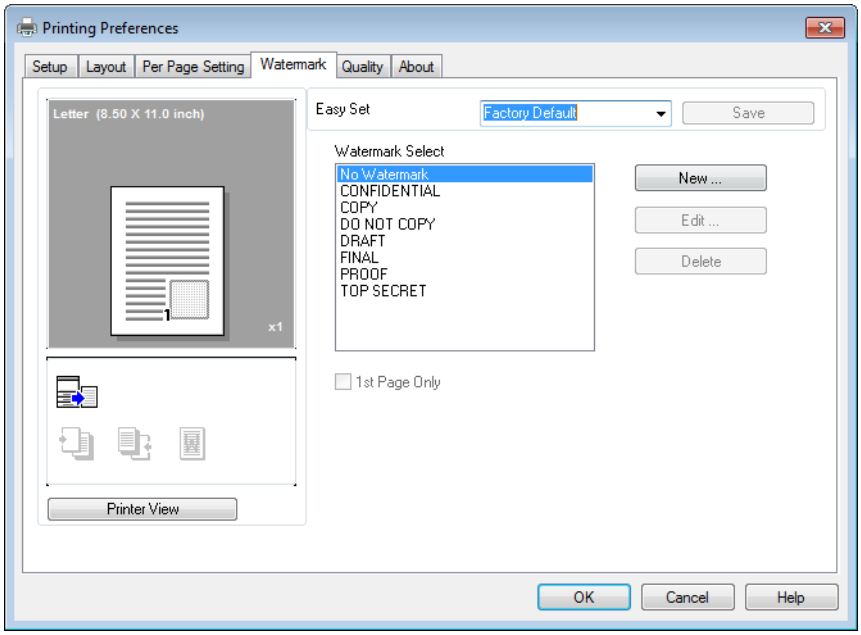


Item Name	Functions
[Front Cover Page]	Select this option to attach a front cover page.
[Front Cover Paper Source]	Select the paper tray for the front cover page.
[Media Type]	Select a paper type for the front cover page.
[Back Cover Page]	Select this option to attach a back cover page. This function is only available for the PCL driver.
[Back Cover Paper Source]	Select the paper tray for the back cover page. This function is only available for the PCL driver.
[Media Type]	Select a paper type for the back cover page. This function is only available for the PCL driver.

4.7 [Watermark] tab

The [Watermark] tab configures a watermark consisting of specified characters to be printed on the background of document.

4.7.1 Function list



Item Name	Functions
[Watermark Select]	Select this option ton print the document with a watermark (character stamp) overlapped.
[1st Page Only]	Select this check box to print the watermark only on the first page.
[New...]	Click this button to create a watermark.
[Edit...]	Click this button to change the watermark.
[Delete]	Click this button to delete the watermark.

4.7.2 Creating a new watermark

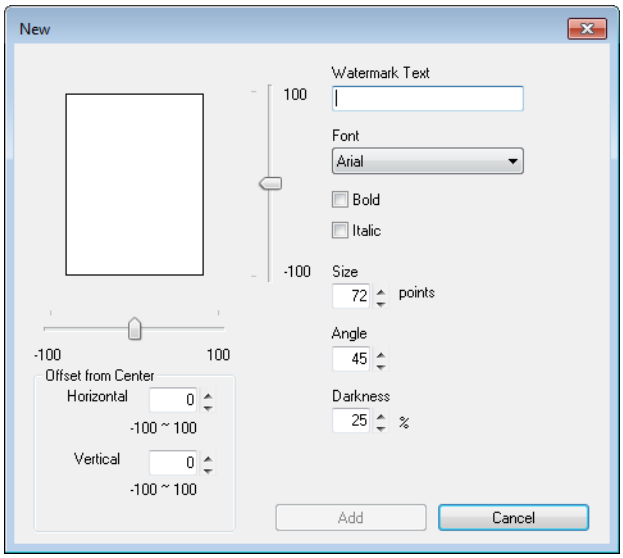
You can register new watermarks.

1 Click the [Watermark] tab.

2 Click [New...].

The screen for registering a watermark appears.

3 Enter the desired watermark characters in the [Watermark Text] box.



➔ You can enter up to 20 characters.
➔ Total up to 32 watermarks (including [No Watermark]) can be registered.

4 Configure the following items.

➔ [Font]: Select a font type for the watermark. A font type can be selected from those installed on your computer.
➔ [Bold]: Select this check box to set the characters to bold.
➔ [Italic]: Select this check box to set the characters to italic.
➔ [Size]: Specify the font size in the range from 7 points to 300 points.
➔ [Angle]: Specify the angle of characters on the page. The allowable range is from 0 deg to 359 deg.
➔ [Darkness]: Specify the density of the text. The allowable range is from 10% to 100%.
➔ [Offset from Center]: Specify a position where to print the text. Specify the position by entering values for horizontal and vertical positions. The allowable range is from -100 to 100.
➔ The [Offset from Center] values can also be changed using sliders displayed at the right and bottom of the preview window.

5 Click [Add].

The watermark is added to the [Watermark Select] list.

4.7.3 Editing a watermark

You can edit the registered watermark to change its characters, size, or position.

1 Click the [Watermark] tab.

2 From the list, select the watermark you want to change.

3 Click [Edit...].

The window for editing a watermark appears.

4 Configure the following items.

➔ [Watermark Text]: Enter watermark characters.
➔ [Font]: Select a font type for the watermark. A font type can be selected from those installed on your computer.
➔ [Bold]: Select this check box to set the characters to bold.
➔ [Italic]: Select this check box to set the characters to italic.
➔ [Size]: Specify the font size in the range from 7 points to 300 points.
➔ [Angle]: Specify the angle of characters on the page. The allowable range is from 0 deg to 359 deg.

➔ [Darkness]: Specify the density of the text. The allowable range is from 10% to 100%.

➔ [Offset from Center]: Specify a position where to print the text. Specify the position by entering values for horizontal and vertical positions. The allowable range is from -100 to 100.

➔ You can enter up to 20 characters.

➔ The [Offset from Center] values can also be changed using sliders displayed at the right and bottom of the preview window.

5 Click [OK].

The watermark is changed.

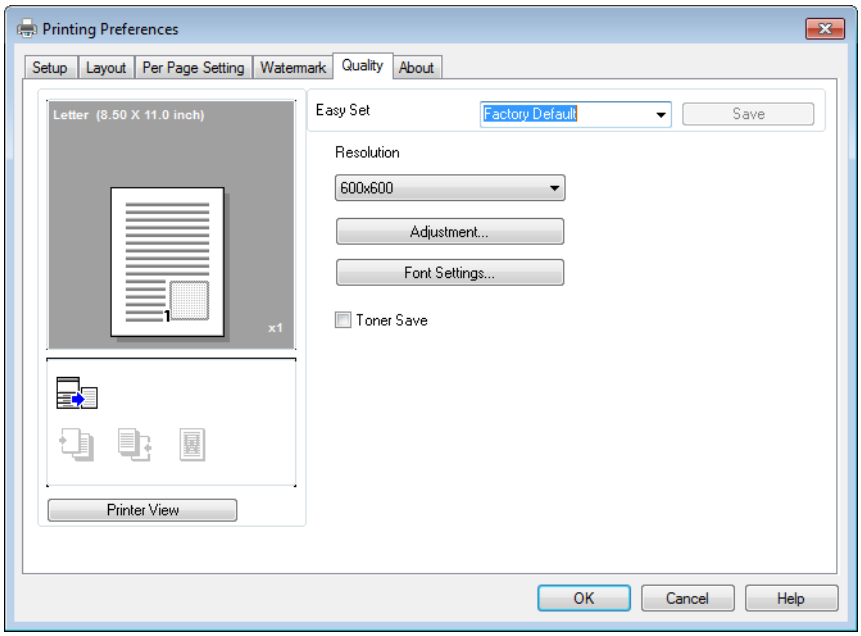
Tips

- To delete the registered watermark, select the watermark from the list and click [Delete].

4.8 [Quality] tab

The [Quality] tab configures print quality.

4.8.1 Function list



Item Name	Functions
[Resolution]	Specify the print resolution.
[Adjustment...]	Specify brightness and contrast.
[Font Settings...]	Select whether to use TrueType fonts or printer fonts for printing. This function is only available for the PCL driver.
[Toner Save]	Select this check box to reduce toner consumption for printing. This function is only available for the PCL driver.

4.8.2 Setting the font

The TrueType fonts used in Windows can be substituted with printer fonts installed on the machine.

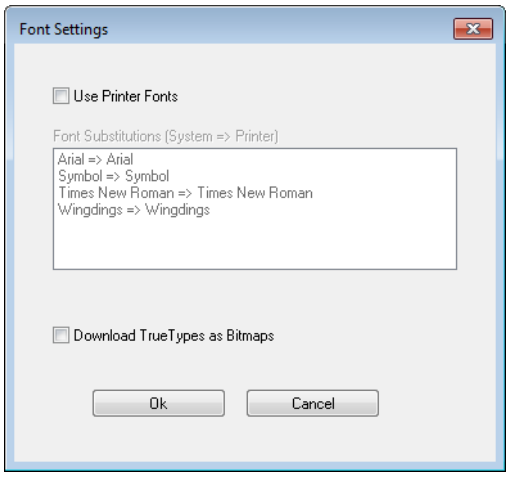
1 Click the [Quality] tab.

