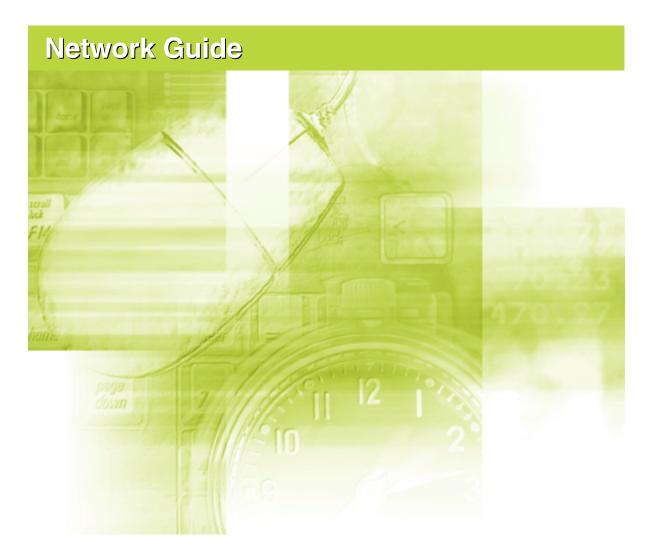
Canon



IMPORTANT:

Read this manual carefully before using your printer. Save this manual for future reference.



Network Guide



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How This Manual Is Organized

Chapter 1 **Before You Start** Chapter 2 Setting Up the Network Environment for Printing Chapter 3 **Managing the Printer in the Network Environment** Chapter 4 **Troubleshooting** Chapter 5 **Appendix**

A list of the network setting items, specifications of the network board, index, and others are provided.

Notice

- To view the manuals in PDF format, Adobe Reader/Adobe Acrobat Reader is required. If Adobe Reader/Adobe Acrobat Reader is not installed on your system, please download it from the Adobe Systems Incorporated website.
- Depending on the printer model you are using, the printer driver or other software in the CD-ROM supplied with the printer may differ from the one described in this manual. Download the latest printer driver or other software from the Canon website. Also, check operating systems that support the latest software and the procedure for installing the downloaded software on the Canon website.

Contents

	Preface
	How To Use This Manual
	Symbols Used in This Manual
	Buttons Used in This Manual
	Displays Used in This Manualvi
	Abbreviations Used in This Manual
	Legal Notices vii
	Trademarksvii
	Copyright vii
	Disclaimersvii
Chapter 1	Before You Start
	Checking the Network Environment
	The Firmware of the Network Board 1-3
	System Requirements
	Printer Driver
	LBP3310
	LBP5100/5000/3300. 1-5
	Canon CAPT Print Monitor. 1-5
	Remote UI
	NetSpot Device Installer
	Netopot Device installer
Chapter 2	Setting Up the Network Environment for Printing
	Installing the Printer Driver
	Auto Setup (Recommended Method)2-3
	Manual Setup
	Setting the IP Address
	IP Address Setting Using NetSpot Device Installer 2-21
	IP Address Setting Using the ARP/PING Command 2-28
	IP Address Setting Using the Printer Status Window
	Installing Canon CAPT Print Monitor
	Installing the Printer Driver from the [Printers and Faxes] Folder or the
	[Printers] Folder
	For Windows Vista
	For Windows XP/Server 2003
	For Windows 2000
	For Windows 98/Me

	When Data Is Not Sent to the Printer4-9
	Problems with Local Installation
	Installation Problems4-2
Chapter 4	Troubleshooting
	Managing the Printer3-2Managing the Printer Using the Remote UI.3-3Restricting the Users Who Can Print3-3Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol3-7Restricting the Users Who Can Perform the Multicast Discovery3-13Restricting the Devices That Can Access with MAC Addresses3-18Obtaining/Checking the Security Access Logs3-22Obtaining the Security Access Log3-22Checking the Security Access Logs3-26Initializing the Network Settings3-29Managing the Printer Using FTP Client3-32Managing the Printer Using NetSpot Device Installer3-35Configurable Devices3-35Installing NetSpot Device Installer3-36Running NetSpot Device Installer3-41If Running NetSpot Device Installer Installed on a Computer3-41If Running NetSpot Device Installer from the CD-ROM Supplied with the Printer3-42How to Use NetSpot Device Installer3-44
Chapter 3	Managing the Printer in the Network Environment
	Protocol Settings Using the Remote UI
	Protocol Settings for the Printer2-81
	For Windows 98/Me/20002-77 Checking the Operations with Network Status Print2-78
	For Windows Vista
	Far Windows Vista

Chapter 5 Appendix

Network Setting Items	. 5-2
Software That Can Be Used for the Network Settings	. 5-7
Setting the Network Board	. 5-8
Initializing the Network Settings	5-12
Settings for Adding a Port	5-16
Changing the IP Address	5-18
Changing the IP Address	
After Changing the IP Address (Changing the Port)	5-19
For Standard TCP/IP Port	5-19
For Canon CAPT Print Monitor	5-24
Checking the MAC Address of the Network Board	5-28
Using the Unicast Communication Mode	5-30
Unicast Communication Mode	5-30
Setting the Network Board to Enter into the Unicast Communication Mode	5-30
Updating the Firmware	5-33
Specifications	5-37
Hardware Specifications	5-37
Software Specifications	5-37
Index	5-38

Preface

Thank you for purchasing this Canon product.

Please read this manual thoroughly before operating the printer in order to familiarize yourself with its capabilities, and to make the most of its many functions.

After reading this manual, store it in a safe place for future reference.

How To Use This Manual

Symbols Used in This Manual

The following symbols are used in this manual to indicate operational requirements or clarification.



Indicates operational requirements and restrictions.

Be sure to read these items carefully in order to operate the printer correctly, and to avoid damage to the printer.



Indicates a clarification of an operation, or contains additional

explanations for a procedure.

Reading these notes is highly recommended.

Buttons Used in This Manual

The following are a few examples of how buttons are depicted in this manual:

• Buttons on Computer Operation Screen: [Button Name]

Example: [OK]

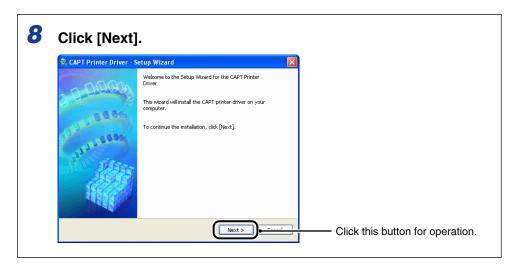
[Details]

Displays Used in This Manual

Displays used in this manual may differ from those shown on your computer display, depending on the system.

The buttons to be clicked are marked with a ____ as shown below.

If multiple buttons can be clicked for a procedure, all such buttons will be marked on the illustration. Select the appropriate button.



Abbreviations Used in This Manual

In this manual, product names and model names are abbreviated as follows:

Microsoft Windows 98 operating system: Windows 98

Microsoft Windows Millennium Edition operating system: Windows Me

Microsoft Windows 2000 operating system: Windows 2000

Microsoft Windows XP operating system: Windows XP

Microsoft Windows Server 2003 operating system: Windows Server 2003

Microsoft Windows Vista operating system: Windows Vista

Microsoft Windows Server 2008 operating system: Windows Server 2008

Microsoft Windows 7 operating system: Windows 7
Microsoft Windows operating system: Windows

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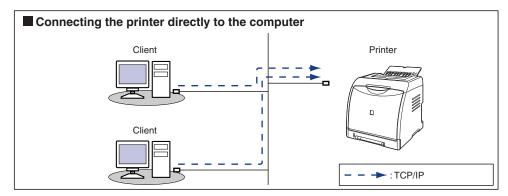
Before You Start

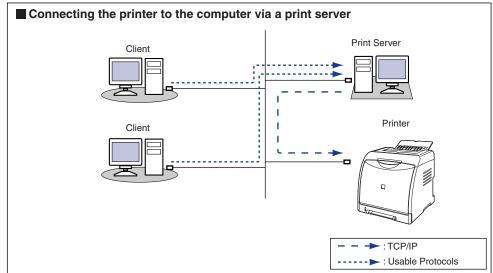
This chapter describes a brief overview of the requisite tasks to perform and the system environment of the software for printing or managing the printing operation in a network environment.

Checking the Network Environment	1-2
The Firmware of the Network Board	1-3
System Requirements	1-4
Printer Driver	1-4
Canon CAPT Print Monitor	1-5
Remote UI	1-6
NetSpot Device Installer.	1-7

Checking the Network Environment

By installing the network board in the printer, you can use the printer in the network environment as shown in the following figure. The network board supports the TCP/IP protocols.





- ' If you want to connect this printer via a print server, you must perform the following settings.
 - 1. Install the printer driver on the print server. (See p. 2-2)
 - 2. Configure the print server. (See User's Guide)
 - 3. Install the printer driver on a client computer. (See User's Guide)

The Firmware of the Network Board

Depending on the printer you are using, the supported firmware version of the network board varies as follows.

■ For NB-C2

Printer	Firmware Version of the Network Board
LBP3310	Ver. 1.30 or later
LBP5100/5000/3300	Ver. 1.10 or later

■ For NB-C1

Printer	Firmware Version of the Network Board
LBP5000/3300	Ver. 1.20 or later

If the firmware version is old, the printer may not operate properly. Make sure that the printer you are using supports the version.

If the version is not supported by the printer you are using, download the latest update file from the Canon website to update the firmware.

For details on the procedures for checking and updating the firmware version, see "Updating the Firmware," on p. 5-33.



You can also update the firmware using the update file in the "NB-XX_Firmware"* folder in the CD-ROM supplied with the printer (If the update file is not in the CD-ROM, download it from the Canon website.).

For details on the update file, see the README file in the "NB-XX_Firmware"* folder.

* XX indicates "C1" or "C2".

System Requirements



IMPORTANT

Depending on the printer model you are using, operating systems that support the printer driver or other software in the CD-ROM supplied with the printer may differ from those described in this manual. Download the latest printer driver or other software from the Canon website. Also, check operating systems that support the latest software and the procedure for installing the downloaded software on the Canon website.

Printer Driver

The following system environment is required to use the printer driver.

LBP3310

■ Operating system software

- · Windows 2000 Server or Professional
- · Windows XP Professional or Home Edition
- Windows XP Professional x64 Edition
- Windows Server 2003
- Windows Server 2003 x64 Editions
- Windows Vista (32-bit or 64-bit version)
- Windows Server 2008 (32-bit or 64-bit version)
- Windows 7 (32-bit or 64-bit version)
 - † For details on the procedures, instructions, and so on for Windows 7 and Server 2008, refer to those for Windows Vista.
- † For details on the latest status of the supported operating systems and Service Pack, see the Canon website (http://www.canon.com/).



IMPORTANT

For details on the minimum-required and recommended system requirements, see "User's Guide".

■ Interface

Connector: 10BASE-T or 100BASE-TX

Protocol: TCP/IP



NOTE

The printer supports Standard TCP/IP Port, but does not support LPR Port.

LBP5100/5000/3300

■ Operating system software

- Windows 98
- Windows Me
- · Windows 2000 Server/Professional
- Windows XP Professional/Home Edition*
- Windows Server 2003*
- Windows Vista*
- * 32-bit processor version only



For details on the minimum-required and recommended system requirements, see "User's Guide".

■ Interface

Connector: 10BASE-T or 100BASE-TX

• Protocol: TCP/IP



- If you want to use Sound, a PCM synthesizer (and the driver for the PCM synthesizer) must be installed in your computer. Do not use a PC Speaker driver (speaker.drv etc.).
- If you are using LBP5100 with Windows 2000/XP/Server 2003/Vista, this printer supports Standard TCP/IP Port, but does not support LPR Port.

Canon CAPT Print Monitor

The following system environment is required to use Canon CAPT Print Monitor.



If you are using LBP3310, you do not use Canon CAPT Print Monitor.

■ Operating system software

- Windows 98
- Windows Me
- · Windows 2000 Server/Professional
- Windows XP Professional/Home Edition*
- Windows Server 2003*
- Windows Vista*
- * 32-bit processor version only

- System Requirements (minimum required)

	Windows 98/Me	Windows 2000/XP/ Server 2003	Windows Vista	
СРИ	Pentium II 300 MHz or more	Pentium II 300 MHz or more	Conforms to the minimum system	
Memory (RAM)*	64 MB or more	128 MB or more	requirements for Windows Vista	
Hard Disk	20 MB or more	20 MB or more	20 MB or more	

(PC/AT Compatibles)

- * Because the amount of available memory varies depending on the computer's system configuration as well as the applications you are using, the above environment does not necessarily guarantee printing.
- System Requirements (recommended)

	Windows 98/Me	Windows 2000/XP/ Server 2003	Windows Vista	
CPU	Pentium III 600 MHz or more	Pentium III 600 MHz or more	Conforms to the recommended	
Memory (RAM)	128 MB or more	256 MB or more	system requirements for Windows Vista	

■ Protocol

• TCP/IP

Remote UI

The following system environment is required to use the Remote UI:

■ Web Browser

- Netscape Navigator 4.7 or later
- Internet Explorer 4.01SP1 or later

■ Operating System

An operating system on which the above web browser can run

■ Display

• Resolution: 800 x 600 pixels or more

· Display colors: 256 or more



Software other than the above one, such as a web server, is not required. (A web server is preinstalled in the printer.)

NetSpot Device Installer

The following system environment is required to use NetSpot Device Installer:

■ Operating system software

- Windows 2000 Server or Professional
- Windows XP Professional or Home Edition
- Windows XP Professional x64 Edition
- Windows Server 2003
- Windows Server 2003 x64 Editions
- Windows Vista (32-bit or 64-bit version)
- Windows Server 2008 (32-bit or 64-bit version)
- Windows 7 (32-bit or 64-bit version)
- † For details on the latest NetSpot Device Installer, see the Canon website (http://www.canon.com/).

■ Computer

A computer in which the above operating system can run

■ Hard Disk

Free disk space of 20 MB or more (if this software is to be installed on the computer)

■ Protocol

• TCP/IP

■ Protocol Stack

The TCP/IP protocol supplied with Windows

Setting Up the Network Environment for Printing

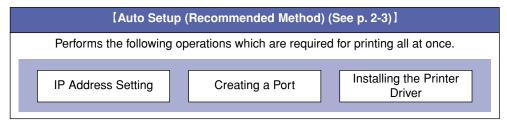


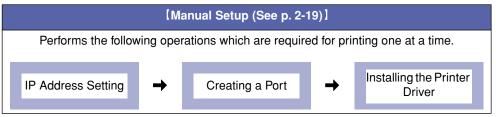
This chapter describes the procedures for printing in a network environment.

Installing the Printer Driver	2-2
Auto Setup (Recommended Method)	2-3
Manual Setup . Setting the IP Address . Installing Canon CAPT Print Monitor . Installing the Printer Driver from the [Printers and Faxes] Folder or the [Printers] Folder	2-21 2-33
After Completing Installation. For Windows Vista For Windows XP/Server 2003. For Windows 98/Me/2000.	2-75 2-76
Checking the Operations with Network Status Print	. 2-78
Protocol Settings for the Printer Protocol Settings Using the Remote UI Protocol Settings Using NetSpot Device Installer Protocol Settings Using FTP Client.	2-81 2-89
Uninstalling the CAPT Software Uninstalling the Printer Driver Uninstalling Canon CAPT Print Monitor Uninstalling NetSpot Device Installer	2-97 2-99

Installing the Printer Driver

There are the following two methods to install the printer driver (the operations to be performed to print in a network environment).







IMPORTANT

- The printer driver is required for printing with the printer. Be sure to install the printer driver
- Depending on the printer model you are using, the printer driver or other software in the CD-ROM supplied with the printer may differ from the one described in this manual.
 Download the latest printer driver or other software from the Canon website. Also, check operating systems that support the latest software and the procedure for installing the downloaded software on the Canon website.



NOTE

For details on the procedures for installing the printer driver in the following environments, see "User's Guide".

- Installing the printer driver on a computer connected to the printer by a USB cable
- Installing the printer driver on a client computer connected to a print server

Auto Setup (Recommended Method)

IMPORTANT

When there is insufficient free hard disk space, a message will appear during the installation. Stop the installation and increase the free space of the disk, and then install the printer driver again.

∧ NOTE

- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, and if you want to detect the printer in which the IP address has not been set yet, unblock Windows Firewall to detect the printer during the installation process. If you do not want to unblock Windows Firewall, see "Manual Setup" (p. 2-19) and specify the IP address for the printer in advance.
- Make sure that the computer and printer are connected via the network.
- **2** Make sure that the printer is ON.
- 3 Turn the computer on and start up Windows.
- IMPORTANT

If you are using Windows 2000/XP/Server 2003/Vista, be sure to log on as a user with administrator rights when starting up. If you are not sure about the permissions, ask your computer administrator.

4 Insert the CD-ROM supplied with the printer into the CD-ROM drive.

If the CD-ROM is already in the drive, eject the disk and re-insert it into the drive.



- If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Run AUTORUN.EXE].
- If CD-ROM Setup does not appear, display it using the following procedures. (The CD-ROM drive name is indicated as "D:" in this manual. The CD-ROM drive name may differ depending on the computer you are using.)
 - If you are using an operating system other than Windows Vista, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK].
 - If you are using Windows Vista, enter "D:\English\MInst.exe" in [Start Search] under the [Start] menu, and then press the [ENTER] key on your keyboard.
- If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

5 Click [Easy Installation] or [Custom Installation].

- If you want to install the printer driver and the manuals: [Easy Installation]
- If you want to install only the printer driver:

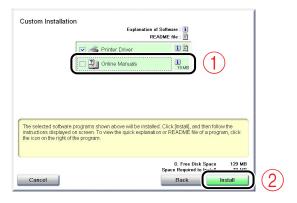
[Custom Installation]



6 Click [Install].



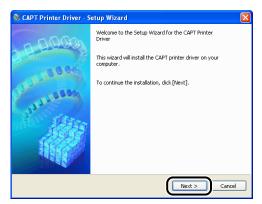
If you selected [Custom Installation] in Step 5, clear the [Online Manuals] check box (1), and then click [Install] (2).



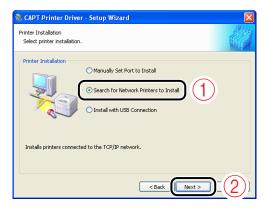
7 Confirm the contents, then click [Yes].



8 Click [Next].

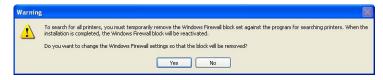


9 Select [Search for Network Printers to Install] ①, then click [Next] ②.



The TCP/IP port on the network is searched, and the printer is detected automatically.

If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, the following screen is displayed.



If the IP address of the printer has been already set, click [No]. If you want to clear the block and detect the printers in which the IP address has not been set yet, click [Yes].

10 Operation procedure varies depending on the content displayed in [Product Name] in [Printer List].

- If the name of the printer is displayed in [Product Name] (See p. 2-7)
- If [Unknown Device] is displayed in [Product Name] (See p. 2-8)

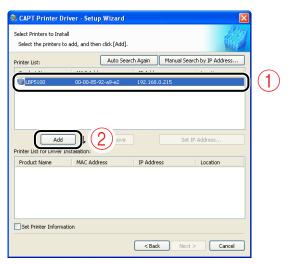


If the printer to be installed is not displayed in [Printer List], perform the following settings.

- Make sure that the computer and printer are connected via the network and that the printer is ON.
- Click [Auto Search Again]. The printers on the network are searched for again.
- Click [Manual Search by IP Address]. By entering the IP address of the printer to be installed in the displayed [Manual Search by IP Address] dialog box and clicking [OK], the printer that has the entered IP address is searched for (Enter the IP address by separating the numbers with a period (.), for example, AAA.BBB.C.DD).

• If the name of the printer is displayed in [Product Name]

1. Select the printer to be installed ①, then click [Add] ②.





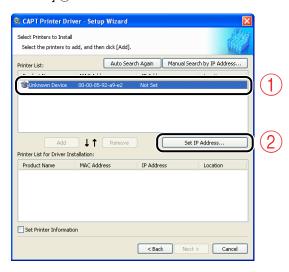
Depending on the system environment, "192.168.0.215" (the default value for the network board) is displayed in [IP Address] under [Printer List]. If you want to change the IP address, see "Protocol Settings for the Printer" (p. 2-81) to change the IP address after finishing the installation.

If you changed the IP address after installing the printer driver, see "After Changing the IP Address (Changing the Port)" (p. 5-19) and set the port anew.