2 Click [Font Settings...]

3 Configure the following items.

➔ [User Printer Fonts]:
Select this check box to substitute TrueType fonts with printer fonts according to the substitution table.

➔ [Download TrueTypes as Bitmaps]:
Select this check box to download TrueType fonts to print.



Tips

- Using printer fonts can reduce time for printing but may create differences between characters displayed and those printed.

5 Setting the XPS Printer Driver

5 Setting the XPS Printer Driver

This chapter describes the functions that can be configured with the printer driver when data is printed from the computer.

5.1 Printer driver setting window

5.1.1 Displaying the setting window

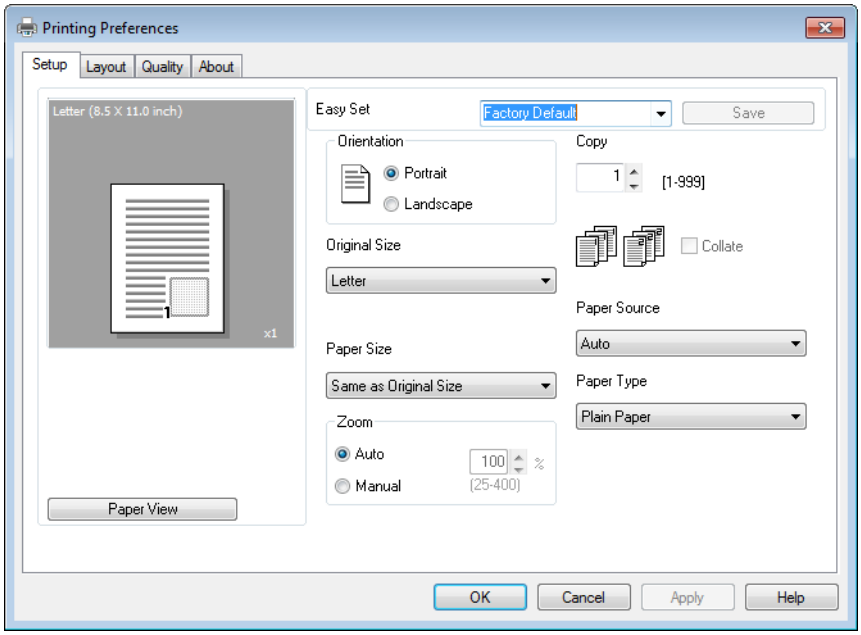
From the Windows [Printers], [Devices and Printers], or [Printers and Faxes] window, select the printer to display a dialog box for setting the printer driver. The settings configured in this dialog box will apply to all application software programs.

1 Open the [Printers], [Devices and Printers], or [Printers and Faxes] window.

- ➔ In Windows XP/Server 2003, click [Start], then [Printers and Faxes].
- ➔ In Windows Vista, click [Start] to open [Control Panel], and select [Hardware and Sound] - [Printers].
- ➔ In Windows 7/Server 2008 R2, click [Start], then [Devices and Printers].
  In Windows 7/Server 2008 R2, if [Devices and Printers] is not displayed in the [Start] menu, open [Control Panel] from the [Start] menu, and select [Hardware and Sound] - [View devices and printers].

2 Right-click the icon of the installed printer, then click [Printing Preferences...].

The screen for setting up the printer driver appears.

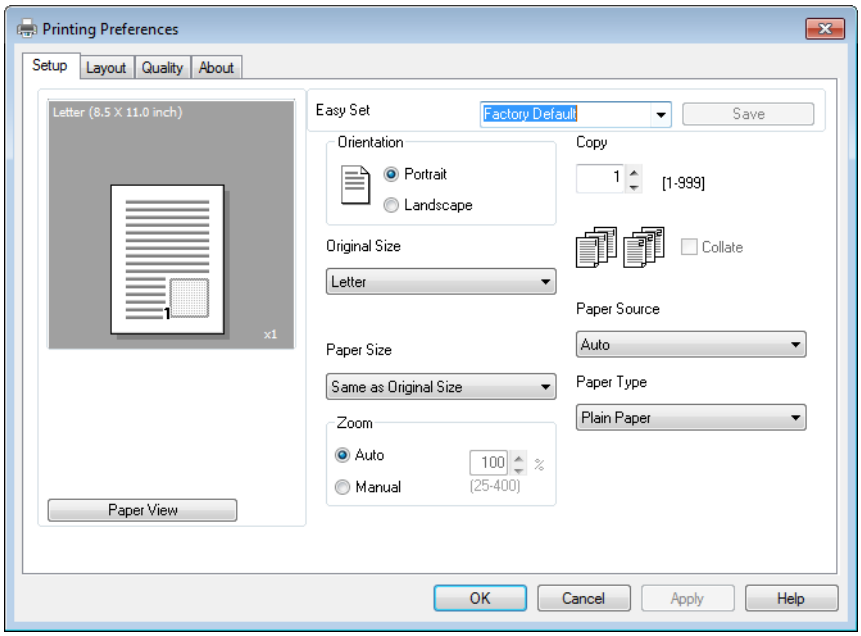


Tips

- To change settings for each print job, click [Properties] (or [Preferences]) in the [Print] window displayed when a function such as [Print] is specified by an application software program. The settings configured by properties in the [Print] window are temporal and, when the application software exits, it will return to the settings configured in the printer driver setting dialog box.
- The [Easy Set] function is available that can register the changed driver settings and invoke them if necessary. For details, refer to page 5-7.
- To display the [Device Options] tab, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Properties] or [Printer Properties].

5.1.2 Print settings window

A print function can be specified using the printer driver.



Tips

- To display the print settings window, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Printer Preferences...].

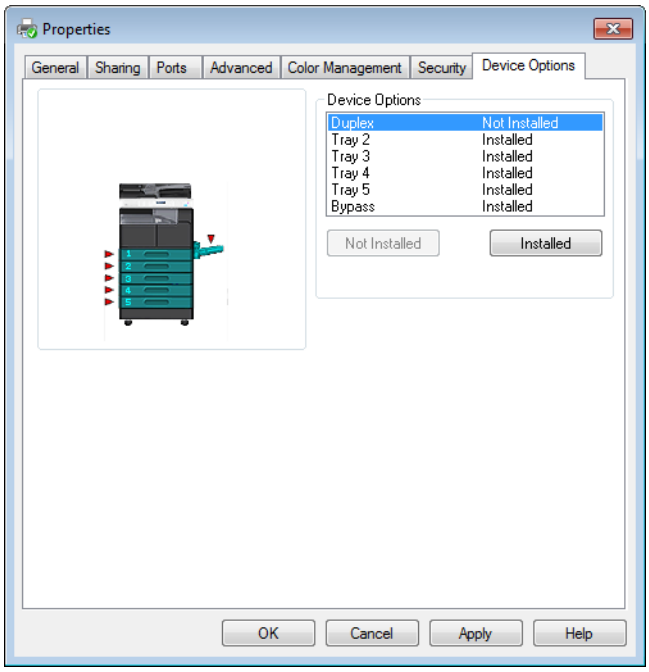
Tab Name	Functions
[Setup]	Specify the orientation, the number of copies, and other basic print functions.
[Layout]	Specify combination, 2-sided print, and other functions.
[Quality]	Specify the print quality.
[About]	Displays the printer driver version information.

5.1.3 Properties window

The printer driver properties dialog box can be used to specify the installation status of device options.

Tips

- Any options that are installed on the machine but not configured on the [Device Options] tab cannot be used by the printer driver. Be sure to configure the settings for the installed options.



Tips

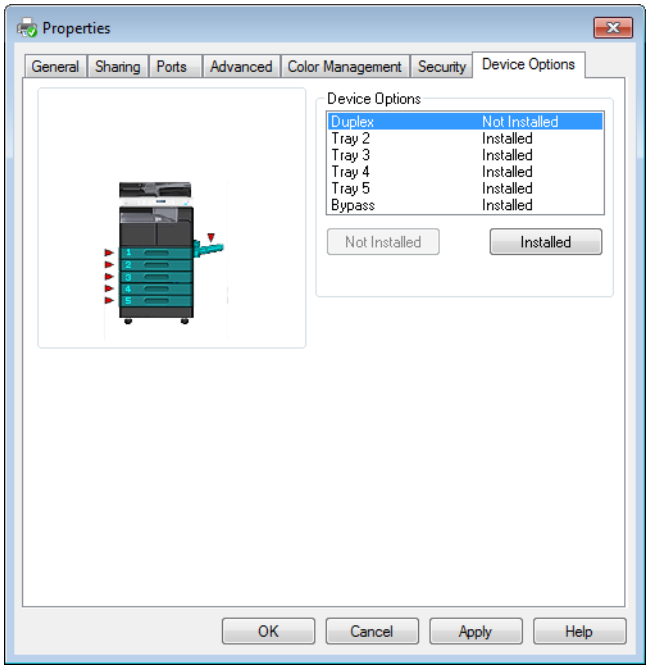
- To display the [Device Options] tab, right-click the icon of the printer installed in the [Printers], [Devices and Printers], or [Printers and Faxes] window, and select [Properties] or [Printer Properties].