2. Proceed to Step 11.

If [Unknown Device] is displayed in [Product Name]

1. Select the printer displayed as [Unknown Device] ①, then click [Set IP Address 2.





If more than one [Unknown Device] are displayed, turn off the devices other than the printer to be installed or remove the devices from the network, and then click [Auto Search Again]. After completing the settings for the printer, restore the devices to their original states.

2. Enter the IP address of the printer in the [Set IP Address] dialog box (1), then click [OK] (2).

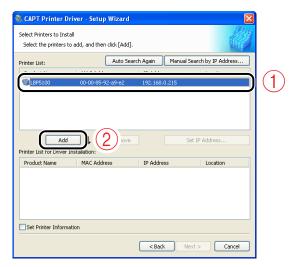


[Get automatically]:

Obtain an IP address using DHCP (The DHCP server needs to be started up.). For more details on configuring the DHCP server, ask your network administrator.

[Use the following IP address]: Specify the IP address directly (Enter the IP address by separating the numbers with a period (.), for example, AAA.BBB.C.DD).

3. Select the printer to be installed ①, then click [Add] ②.

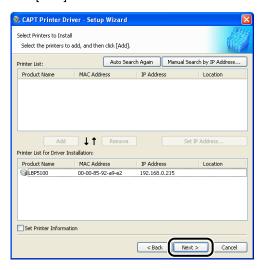


- 4. Proceed to Step 11.
- 11 Make sure that the name of the printer is added to [Printer List for Driver Installation].



This procedure allows you to specify the settings for printer information such as the printer sharing settings. You can also specify these settings in the [Printers and Faxes] folder or the [Printers] folder after the installation.

- If you do not want to specify the settings for printer information such as the printer sharing settings
 - 1. Click [Next].



If the following screen appears, click [Yes].



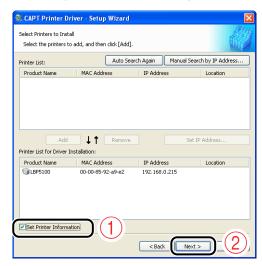
The following port is created.

Printer	Operating System	Port to Be Created	
LBP3310	Windows 2000/XP/ Server 2003/Vista	Standard TCP/IP Port	
LBP5100	Windows 2000/XP/ Server 2003/Vista		
	Windows 98/Me		
LBP5000/3300	Windows 98/Me/2000/ XP/Server 2003/Vista	Canon CAPT Port	

2. Proceed to Step 12.

If you want to specify the settings for printer information such as the printer sharing settings

1. Select the [Set Printer Information] check box ①, then click [Next] ②.



2. Specify the settings for printer information.



Options to be specified

[Printer Name]: Enter a new name in [Printer Name] if you want to change the

printer name.

[Set as Default]: If you want to use the printer as the default printer, select the

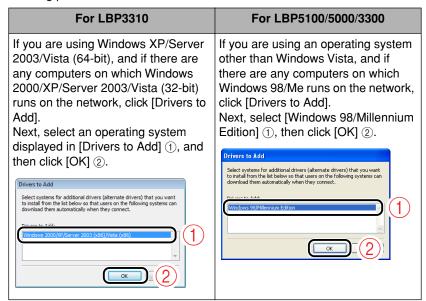
[Set as Default] check box.

[Use as Shared Printer]: If the computer on which you are currently installing the printer

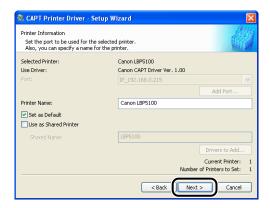
driver is to be used as a print server, select the [Use as Shared

Printer] check box. Change [Shared Name] as needed.

If you have selected the [Use as Shared Printer] check box, perform the following procedure.



4. Click [Next].



If the following screen appears, click [Yes].



The following port is created.

Printer	Operating System	Port to Be Created	
LBP3310	Windows 2000/XP/ Server 2003/Vista	- Standard TCP/IP Port	
LBP5100	Windows 2000/XP/ Server 2003/Vista		
	Windows 98/Me		
LBP5000/3300	Windows 98/Me/2000/ XP/Server 2003/Vista	Canon CAPT Port	

5. Proceed to Step 12.

12 Click [Start].



If the following screen appears, specify whether to configure Windows Firewall to unblock communication with the client computers when sharing the printer on a network.



If you want to share the printer on the network:

Click [Yes]. After completing the installation, see "User's Guide" and specify the settings for sharing the printer on the network.

If you do not want to share the printer on the network:

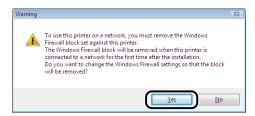
Click [No].

∧ NOTE

- If the above screen appears, you can change the Firewall settings using "CAPT Windows Firewall Utility" in the CD-ROM supplied with the printer after the installation. For more details, see "User's Guide".
- The port name is specified automatically.

13 If you are using Windows Vista, the following screen appears. Click [Yes].

Select [No] only if you do not use a LAN cable to connect the printer to a computer on which the printer driver is being installed.



14 Click [Yes].



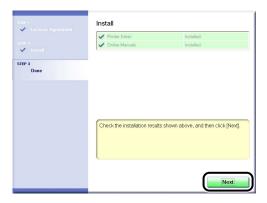
Installation of the printer driver starts.

If [Easy Installation] was selected in Step 5, the manuals are also installed at a time.



- Depending on the system environment, the installation may take a long time.
- If you are using Windows 2000 and the [Digital Signature Not Found] dialog box appears, click [Yes].
- If you are using Windows XP/Server 2003 and the [Hardware Installation] dialog box appears, click [Continue Anyway].
- If you are using Windows Vista and the [Windows Security] dialog box appears, click [Install this driver software anyway].

15 Confirm the installation results, then click [Next].



∧ NOTE

If the printer driver is not installed properly, see "Installation Problems," on p. 4-2.

16 Select the [Restart Computer Now (Recommended)] check box ①, then click [Restart] ②.



Windows restarts.

The installation of the printer driver is completed.

You can take the CD-ROM out of the CD-ROM drive after the installation is completed.

See "After Completing Installation" (p. 2-75) and make sure that the printer driver is installed properly.

For details on the network settings, such as the settings for DNS and WINS, see "Protocol Settings for the Printer," on p. 2-81.

If you are using LBP5100 with Windows XP SP2 or later or Windows Server 2003 SP1 or later, it is recommended that you see the following procedure and specify the settings so that the port is opened through Windows Firewall.

You can print without specifying the settings, however, it may take a long time to obtain the status in the Printer Status Window.

17 Display the [Windows Firewall] dialog box.

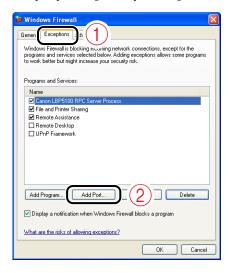
Windows XP

From the [Start] menu, select [Control Panel], and then click [Network and Internet Connections] → [Windows Firewall].

Windows Server 2003

From the [Start] menu, select [Control Panel] → [Windows Firewall].

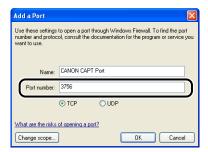
18 Display the [Exceptions] sheet ①, then click [Add Port] ②.



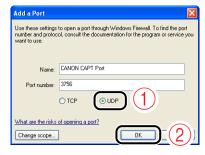
19 Enter "CANON CAPT Port" in [Name].



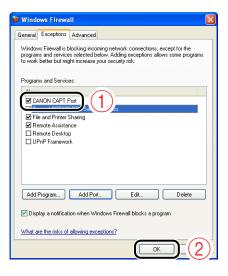
20 Enter "3756" in [Port number].



21 Select [UDP] ①, then click [OK] ②.



22 Make sure that "CANON CAPT Port" is added to [Programs and Services] ①, and then click [OK] ②.



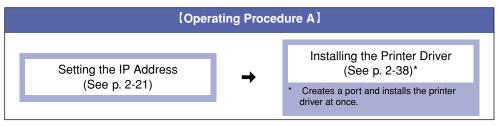
Manual Setup

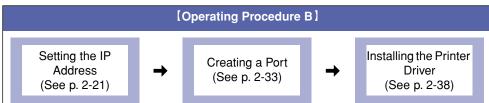
The operating procedure varies depending on the printer or operating system you are using.

Printer	Operating System	Operating Procedure	
LBP3310	Windows Vista	Perform "Auto Setup (Recommended Method)" (See p. 2-3).	
	Windows 2000/XP/Server 2003	Perform [Operating	
LBP5100	Windows 2000/XP/Server 2003 (If using Standard TCP/IP Port*1)	Procedure A .	
	Windows 2000/XP/Server 2003 (If using Canon CAPT Port*2)	Perform (Operating	
	Windows 98/Me/Vista	Procedure B .	
LBP5000/3300	Windows 98/Me/2000/XP/Server 2003/Vista	1	

^{*1} Standard TCP/IP Port supplied with Windows.

^{*2} The port created by the software in the CD-ROM supplied with the printer.

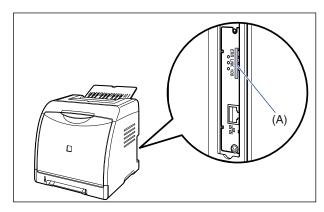




NOTE

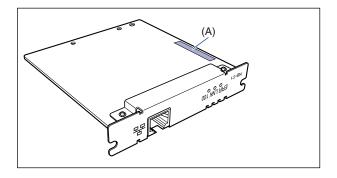
The MAC address is required to set the IP address using the ARP/PING command. The MAC address is indicated at (A) on the network board as shown in the following figure.

• For NB-C2



* LBP5100 is taken as the example.

• For NB-C1



Setting the IP Address

There are the following three methods for setting the IP address.

	Description	See
Settings Using NetSpot Device Installer	Set the IP address using NetSpot Device Installer in the CD-ROM supplied with the printer.	p. 2-21
Settings Using the ARP/ PING Command	If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, set the IP address using the ARP/PING command.	p. 2-28
Settings Using the Printer Status Window	If the printer driver is already installed and the printer and computer are connected by a USB cable, set the IP address using the Printer Status Window.	p. 2-30

IP Address Setting Using NetSpot Device Installer



IMPORTANT

If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, be careful of the following points.

- It is recommended that you set the IP address using the ARP/PING command. (See p. 2-28)
- If you want to set the IP address using NetSpot Device Installer, you need to add "NetSpot Device Installer" to Windows Firewall in advance. Perform either of the following procedures.
- Adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
- Installing NetSpot Device Installer (You can add it to Windows Firewall during the installation.) (See p. 3-36)

To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.



NOTE

- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- The screenshots of NetSpot Device Installer used in this manual may be different from those actually you see on the screen.
- This section describes the procedure for using NetSpot Device Installer without installing
 it. For details on the procedures for installing NetSpot Device Installer, see "Managing the
 Printer Using NetSpot Device Installer," on p. 3-35.

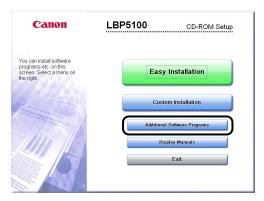
- Make sure that the computer and printer are connected via the network.
- Make sure that the printer is ON.
- Insert the CD-ROM supplied with the printer into the CD-ROM drive.

If the CD-ROM is already in the drive, eject the disk and re-insert it into the drive.

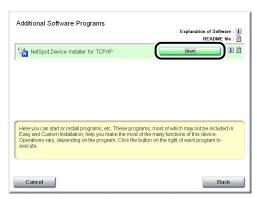


∧ NOTE

- If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Run AUTORUN.EXE].
- If CD-ROM Setup does not appear, display it using the following procedures. (The CD-ROM drive name is indicated as "D:" in this manual. The CD-ROM drive name may differ depending on the computer you are using.)
 - If you are using an operating system other than Windows Vista, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK].
 - If you are using Windows Vista, enter "D:\English\MInst.exe" in [Start Search] under the [Start] menu, and then press the [ENTER] key on your keyboard.
- If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].
- Click [Additional Software Programs].



5 Click [Start] in [NetSpot Device Installer for TCP/IP].



If the [License Agreement] dialog box appears, confirm the contents, and then click [Yes].

NetSpot Device Installer runs, and the target printer search starts.



NOTE

If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

6 Set the IP address.

Display screens of NetSpot Device Installer vary depending on the system environment.

Perform the following procedure according to the contents displayed in the device list.

- If [Status] is set to [Not Configured], and the device of which [Device Name] is the MAC address of the network board is displayed on the device list (See p. 2-24)
- If any devices in which the setting for [IP Address] is the default setting are displayed in the device list (See p. 2-24)
- If your case falls within neither of the above cases (See p. 2-26)

IMPORTANT

If you want to set the IP address using NetSpot Device Installer, you need to add "NetSpot Device Installer" to Windows Firewall in advance. Perform either of the following procedures.

- Exiting NetSpot Device Installer once, then adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
- Installing NetSpot Device Installer (You can add it to Windows Firewall during the installation.) (See p. 3-36)

To display Readme of NetSpot Device Installer, click [] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.

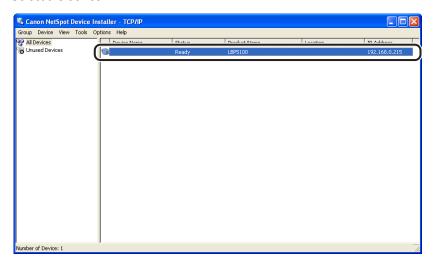


If the desired printer is not detected, select [Discover Devices] from the [View] menu, and then search for the printer again.

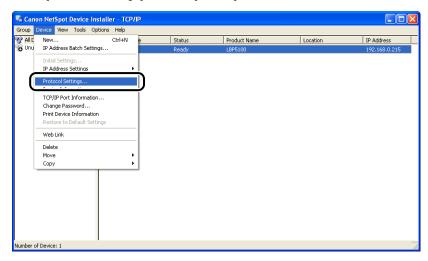
• If [Status] is set to [Not Configured], and the device of which [Device Name] is the MAC address of the network board is displayed on the device list

See Help of NetSpot Device Installer and specify the initial settings for the IP address.

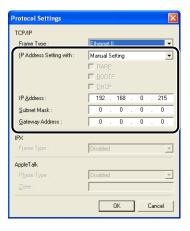
- † Help is displayed by clicking [Help] in the [Help] menu.
- If any devices in which the setting for [IP Address] is the default setting are displayed in the device list
 - 1. Select the device.



2. Select [Protocol Settings] from the [Device] menu.



3. Specify the IP address.



Options to be specified

[IP Address Setting with]: Select the method for setting the IP address.

> [Manual Allows you to specify the IP address directly. Setting: The IP address entered for [IP Address] is

> > specified for the network board.

[Auto Detect]: Obtains an IP address using RARP, BOOTP, or

DHCP.

[RARP]: Obtains an IP address using RARP. (The RARP

daemon needs to be running.)

[BOOTP]: Obtains an IP address using BOOTP. (The

BOOTP daemon needs to be running.)

[DHCP]: Obtains an IP address using DHCP. (The

DHCP server needs to be running.)

[IP Address]: Enter the IP address of the network board.

Options to be specified as needed

[Subnet Mask]: Enter the subnet mask that is being used on the TCP/IP

[Gateway Address]: Enter the gateway address that is being used on the TCP/IP

network.



∧ NOTE

If [RARP] is selected, you cannot enter any value in [IP Address].

- If [BOOTP] or [DHCP] is selected, you cannot enter any values in [IP Address], [Subnet Mask], and [Gateway Address].
- If you cannot use RARP, BOOTP, and DHCP, specify [Manual Setting].
- **4.** Proceed to Step 7.

If your case falls within neither of the above cases

If the display of NetSpot Device Installer falls within neither of the above even when the network cable is connected properly and the printer is ON, there is a possibility that a device whose IP address is the same as the default IP address of the printer exists on the network. In this case, perform the following procedure.

- 1. Turn off the device that has the same IP address or remove the device from the network.
 - If this procedure is not possible, set the IP address using the ARP/PING command. (See p. 2-28)
- 2. Repeat the procedure from Step 1 (See p. 2-22) again.
- 3. After completing the settings, restore the devices to their original states.

- 7 After completing the settings, click [OK].
- When the message <The device has been reset.> appears, click [OK].

To perform a reset operation properly, wait for approximately 20 seconds or longer as is after clicking [OK].

After completing the reset, the settings are enabled.

Next, perform the following procedure.

If you are using LBP3310	
If you are using LBP5100 with Standard TCP/IP Port (Windows 2000/XP/Server 2003 only)	Proceed to p. 2-38.
If you are using a printer model other than the above	Proceed to p. 2-33.

IP Address Setting Using the ARP/PING Command

- Make sure that the computer and printer are connected via the network.
- Make sure that the printer is ON.
- **Run Command Prompt or MS-DOS Prompt.**

Windows 98

From the [Start] menu, select [Programs] → [MS-DOS Prompt].

Windows Me

From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

Windows 2000

From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].

Enter the following command, then press the [ENTER] key on your keyboard.

arp -s <IP Address> <MAC Address>

IP Address: Specify the IP address to assign to the printer. Specify the address with

four numbers (from 0 to 255) separated with a period (.).

MAC Address: Specify the MAC address of the printer. Separate the number every two

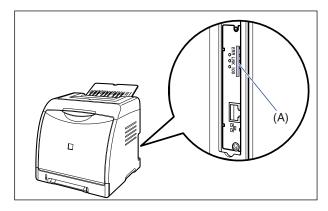
digits with a hyphen (-).

Input Example: arp -s 192.168.0.215 00-00-85-05-70-31



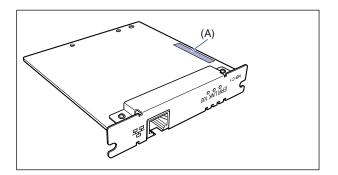
The MAC address is indicated at (A) on the network board as shown in the following figure.

• For NB-C2



* LBP5100 is taken as the example.

• For NB-C1



5 Enter the following command, then press the [ENTER] key on your keyboard.

ping <the IP Address> -I 479

IP Address: Specify the same IP address as the one used in Step 4.

Input Example: ping 192.168.0.215 -I 479

The IP address is set on the network board.



- I of "-I" is the letter "L" of the alphabet.
- The subnet mask and gateway address are set to [0.0.0.0].

6 Enter "exit", then press the [ENTER] key on your keyboard.

Exit Command Prompt or MS-DOS Prompt.

Next, perform the following procedure.

If you are using LBP3310	Proceed to p. 2-38.
If you are using LBP5100 with Standard TCP/IP Port (Windows 2000/XP/Server 2003 only)	
If you are using a printer model other than the above	Proceed to p. 2-33.

IP Address Setting Using the Printer Status Window

You can set the IP address from the Printer Status Window if the printer driver has already been installed by the USB connection.



NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

Perform the following procedure.

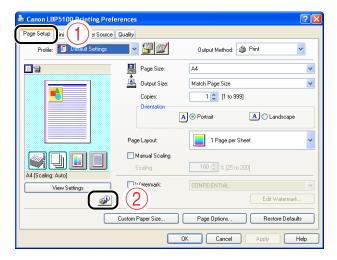
Windows 98 Windows Me

Right-click the icon for your printer, then select [Properties] from the pop-up menu.

Windows 2000 Windows XP Windows Server 2003 Windows Vista

Right-click the icon for your printer, then select [Printing Preferences] from the pop-up menu.

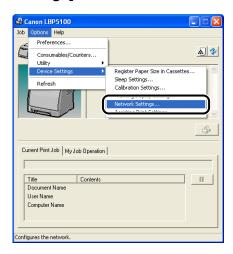
3 Display the [Page Setup] sheet ①, then click [] (Display Printer Status Window) ②.



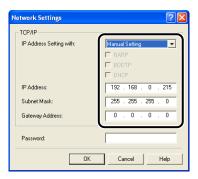
⊘ NOTE

For details on the Printer Status Window, see "User's Guide".

From the [Options] menu, select [Device Settings] → [Network Settings].



Specify the IP address.



Options to be specified

[IP Address Setting with]: Select the method for setting the IP address.

> [Manual Allows you to specify the IP address Setting]: directly. The IP address entered for [IP Address] is specified for the network board.

[Auto Obtains an IP address using RARP,

BOOTP, or DHCP. Detect]:

[RARP]: Obtains an IP address using RARP. (The

RARP daemon needs to be running.)

[BOOTP]: Obtains an IP address using BOOTP. (The

BOOTP daemon needs to be running.)

[DHCP]: Obtains an IP address using DHCP. (The

DHCP server needs to be running.)

[IP Address]: Enter the IP address of the network board.

Options to be specified as needed

[Subnet Mask]: Enter the subnet mask that is being used on the TCP/

IP network.

[Gateway Address]: Enter the gateway address that is being used on the

TCP/IP network.

[Password]: Enter the administrator password for the network

board. If the password is not specified, it is not

required to enter any value.



∧ NOTE

- If [RARP] is selected, you cannot enter any value in [IP Address].
- If [BOOTP] or [DHCP] is selected, you cannot enter any values in [IP Address], [Subnet Mask], and [Gateway Address].
- If you cannot use RARP, BOOTP, and DHCP, specify [Manual Setting].

6 After completing the settings, click [OK].

The Printer Status Window reappears.

Next, perform the following procedure.

If you are using LBP3310	
If you are using LBP5100 with Standard TCP/IP Port (Windows 2000/XP/Server 2003 only)	Proceed to p. 2-38.
If you are using a printer model other than the above	Proceed to p. 2-33.

Installing Canon CAPT Print Monitor



- You do not need to install Canon CAPT Print Monitor under the following circumstances.
 Proceed to the installation of the printer driver. (See p. 2-38)
- If you are using LBP3310
- If you are using LBP5100 with Standard TCP/IP Port (Windows 2000/XP/Server 2003 only)
- * If you are using Windows Vista, you cannot print using Standard TCP/IP Port created by "Manual Setup". Perform either of the following procedures.
 - Performing "Auto Setup" (Using Standard TCP/IP Port created automatically)
 - Installing Canon CAPT Print Monitor and using Canon CAPT Port
- If you are using LBP3310, you cannot use Canon CAPT Print Monitor.



The screenshots used in this section are from Windows XP Professional.

1 Insert the CD-ROM supplied with the printer into the CD-ROM drive.

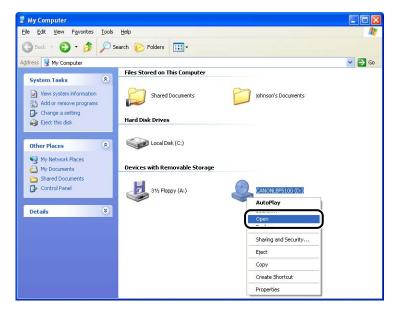
If CD-ROM Setup appears, click [Exit]. If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Open folder to view files], and then proceed to Step 4.



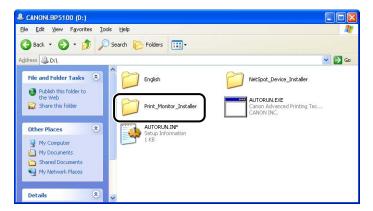
To install Canon CAPT Print Monitor downloaded from the Canon website, decompress the downloaded file, double-click the created folder, and then proceed to Step 6.

2 Open [My Computer] ([Computer] for Windows Vista).

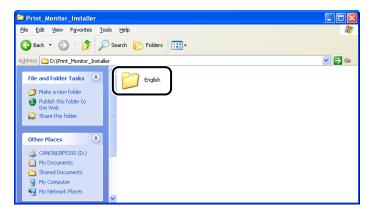
3 Right-click the CD-ROM icon, then select [Open] from the pop-up menu.



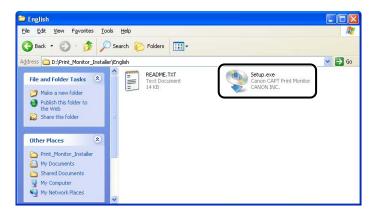
4 Double-click the [Print_Monitor_Installer] folder.



5 Double-click the [English] folder.



6 Double-click [Setup.exe].



The installer of Canon CAPT Print Monitor starts.

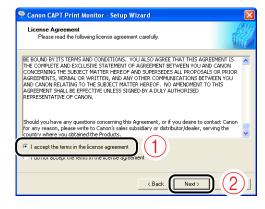


If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

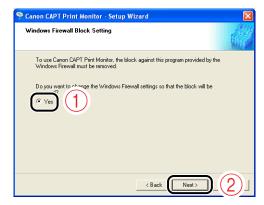
7 Click [Next].



8 Confirm the contents, select [I accept the terms in the license agreement] ①, and then click [Next] ②.



If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and when the following screen appears, select [Yes] 1, and then click [Next] 2.



9 Click [Start].



Installation of Canon CAPT Print Monitor starts.

10 Restart the computer following the instructions on the screen.



Next, install the printer driver. (See p. 2-38)

Installing the Printer Driver from the [Printers and Faxes] Folder or the [Printers] Folder

The procedure for installing the printer driver from the [Printers and Faxes] folder or the [Printers] folder varies depending on your operating system. See the following according to your operating system.

- For Windows Vista (See p. 2-38)
- For Windows XP/Server 2003 (See p. 2-45)
- For Windows 2000 (See p. 2-56)
- For Windows 98/Me (See p. 2-66)



IMPORTANT

If you want to print a test page, check the following before installing the printer driver.

- Whether the printer and computer are connected properly
- Whether the printer is ON

For Windows Vista



IMPORTANT

In the following cases, see "Auto Setup (Recommended Method)" (p. 2-3) and install the printer driver.

- If you are using LBP3310
- If you are using LBP5100 with Standard TCP/IP Port



NOTE

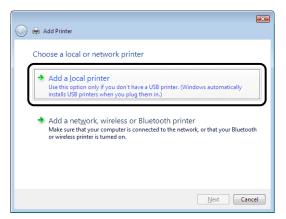
The screenshots used in this section are from LBP5100.

- 1 Make sure that the computer and printer are connected via the network.
- 2 Make sure that the printer is ON.
- 3 Turn the computer on and start up Windows Vista.
- 4 Log on as a user with administrator rights.
- IMPORTANT

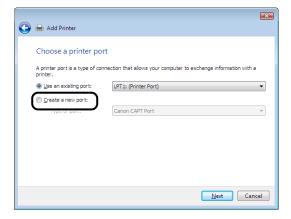
 If you are not sure about the permissions, ask your computer administrator.
- 5 Display the [Printers] folder.
 From the [Start] menu, select [Control Panel], and then click [Printer].
- 6 Click [Add a printer].



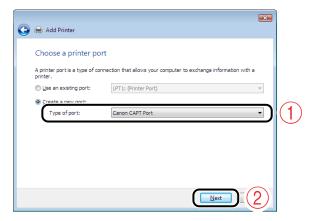
Click [Add a local printer].



Select [Create a new port].



9 Select [Canon CAPT Port] from [Type of port] ①, then click [Next] ②.



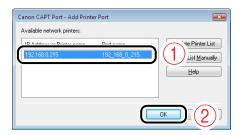
(IMPORTANT

If you want to use Standard TCP/IP Port, perform "Auto Setup (Recommended Method)" (See p. 2-3) (Use Standard TCP/IP Port created automatically.). You cannot print using Standard TCP/IP Port created here.



If [Canon CAPT Port] is not displayed, perform the procedure "Installing Canon CAPT Print Monitor" (See p. 2-33) again.

10 From [Available network printers], select the port of the IP address specified using NetSpot Device Installer, the ARP/PING command, or the Printer Status Window ①, and then click [OK] ②.



If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If the name is not displayed yet, perform the following procedure.

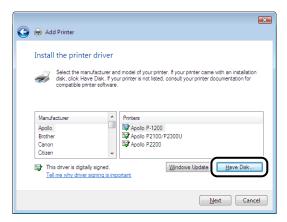
1. Click [Add to List Manually].

2. Enter the IP address or printer name (the DNS name to be registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] ①, and then click [OK] ②.



Depending on the method for setting the IP address, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

11 Click [Have Disk].



12 Insert the CD-ROM supplied with the printer into the CD-ROM drive, and then click [Browse].

If CD-ROM Setup appears, click [Exit].



13 Open the folder in the CD-ROM supplied with the printer: [English] - [Win2K_Vista].

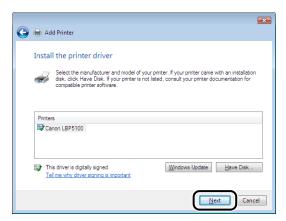
14 Select the INF file 1, then click [Open] 2.



15 Click [OK].



16 Click [Next].



17 If you want to change the printer name, enter a new name in [Printer name] ①, then click [Next] ②.



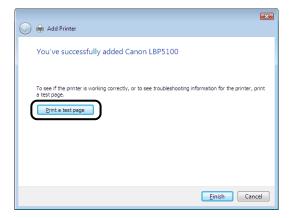
Copying files is started.



∧ NOTE

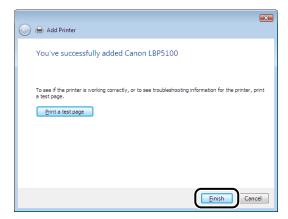
- If another printer driver has already been installed in the computer, [Set as the default printer] appears. If you want to specify the printer as the default printer, select the [Set as the default printer] check box.
- If the [User Account Control] dialog box appears, click [Continue].
- If the [Windows Security] dialog box appears, click [Install this driver software anyway].

18 If you want to print a test page, click [Print a test page].



A confirmation dialog box appears. Click [Close] to close the dialog box.

19 Click [Finish].



IMPORTANT

If you want to use the computer in which the printer driver was installed as the print server, configure Windows Firewall to unblock communication with the client computers. For details on configuring Windows Firewall to unblock communication, see "User's Guide".

The installation of the printer driver is completed.

You can take the CD-ROM out of the CD-ROM drive after the installation is completed. See "After Completing Installation" (p. 2-75) and make sure that the printer driver is installed properly.

For details on the network settings, such as the settings for DNS and WINS, see "Protocol Settings for the Printer," on p. 2-81.

For Windows XP/Server 2003



∅ NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

- Make sure that the computer and printer are connected via the network.
- Make sure that the printer is ON.
- Turn the computer on and start up Windows XP/Server 2003.

4 Log on as a user with administrator rights.

IMPORTANT

If you are not sure about the permissions, ask your computer administrator.

5 Display the [Printers and Faxes] folder.

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

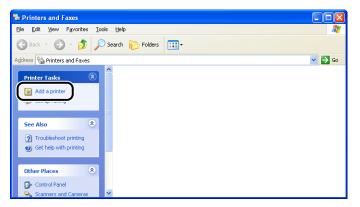
Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

6 Display [Add Printer Wizard].

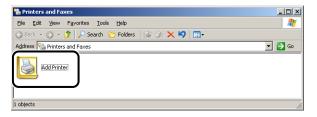
Windows XP

Click [Add a printer].



Windows Server 2003

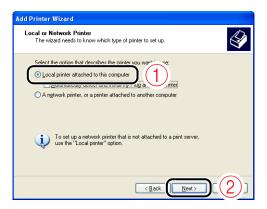
Double-click [Add Printer].



7 Click [Next].



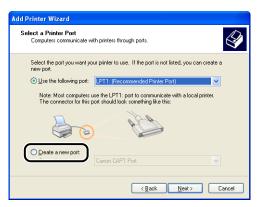
Select [Local printer attached to this computer] ①, then click [Next] ②.





Do not select the [Automatically detect and install my Plug and Play printer] check box.

9 Select [Create a new port].



10 Create a port.

Perform the following procedure.

If you are using LBP3310	Perform "If you want to specify Standard TCP/	
If you are using LBP5100 with Standard TCP/IP Port	IP Port" (See p. 2-48).	
If you are using a printer model other than the above	Perform "If you want to specify Canon CAPT Port" (See p. 2-51).	

● If you want to specify Standard TCP/IP Port

1. Select [Standard TCP/IP Port] from [Type of port] ①, then click [Next] ②.



2. Click [Next].



3. Enter the IP address or name of the printer (the DNS name to be registered on the DNS server (up to 78 characters)) in [Printer Name or IP Address] ①, and then click [Next] ②.



Depending on the method for setting the IP address of the printer, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

IMPORTANT

If the following screen appears, search for the printer following the instructions on the screen, or from [Device Type] select [Standard] \rightarrow [Canon Network Printing Device with P9100] ①, and then click [Next] ②.



4. Click [Finish].



If you are using LBP5100 with Windows XP SP2 or another operating system equipped with Windows Firewall, it is recommended that you see the procedure from Step 17 of "Auto Setup (Recommended Method)" (See p. 2-3) and specify the settings so that the port is opened through Windows Firewall.

You can print without specifying the settings, however, it may take a long time to obtain the status in the Printer Status Window.

5. Proceed to Step 11.

If you want to specify Canon CAPT Port

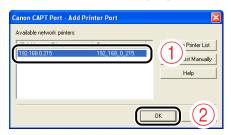
1. Select [Canon CAPT Port] from [Type of port] ①, then click [Next] ②.





If [Canon CAPT Port] is not displayed, perform the procedure "Installing Canon CAPT Print Monitor" (See p. 2-33) again.

2. From [Available network printers], select the port of the IP address specified using NetSpot Device Installer, the ARP/PING command, or the Printer Status Window ①, and then click [OK] ②.



If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If the name is not displayed yet, perform the following procedure.

- (1) Click [Add to List Manually].
- (2) Enter the IP address or printer name (the DNS name to be registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] ①, and then click [OK] ②.



Depending on the method for setting the IP address, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

3. Proceed to Step 11.

11 Click [Have Disk].



12 Insert the CD-ROM supplied with the printer into the CD-ROM drive, and then click [Browse].

If CD-ROM Setup appears, click [Exit].



13 Open the folder in which the printer driver is included.

- For a 32-bit operating system
 - Open the folders in the supplied CD-ROM: [English] [32bit] [Win2K_Vista]. (If the [32bit] folder is not found in the [English] folder, open the [English] [Win2K_Vista] folders.)
- For a 64-bit operating system
 Open the folders in the supplied CD-ROM: [English] [x64] [Driver].



If you are not sure whether you are using 32-bit Windows Vista or 64-bit Windows Vista, see "User's Guide".

14 Select the INF file 1, then click [Open] 2.



15 Click [OK].



16 Click [Next].

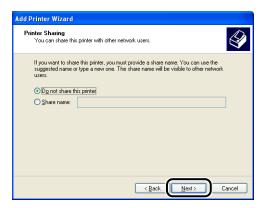


17 If you want to change the printer name, enter a new name in [Printer name] ①, then click [Next] ②.



If another printer driver has already been installed in the computer, the message <Do you want to use this printer as the default printer?> appears. Select [Yes] or [No].

18 Click [Next].

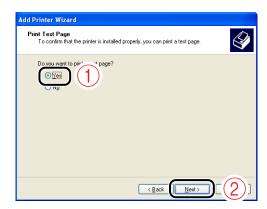


∧ NOTE

If you want to share the printer on a network, perform the following procedure.

- 1. Select [Share name], then click [Next].
- 2. The window for entering [Location] and [Comment] is displayed. Enter them as needed.
- 3. Click [Next].

19 If you want to print a test page, click [Yes] ①, then click [Next]



20 Click [Finish].



Copying files is started.

When printing a test page, a confirmation dialog box appears. Click [OK] to close the dialog box.



If you are using a computer with Windows XP SP2 or another operating system equipped with Windows Firewall as the print server, configure Windows Firewall to unblock communication with the client computers*. For details on configuring Windows Firewall to unblock communication, see "User's Guide".

* If you are using LBP3310, you do not need to perform this procedure.



If the [Hardware Installation] dialog box appears, click [Continue Anyway].

The installation of the printer driver is completed.

You can take the CD-ROM out of the CD-ROM drive after the installation is completed. See "After Completing Installation" (p. 2-75) and make sure that the printer driver is installed properly.

For details on the network settings, such as the settings for DNS and WINS, see "Protocol Settings for the Printer," on p. 2-81.

For Windows 2000



The screenshots used in this section are from LBP5100.

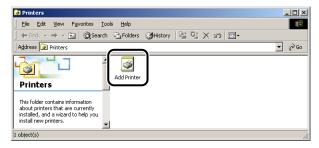
- Make sure that the computer and printer are connected via the network.
- Make sure that the printer is ON.
- 3 Turn the computer on and start up Windows 2000.
- 4 Log on as a user with administrator rights.
- IMPORTANT

If you are not sure about the permissions, ask your computer administrator.

5 Display the [Printers] folder.

From the [Start] menu, select [Settings] → [Printers].

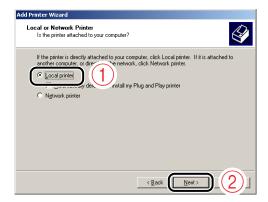
6 Double-click [Add Printer].



7 Click [Next].



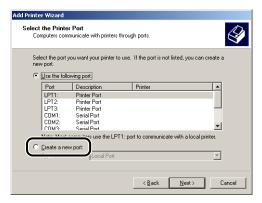
Select [Local printer] ①, then click [Next] ②.



⊘ NOTE

Do not select the [Automatically detect and install my Plug and Play printer] check box.

9 Select [Create a new port].



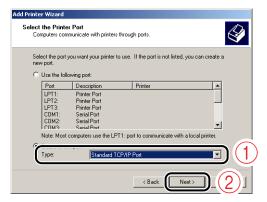
10 Create a port.

Perform the following procedure.

If you are using LBP3310	Perform "If you want to specify Standard TCP/IP Port" (See p. 2-58).
If you are using LBP5100 with Standard TCP/IP Port	
If you are using a printer model other than the above	Perform "If you want to specify Canon CAPT Port" (See p. 2-61).

● If you want to specify Standard TCP/IP Port

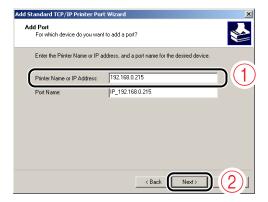
1. Select [Standard TCP/IP Port] from [Type] 1, then click [Next] 2.



2. Click [Next].



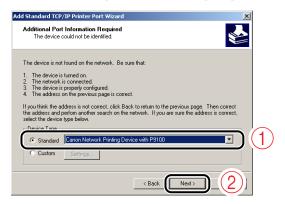
3. Enter the IP address or name of the printer (the DNS name to be registered on the DNS server (up to 78 characters)) in [Printer Name or IP Address] ①, and then click [Next] ②.



Depending on the method for setting the IP address of the printer, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

IMPORTANT

If the following screen appears, search for the printer following the instructions on the screen, or from [Device Type] select [Standard] \rightarrow [Canon Network Printing Device with P9100] ①, and then click [Next] ②.



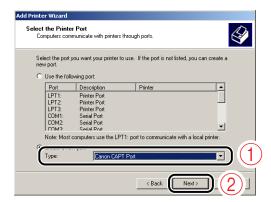
4. Click [Finish].



5. Proceed to Step 11.

If you want to specify Canon CAPT Port

1. Select [Canon CAPT Port] from [Type] ①, then click [Next] ②.





If [Canon CAPT Port] is not displayed, perform the procedure "Installing Canon CAPT Print Monitor" (See p. 2-33) again.

2. From [Available network printers], select the port of the IP address specified using NetSpot Device Installer, the ARP/PING command, or the Printer Status Window ①, and then click [OK] ②.



If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If the name is not displayed yet, perform the following procedure.

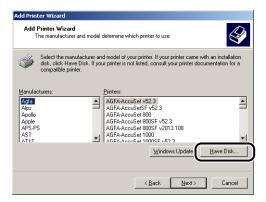
- (1) Click [Add to List Manually].
- (2) Enter the IP address or printer name (the DNS name to be registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] ①, and then click [OK] ②.



Depending on the method for setting the IP address, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

3. Proceed to Step 11.

11 Click [Have Disk].



12 Insert the CD-ROM supplied with the printer into the CD-ROM drive, and then click [Browse].

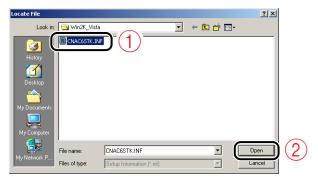
If CD-ROM Setup appears, click [Exit].



13 Open the [Win2K_Vista] folder in the supplied CD-ROM.

- If you are using LBP3310
 - The [Win2K Vista] folder is in the supplied CD-ROM: [English] [32bit] [Win2K Vista].
- If you are using LBP5100/5000/3300
 The [Win2K Vista] folder is in the [English] folder in the supplied CD-ROM.

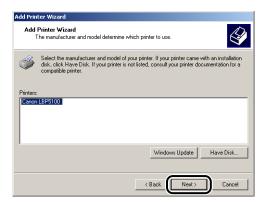
14 Select the INF file 1, then click [Open] 2.