5.2 [Device Options] tab

Configure the option installation status to make the functions of the machine available from the printer driver.

Tips

- Any options that are installed on the machine but not configured on the [Device Options] tab cannot be used by the printer driver. Be sure to configure the settings for the installed options.



5.2.1 [Device Options]

Specify the installed options.

In the [Device Options] list, select an installed option and click [Installed] to install the option. Select an installed option and click [Not Installed] to restore the [Not Installed] status.

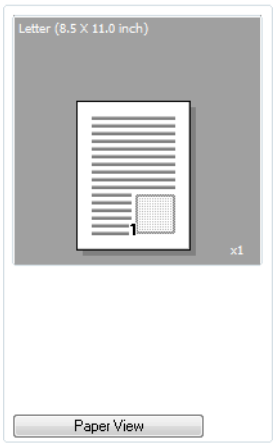
Tips

- If [Tray 3] to [Tray 5] are set to [Installed], [Tray 2] to the specified tray can be collectively set to [Installed].

5.3 Common operations

This section describes the buttons common to dialog boxes and the settings common to tabs. Buttons actually displayed may vary depending on the operating system.

5.3.1 Common settings

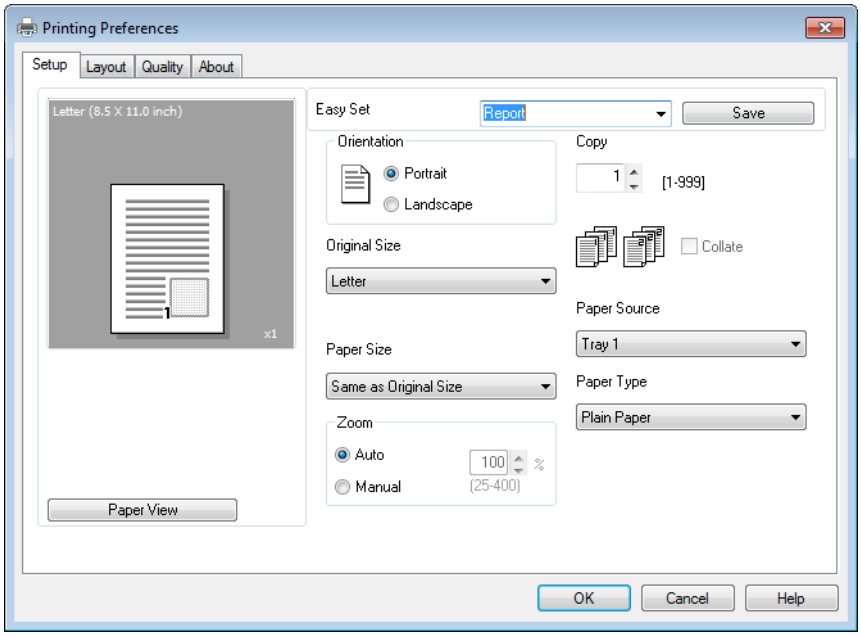
Button Name	Functions
[OK]	Click this button to enable changed settings and close the properties window.
[Cancel]	Click this button to disable (cancel) changed settings and close the properties window.
[Apply]	Click this button to enable the changed settings without closing the setting window. This button does not appear in the setting window invoked by [Properties] (or [Preferences]) from the [Print] window of the application software.
[Help]	Click this button to display Help of the items in the displayed window.
[Paper View]/[Printer View]	Displays paper setup or the machine status. The button at the lower left of the view can toggle between [Paper View] and [Printer View] for selection. Selecting [Printer View] displays the sample page layout based on current settings to check the output result image. Selecting [Paper View] displays a printer figure showing the options installed on the machine such as the paper tray, and displays the paper tray selected in [Paper Source] on the [Setup] tab in light blue.  [Paper View] [Printer View]
[Easy Set]	Click this button to save current settings so that they can be recalled later.

5.3.2 Saving the settings ([Easy Set])

The current settings can be saved and invoked later when you want to use them again.

1 Change the driver settings in the [Setup], [Layout], or other tab.

2 Enter the registration name in the [Easy Set] field.



3 Click [Save].

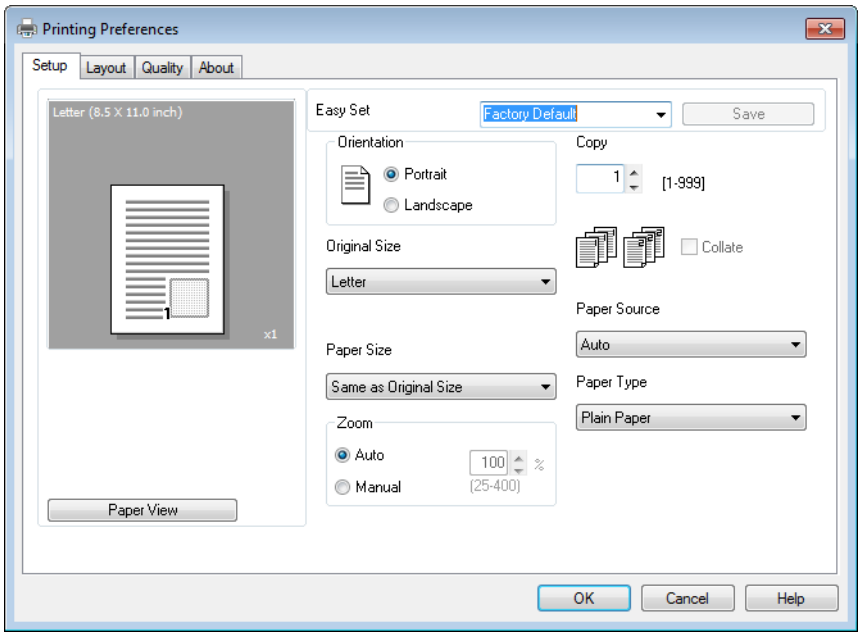
The settings are saved.

Tips

- To invoke the saved settings, select the name of the settings from the list.
- To rename the saved settings, select the settings from the list and enter a new name. The button name turns to [Rename] then. Click [Rename] to rename the settings.
- To delete the saved settings, select the settings from the list. The button name turns to [Delete]. Click [Delete] to delete the settings.
- Selecting [Factory Default] from the list returns all settings to default.
- You can enter the registration name using up to 20 characters.
- Up to 31 [Easy Set] registrations can be saved.

5.4 [Setup] tab

The [Setup] tab configures the settings relevant to original and the paper used for printing. The number of copies and the orientation of print image can also be specified on this tab.



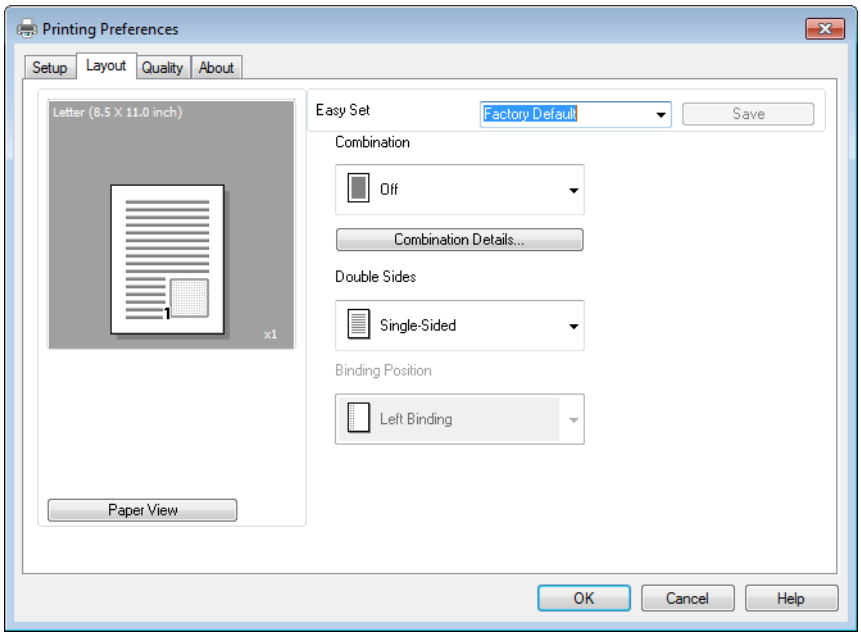
Item Name	Functions
[Orientation]	Specify the orientation for the original.
[Original Size]	Select the paper size of the original.
[Paper Size]	Specify the output paper size. If the paper size is different from the original size, the output image will be automatically enlarged or reduced.
[Zoom]	Select an enlarge or reduce ratio.
[Copy]	Specify the number of copies to be printed.
[Collate]	Select this check box to collate each copy or print pages sequentially when printing multiple sets of copies.
[Paper Source]	Select a paper tray to be used.
[Paper Type]	Select a paper type to be used.

Tips

- Paper size such as envelope can be selected when [Paper Source] is set to [Auto], [Tray1], or [Bypass].
- When [Paper Type] is set to [Transparency], only [Letter] or [A4] paper size can be selected.
- The paper able to be selected in [Paper Type] varies depending on the [Paper Source] setting.