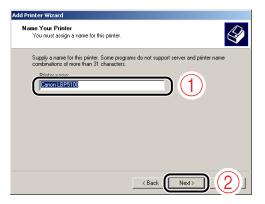
15 Click [OK].



16 Click [Next].



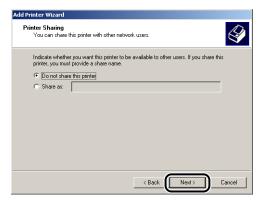
17 If you want to change the printer name, enter a new name in [Printer name] ①, then click [Next] ②.



∅ NOTE

If another printer driver has already been installed in the computer, the message <Do you want your Windows-based programs to use this printer as the default printer?> appears. Select [Yes] or [No].

18 Click [Next].

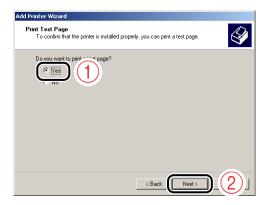


∅ NOTE

If you want to share the printer on a network, perform the following procedure.

- 1. Select [Share as], then click [Next].
- The window for entering [Location] and [Comment] is displayed. Enter them as needed.
- Click [Next].

19 If you want to print a test page, click [Yes] ①, then click [Next]



20 Click [Finish].



Copying files is started.

When printing a test page, a confirmation dialog box appears. Click [OK] to close the dialog box.



If the [Digital Signature Not Found] dialog box appears, click [Yes].

The installation of the printer driver is completed.

You can take the CD-ROM out of the CD-ROM drive after the installation is completed. See "After Completing Installation" (p. 2-75) and make sure that the printer driver is installed properly.

For details on the network settings, such as the settings for DNS and WINS, see "Protocol Settings for the Printer," on p. 2-81.

For Windows 98/Me

(IMPORTANT

If you are using LBP3310, you cannot print from Windows 98/Me (You cannot install the printer driver on Windows 98/Me.).

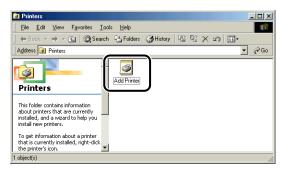


The screenshots used in this section are from Windows Me with which LBP5100 is being used.

- 1 Make sure that the computer and printer are connected via the network.
- Make sure that the printer is ON.
- **3** Display the [Printers] folder.

From the [Start] menu, select [Settings] \rightarrow [Printers].

4 Double-click [Add Printer].



The [Add Printer Wizard] dialog box can also be displayed using the following procedure.

Windows 98

Double-click [My Computer] → [Printers] → [Add Printer].

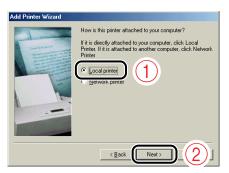
Windows Me

Double-click [My Computer] \rightarrow [Control Panel] \rightarrow [Printers] \rightarrow [Add Printer].

5 Click [Next].



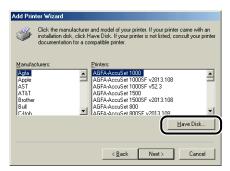
6 Select [Local printer] ①, then click [Next] ②.



∅ NOTE

This screen does not appear when the network settings have not been configured.

7 Click [Have Disk].

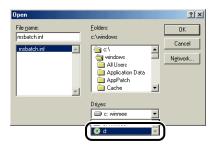


8 Insert the CD-ROM supplied with the printer into the CD-ROM drive, and then click [Browse].

If CD-ROM Setup appears, click [Exit].



9 Select the CD-ROM from [Drives].



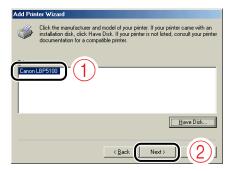
10 Select the folder: [English] - [Win98_Me] 1, then click [OK] 2.



11 Click [OK].



12 Select the name of this printer for [Printers] ①, then click [Next] ②.



13 Select [LPT1] ①, then click [Next] ②.



∅ NOTE

Do not select [Canon CAPT Port] at this point.

14 Enter a new name in [Printer name] if you want to change the printer name.





If another printer driver has already been installed in the computer, the message <Do you want your Windows-based programs to use this printer as the default printer?> appears. Select [Yes] or [No].

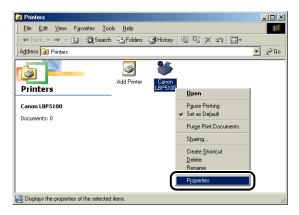
15 Click [Finish].

Copying files is started.

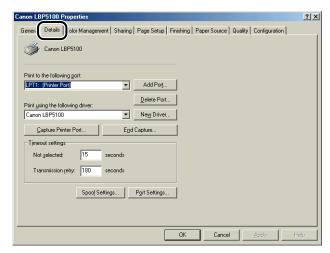
- 16 When the installation completion dialog box appears, click [OK].
- 17 Display the [Printers] folder.

From the [Start] menu, select [Settings] → [Printers].

18 Right-click the icon for your printer, then select [Properties] from the pop-up menu.

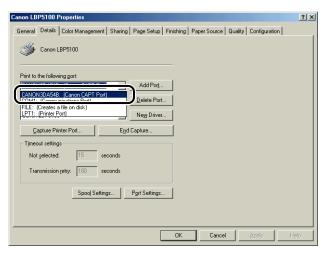


19 Display the [Details] sheet.

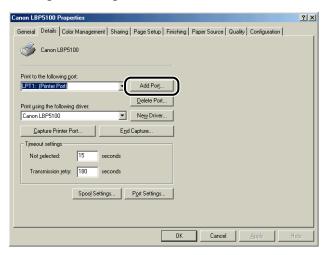


20 Select [Canon CAPT Port] from [Print to the following port], and then proceed to Step 25.

If [Canon CAPT Port] is not displayed in [Print to the following port], perform the following procedure.



21 Click [Add Port].



22 Select [Other] ①, then select [Canon CAPT Port] ②.

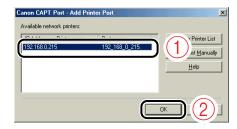


If [Canon CAPT Port] is not displayed, perform the procedure "Installing Canon CAPT Print Monitor" (See p. 2-33) again.

23 Click [OK].



24 From [Available network printers], select the port of the IP address specified using NetSpot Device Installer, the ARP/PING command, or the Printer Status Window ①, and then click [OK] ②.



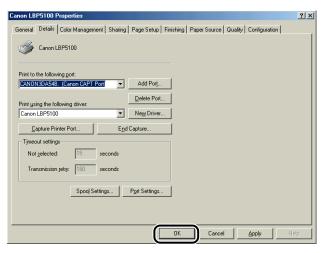
If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If the name is not displayed yet, perform the following procedure.

- 1. Click [Add to List Manually].
- 2. Enter the IP address or printer name (the DNS name to be registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] ①, and then click [OK] ②.



Depending on the method for setting the IP address, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

25 Click [OK].



The installation of the printer driver is completed.

You can take the CD-ROM out of the CD-ROM drive after the installation is completed. See "After Completing Installation" (p. 2-75) and make sure that the printer driver is installed properly.

For details on the network settings, such as the settings for DNS and WINS, see "Protocol Settings for the Printer," on p. 2-81.

After Completing Installation

When the installation of the printer driver is completed, an icon and folder for the printer will be created.

For Windows Vista



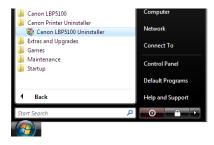
NOTE

The screenshots used in this section are from LBP5100.

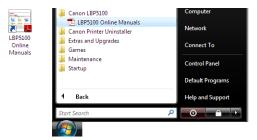
• The icon for the printer is displayed in the [Printers] folder.



• [Canon Printer Uninstaller] is added to [All Programs] under the [Start] menu.



• If the manuals are installed, [LBPxxxx Online Manuals] is created on the desktop, and [LBPxxxx Online Manuals] under [Canon LBPxxxx] is added to [All Programs] under the [Start] menu (xxxx indicates the model name).



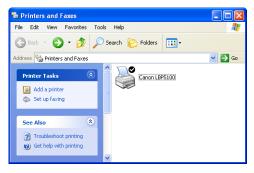
For Windows XP/Server 2003



NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

• The icon for the printer is displayed in the [Printers and Faxes] folder.



• [Canon Printer Uninstaller] is added to [All Programs] under the [Start] menu.



• If the manuals are installed, [LBPxxxx Online Manuals] is created on the desktop, and [LBPxxxx Online Manuals] under [Canon LBPxxxx] is added to [All Programs] under the [Start] menu (xxxx indicates the model name).





For Windows 98/Me/2000

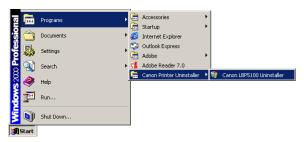


The screenshots used in this section are from Windows 2000 with which LBP5100 is being used.

• The icon for the printer is displayed in the [Printers] folder.

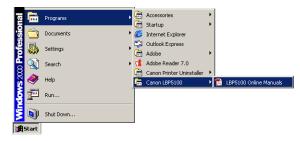


• [Canon Printer Uninstaller] is added to [Programs] under the [Start] menu.



• If the manuals are installed, [LBPxxxx Online Manuals] is created on the desktop, and [LBPxxxx Online Manuals] under [Canon LBPxxxx] is added to [Programs] under the [Start] menu (xxxx indicates the model name).





Checking the Operations with Network Status Print

After installing the printer driver, be sure to perform Network Status Print to check the operations using the following procedure. Network Status Print prints the version of the optional network board or the TCP/IP settings.



NOTE

- Network Status Print is designed to be printed on A4 size paper. Load A4 size paper.
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

2 Perform the following procedure.

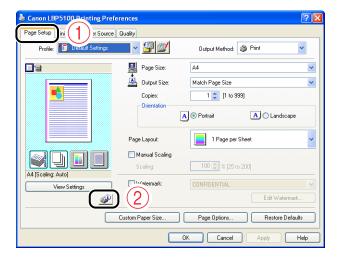
Windows 98 Windows Me

Right-click the icon for your printer, then select [Properties] from the pop-up menu.

Windows 2000 Windows XP Windows Server 2003 Windows Vista

Right-click the icon for your printer, then select [Printing Preferences] from the pop-up menu.

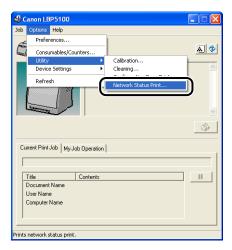
Jisplay the [Page Setup] sheet ①, then click [] (Display Printer Status Window) ②.



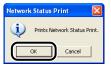
∅ NOTE

For details on the Printer Status Window, see "User's Guide".

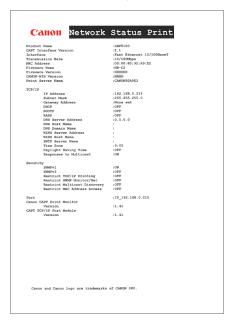
From the [Options] menu, select [Utility] → [Network Status Print].



5 Click [OK].



Network Status Print is printed.



IMPORTANT

This is a sample of Network Status Print. The contents may differ from the Network Status Print printed by your printer.



If the Network Status Print is not printed properly, see "Troubleshooting," on p. 4-1.

Protocol Settings for the Printer

After installing the printer driver, perform the protocol settings for the printer as needed. You can perform the protocol settings from the computer you are using, using any one of the following software.

- Protocol Settings Using the Remote UI (See p. 2-81)
 - Perform the protocol settings by accessing the printer from your web browser via the network.
- Protocol Settings Using NetSpot Device Installer (See p. 2-89)

Perform the basic protocol settings by starting NetSpot Device Installer from the CD-ROM supplied with the printer or the one installed. If you want to configure the settings such as the DNS server settings, use the Remote UI or FTP Client.

■ Protocol Settings Using FTP Client (See p. 2-94)

Perform the protocol settings by accessing the FTP server in the network board using Command Prompt (MS-DOS Prompt for Windows 98/Me).

Protocol Settings Using the Remote UI



NOTE

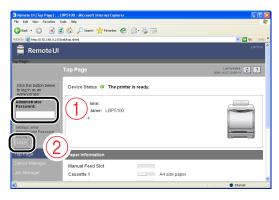
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- For details on the Remote UI, see "Remote UI Guide".
 - 1 Start the web browser.
- 2 Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/

Input Example: http://192.168.0.215/

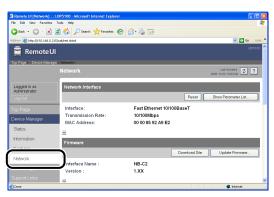
IMPORTANT

- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address.
 Example: http://my_printer.xy_dept.company.com/
- 3 Enter [Administrator Password] ①, then click [Log In] ②.

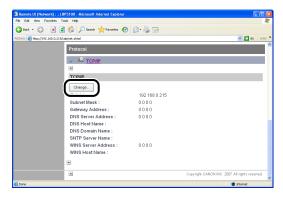


If the password is not specified, it is not required to enter any value.

4 Click [Network] from the [Device Manager] menu.

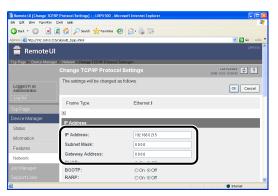


5 Click [Change] under [TCP/IP].



Specify [IP Address], [Subnet Mask], and [Gateway Address].

Enter the IP address of the printer in [IP Address]. Enter the addresses used in the TCP/IP network in [Subnet Mask] and [Gateway Address].



∅ NOTE

- Even if you are using DHCP, BOOTP, or RARP, specify [IP Address], [Subnet Mask], and [Gateway Address]. If you cannot obtain information from the servers of DHCP, BOOTP, and RARP, the values specified here are used.
- If you specify to use DHCP, BOOTP, or RARP, the values obtained from one of these are displayed after resetting the network board (If the values have been specified previously, they overwrite the obtained ones.).
- You may need to set the port anew if you changed the IP address or the method for obtaining the IP address after installing the printer driver.
 To set the port anew, see "After Changing the IP Address (Changing the Port)," on p. 5-19.

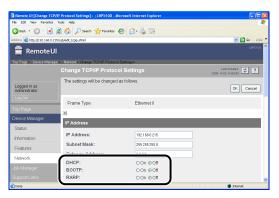
Perform the settings described in the following procedure as needed.

If you do not perform the settings, proceed to Step 12.

Select the method for setting the IP address of the printer.

As well as by assigning the IP address directly, you can set the IP address by using DHCP, BOOTP, or RARP.

Among [DHCP], [BOOTP], and [RARP], set the option that you want to use for the IP address setting to [On].



When restarting or resetting the printer, whether DHCP, BOOTP, and RARP are available is checked, and the IP address is assigned by the method that is determined to be available the soonest. If you set [DHCP], [BOOTP], or [RARP] to [Off], the corresponding protocol is not checked.

If you can use none of these, assign the IP address specified in [IP Address].

IMPORTANT

For details on the procedure for performing the port setting when setting the IP address using DHCP, BOOTP, or RARP, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

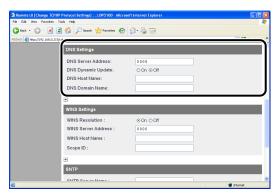
∧ NOTE

- · Because it takes one to two minutes to check whether DHCP, BOOTP, and RARP are available, it is recommended that you set the unused protocol(s) to [Off].
- To assign the IP address using DHCP, RARP, or BOOTP, the server (or daemon) for respective protocols needs to be running on the network. For example, if you want to use DHCP, you need the DHCP server (or daemon).
- If you specify the setting so that the IP address is automatically assigned to the printer by the functions of the DHCP server, the printer may not be able to print after you cycle the power of the printer. This is because a different IP address from the one that has been used is assigned.

If you want to use the functions of the DHCP server, consult your network administrator and perform either of the following settings.

- Specifying the DNS Dynamic Update function (See Step 8)
- Specifying the settings so that the same IP address is always assigned when the printer starts up (Consult your network administrator)

Specify the settings for [DNS Settings].



- 1. Enter the IP address of the DNS server in [DNS Server Address].
- 2. Specify the setting for [DNS Dynamic Update].

If you want to use the DNS Dynamic Update function, set [DNS Dynamic Update] to [On].

If you do not want to use the DNS Dynamic Update function, set the option to [Off]

- 3. Specify the host name to be added to the DNS server in [DNS Host Name].
- **4.** Enter the name of the domain to which the printer belongs in [DNS Domain Name].

Input Example: example.com

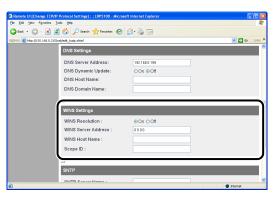
IMPORTANT

- DNS Dynamic Update is a function that adds the IP address of the device and the names specified as the host name and domain name to the DNS server automatically. This function can be used in the environment in which a Dynamic DNS server is being used.
- To use the DNS Dynamic Update function, you need to specify the IP address, host name, and domain name of the DNS server.
- For details on the procedure for performing the port setting when using the DNS server, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.



DNS is used when performing name resolution using the SNTP server name (When you specify the SNTP server name in Step 10).

Specify the settings for [WINS Settings].



• If you want to use WINS Resolution

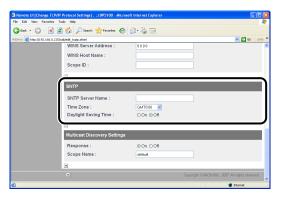
- 1. Set [WINS Resolution] to [On].
- 2. Enter the IP address of the WINS server in [WINS Server Address].
- 3. Enter the host name to be added to the WINS server in [WINS Host Name].
- **4.** In [Scope ID], enter the Scope ID of the NetBIOS name that you want to search for from the WINS server.

You can refine the search by separating the character string with periods (.).

• If you do not want to use WINS Resolution

Set [WINS Resolution] to [Off].

10 Specify the settings for [SNTP] if you want to use SNTP Client to obtain the time.



If you have specified the settings for DNS in Step 8

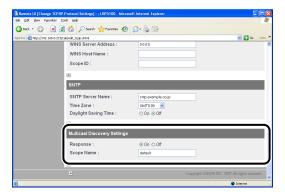
- ☐ Enter the server name of the SNTP server in [SNTP Server Name].
- ☐ Select [Time Zone].
- ☐ To set daylight saving time, set [Daylight Saving Time] to [On].

• If you have not specified the settings for DNS in Step 8

- ☐ Enter the IP address of the SNTP server in [SNTP Server Name].
- ☐ Select [Time Zone].
- ☐ To set daylight saving time, set [Daylight Saving Time] to [On].

- If you cannot use the SNTP server function, you can report the time set on the computer to the printer using the following procedure. For details on the Printer Status Window, see "User's Guide".
 - 1. Display the Printer Status Window.
- 2. From the [Options] menu, select [Preferences] or [Preferences (Administrators)].
- **3.** Select [Always] in [Monitor Printer Status], and then select the [Notify the Printer of the Time] check box.
- Time Zone: The standard time zones of the world are expressed globally in terms of the difference in hours (± up to 12 hours) from GMT* (± 0 hours). A time zone is a region throughout which this time difference is the same.
- * The time at the Greenwich Observatory in England is called GMT (Greenwich Mean Time).
- Daylight Saving Time: In some countries and regions, time is advanced throughout the summer season.

11 Specify the settings for [Multicast Discovery Settings].



Ø NOTE

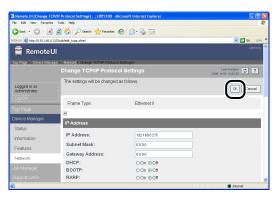
Multicast discovery is a function that searches for certain devices using the service location protocol (SLP).

By using the multicast discovery function, you can search for only the devices whose values in [Scope Name] are verified, using the service location protocol (SLP) from utility software, such as NetSpot Device Installer.

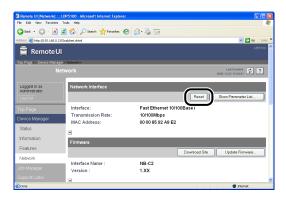
- If you want to set the printer so that it responds to searches that use the multicast discovery function
 - 1. Set [Response] to [On].
 - In [Scope Name], enter the name of the scope which is used in cases as searching for a specific device through multicast from such utility software as NetSpot Device Installer.
- If you want to set the printer so that it does not respond to searches that use the multicast discovery function

Set [Response] to [Off].

12 Click [OK].



13 When the following screen is displayed, click [Reset] to reset the network board.



After completing the reset of the network board, the settings are effective.



The settings also become effective by restarting the printer (Turn OFF the printer once, wait for 10 seconds or longer, and then turn it ON.).

The protocol settings for the printer are now completed.