5.5 [Layout] tab

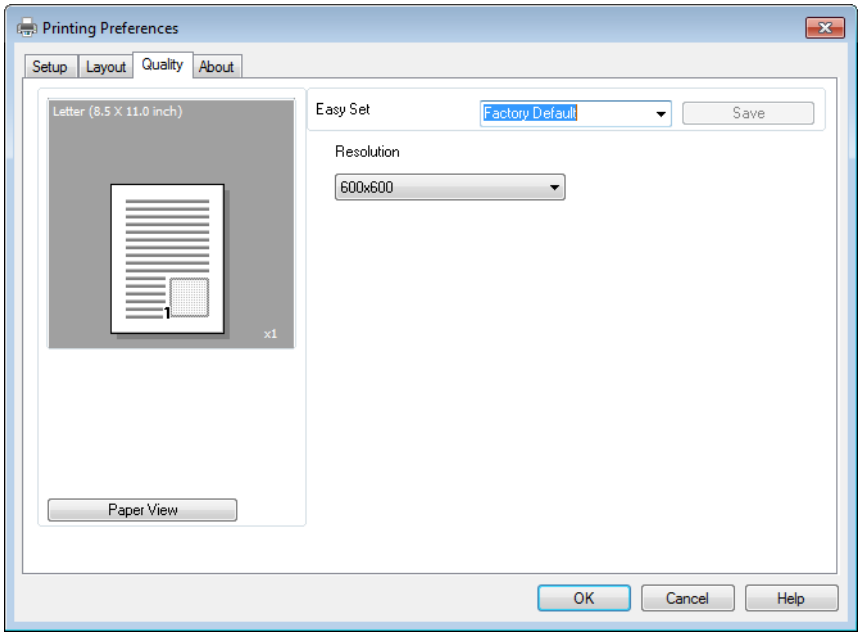
The [Layout] tab configures pages to be printed on one sheet of paper.



Item Name	Functions
[Combination]	Multiple pages can be combined on a single page for printing.
[Combination Details...] button	As details of combination, specify the layout order or printing of page frame.
[Double Sides]	Specify 2-sided print.
[Binding Position]	Specify the binding position. This can be specified when [Double Sides] is set to [Double-Sided].

5.6 [Quality] tab

The [Quality] tab configures print quality.



Item Name	Functions
[Resolution]	Specify the print resolution.

6 Operating the Panel for Printer Functions

6 Operating the Panel for Printer Functions

This chapter describes the printer operations that are available on the **Control Panel** of this machine.

6.1 Printer operation

This machine is set to copy mode as a default. Usually when a print operation is performed by the connected computer, data is sent to this machine and printing starts.

For details, refer to page 6-2.

6.1.1 Printer Indicator

The **Printer Indicator** indicates the status of print data sent from the computer.

Printer Indicator	Print Status
Flash	• The machine is receiving print data. The lamp also flashes in other modes. • An error occurs on this machine.
Lit	• The machine is printing print data. When receiving data while printing, the lamp remains lit and does not flash.
Unlit	• No print data in the memory of the machine.

6.1.2 Starting Printing

Usually when a print operation is performed by the connected computer, printing starts.

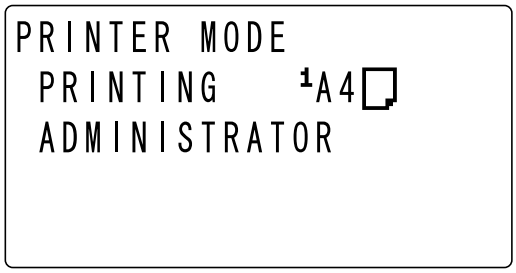
- If this machine is in the copy process when a print operation is performed by the connected computer, printing starts automatically when a copy operation has not been performed for 30 seconds.
- If the machine receives print data while receiving a fax, it prioritizes printing of the print data. The machine first completes the receipt of job in fax mode, and prints the print data, and then prints the fax job.

6.1.3 Canceling a print job

Printing of a print job can be stopped by using the **Control Panel** of this machine. However, the print job can only be canceled in the print mode screen.

1 After confirming that the **Printer Indicator** flashes or lights up, press **Printer**.

2 Confirm that [PRINTER MODE PRINTING] appears in the **Display** of this machine.



➔ The shown message varies depending on the status of the machine.

3 Press **Clear/Stop**.

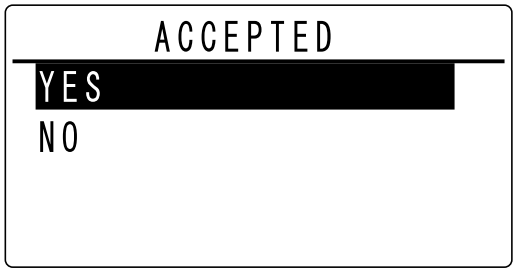
Confirmation message [JOB CANCEL] appears.

4 Select [YES] using ▲▼, and press **OK**.

➔ Select [NO] to continue printing.

➔ If no key is pressed within five seconds, the machine continues printing.

[ACCEPTED] appears on the **Display**, and the print job is canceled.



Tips

- When the **Display** shows one of the following messages, the print job can be canceled by repeating the above Steps 2 and 3.
  [PAPER EMPTY]
  [PAPER JAM]
  [PAPER SIZE ERROR]
  [NO SUITABLE PAPER]
  [INCORRECT PAPER SIZE]
  [PAPER TYPE ERROR]
  [*RECEIVING*]
  [FRONT COVER OPEN]
  [1st SIDE COVER OPEN]
  [DUPLEX COVER OPEN]
  [TONER EMPTY]

6.1.4 Power Save mode

If the machine receives print data while in the Power Save mode, the Power Save mode is released.

When the machine receives print data, it warms up then prints the data.

7 PageScope Web Connection

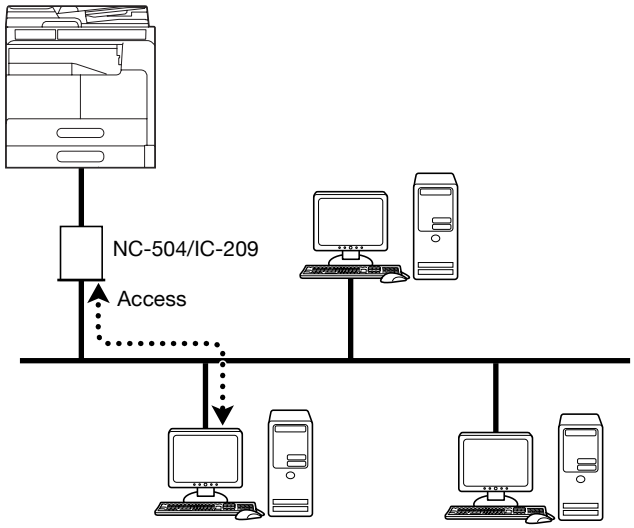
7 PageScope Web Connection

7.1 Overview

PageScope Web Connection is a device control utility that is built into the printer controller of this machine. This utility can be used as an interface to control the machine remotely via the Web browser.

Tips

- To use **PageScope Web Connection**, **Network Card NC-504** or **Image Controller IC-209** must be installed on the machine.



You can use **PageScope Web Connection** to perform the following tasks:

- Changing the settings
  - Registering the destination telephone numbers
  - Changing the printer settings
  - Changing the network settings
- Controlling the status remotely
  - Checking the tray, consumables, and total counter information
  - Checking print jobs (that can be deleted in administrator mode)
- Maintenance
  - Resetting both the **Network Card** and **Image Controller**
  - Initializing the **Network Card** and **Image Controller** to the factory default.

7.1.1 Operating environments

Network	Ethernet (TCP/IP)
Operating systems	Windows XP/Vista/7/Server 2003/Server 2008/Server 2008 R2
Compatible Web browsers	Microsoft Internet Explorer 6/7/8 or later Mozilla Firefox 3.5/3.6 or later

7.2 How to use PageScope Web Connection

7.2.1 How to access

PageScope Web Connection can be accessed directly from the Web browser.

1 Start the Web browser.

2 Enter the IP address of this machine in the URL field as shown below, then press the Enter key.

➔ http://<IP address for the machine>/
Example: When the IP address for the machine is 192.168.1.20
http://192.168.1.20/

Tips

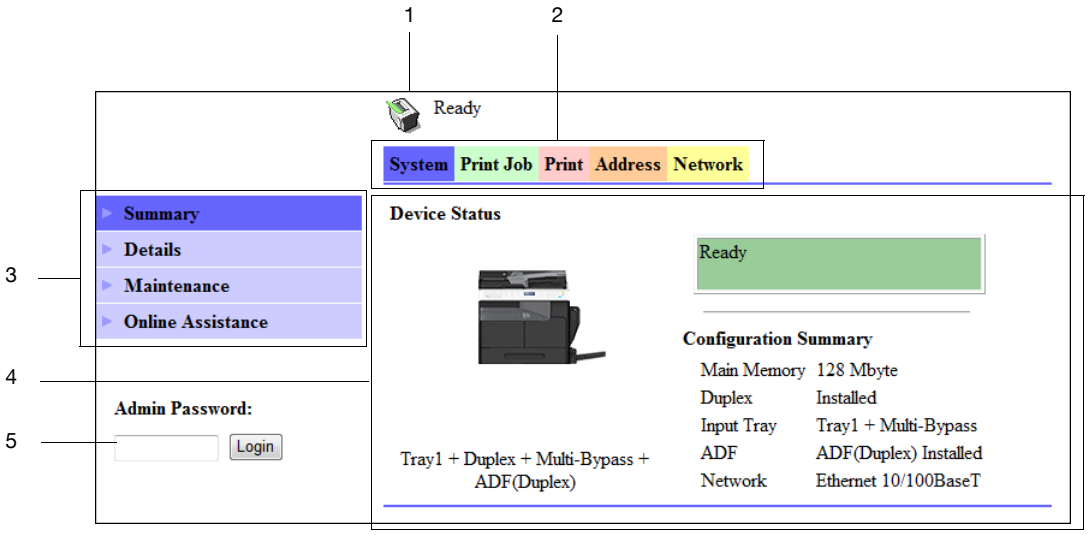
- To access **PageScope Web Connection**, an IP address must be assigned to the machine.

7.2.2 How to view the screen

When you access **PageScope Web Connection**, the following screen appears.

Tips

- Screen images included in this document may differ from actual view. Note that the product specification is subject to change without notice.



No.	Item	Description
1	Status display	The status of the machine is indicated by an icon and a message.
2	Tabs	Select the category of the item to be displayed. The following tabs are displayed in user mode. • System • Print Job • Print • Address • Network
3	Menu	Displays information and settings for the selected tab. The menu that appears in this area varies depending on which tab was selected.
4	Information and settings	Displays the details of the item selected in the menu.
5	Administrator Password	Enter the password to log into administrator mode.

Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.
- The contents of the **PageScope Web Connection** pages vary depending on the options installed on this machine or the settings of this machine.

7.2.3 User mode and administrator mode

PageScope Web Connection provides the user mode and administrator mode.

User mode

- This mode is available for all users. Only items that can be checked or operated on the user level are displayed in this mode.

Administrator mode

- This mode is only available for administrators. Almost all items that can be configured or checked in **PageScope Web Connection** are displayed in this mode. Settings of each item can also be changed.

The screen first appears when you access **PageScope Web Connection** is for user mode.

To change the mode into administrator mode, enter the administrator password in the [Admin Password], then click [Login].

Reference

For details on administrator mode, refer to the [User's Guide Network Administrator].

7.2.4 How to operate

To operate **PageScope Web Connection**, click a tab to select a category of the desired function, then click the menu item to display the settings.

If the selected item is for view only, check the content in the area displaying the information and settings.

If the selected item is available for editing, edit the settings in the information and setting view.

To change the settings, click each tab and configure the necessary settings, then click [Apply]. The method to change settings may differ depending on the selected item. For details, refer to the page explaining the item.

PageScope Web Connection can be operated just like Internet Web pages. You can click a link in an Web page to jump to the destination, or click [Back] or [Forward] in the Web browser to view the previous or next page.

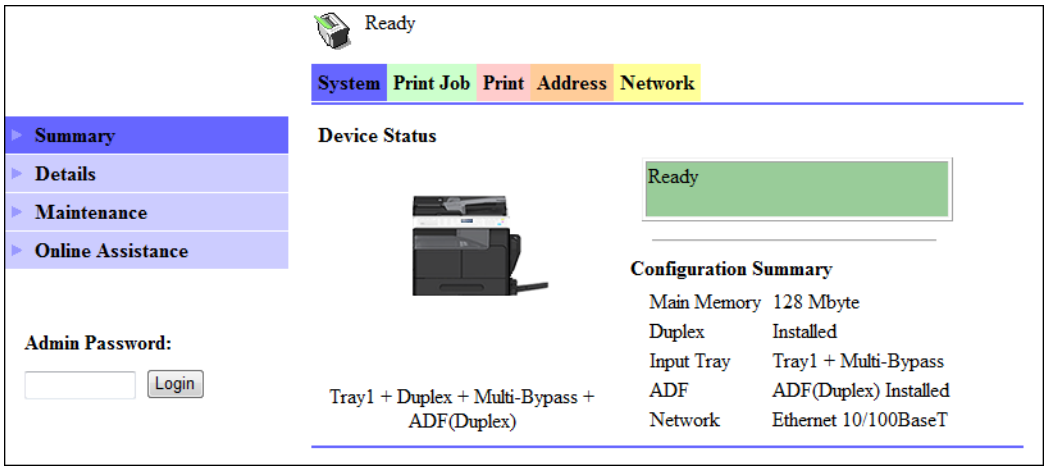
7.3 User mode

This section describes the usage for each menu item that is displayed at the left-hand side when you click a tab in user mode.

For details on administrator mode, refer to the [User's Guide Network Administrator].

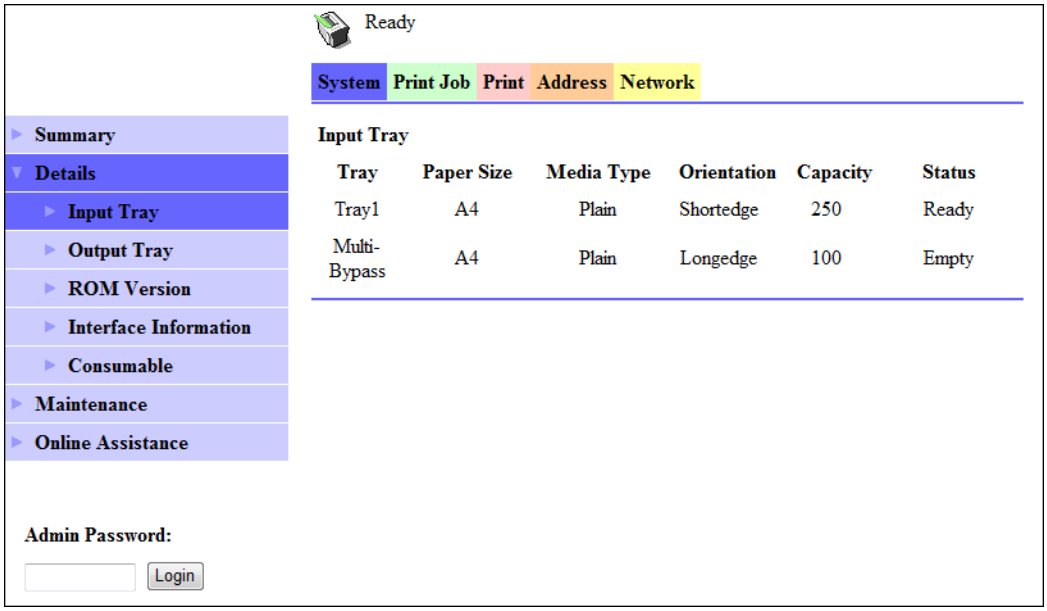
7.3.1 [System] - [Summary]

This item displays the system configuration and status of the machine. This view first appears when you access **PageScope Web Connection** from the Web browser.



7.3.2 [System] - [Details]

You can check paper tray, output tray, ROM version, and interface information, as well as the status of consumables.



Item	Description
[Input Tray]	Displays the installed tray names, paper size, paper type, orientation, the maximum capacity and status of each tray.

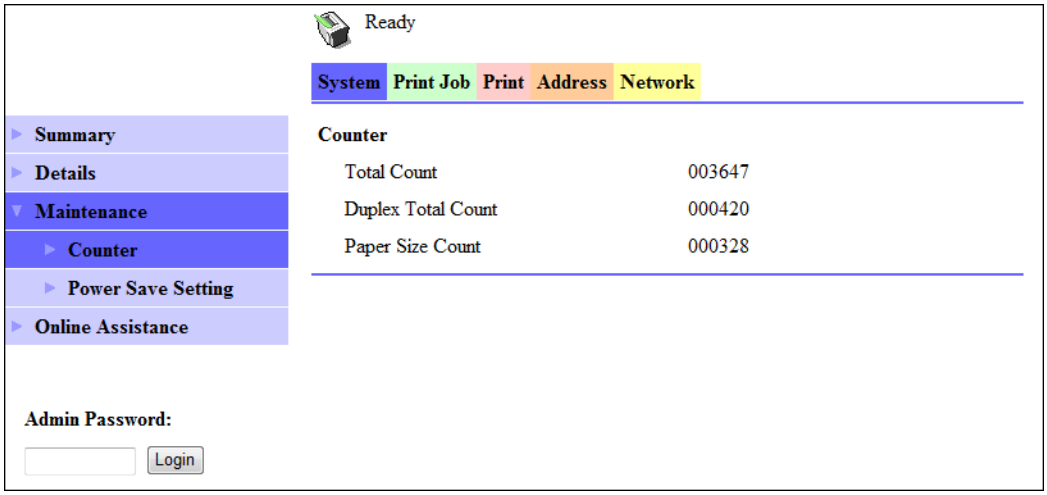
Item	Description
[Output Tray]	Displays the installed output tray names, the maximum capacity and status of each tray.
[ROM Version]	Displays the installed controller and its ROM version.
[Interface Information]	Displays the installed interfaces and its information.
[Consumable]	Displays information about consumables relevant to the machine.

Tips

- The items displayed may vary depending on options installed or settings.