Protocol Settings Using NetSpot Device Installer

NetSpot Device Installer allows you to perform the basic protocol settings. If you want to configure the settings such as the DNS server settings, use the Remote UI or FTP Client.



IMPORTANT

If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, you cannot search for the printers on a subnet that is different from the one that the computers using NetSpot Device Installer are on.

To search for a printer on a subnet that is different from the one that the computers using NetSpot Device Installer are on, you need to add "NetSpot Device Installer" to Windows Firewall in advance. Perform either of the following procedures.

- Adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
- Installing NetSpot Device Installer (You can add it to Windows Firewall during the installation.) (See p. 3-36)

To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.



NOTE

- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- The screenshots of NetSpot Device Installer used in this manual may be different from those actually you see on the screen.
- This section describes the procedure for running NetSpot Device Installer from the CD-ROM supplied with the printer. The procedure for running NetSpot Device Installer when it is installed on the computer is as follows. For details on the procedures for installing NetSpot Device Installer, see "Installing NetSpot Device Installer," on p. 3-36.
- If NetSpot Device Installer is added to the [Start] menu on the installation From the [Start] menu, select [All Programs] ([Programs] for Windows 98/Me/2000) → [NetSpot Device Installer] → [NetSpot Device Installer].
- If NetSpot Device Installer is not added to the [Start] menu on the installation Double-click [nsdi.exe] in the folder in which NetSpot Device Installer is installed.

Insert the CD-ROM supplied with the printer into the CD-ROM drive.

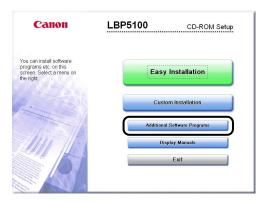
If the CD-ROM is already in the drive, eject the disk and re-insert it into the drive.



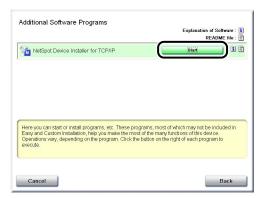
∧ NOTE

- If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Run AUTORUN.EXE].
- If CD-ROM Setup does not appear, display it using the following procedures. (The CD-ROM drive name is indicated as "D:" in this manual. The CD-ROM drive name may differ depending on the computer you are using.)
 - If you are using an operating system other than Windows Vista, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK].
 - If you are using Windows Vista, enter "D:\English\MInst.exe" in [Start Search] under the [Start] menu, and then press the [ENTER] key on your keyboard.
- If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

Click [Additional Software Programs].



Click [Start] in [NetSpot Device Installer for TCP/IP].

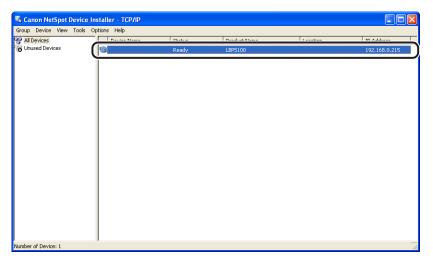


If the [License Agreement] dialog box appears, confirm the contents, and then click [Yes].



If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

Select the printer.



IMPORTANT

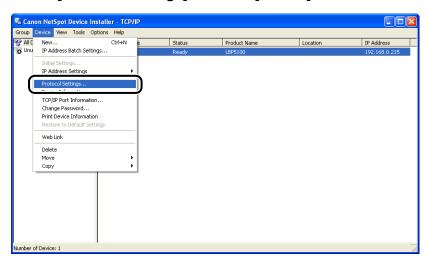
If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, you cannot search for the printers on a subnet that is different from the one that the computers using NetSpot Device Installer are on.

To search for a printer on a subnet that is different from the one that the computers using NetSpot Device Installer are on, you need to add "NetSpot Device Installer" to Windows Firewall in advance. Perform either of the following procedures.

- Adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
- Installing NetSpot Device Installer (You can add it to Windows Firewall during the installation.) (See p. 3-36)

To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.

5 Select [Protocol Settings] from the [Device] menu.



6 Perform the protocol settings.



Options to be specified

[IP Address Setting with]: Select the method for setting the IP address.

[Manual Allows you to specify the IP address directly. The Setting]: IP address entered for [IP Address] is specified for

the network board.

[Auto Detect]: Obtains an IP address using RARP, BOOTP, or

DHCP.

[RARP]: Obtains an IP address using RARP. (The RARP daemon needs to be running.)

Obtains an IP address using BOOTP. (The

BOOTP daemon needs to be running.)

[DHCP]: Obtains an IP address using DHCP. (The DHCP

server needs to be running.)

[IP Address]: Enter the IP address of the network board.

[BOOTP]:

Options to be specified as needed

[Subnet Mask]: Enter the subnet mask that is being used on the TCP/IP network.

[Gateway Address]: Enter the gateway address that is being used on the TCP/IP

network.



- If [RARP] is selected, you cannot enter any value in [IP Address].
- If [BOOTP] or [DHCP] is selected, you cannot enter any values in [IP Address], [Subnet Mask], and [Gateway Address].
- If you cannot use RARP, BOOTP, and DHCP, specify [Manual Setting].
- You may need to set the port anew if you changed the IP address or the method for obtaining the IP address after installing the printer driver.
 To set the port anew, see "After Changing the IP Address (Changing the Port)," on p. 5-19.

- 7 After completing the settings, click [OK].
- When the message <The device has been reset.> appears, click [OK].

To perform a reset operation properly, wait for approximately 20 seconds or longer as is after clicking [OK]. After completing the reset, the settings are enabled.

The protocol settings for the printer are now completed.

Protocol Settings Using FTP Client

1 Run Command Prompt or MS-DOS Prompt.

Windows 98

From the [Start] menu, select [Programs] → [MS-DOS Prompt].

Windows Me

From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

Windows 2000

From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].

2 Enter the following command, then press the [ENTER] key on your keyboard.

ftp <the IP address of the printer>
Input Example: ftp 192.168.0.215



If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.

For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.

3 Enter "root" as the user name, then press the [ENTER] key on your keyboard.



You can log in by entering a name other than "root" (or leaving the field blank). In this case, you can perform operations other than settings.

4 Enter the password, then press the [ENTER] key on your keyboard.

If the password has not been specified yet, do not enter any value, but press the [ENTER] key on your keyboard.

5 Enter the following command, then press the [ENTER] key on your keyboard.

get config <the file name>

The config file is downloaded. The characters entered for <the file name> become the name of the downloaded config file.

(IMPORTANT

For Windows 98/Me, do not enter "config" for <the file name>.



The download directory for the config file varies depending on the operating system or settings. If you cannot find the config file, browse the config file using the file browse function of the operating system.

6 Using Notepad, etc., edit the downloaded config file.

For details on descriptions of each option, see "Network Setting Items," on p. 5-2.



You may need to set the port anew if you changed the IP address or the method for obtaining the IP address after installing the printer driver.

To set the port anew, see "After Changing the IP Address (Changing the Port)," on p. 5-19.

7 Enter the following command, then press the [ENTER] key on your keyboard.

put <the file name> CONFIG



In <the file name>, enter the name of the config file that was entered when the file was downloaded.

Enter the following command, then press the [ENTER] key on your keyboard to reset the network board.

get reset

After completing the reset of the network board, the settings are effective.



∧ NOTE

The settings also become effective by restarting the printer (Turn OFF the printer once, wait for 10 seconds or longer, and then turn it ON.).

- Enter "quit", then press the [ENTER] key on your keyboard.
- 10 Enter "exit", then press the [ENTER] key on your keyboard.

Command Prompt or MS-DOS Prompt exits.

The protocol settings for the printer are now completed.

Uninstalling the CAPT Software

The process of removing software to restore the computer to the same state as before the software was installed is referred to as uninstallation. The CAPT software can be uninstalled using the following procedure.

- Uninstalling the Printer Driver (See p. 2-97)
- Uninstalling Canon CAPT Print Monitor (See p. 2-99)
- Uninstalling NetSpot Device Installer (See p. 2-102)



IMPORTANT

- A user without administrator rights cannot uninstall the printer driver. Be sure to log on as a user with administrator rights before the uninstallation.
 - If you are not sure about the permissions, ask your computer administrator.
- If the printer driver is installed, Canon CAPT Print Monitor cannot be uninstalled. Uninstall the printer driver before uninstalling Canon CAPT Print Monitor.
- If you are using a computer with Windows XP SP2 or another operating system equipped with Windows Firewall, your printer is registered in the [Exceptions] sheet in the [Windows Firewall] dialog box*. Uninstallation of the printer driver deletes the settings in the [Exceptions] sheet.
- * Excluding LBP3310

Uninstalling the Printer Driver



IMPORTANT

Uninstalling the printer driver also uninstalls the installed instruction manuals*.

- * If you are using 64-bit Windows XP/Server 2003/Vista, the manuals are not uninstalled by uninstalling the printer driver. If you want to uninstall the manuals also, delete the following files and folders. (Example of LBP3310)
 - The "Manuals" folder in "\Program Files (x86)\Canon\LBP3310"
 - [LBP3310 Online Manuals] (Shortcut for [Index.pdf]) on the desktop



NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.



Close all of the files and programs listed below.

- Help files
- Printer Status Window
- Control Panel
- Other applications

Perform the following procedure.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Programs] \rightarrow [Canon Printer Uninstaller] \rightarrow [Canon LBPxxxx Uninstaller] (xxxx indicates the model name.).

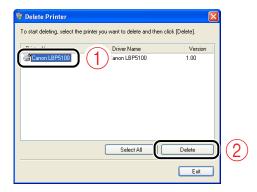
Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Canon Printer Uninstaller] → [Canon LBPxxxx Uninstaller] (xxxx indicates the model name.).

∅ NOTE

If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

3 Select the name of the printer ①, then click [Delete] ②.



⊘ NOTE

Even if the printer is not on the list in the [Delete Printer] dialog box, you can delete the file and information related to the printer by clicking [Delete].

4 Click [Yes].

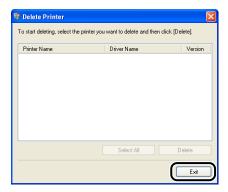


If the printer is used as a shared printer, the following screen appears. Confirm the contents of the message, and then click [Yes] if you want to uninstall the printer driver.



Uninstallation starts. Please wait a moment.

5 Click [Exit].





If you could not uninstall the printer driver, see "If Uninstallation Fails," on p. 4-5.

Uninstalling Canon CAPT Print Monitor

IMPORTANT

If the printer driver is installed, Canon CAPT Print Monitor cannot be uninstalled. Uninstall the printer driver before uninstalling Canon CAPT Print Monitor.



The screenshots used in this section are from Windows XP Professional.

- 1 Close all of the files and programs listed below.
 - Help files
 - Control Panel
 - Other applications

Perform the following procedure.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Control Panel], and then double-click [Add/ Remove Programs].

Windows XP

From the [Start] menu, select [Control Panel], click [Add or Remove Programs], and then close [Control Panel].

Windows Server 2003

From the [Start] menu, select [Control Panel] → [Add or Remove Programs].

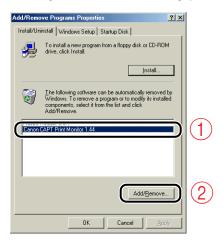
Windows Vista

From the [Start] menu, select [Control Panel], and then click [Uninstall a program].

Perform the following procedure.

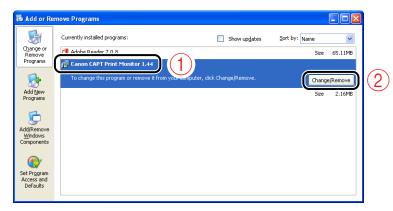
Windows 98 Windows Me

Select [Canon CAPT Print Monitor] ①, then click [Add/Remove] ②.



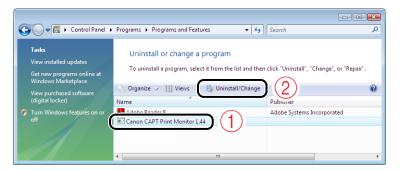
Windows 2000 Windows XP Windows Server 2003

Select [Canon CAPT Print Monitor] (1), then click [Change/Remove] (2).



Windows Vista

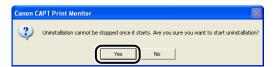
Select [Canon CAPT Print Monitor] (1), then click [Uninstall/Change] (2).



∅ NOTE

If you are using Windows Vista and the [User Account Control] dialog box appears, click [Continue].

4 Click [Yes].



Uninstallation starts. Please wait a moment.

Click [OK].



Uninstalling NetSpot Device Installer

Perform the following procedure.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Programs] → [NetSpot Device Installer] → [Uninstall NetSpot Device Installer].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [NetSpot Device Installer] → [Uninstall NetSpot Device Installer].

Command Prompt (MS-DOS Prompt for Windows 98/Me) is displayed, and the uninstallation starts.



- If you did not add NetSpot Device Installer to the [Start] menu when you installed it, double-click [rmnsdi.bat] in the folder in which NetSpot Device Installer is installed.
- If you cannot uninstall NetSpot Device Installer completely, see Readme of NetSpot Device Installer.

Managing the Printer in the Network **S Environment**

This chapter describes the procedures for managing the printer in a network environment.

Managing the Printer3-	-2
Managing the Printer Using the Remote UI3-	-3
Restricting the Users Who Can Print	-3
Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol 3-	-7
Restricting the Users Who Can Perform the Multicast Discovery	13
Restricting the Devices That Can Access with MAC Addresses	18
Obtaining/Checking the Security Access Logs	22
Initializing the Network Settings	29
Managing the Printer Using FTP Client	32
Managing the Printer Using NetSpot Device Installer	35
Configurable Devices	35
Installing NetSpot Device Installer	36
Running NetSpot Device Installer	11
How to Use NetSpot Device Installer	14

Managing the Printer

You can perform the printer management, such as checking the printer status and specifying various settings, in a network environment using the following software. The specifiable options vary depending on the software. See "Network Setting" Items" (p. 5-2) and use software appropriate to the network environment you are using or options that you want to specify.

■ Remote UI (See p. 3-3)

The Remote UI is software that allows you to manage the printer using a web browser. By accessing the printer from the web browser via a network, you can check the printer status or job logs, and configure the settings for the network and security.

■ NetSpot Device Installer (See p. 3-35)

NetSpot Device Installer is software included in the CD-ROM supplied with the printer. Without installing it, you can run NetSpot Device Installer from the CD-ROM and specify the settings for the protocols as well as device information.

■ FTP Client (See p. 3-32)

FTP Client allows you to specify the settings for various information about the device as well as configure the network and security by accessing the FTP server on the network board using Command Prompt (MS-DOS Prompt for Windows 98/Me).

Managing the Printer Using the Remote UI

This section describes the procedures for performing the following management options using the Remote UI.

- Restricting the Users Who Can Print (See p. 3-3)
- Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol (See p. 3-7)
- Restricting the Users Who Can Perform the Multicast Discovery (See p. 3-13)
- Restricting the Devices That Can Access with MAC Addresses (See p. 3-18)
- Obtaining/Checking the Security Access Logs (See p. 3-22)
- Initializing the Network Settings (See p. 3-29)

You can also perform these management options using FTP Client.

Restricting the Users Who Can Print



IMPORTANT

This function restricts print commands only, not access from the Remote UI.



NOTE

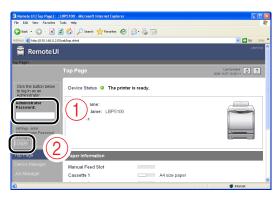
- If you try to print from a computer whose IP address is rejected to print, the message <Cannot Print> appears in the Printer Status Window.
- If you are using a computer whose IP address is rejected to print, some options cannot be executed from the [Options] menu in the Printer Status Window.
- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- 1 Start the web browser.
- Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/

Input Example: http://192.168.0.215/

IMPORTANT

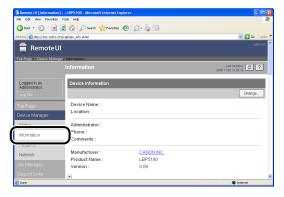
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/
- Enter [Administrator Password] ①, then click [Log In] ②.



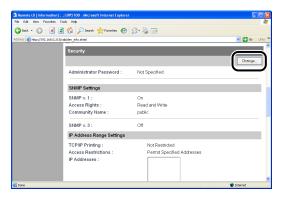


If the password is not specified, it is not required to enter any value.

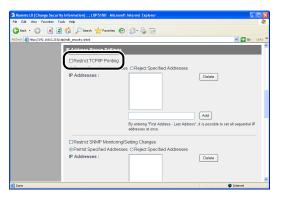
Select [Information] from the [Device Manager] menu.



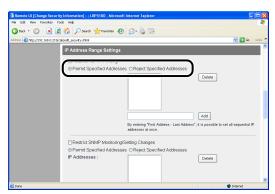
5 Click [Change] on the right of [Security].



6 Select the [Restrict TCP/IP Printing] check box.



7 Select [Permit Specified Addresses] or [Reject Specified Addresses].

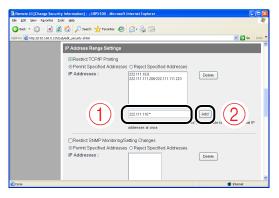




If [Permit Specified Addresses] is selected, only users specified in [IP Addresses] are permitted to print.

If [Reject Specified Addresses] is selected, only users specified in [IP Addresses] are rejected to print.

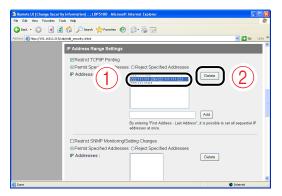
Enter the IP address of a computer of which you want to permit or reject to print ①, and then click [Add] ②.



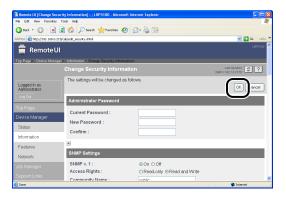
Enter the IP address by separating the numbers with a period (.), for example, AAA.BBB.C.DD. You can also enter the address as follows.

Input example of the IP addresses	Method for entering IP addresses
AAA.BBB.C.15-AAA.BBB.C.18	If you want to enter the IP addresses of consecutive numbers, place a hyphen between the address of the smallest number and that of the largest number. The example on the left is equivalent to entering addresses from AAA.BBB.C.15 to AAA.BBB.C.18.
AAA.BBB.C.*	Entering "*" is equivalent to entering the numbers from 0 to 255. The example on the left is equivalent to entering addresses from AAA.BBB.C.0 to AAA.BBB.C.255.

To delete an IP address, select the IP address ①, then click [Delete] ②.



9 Click [OK].



Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol



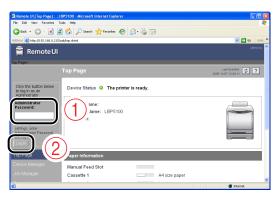
- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- 1 Start the web browser.
- 2 Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/

Input Example: http://192.168.0.215/

IMPORTANT

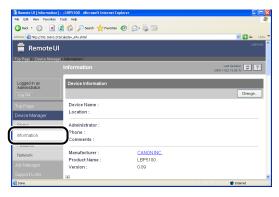
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/
- Enter [Administrator Password] ①, then click [Log In] ②.



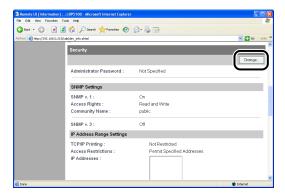


If the password is not specified, it is not required to enter any value.

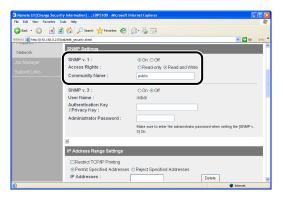
Select [Information] from the [Device Manager] menu.



5 Click [Change] on the right of [Security].



6 Specify the SNMP v. 1 protocol.



If you want to use the SNMP v. 1 protocol

- 1. Set [SNMP v. 1] to [On].
- 2. For [Access Rights], select in which mode the SNMP v. 1 agent can operate, [Read-only] or [Read and Write].
- 3. Specify the community name of SNMP in [Community Name].

(IMPORTANT

Selecting [Read-only] disables overwriting, and you may not be able to use some functions of Canon utility software or to use the software properly due to an error occurring.

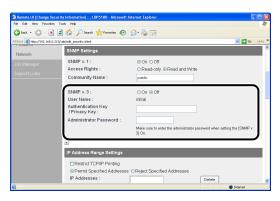
• If you do not want to use the SNMP v. 1 protocol

Set [SNMP v. 1] to [Off].

IMPORTANT

If [SNMP v. 1] is set to [Off], you may not be able to use Canon utility software. Consult your network administrator before selecting [Off].

Specify the SNMP v. 3 protocol.



If you want to use the SNMP v. 3 protocol

- 1. Set [SNMP v. 3] to [On].
- 2. Specify the authentication key or privacy key to be used in SNMP v. 3 in [Authentication Key/Privacy Key].
- 3. Enter the administrator password for the Remote UI in [Administrator Password].

IMPORTANT

If the settings for the SNMP v. 3 protocol is specified using an application other than the Remote UI, the settings are not displayed in the Remote UI. To display the settings again, reset the network settings to the default values.

For details on the procedure for resetting the network settings to the default values, see "Initializing the Network Settings," on p. 5-12.

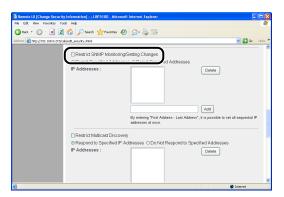


- The user name to be used for the SNMP v. 3 protocol is set to "initial".
- If the password for the Remote UI is not specified, it is not required to enter any value in [Administrator Password].

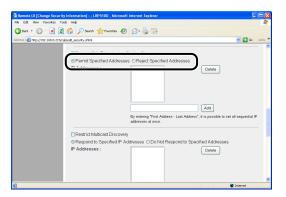
If you do not want to use the SNMP v. 3 protocol

Set [SNMP v. 3] to [Off].

Select the [Restrict SNMP Monitoring/Setting Changes] check box.



Select [Permit Specified Addresses] or [Reject Specified Addresses].

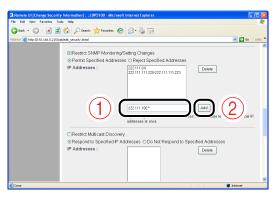




If [Permit Specified Addresses] is selected, only users specified in [IP Addresses] are permitted to monitor/change the settings.

If [Reject Specified Addresses] is selected, only users specified in [IP Addresses] are rejected to monitor/change the settings.

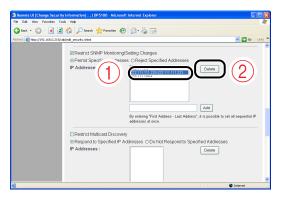
10 Enter the IP address of a computer of which you want to permit or reject to monitor/change the settings using the SNMP protocol ①, and then click [Add] ②.



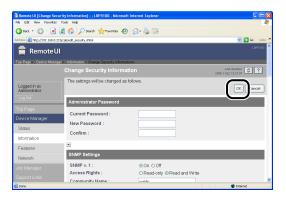
Enter the IP address by separating the numbers with a period (.), for example, AAA.BBB.C.DD. You can also enter the address as follows.

Input example of the IP addresses	Method for entering IP addresses
AAA.BBB.C.15-AAA.BBB.C.18	If you want to enter the IP addresses of consecutive numbers, place a hyphen between the address of the smallest number and that of the largest number. The example on the left is equivalent to entering addresses from AAA.BBB.C.15 to AAA.BBB.C.18.
AAA.BBB.C.*	Entering "*" is equivalent to entering the numbers from 0 to 255. The example on the left is equivalent to entering addresses from AAA.BBB.C.0 to AAA.BBB.C.255.

To delete an IP address, select the IP address ①, then click [Delete] ②.



11 Click [OK].



Restricting the Users Who Can Perform the Multicast Discovery



- Multicast discovery is a function that searches for certain devices using the service location protocol (SLP).
 - By using the multicast discovery function, you can search for only the devices whose values in [Scope Name] are verified, using the service location protocol (SLP) from utility software, such as NetSpot Device Installer.
- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

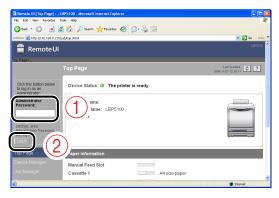
Start the web browser.

Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/ Input Example: http://192.168.0.215/

(III) IMPORTANT

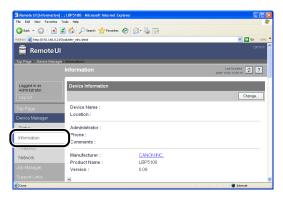
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
- For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/
- Enter [Administrator Password] ①, then click [Log In] ②.



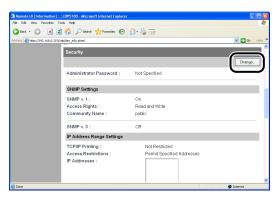


If the password is not specified, it is not required to enter any value.

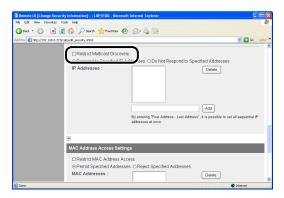
4 Select [Information] from the [Device Manager] menu.



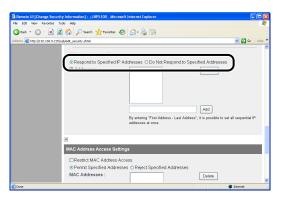
5 Click [Change] on the right of [Security].



6 Select the [Restrict Multicast Discovery] check box.



Select [Respond to Specified IP Addresses] or [Do Not Respond to Specified Addresses].

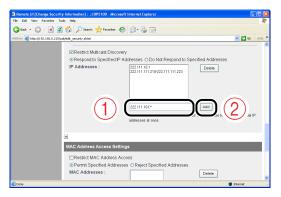


∧ NOTE

If [Respond to Specified IP Addresses] is selected, only users specified in [IP Addresses] can receive responses to searches that used the multicast discovery function.

If [Do Not Respond to Specified Addresses] is selected, only users specified in [IP Addresses] cannot receive responses to searches that used the multicast discovery function.

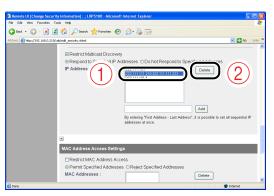
Enter an IP address that can receive or cannot receive responses to searches that used the multicast discovery ①, and then click [Add] 2.



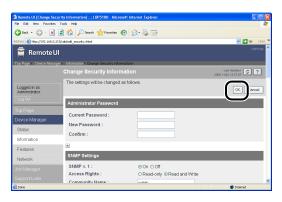
Enter the IP address by separating the numbers with a period (.), for example, AAA.BBB.C.DD. You can also enter the address as follows.

Input example of the IP addresses	Method for entering IP addresses
AAA.BBB.C.15-AAA.BBB.C.18	If you want to enter the IP addresses of consecutive numbers, place a hyphen between the address of the smallest number and that of the largest number. The example on the left is equivalent to entering addresses from AAA.BBB.C.15 to AAA.BBB.C.18.
AAA.BBB.C.*	Entering "*" is equivalent to entering the numbers from 0 to 255. The example on the left is equivalent to entering addresses from AAA.BBB.C.0 to AAA.BBB.C.255.

To delete an IP address, select the IP address ①, then click [Delete] ②.



Click [OK].



Restricting the Devices That Can Access with MAC Addresses



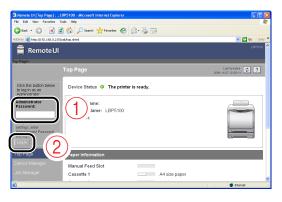
- If you try to access to print or perform some other operation from a computer whose MAC address is rejected to access the printer, the message <Network Board Error> appears in the Printer Status Window.
- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- Start the web browser.
- **2** Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/

Input Example: http://192.168.0.215/

(III) IMPORTANT

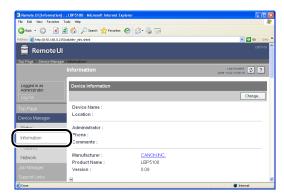
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/
- Enter [Administrator Password] ①, then click [Log In] ②.



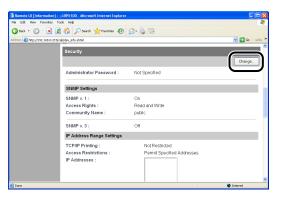


If the password is not specified, it is not required to enter any value.

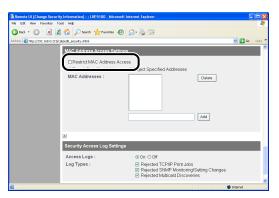
Select [Information] from the [Device Manager] menu.



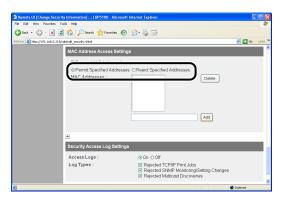
Click [Change] on the right of [Security].



Select the [Restrict MAC Address Access] check box.



Select [Permit Specified Addresses] or [Reject Specified Addresses].

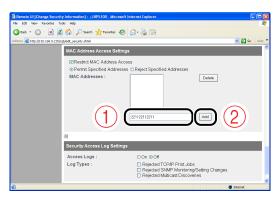


(III) IMPORTANT

If [Permit Specified Addresses] is selected, you cannot access from an unauthorized MAC address. Therefore, confirm the MAC address when entering it. If there is no corresponding MAC address, you cannot access the network. In this case, you need to initialize the network settings. (See "Initializing the Network Settings," on p. 5-12)

8 Enter the MAC address of a device of which you want to permit or reject to access ①, and then click [Add] ②.

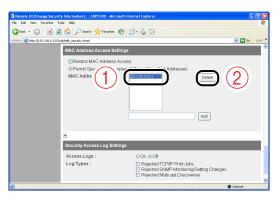
Enter twelve-digit alphanumeric characters as 0123456789ab without separating them with a hyphen (-) or colon (:).



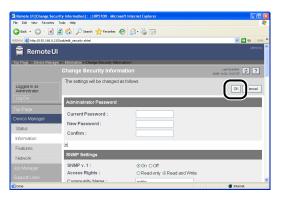


Up to 20 MAC addresses can be added.

To delete a MAC address, select the MAC address ①, then click [Delete] ②.



9 Click [OK].



Obtaining/Checking the Security Access Logs

Obtaining the Security Access Log

If you have restricted the users who can print, who can monitor/change the settings using the SNMP protocol, or who can perform the multicast discovery in [IP Address Range Settings], you can obtain a security access log (The date and time when the access was locked, IP address, port number, and restriction type) when access from a restricted user is blocked.

You can select whether to obtain a security access log by restriction type.



NOTE

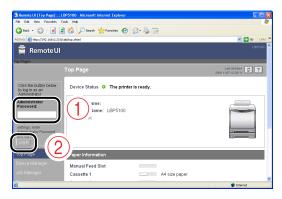
- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
 - Start the web browser.
- 2 Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/

Input Example: http://192.168.0.215/

IMPORTANT

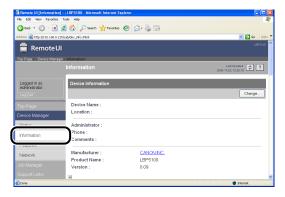
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/
- Enter [Administrator Password] ①, then click [Log In] ②.



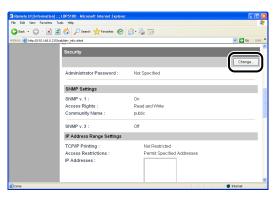
NOTE

If the password is not specified, it is not required to enter any value.

Select [Information] from the [Device Manager] menu.



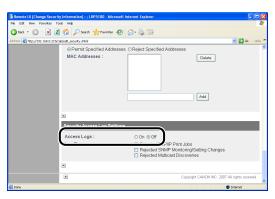
Click [Change] on the right of [Security].



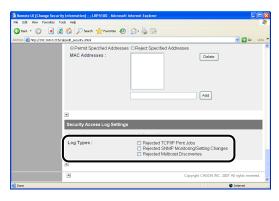
Select [On] or [Off] for [Access Logs].

If [On] is selected, the security access log is obtained when access from a user who is restricted in [IP Address Range Settings] is blocked.

If [Off] is selected, the security access log is not obtained when access from a user who is restricted in [IP Address Range Settings] is blocked.



If [Access Logs] is set to [On], select the security access log that you want to obtain from [Log Types].



Options to be specified

[Rejected TCP/IP Print Jobs]: The security access log is recorded when access from a user who is rejected to perform the TCP/IP printing is blocked.

Setting Changes]:

[Rejected SNMP Monitoring/ The security access log is recorded when access from a user who is rejected to monitor/change the SNMP setting is blocked.

[Rejected Multicast Discoveries]:

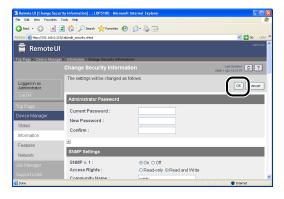
The security access log is recorded when access from a user who is rejected to perform the multicast discovery is blocked.



You can display, [Save], or [Clear] the obtained security access logs in [Security Access Logl page.

To display the [Security Access Log] page, click [Display Log] in the [Information] page in the [Device Manager] menu in the Remote UI. For more details, see "Checking the Security Access Logs," on p. 3-26.

Click [OK].



Checking the Security Access Logs

If you have restricted the users who can print, who can monitor/change the settings using the SNMP protocol, or who can perform the multicast discovery in [IP Address Range Settings], you can check the security access logs (The date and time when the access was locked. IP address, port number, and restriction type) that are obtained when access from a restricted user is blocked. It also allows you to [Save] or [Clear] the security access logs.



NOTE

- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
 - Start the web browser.
- **2** Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/ Input Example: http://192.168.0.215/

IMPORTANT

- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/

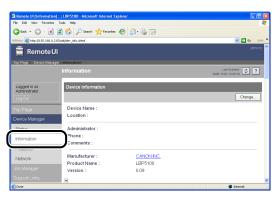
3 Enter [Administrator Password] ①, then click [Log In] ②.



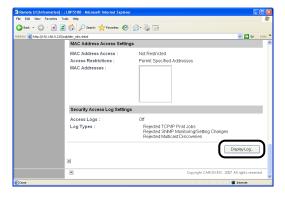
⊘ NOTE

If the password is not specified, it is not required to enter any value.

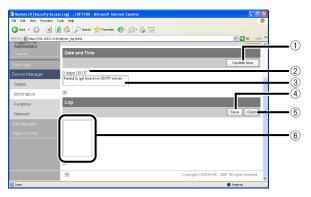
4 Select [Information] from the [Device Manager] menu.



5 Click [Display Log] under [Security].



Check the security access logs in the [Security Access Log] page.



① [Update Now]

Clicking this button obtains information about the date and time from the SNTP server. Reflects the obtained status to [Date and Time] and the SNTP server log according to success or failure of obtaining information.

(2) [Date and Time]

Displays the date and time obtained from the SNTP server. The local time of the network board is displayed when the time and date could not be obtained for some reason, such as that the SNTP server address is not specified or there is no response from the SNTP server.

③ [SNTP Server Log]

Displays the obtained status from the SNTP server.

If succeeded in obtaining the time and date from SNTP: Synchronized with the SNTP server at <The date and time when they were obtained>. Next synchronization in <The date and time when they are to be obtained next>.

While in the process of obtaining the date and time from SNTP: Getting time from SNTP Server.

When failed to obtain the time and date from SNTP: Failed to get time from SNTP Server.

(4) [Save]

Saves the obtained security access log in text format.

(5) [Clear]

Clears the obtained security access logs.

(6) [Security Access Log]

Displays the obtained security access logs. The date and time when the access was locked, IP address, port number, restriction type ("PRINT" (Rejected TCP/IP Print Jobs), "SNMP" (Rejected SNMP Monitoring/Setting Changes), or "SLP" (Rejected Multicast Discoveries)) are displayed.



Up to 100 logs can be obtained. When the number of the logs exceeds 100, the logs are deleted starting from the oldest one.

Initializing the Network Settings

If you want to reset the network board to the default values, use a method from among the Remote UI, FTP Client, and NetSpot Device Installer.

This section describes the procedure for initializing the network settings using the Remote UI. For details on initializing the network settings using FTP Client or NetSpot Device Installer, see "Initializing the Network Settings," on p. 5-12.



IMPORTANT

Make sure that the printer is not operating before initializing the network settings. If you initialize the network settings while the printer is printing or receiving data, the received data may not be printed properly, or may result in paper jams or damage to the printer.



∧ NOTE

- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.
- Start the web browser.
- 2 Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/ Input Example: http://192.168.0.215/



- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address. Example: http://my_printer.xy_dept.company.com/

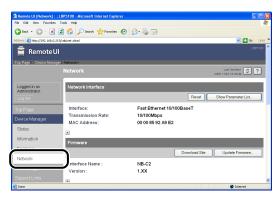
Enter [Administrator Password] ①, then click [Log In] ②.



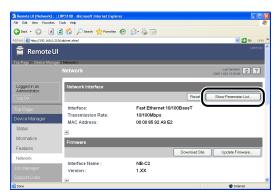
⊘ NOTE

If the password is not specified, it is not required to enter any value.

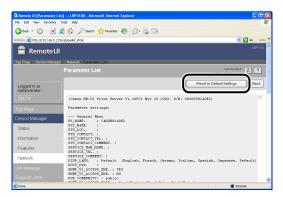
Select [Network] from the [Device Manager] menu.



Click [Show Parameter List] in [Network Interface].

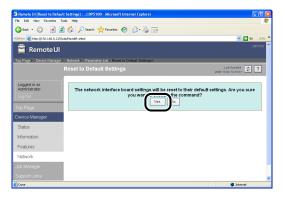


Click [Reset to Default Settings].



Clicking [Yes] initializes the network settings.

Clicking [No] does not initialize the network settings but displays the original page.



Managing the Printer Using FTP Client

You can manage the printer with FTP Client using the following procedure. Also, you can upgrade the firmware.

Run Command Prompt or MS-DOS Prompt.

Windows 98

From the [Start] menu, select [Programs] → [MS-DOS Prompt].

Windows Me

From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

Windows 2000

From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].

2 Enter the following command, then press the [ENTER] key on your keyboard.

ftp <the IP address of the printer> Input Example: ftp 192.168.0.215



If you are not sure about the IP address of this printer, refer to the Network Status Print printed in "Checking the Operations with Network Status Print" (p. 2-78) or ask your network administrator.

Enter "root" as the user name, then press the [ENTER] key on your keyboard.



You can log in by entering a name other than "root" (or leaving the field blank). In this case, you can perform operations other than settings.

4 Enter the password, then press the [ENTER] key on your keyboard.

If the password has not been specified yet, do not enter any value, but press the [ENTER] key on your keyboard.

5 Enter the following command, then press the [ENTER] key on your keyboard.

get config <the file name>

The config file is downloaded. The characters entered for <the file name> become the name of the downloaded config file.

IMPORTANT

For Windows 98/Me, do not enter "config" for <the file name>.



- When upgrading the firmware, enter "put <the update file of the firmware> FLASH", then press the [ENTER] key on your keyboard. For details on the update file of the firmware, see "Updating the Firmware," on p.
- 5-33.
- You can obtain the default values of the network settings by entering "get defaults" and pressing the [ENTER] key on your keyboard to download the list of the default values of the network settings.
- The download directory for the config file varies depending on the operating system or settings. If you cannot find the config file, browse the config file using the file browse function of the operating system.

6 Using Notepad, etc., edit the downloaded config file.

For details on descriptions of each option, see "Network Setting Items," on p. 5-2.

Enter the following command, then press the [ENTER] key on your keyboard.

put <the file name> CONFIG



In <the file name>, enter the name of the config file that was entered when the file was downloaded.

Enter the following command, then press the [ENTER] key on your keyboard to reset the network board.

get reset

After completing the reset of the network board, the settings are effective.



⊘ NOTE

The settings also become effective by restarting the printer (Turn OFF the printer once, wait for 10 seconds or longer, and then turn it ON.).

- Enter "quit", then press the [ENTER] key on your keyboard.
- 10 Enter "exit", then press the [ENTER] key on your keyboard.

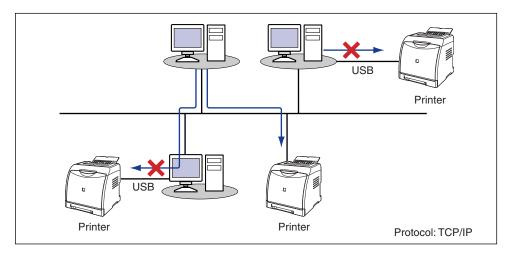
Command Prompt or MS-DOS Prompt exits.

Managing the Printer Using NetSpot Device Installer

You can perform the basic protocol settings as well as display the status of the printers on a network using NetSpot Device Installer. This section describes the procedure for running as well as installing NetSpot Device Installer. For details on the procedures for using NetSpot Device Installer, see Help of NetSpot Device Installer.