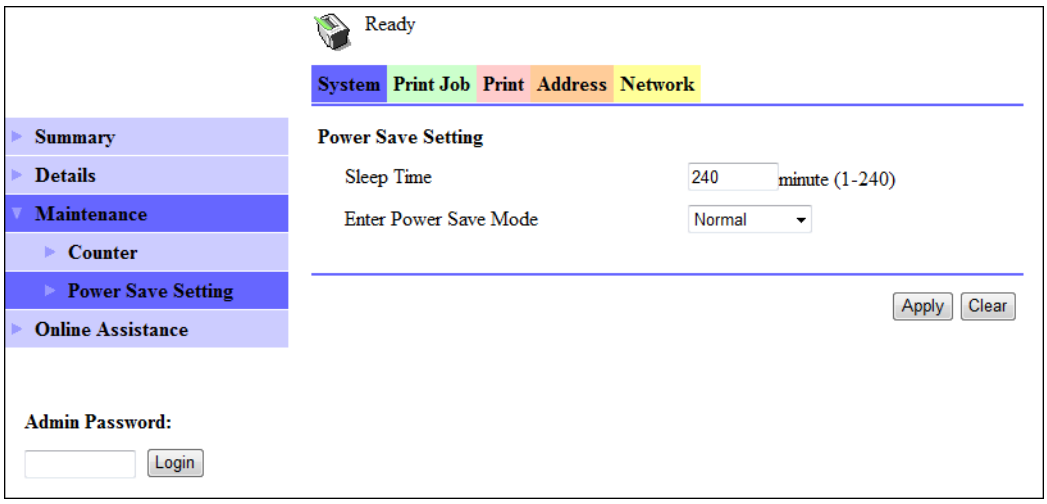
7.3.3 [System] - [Maintenance] - [Counter]

Enables you to check the count information that is managed on this machine.



7.3.4 [System] - [Maintenance] - [Power Save Setting]

Configure the settings related to transition to the Power Save mode.

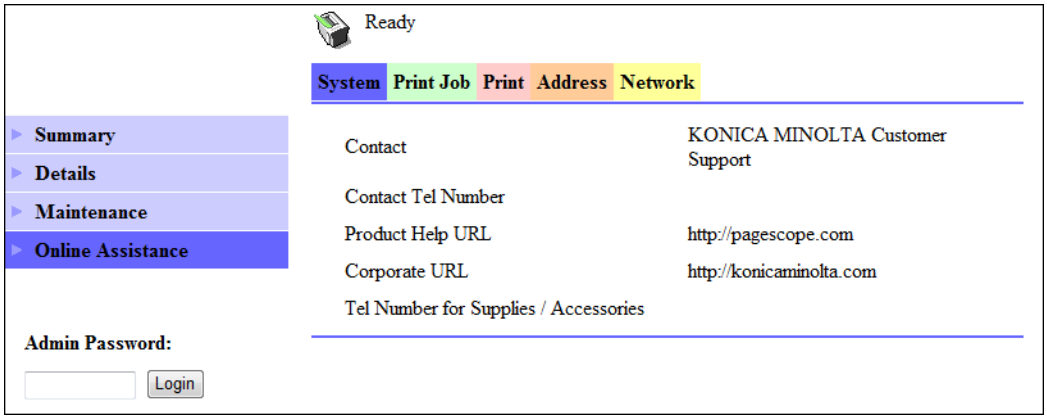


Configure the settings and click [Apply] to apply the change.

Item	Description
[Sleep Time]	Enter a time interval before the machine transitions to the Power Save mode after the last operation.
[Enter Power Save Mode]	Specify how the machine should enter the Power Save mode after printing out a received document. Setting this item to [Immediately] returns the machine to the Power Save mode immediately after receiving and outputting a print job while it is not being used (in the night for example), and thereby saves the electric power more efficiently. If [Normal] is selected, the machine returns to the Power Save mode according to the [Sleep Time] setting.

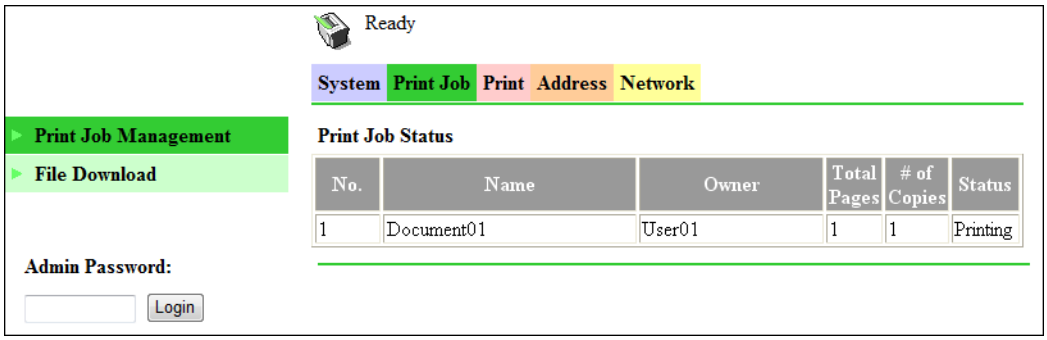
7.3.5 [System] - [Online Assistance]

This item displays the online assistance about this product.



7.3.6 [Print Job] - [Print Job Management]

This item enables you to check details on print jobs.

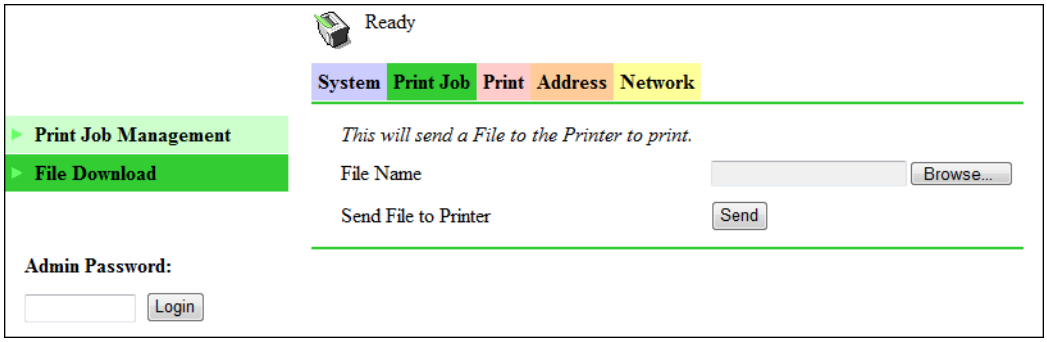


Tips

- Up to 20 print jobs can be displayed. Completed print jobs are deleted automatically.
- Jobs specified as secure print are not displayed.
- The job number displayed here was assigned when the job was registered with the machine.
- To delete a print job, you must log into administrator mode.

7.3.7 [Print Job] - [File Download]

A PRN file created with the printer driver of this machine can be downloaded on to the machine and printed.



1 Click [Browse] and select a file.

2 Click [Send].

The file is downloaded on to the machine and printed.

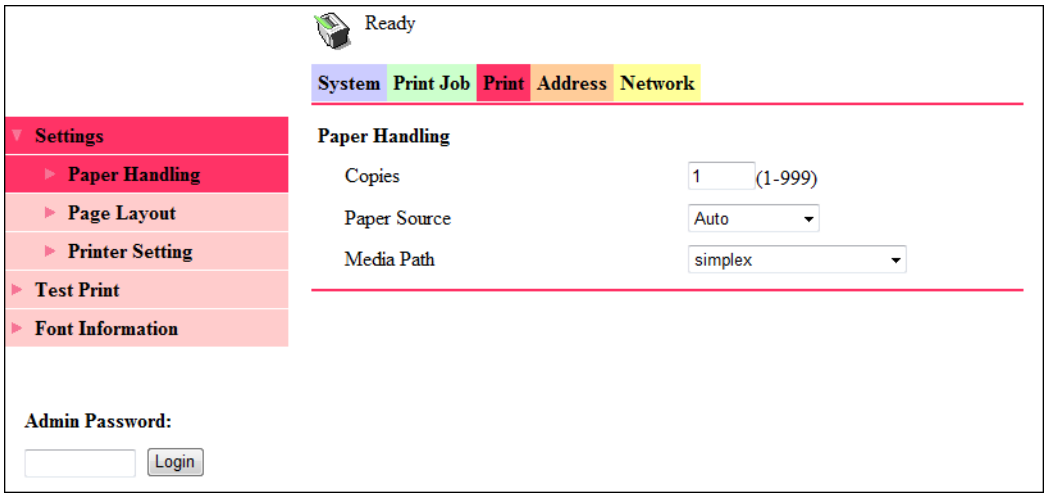
Tips

- The following formats can be downloaded and printed depending on the option installation status.
  - No option: GDI and XPS PRN files
  - When **Image Controller IC-209** is installed: PCL and XPS PRN files, and ASCII text files
- If a file other than the above is downloaded, the characters will become garbled and will not print correctly.

7.3.8 [Print] - [Settings] - [Paper Handling]

This item enables you to check the settings relevant to the printer output.

If a print job is received with no settings configured, the job is printed in this setting.



Item	Description
[Copies]	Displays the specified number of copies.
[Paper Source]	Displays the selected paper tray.
[Media Path]	Displays the selected printing method.