Configurable Devices

NetSpot Device Installer allows you to initialize the network protocols of the devices connected to a TCP/IP network. You cannot configure the devices connected to a network other than the TCP/IP network using NetSpot Device Installer.



Installing NetSpot Device Installer



IMPORTANT

- Close all the other applications before the installation.
- If you are using Windows 2000/XP/Server 2003/Vista, a user without administrator rights cannot install NetSpot Device Installer. Be sure to log on as a user with administrator rights before the installation.
 - If you are not sure about the permissions, ask your computer administrator.
- If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, you cannot search for the printers on a subnet that is different from the one that the computers using NetSpot Device Installer are on.

To search for a printer on a subnet that is different from the one that the computers using NetSpot Device Installer are on, add NetSpot Device Installer to Windows Firewall during the installation.



NOTE

- NetSpot Device Installer is utility software that you can use without installing it. If using NetSpot Device Installer without installing it, read "Running NetSpot Device Installer," on
- You can expand the functions of NetSpot Device Installer by adding Plug-Ins. If using the functions of Plug-Ins, install both NetSpot Device Installer and Plug-Ins on the computer. For more details on Plug-Ins, see Readme of NetSpot Device Installer. To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

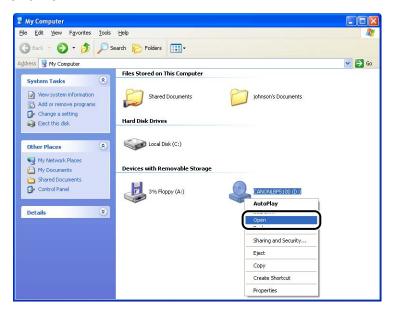


Insert the CD-ROM supplied with the printer into the CD-ROM drive.

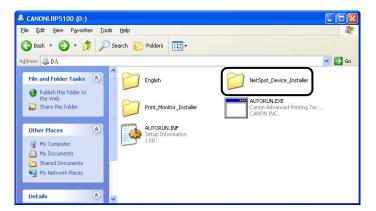
If CD-ROM Setup appears, click [Exit].

If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Open folder to view files], and then proceed to Step 4.

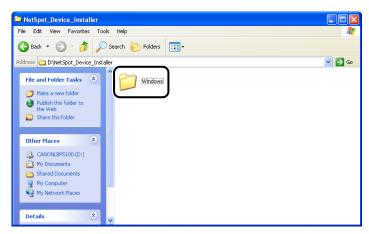
- **2** Open [My Computer] ([Computer] for Windows Vista).
- 3 Right-click the CD-ROM icon, then select [Open] from the pop-up menu.



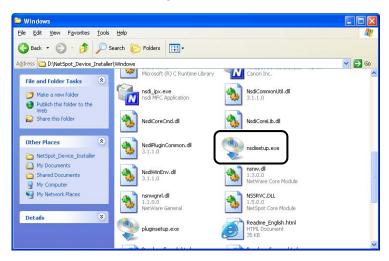
4 Double-click the [NetSpot Device Installer] folder.



Double-click the [Windows] folder.



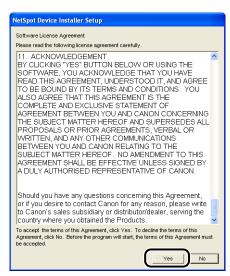
Double-click [nsdisetup.exe].



∅ NOTE

If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

7 Confirm the contents, then click [Yes].



8 Click [Browse], then select the installation directory.

If you want to add NetSpot Device Installer to the [Start] menu, select the [Add to Start Menu] check box.



Click [OK].



Installation of NetSpot Device Installer is started.

If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, the following screen is displayed.



If you want to register the application, click [Yes].

If you click [No], you cannot search for the printers in which the IP address has not been set yet or the printers on a subnet that is different from the one that the computer using NetSpot Device Installer is on.

10 Click [OK].



11 Next, select the Plug-Ins that you want to install ①, then click [Start Installation] ②.

If you do not want to install any Plug-Ins, click [Cancel] to exit. For more details on Plug-Ins, see the Readme file of NetSpot Device Installer.





You can install Plug-Ins later. For details on installing Plug-Ins later, see the Readme file.

To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.

The installation of NetSpot Device Installer is completed.

Running NetSpot Device Installer

This section describes the procedure for running NetSpot Device Installer.

If Running NetSpot Device Installer Installed on a Computer



The screenshots used in this section are from Windows XP Professional.

Perform the following procedure.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Programs] → [NetSpot Device Installer] → [NetSpot Device Installer].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [NetSpot Device Installer] → [NetSpot Device Installer].



NetSpot Device Installer runs.



∅ NOTE

- If you are using Windows Vista and the [User Account Control] dialog box appears. click [Allow].
- If you did not add NetSpot Device Installer to the [Start] menu when you installed it, double-click [nsdi.exe] in the folder in which NetSpot Device Installer is installed.

If Running NetSpot Device Installer from the CD-ROM Supplied with the Printer



NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

Insert the CD-ROM supplied with the printer into the CD-ROM drive.

If the CD-ROM is already in the drive, eject the disk and re-insert it into the drive.



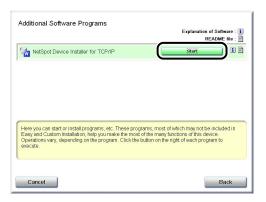
- If you are using Windows Vista and the [AutoPlay] dialog box appears, click [Run AUTORUN.EXE].
- If CD-ROM Setup does not appear, display it using the following procedures. (The CD-ROM drive name is indicated as "D:" in this manual. The CD-ROM drive name may differ depending on the computer you are using.)
- If you are using an operating system other than Windows Vista, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK].
- If you are using Windows Vista, enter "D:\English\MInst.exe" in [Start Search] under the [Start] menu, and then press the [ENTER] key on your keyboard.

• If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

2 Click [Additional Software Programs].



Click [Start] in [NetSpot Device Installer for TCP/IP].



If the [License Agreement] dialog box appears, confirm the contents, and then click [Yes].

NetSpot Device Installer runs.



If you are using Windows Vista and the [User Account Control] dialog box appears, click [Allow].

How to Use NetSpot Device Installer

For details on the procedure for setting the IP address using NetSpot Device Installer, see "IP Address Setting Using NetSpot Device Installer," on p. 2-21. For more details on other procedures for using NetSpot Device Installer, see Help.

Help is displayed by clicking [Help] in the [Help] menu.

Troubleshooting



This chapter describes the troubleshooting procedures for problems occurred in the network environment.

Installation Problems	4-2
Problems with Local Installation	.4-3
Printing a Test Page	.4-4
If Uninstallation Fails.	.4-5
When Data Is Not Sent to the Printer	4-9
Miscellaneous Problems4	-14
Checking the Network Board Functions	-17

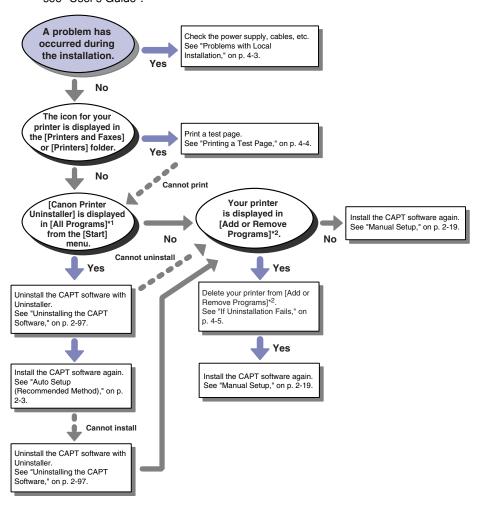
Installation Problems

If the printer driver cannot be installed properly, perform the following procedure to check problems.



NOTE

For installation problems when the printer and computer are connected by a USB cable, see "User's Guide".



^{*1 [}Programs] for Windows 98/Me/2000

^{*2 [}Add/Remove Programs Properties] for Windows 98/Me; [Add/Remove Programs] for Windows 2000; [Uninstall a program] for Windows Vista

Problems with Local Installation



For installation problems when the printer is shared on a network, see "User's Guide".

When the printer driver is installed by Auto Setup, the printer cannot be searched for.

Cause 1 The printer is not turned ON.

Remedy Turn the printer ON.

Cause 2 The printer and cable are not connected properly.

Remedy Make sure that the printer is connected to the network by an appropriate cable, and then cycle the power of the printer.

Cause 3 You are using Windows XP SP2 or another operating system equipped with Windows Firewall.

Remedy Click [Yes] in the following screen displayed during the installation to unblock Windows Firewall temporarily.



The block is enabled again after the installation is completed.

The printer to be used cannot be searched for in NetSpot Device Installer.

Cause 1 The printer is not turned ON.

Turn the printer ON. Remedy

Cause 2 The printer and cable are not connected properly.

Remedy Make sure that the printer is connected to the network by an appropriate cable, and then cycle the power of the printer.

Cause 3 You are using Windows XP SP2 or another operating system equipped with Windows Firewall.

Remedy If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, you need to add "NetSpot Device Installer" to Windows Firewall. Perform either of the following procedures.

- Adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
- Installing NetSpot Device Installer (You can add it to Windows Firewall during the installation.) (See p. 3-36)

To display Readme of NetSpot Device Installer, click [்] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.

Printing a Test Page

Print a test page using the following procedure to check the operations of the printer driver.

1 Check if any error message is displayed in the Printer Status Window.

IMPORTANT

If any error message appears, follow the directions in the message displayed in the Printer Status Window.

For details on the Printer Status Window, see "User's Guide".

2 Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

3 Perform the following procedure.

Windows 98 Windows Me

Right-click the icon for your printer, then select [Properties] from the pop-up menu.

Windows 2000 Windows XP Windows Server 2003 Windows Vista

Right-click the icon for your printer, then select [Printing Preferences] from the pop-up menu.

4 Click [Print Test Page] in the [General] sheet.

When the test page is printed

Printing can be performed from the printer driver. Check the application to make sure that all the printing preferences are specified properly.

When the test page cannot be printed

See "Installation Problems," on p. 4-2.

If Uninstallation Fails

If you cannot uninstall the printer driver using the Uninstaller that was created during the installation, use the following procedure to uninstall the printer driver.



∅ NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

Perform the following procedure.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Control Panel], and then double-click [Add/ Remove Programs].

Windows XP

From the [Start] menu, select [Control Panel], and then click [Add or Remove Programs].

Windows Server 2003

From the [Start] menu, select [Control Panel] → [Add or Remove Programs].

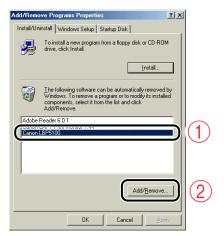
Windows Vista

From the [Start] menu, select [Control Panel], and then click [Uninstall a program].

Perform the following procedure.

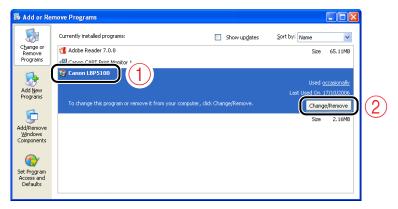
Windows 98 Windows Me

Select the printer you are using ①, then click [Add/Remove] ②.



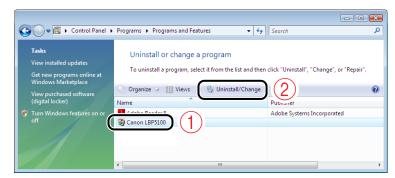
Windows 2000 Windows XP Windows Server 2003

Select the printer you are using (1), then click [Change/Remove] (2).



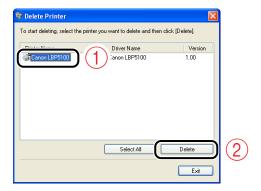
Windows Vista

Select the printer you are using (1), then click [Uninstall/Change] (2).



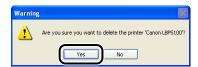
⊘ NOTE

- If the name of this printer is not displayed in the dialog box, perform "Manual Setup" (See p. 2-19) to install the CAPT software again.
- If you are using Windows Vista and the [User Account Control] dialog box appears, click [Continue].
- Select the name of the printer ①, then click [Delete] ②.



A confirmation message is displayed.

Click [Yes].

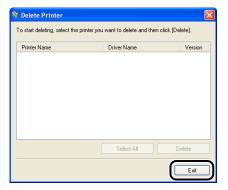


If the printer is used as a shared printer, the following screen appears. Confirm the contents of the message, and then click [Yes] if you want to uninstall the printer driver.



Uninstallation starts. Please wait a moment.

Click [Exit].



The [Delete Printer] dialog box closes.

Restart Windows.

When Data Is Not Sent to the Printer

The following are probable causes if you cannot print for some reason, or if the message <Network Board Error> is displayed in the Printer Status Window. Take the appropriate measures.



NOTE

If the printer is connected to the computer by a USB cable or is being shared on a network, see "User's Guide".

The power source of the printer has a problem.

Cause 1 The printer is not turned ON.

Remedy Turn the printer ON.

Cause 2 The power plug is unplugged from the AC power outlet.

Remedy Plug the power plug into the AC power outlet.

Cause 3 The printer is plugged to an extension cord or multiple power strip.

Remedy Plug the power plug of the printer directly into an AC power outlet on the wall.

Cause 4 The breakers have tripped.

Remedy Reset the breakers on the switch board.

Cause 5 There is a break in the power cord.

Remedy Replace the power cord with a similar type used for other devices to test the printer. If the power can be turned ON, then you can assume that there is a break in the original power cord. In this case, purchase a new power cord of the same type and replace it with the broken one.

The LAN connection has a problem.

Cause The LAN cable is not connected properly.

Remedy Make sure that the printer and computer are connected with the LAN cable properly.

A problem has occurred in the network board.

Cause 1 The network board is not connected properly.

Remedy Make sure that the network board is connected to the printer properly. (See the instruction manuals supplied with the printer)

NOTE

If the ERR indicator on the network board is on or blinking, or if all the indicators on the network board are off, see "Miscellaneous Problems" (p. 4-14) and solve the problem.

Cause 2 The network board is set to the unicast communication mode.

Remedy Specify the normal mode (the broadcast communication mode). For more details, see "Using the Unicast Communication Mode" (p. 5-30) or ask your network administrator.

The port to be used has a problem.

Cause 1 The port to be used is not specified properly.

Remedy Perform the following procedure.

1. Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

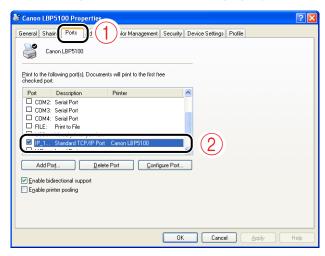
From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

2. Right-click the icon for your printer, then select [Properties] from the pop-up menu.

3. Display the [Ports] sheet ([Details] sheet for Windows 98/Me) ①, then make sure that the port to be used is selected properly ②.



- If the appropriate port is not selected Select the appropriate one, then click [OK].
- If you cannot find the port to be used
 Uninstall the printer driver and install it again.
 (See "Uninstalling the Printer Driver," on p. 2-97, "Installing the Printer Driver," on p. 2-2)

Cause 2 You changed the IP address.

Remedy If you changed the IP address, see "After Changing the IP Address (Changing the Port)" (p. 5-19) and set the port anew.

Cause 3 You are using Windows Vista and using Standard TCP/IP Port created by "Manual Setup". (LBP5100/3310)

Remedy If you are using Windows Vista, you cannot print using Standard TCP/IP Port created by "Manual Setup"*. Perform the following procedure.

For LBP3310	Perform "Auto Setup" after uninstalling the printer driver. (See p. 2-3)
For LBP5100	Perform either of the following procedures. - Perform "Auto Setup" after uninstalling the printer driver. (See p. 2-3) - Install Canon CAPT Print Monitor and use Canon CAPT Port. (See p. 2-33)

^{*} Other than the Standard TCP/IP Port created by "Auto Setup".

Cause 4 Windows Firewall is not configured to unblock communication with Canon CAPT Print Monitor. (LBP5100/5000/3300)

Remedy

If you are using Windows XP SP2 or later or Windows Server 2003 SP1 or later, and the port is set to Canon CAPT Port, make sure that Windows Firewall is configured to unblock communication with Canon CAPT Print Monitor.

Cause 5 Canon CAPT Print Monitor is not installed. (LBP5100/5000/3300)

Remedy

If you want to install the printer driver using either of the following methods and set the port to Canon CAPT Port, be sure to install Canon CAPT Print Monitor before installing the printer driver. (See "Installing Canon CAPT Print Monitor," on p. 2-33)

- Installing from the [Printers and Faxes] Folder or the [Printers] Folder
- Installing by setting the port manually, using the supplied CD-ROM (CD-ROM) Setup)

The IP address has a problem.

Cause

The IP address is not set properly.

Remedy 1 Make sure that the IP address is set properly.



NOTE

Use the following checking procedures.

1. Run Command Prompt or MS-DOS Prompt.

Windows 98

From the [Start] menu, select [Programs] → [MS-DOS Prompt].

Windows Me

From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

Windows 2000

From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].

- 2. Enter "ping <the IP address of the printer>", then press the [ENTER] key on your keyboard.
 - Input Example: ping 192.168.0.215
- 3. If the IP address is set properly, the following command (indicating that the signals are sent four times and are received four times successfully) is displayed.
 - Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

If any command like the following command is displayed, consult your network administrator.

- Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
- 4. Enter "exit", then press the [ENTER] key on your keyboard.

Before setting the IP address using DHCP, BOOTP, or RARP, make sure that Remedy 2 the protocol is running. (See "Protocol Settings for the Printer," on p. 2-81)

A problem has occurred in the computer that performs printing.

Cause 1 The printer is not specified as the default printer.

Remedy Specify the printer as the default printer.

Cause 2 The printer driver is not installed properly.

Remedy Perform the following procedure.

- Perform Network Status Print. (See "Checking the Operations with Network Status Print," on p. 2-78)
 - If printed: The printer driver is installed properly.
 - If not printed: Proceed to the following procedure.
- 2. Uninstall the printer driver. (See "Uninstalling the CAPT Software," on p. 2-97)
- 3. Install the printer driver again. (See "Auto Setup (Recommended Method)," on p. 2-3)

Cause 3 The TCP/IP protocol is not running.

Remedy Make sure that the TCP/IP protocol is running.

Cause 4 The users who can print are restricted.

Remedy Confirm the setting of [Restrict TCP/IP Printing] in [IP Address Range Settings] in the Remote UI. (See "Restricting the Users Who Can Print," on p. 3-3)

Miscellaneous Problems



For details on problems on the printer such as a paper jam and poor printing quality, see "User's Guide".

All the indicators on the network board are off.

- Cause 1 The LAN cable is not connected properly or broken.
- Remedy 1 Remove the LAN cable once, then connect it again.
- Remedy 2 Replace the LAN cable with another one, then connect it.
- Cause 2 The cable is connected to the UP-LINK (cascade) port on the hub.
- Remedy 1 Connect the LAN cable to a port with an "X" mark.
- Remedy 2 If the hub has a UP-LINK (cascade) switch, switch to "X".
- Cause 3 A cross LAN cable is being used.
- Remedy 1 Replace the cable with a straight LAN cable.
- Remedy 2 Connect the cross LAN cable to the UP-LINK (cascade) port on the hub. If the hub has a UP-LINK (cascade) switch, switch to "=".



NOTE

A cross LAN cable is a cable used to connect a printer and computer directly.

- Cause 4 Cannot communicate with the hub.
- Remedy 1 Make sure that the power of the hub is on.
- Remedy 2 Set the DIP switches on the network board according to the transmission speed of the connected hub. (See "Setting the Network Board," on p. 5-8)
- Remedy 3 Replace the hub.
- Cause 5 The network board is not installed properly.
- Remedy Remove the network board once, then install it again.
- Cause 6 The hardware of the network board is in an abnormal condition.
- Remedy Report the problems to your local authorized Canon dealer.

The ERR indicator on the network board is on.

Cause 1 The LAN cable is not connected properly or broken.

Remedy 1 Make sure the LAN cable is connected properly.

Remedy 2 Replace the LAN cable with a proper one and check if there is no disconnection or damage.

Remedy 3 If the ERR indicator still comes on even after applying the Remedy 1 and 2, contact your local authorized Canon dealer for servicing.

Cause 2 The network board is not installed properly.

Remody Remove the network board once, then install it again.

The ERR indicator on the network board blinks at an interval of four times.

Cause The DIP switch 1 on the network board is ON.

Remedy Set the DIP switch 1 to OFF. (See "Initializing the Network Settings," on p. 5-12)

The ERR indicator on the network board keeps blinking.