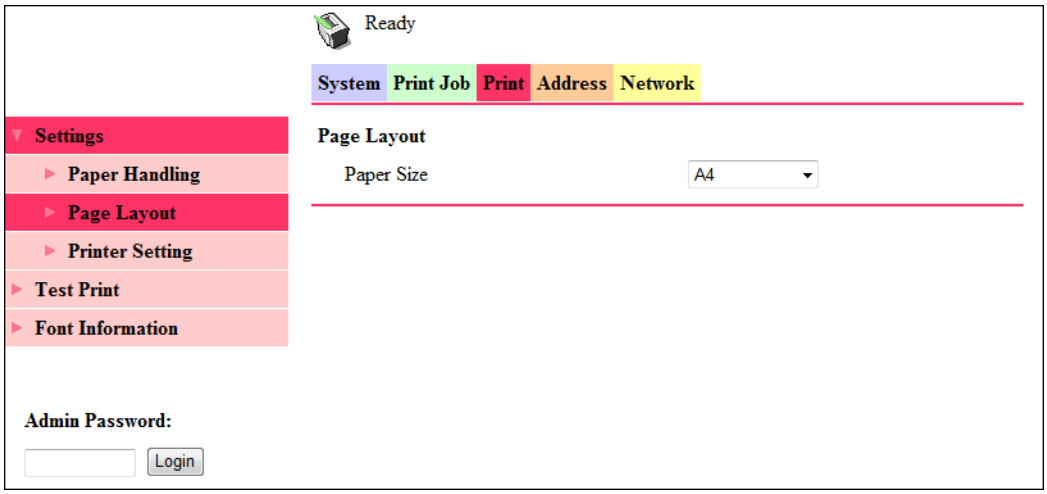
Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.

7.3.9 [Print] - [Settings] - [Paper Layout]

This item enables you to check the paper size specified for the output paper size of the printer.

If a print job is received with no settings configured, the job is printed in this setting.



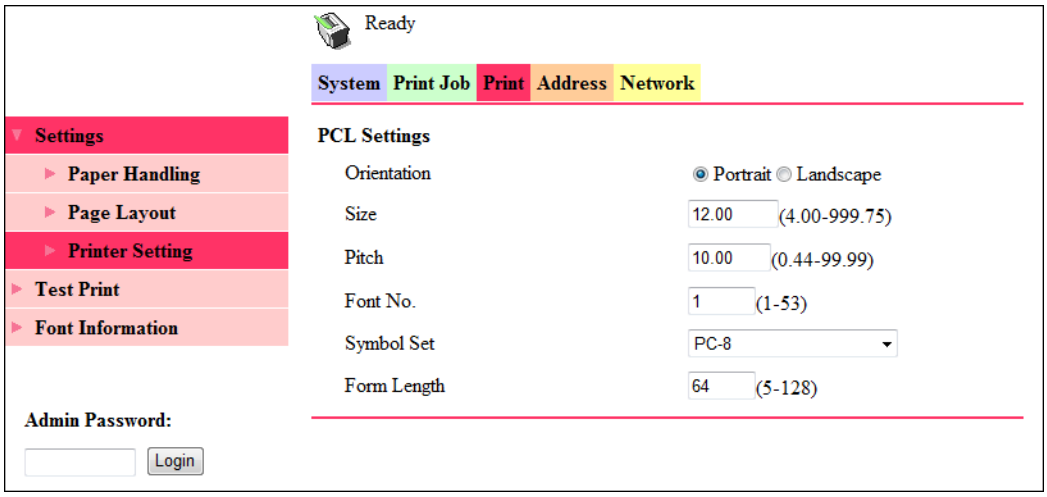
Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.

7.3.10 [Print] - [Settings] - [Printer Setting]

This item enables you to check the settings relevant to the PCL function of the printer.

If a print job is received with no settings configured, the job is printed in this setting.



Item	Description
[Orientation]	Select the paper orientation.
[Size]	Displays the specified font size.
[Pitch]	Displays the specified font pitch.
[Font No.]	Displays the specified font number.
[Symbol Set]	Displays the selected symbol set.
[Form Length]	Displays the specified page length.

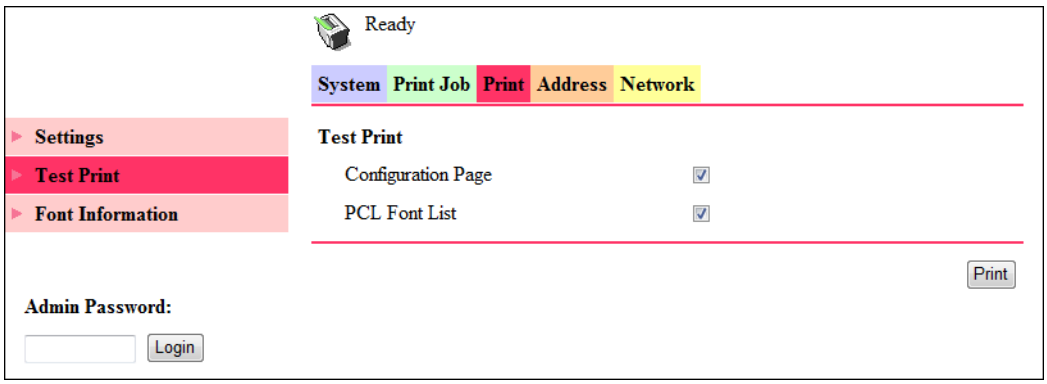
Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.

7.3.11 [Print] - [Test Print]

This item enables you to print the following test pages.

- Configuration Page
- PCL Font List



1 On the [Print] tab, click [Test Print].

2 Select the test page you want to print.

3 Click [Print].

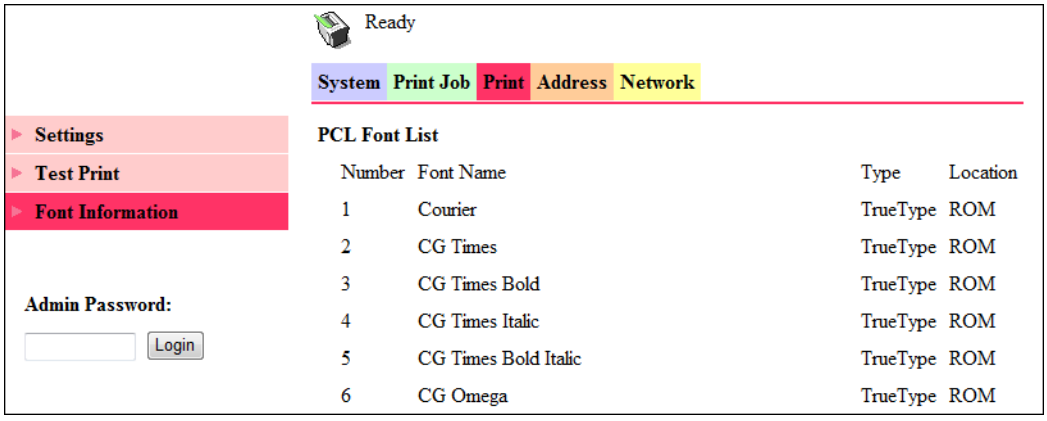
The selected test page is printed out.

Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.

7.3.12 [Print] - [Font Information]

This item enables you to check the PCL font list.

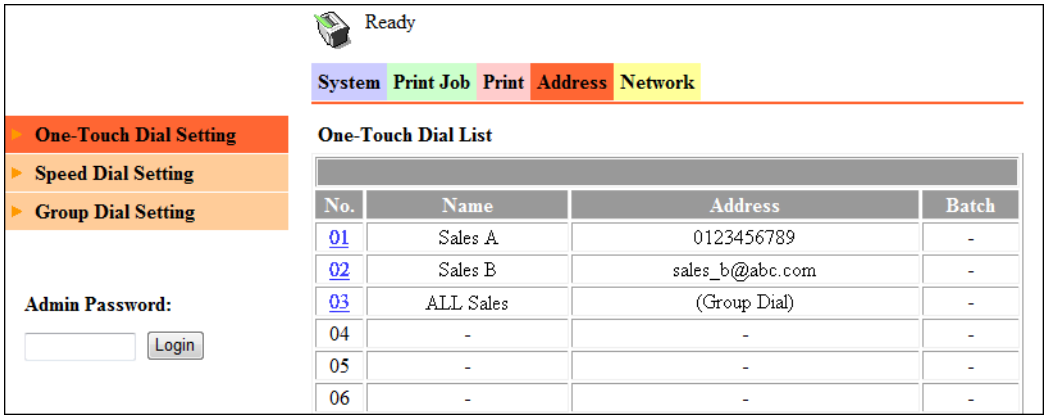


Tips

- The [Print] tab is displayed only when **Image Controller IC-209** is installed.

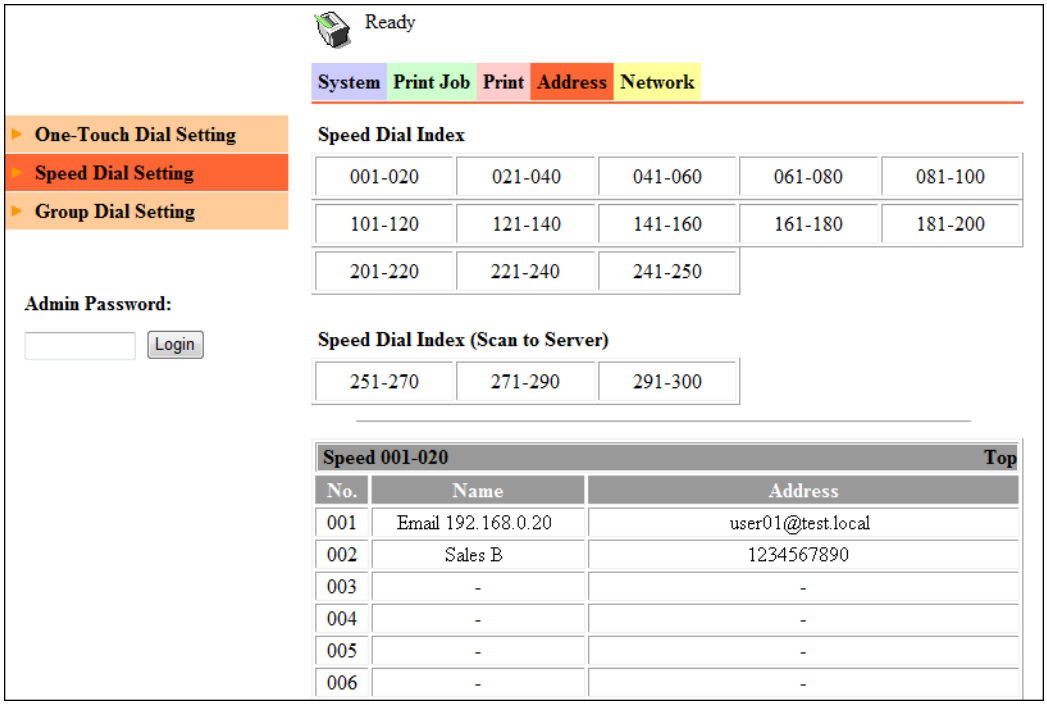
7.3.13 [Address] - [One-Touch Dial Setting]

This item enables you to check the registered one-touch dial settings.



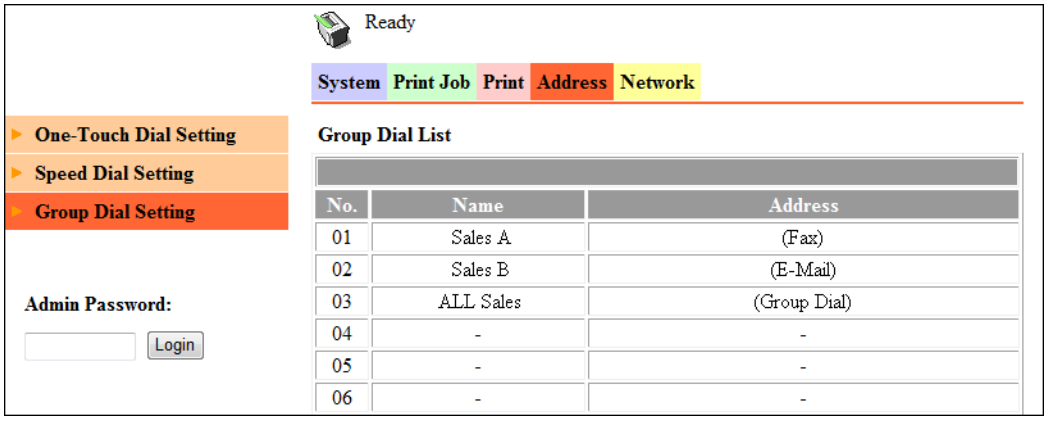
7.3.14 [Address] - [Speed Dial Setting]

This item enables you to check the registered speed dial settings.



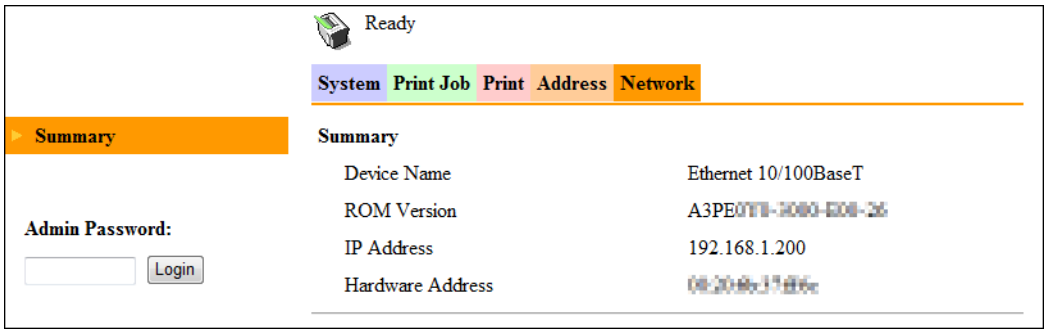
7.3.15 [Address] - [Group Dial Setting]

This item enables you to check the registered group dial settings.



7.3.16 [Network] - [Summary]

This item enables you to check the basic network settings.



8 Troubleshooting

8 Troubleshooting

This chapter describes how to take corrective actions when an error message appears or a problem occurs.

8.1 Main messages and troubleshooting

When a print error occurs, the **Error Indicator** lights up and [Check Printer Mode] appears on the **Display** of this machine. In that case, press the **Printer** key to display the print mode screen.

The following table describes main error messages displayed in the print mode screen.

Error Message	Cause	Correction action
[PAPER SIZE ERROR]	The paper size specified by the printer driver differs from that of the paper in the paper tray.	Load paper of the correct size onto the paper tray where a size error occurred. If you entered a custom size, check the size of the paper and re-enter the size in the utility mode.
[NO SUITABLE PAPER]	[Auto] is selected in the paper tray setting of the printer driver, but paper of the specified size is not loaded into any paper tray.	Load paper of the specified size into the paper tray.
[INCORRECT PAPER SIZE]	Paper of the size specified by the printer driver is not loaded into the specified paper tray.	Change the paper size in utility mode, and load the appropriate paper in the paper tray. When using the multi manual paper feed unit for printing, loading of the appropriate paper starts the printing process.
[PAPER EMPTY]	Paper is not loaded into the specified paper tray, or the specified paper tray is not installed on the machine.	Load paper of the specified size into the paper tray.
[PAPER TYPE ERROR]	Paper of the type specified by the printer driver is not loaded into the specified paper tray.	Load the appropriate paper in the paper tray and change the paper type in utility mode. When using the multi manual paper feed unit for printing, loading of the appropriate paper starts the printing process.
[MEMORY FULL]	Image data received from the computer has caused a memory overflow.	Press any key to cancel the print job that has caused [Memory Full]. Print the data page by page, or simplify the print settings to reprint it.
[NOT ACCEPTED] [PASSWORD]	The secure print password is not correct, and printing cannot be started.	Enter the correct password.

8.2 Handling print data when an error occurs

When an error occurs, the procedure to handle print data vary depending on the type of error.

8.2.1 [MACHINE TROUBLE] error

This error indicates that a serious operating problem has occurred. When this error message appears on the **Display**, the machine cannot receive any print data at all. Contact your service representative.

8.2.2 Temporary error

The following errors are easily recoverable. Even when any of them occurs, the memory retains print data currently in the memory. As soon as the problem causing the error is solved, printing restarts automatically.

- [PAPER JAM]
- [INCORRECT PAPER SIZE]
- [PAPER SIZE ERROR]
- [FRONT COVER OPEN]
- [1st SIDE COVER OPEN]
- [DUPLEX COVER OPEN]
- [NO SUITABLE PAPER]
- [PAPER EMPTY]
- [PAPER TYPE ERROR]

Tips

- When any of those errors occurs, you can cancel print jobs in the memory. For details, refer to page 6-3.

9 Appendix

9 Appendix

9.1 Print specifications

Print speed*1	21 sheets/min. (8-1/2 × 11 inches ▯, A4▯, 600×600 dpi)
Interface	USB Revision 2.0 compatible Ethernet 10/100Base-T /TX (RJ-45) (Optional **Network Card NC-504** or **Image Controller IC-209** is required)
TCP/IP service (Optional)	ARP, BootP, DHCP, IPP, LPR/LPD, Raw Socket, HTTPd 1.1, SLP, AutoIP*2
Printer language	GDI and XPS PCL6 emulation (Optional **Image Controller IC-209** is required)
Font	PCL resident font: 53 European fonts (Optional **Image Controller IC-209** is required)
Supported operating systems of the driver	Windows XP (×86, SP3 or later) Windows XP (×64, SP2 or later) Windows Server 2003 (×86/×64, SP2 or later) Windows Vista (×86/×64, SP2 or later) Windows Server 2008 (×86/×64) Windows Server 2008 R2 (×64) Windows 7 (×86/×64)

*1 The print speed is as follows:
Paper feed from Tray 1

*2 The AutoIP function (APIPA: Automatic Private IP Addressing) automatically assigns an IP address that starts from 169.254 and the 255.255.0.0 subnet mask to **Network Card NC-504**. If network devices on the same network have an IP address and the subnet mask assigned by the AutoIP function, they can communicate with each other.

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