Cause The hardware of the network board is in an abnormal condition.

Remedy Contact your local authorized Canon dealer for servicing.

Canon CAPT Print Monitor cannot be uninstalled. (LBP5100/5000/3300)

Cause 1 The printer driver has not been uninstalled.

Remedy If the printer driver is installed, Canon CAPT Print Monitor cannot be uninstalled. Uninstall the printer driver before uninstalling Canon CAPT Print Monitor. (See "Uninstalling the Printer Driver," on p. 2-97)

Cause 2 The printer is assigned to Canon CAPT Port.

Remedy Perform the following procedure.

1. Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

- 2. Right-click the icon for your printer, then select [Properties] from the pop-up menu.
- 3. Display the [Ports] sheet ([Details] sheet for Windows 98/Me), then set the port to be used to other than Canon CAPT Port.

The printer became unable to print from the network suddenly.

Cause

The IP address of the printer was changed because you cycled the power of the printer when you were using it in the environment in which the functions of the DHCP server was used.

Remedy

Consult your network administrator and perform either of the following settings.

- Specifying the DNS Dynamic Update function (See p. 2-85)
- Specifying the settings so that the same IP address is always assigned when the printer starts up (Consult your network administrator)



Because there may be other causes of the symptom, also see the "Cause(s)" of the following problems in this section.

- "All the indicators on the network board are off."
- "The ERR indicator on the network board is on."
- "The ERR indicator on the network board blinks at an interval of four times."
- "The ERR indicator on the network board keeps blinking."

It takes a long time to obtain the status in the Printer Status Window. (LBP5100)

Cause

You are using Windows XP SP2 or later or Windows Server 2003 SP1 or later and Standard TCP/IP Port.

Remedy

See the procedure from Step 17 of "Auto Setup (Recommended Method)" (p. 2-3) and specify the settings so that the port is opened through Windows Firewall.

Checking the Network Board Functions

The printer driver is provided with a function of Network Status Print that allows you to check the version of the network board as well as the TCP/IP settings. Use these functions when required after setting the network environment, for example when you want to check the operation of the network board.



NOTE

- Network Status Print is designed to be printed on A4 size paper. Load A4 size paper.
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

Perform the following procedure.

Windows 98 Windows Me

Right-click the icon for your printer, then select [Properties] from the pop-up menu.

Windows 2000 Windows XP Windows Server 2003 Windows Vista

Right-click the icon for your printer, then select [Printing Preferences] from the pop-up menu.

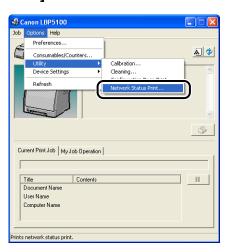
Display the [Page Setup] sheet ①, then click [] (Display Printer Status Window) 2.





For details on the Printer Status Window, see "User's Guide".

From the [Options] menu, select [Utility] → [Network Status Print].



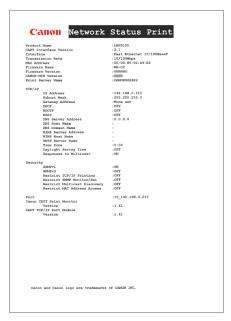
5 Click [OK].



Network Status Print is printed.

- 6 Confirm the contents of the Network Status Print.
- IMPORTANT

This is a sample of Network Status Print. The contents may differ from the Network Status Print printed by your printer.



Appendix

This chapter describes the network setting items in a list and the specifications of the network board.

Network Setting Items	5-2
Software That Can Be Used for the Network Settings	5-7
Setting the Network Board	5-8
Initializing the Network Settings	5-12
Settings for Adding a Port	5-16
Changing the IP Address	5-18
Checking the MAC Address of the Network Board	5-28
Using the Unicast Communication Mode	5-30
Updating the Firmware	5-33
Specifications Hardware Specifications Software Specifications	
Index	5-38

Network Setting Items

You can change the network settings by using the web browser (Remote UI), FTP Client, or NetSpot Device Installer.



NOTE

- In the following table, the characters shown in parentheses are exclusively for FTP Client. For example, "Device Name (SYS_NAME)" is displayed differently as follows, depending on the application.
 - For a web browser (the Remote UI) and NetSpot Device Installer: [Device Name]
 - For the config file of FTP Client: [SYS_NAME]
- The asterisk marks, " *1 " and " *2 " attached to the end of some option names, indicate the following:
 - *1 Cannot be specified using NetSpot Device Installer. Specify these options using the Remote UI or FTP Client.
 - *2 Can be specified using FTP Client only.

■ General Settings

Option	Contents	Default
[Print Server Name] (PS_NAME) *1	The name of the network board (print server) (0 to 15 characters)	CANONXXX XXX
[Device Name] (SYS_NAME)	The name of the device (0 to 32 characters)	(Blank)
[Location] (SYS_LOC)	The installation site of the device (0 to 32 characters)	(Blank)
[Administrator] (SYS_CONTACT)	The name of the administrator of the device (0 to 32 characters)	(Blank)
[Phone] (SYS_CONTACT_TEL) *1	The telephone number of the administrator of the device (0 to 32 characters)	(Blank)
[Comments] (SYS_CONTACT_COMMENT) *1	Comments by the administrator of the device (0 to 32 characters)	(Blank)
(SERVICE_MAN_NAME) *2	The name of the service person (0 to 32 characters)	(Blank)
(SERVICE_TEL) *2	The telephone number of the service person (0 to 32 characters)	(Blank)

Option	Contents	Default
(SERVICE_COMMENT) *2	Comments by the service person (0 to 32 characters)	(Blank)
[Administrator Password] (ROOT_PWD)	The password of the device (0 to 15 characters)	(Blank)
[Display Language] (DISP_LANG) *1	The languages displayed in the Remote UI (English, French, German, Italian, Spanish, Japanese, Default)	Default
[Link] (LINK_NAME1) *1 (LINK_NAME2) *1	The link displayed in the [Support Links] page in the Remote UI (0 to 32 characters)	(Blank)
[URL] (LINK_URL1) *1 (LINK_URL2) *1	The URL displayed in the [Support Links] page in the Remote UI (0 to 128 characters)	(Blank)
[Comments] (LINK_COMMENT1) *1 (LINK_COMMENT2) *1	The comments displayed in the [Support Links] page in the Remote UI (0 to 64 characters)	(Blank)
[Link] (DOWNLOAD_SITE_NAME) *1	The link displayed in the [Support Links] page in the Remote UI (0 to 32 characters)	Download Service
[URL] (DOWNLOAD_SITE_URL) *1	The URL displayed in the [Support Links] page in the Remote UI/The URL selected by clicking [Device Manager] in the Remote UI - the [Network] page - [Download Site] under [Firmware] (0 to 128 characters)	http:// www.canon. com/ download/
[Comments] (DOWNLOAD_SITE_COMMEN T) *1	The comments displayed in the [Support Links] page in the Remote UI (0 to 64 characters)	Update network firmware
[SNMP v. 1] (SNMP_V1_ACCESS_ENB) *1	Access using the SNMP v. 1 protocol	YES
[Access Rights] (SNMP_V1_ACCESS_MODE) *1	SNMP v. 1 agent's operation mode (Read-Only, Read-Write)	Read-Write
[Community Name] (PUB_COMMUNITY) *1	The community name of SNMP (0 to 32 characters)	public
[SNMP v. 3] (SNMP_V3_ACCESS_ENB) *1	Access using the SNMP v. 3 protocol	NO

Option	Contents	Default
[Restrict TCP/IP Printing] (TCP_CONT_ENB) *1	Whether to restrict the users who can print	NO
[Permit Specified Addresses]/ [Reject Specified Addresses] (TCP_CONT_MODE) *1	Accept or reject the jobs by a user whose name is entered in [IP Addresses] (TCP_CONT_LIST) (Accept, Reject)	Accept
[IP Addresses] (TCP_CONT_LIST) *1	The IP addresses rejected to perform TCP/IP printing	(Blank)
[Restrict SNMP Monitoring/ Setting Changes] (SNMP_CONT_ENB) *1	Whether to restrict users who can monitor/change the SNMP setting	NO
[Permit Specified Addresses]/ [Reject Specified Addresses] (SNMP_CONT_MODE) *1	Accept or reject monitoring/changing the settings for the device using the SNMP protocol by a user whose name is entered in [IP Addresses] (SNMP_CONT_LIST) (Accept, Reject)	Accept
[IP Addresses] (SNMP_CONT_LIST) *1	The IP addresses rejected to monitor/ change the SNMP setting	(Blank)
[Restrict Multicast Discovery] (SLP_CONT_ENB) *1	Whether to restrict the users who can perform the multicast discovery	NO
[Respond to Specified IP Addresses]/ [Do Not Respond to Specified Addresses] (SLP_CONT_MODE) *1	Accept or reject the searches that used the multicast discovery by a user whose name is entered in [IP Addresses] (SLP_CONT_LIST) (Accept, Reject)	Accept
[IP Addresses] (SLP_CONT_LIST) *1	The IP addresses rejected to perform the multicast discovery	(Blank)
[Restrict MAC Address Access] (MAC_CONT_ENB)	Whether to restrict the devices that can access	NO
[Permit Specified Addresses]/ [Reject Specified Addresses] (MAC_CONT_MODE)	Accept or reject the access by a device whose name is entered in [MAC Addresses] (MAC_CONT_LIST) (Accept, Reject)	Accept
[MAC Addresses] (MAC_CONT_LIST)	The MAC addresses permitted or rejected to access	(Blank)
[Access Logs] (SEC_LOG_ENB) *1	Whether to obtain a security access log	NO

Option	Contents	Default
[Log Types] (SEC_LOG_KIND) *1	Security access logs to obtain 0: No Access Log to Obtain 1: Rejected TCP/IP Print Jobs 2: Rejected SNMP Monitoring/Setting Changes 3: Rejected TCP/IP Print Jobs and Rejected SNMP Monitoring/Setting Changes 4: Rejected Multicast Discoveries 5: Rejected TCP/IP Print Jobs and Rejected Multicast Discoveries 6: Rejected SNMP Monitoring/Setting Changes and Rejected Multicast Discoveries 7: Access All the Logs	0

■ TCP/IP Settings

Option	Contents	Default
[Frame Type] (TCP_FRAME_TYPE)	The frame type being used by TCP/IP	Ethernet II
(G_ARP_ENB) *2	Whether to use the Gratuitous ARP function	YES
[DHCP] (DHCP_ENB)	Whether to use DHCP for the IP address setting	NO
[BOOTP] (BOOTP_ENB)	Whether to use BOOTP for the IP address setting	NO
[RARP] (RARP_ENB)	Whether to use RARP for the IP address setting	NO
[IP Address] (INT_ADDR)	The IP address of the printer	192.168.0. 215
[Subnet Mask] (NET_MASK)	Subnet Mask	0.0.0.0
[Gateway Address] (DEF_ROUT)	Gateway Address	0.0.0.0
[DNS Server Address] (DNS_ADDR) *1	The IP address of the DNS server	0.0.0.0
[DNS Dynamic Update] (DDNS_ENB) *1	Whether to register this device in DNS dynamically	NO

Option	Contents	Default
[DNS Host Name] (HOST_NAME) *1	The host name of this device (0 to 63 characters)	(Blank)
[DNS Domain Name] (DOMAIN_NAME) *1	The name of the domain to which this device belong (0 to 64 characters)	(Blank)
[WINS Resolution] (WINS_ENB) *1	Whether to use WINS Resolution	YES
[WINS Server Address] (WINS_ADDR1) *1	WINS Server Address	0.0.0.0
[WINS Host Name] (WINS_HOSTNAME) *1	Registration of the host name of WINS (0 to 15 characters)	(Blank)
[Scope ID] (NBT_SCOPE_ID) *1	The identifier to specify the communication range of the printer and computer (0 to 220 characters)	(Blank)
[SNTP Server Name] (SNTP_ADDR) *1	The IP address or name of the SNTP server (0 to 64 characters)	(Blank)
(SNTP_CHECK_ INTERVAL) *2	The time interval for updating SNTP (10min, 30min, 1hours, 3hours, 6hours, 12hours, 24hours)	1hours
[Multicast Discovery Settings] (SLP_ENB) *1	Whether to receive responses to searches that used the multicast discovery	YES
[Scope Name] (SLP_SCOPE) *1	The scope name to be used in the multicast discovery (0 to 32 characters)	default
(USE_IP_PORT_NAME) *2	Whether to use the unicast communication mode	NO
[Time Zone] (TIME_ZONE)	Time Zone	GMT + 0: 00
[Daylight Saving Time] (DAYLIGHT_SAVING)	Whether to set the daylight saving time	NO

Software That Can Be Used for the Network Settings

O: Specifiable -: Not specifiable

Setting	Web Browser (Remote UI)	FTP Client	NetSpot Device Installer	ARP/PING Command	Printer Status Window
Resetting the IP address (See p. 2-21, p. 2-28, p. 2-30)	-	-	0	0	0
Protocol settings (See p. 2-81)	0	0	O*	-	-
Restricting the users who can print (See p. 3-3, p. 3-32)	0	0	-	-	-
Restricting the users who can monitor/change the settings using the SNMP protocol (See p. 3-7, p. 3-32)	0	0	-	-	-
Restricting the users who can use the multicast discovery (See p. 3-13, p. 3-32)	0	0	-	-	-
Restricting MAC address access (See p. 3-18, p. 3-32)	0	0	-	-	-
Obtaining a security access log (See p. 3-22, p. 3-32)	0	0	-	-	-

^{*} Some settings are specifiable (See "Network Setting Items," on p. 5-2)

Setting the Network Board

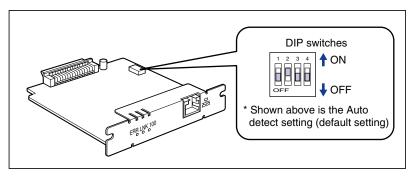
The default value of the network board is set at "Auto detect". Usually, you do not need to change the setting, since the transmission speed and transfer mode of 10BASE-T/100BASE-TX are detected automatically.

If the printer cannot communicate with other devices on the network, you can specify the transmission speed and transfer mode by setting the DIP switches using the following procedure. Set the DIP switches according to the transmission speed of the connected network as follows.



IMPORTANT

 When setting the DIP switches, be careful not to damage the main board with a small tool such as the tip of a ball-point pen. Do not use a sharp object such as a mechanical pencil.



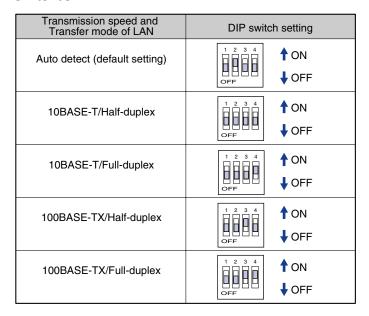
• The procedures for removing or installing the network board in this manual may be different from those for the printer you are using. For more details on the procedures for removing or installing the network board, see "User's Guide".



NOTE

A Phillips screwdriver is required for removing or installing the network board. Have a screwdriver ready in advance that matches the size of the screws.

Setting the Network Transmission Speed/Transfer Mode and the DIP Switches

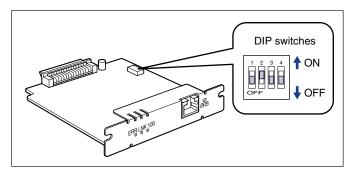


- 1 Turn the printer OFF.
- 2 If a USB cable is connected, turn the computer off, and then disconnect the USB cable from the printer.
- **3** Disconnect the power plug from the AC power outlet.
- 4 Remove the power cord from the printer.
- 5 Disconnect the LAN cable from the network board.
- 6 Remove the two screws and remove the network board.
- IMPORTANT
 - Do not touch the network board parts, printed circuits, or connectors with your hands.

• Do not drop screws, paper clips, staples, or other metal objects inside the printer. If any of these objects should drop inside the printer, do not plug the power plug into the AC power outlet and contact your local authorized Canon dealer.

7 Set the DIP switches.

Set the DIP switches with a small tool such as the tip of a ball-point pen. For details on methods for setting the DIP switches, see the table of p. 5-9.



IMPORTANT

When setting the DIP switches, be careful not to damage the main board with a small tool such as the tip of a ball-point pen. Do not use a sharp object such as a mechanical pencil.

8 Insert the network board into the expansion slot.

Hold the metal panel portions of the network board and insert the board straight while aligning it with the guide rails inside the expansion slot.

- IMPORTANT
 - Do not touch the network board parts, printed circuits, or connectors with your hands.
 - · Insert the network board securely.
- 9 Secure the top and bottom portions of the network board with the two screws supplied with the network board.
- 10 Connect the LAN cable to the network board.
- 11 Connect the power cord to the printer.

- 12 Plug the power plug into the AC power outlet.
- 13 Connect the USB cable to the printer as needed.

Initializing the Network Settings

If you want to reset the network settings to the default values, use the Remote UI, FTP Client, or NetSpot Device Installer.

- · Remote UI:
 - See "Initializing the Network Settings," on p. 3-29.
- FTP Client:
 - See "Managing the Printer Using FTP Client," on p. 3-32.
- NetSpot Device Installer:
 - 1. Select the name of the printer that you want to reset to the default values in the device list, and then select [Restore to Default Settings] from the [Device] menu.
 - 2. When the message is displayed, click [Yes].
 - 3. If the message <The device has been reset.> appears, click [OK]. To perform a reset operation properly, wait for approximately 20 seconds or longer as is after clicking [OK]. The settings are effective after resetting of the network board is completed. If the message <Turn the device off and then on again.> appears, the settings are effective after clicking [OK] and cycling the power of the printer.

Even if none of the above methods work, you can initialize the network settings by setting the DIP switches using the following procedure.



IMPORTANT

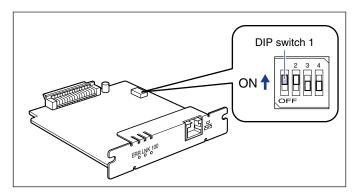
- Make sure that the printer is not operating before initializing the network settings. If you
 initialize the network settings while the printer is printing or receiving data, the received
 data may not be printed properly, or may result in paper jams or damage to the printer.
- If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, you cannot search for the printers on a subnet that is different from the one that the computers using NetSpot Device Installer are on.
 - To search for a printer on a subnet that is different from the one that the computers using NetSpot Device Installer are on and initialize the network settings, you need to perform either of the following procedures.
 - Adding "NetSpot Device Installer" to the [Exceptions] sheet in the [Windows Firewall] dialog box (See Readme of NetSpot Device Installer)
 - Installing NetSpot Device Installer (See p. 3-36)

To display Readme of NetSpot Device Installer, click [i] in [NetSpot Device Installer for TCP/IP] in the [Additional Software Programs] screen in CD-ROM Setup.

 The procedures for removing or installing the network board in this manual may be different from those for the printer you are using. For more details on the procedures for removing or installing the network board, see "User's Guide". A Phillips screwdriver is required for removing or installing the network board. Have a screwdriver ready in advance that matches the size of the screws.

- 1 Turn the printer OFF.
- 2 If a USB cable is connected, turn the computer off, and then disconnect the USB cable from the printer.
- 3 Disconnect the power plug from the AC power outlet.
- 4 Remove the power cord from the printer.
- 5 Disconnect the LAN cable from the network board.
- 6 Remove the two screws and remove the network board.
- IMPORTANT
 - Do not touch the network board parts, printed circuits, or connectors with your hands.
 - Do not drop screws, paper clips, staples, or other metal objects inside the printer. If any of these objects should drop inside the printer, do not plug the power plug into the AC power outlet and contact your local authorized Canon dealer.
- 7 Switch the DIP switch 1 to ON.

Set the DIP switches with a small tool such as the tip of a ball-point pen.



IMPORTANT

When setting the DIP switches, be careful not to damage the main board with a small tool such as the tip of a ball-point pen. Do not use a sharp object such as a mechanical pencil.

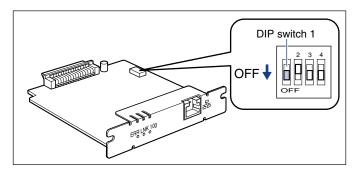
8 Insert the network board into the expansion slot.

Hold the metal panel portions of the network board and insert the board straight while aligning it with the guide rails inside the expansion slot.

- IMPORTANT
 - Do not touch the network board parts, printed circuits, or connectors with your hands.
 - · Insert the network board securely.
- **9** Secure the top and bottom portions of the network board with the two screws supplied with the network board.
- 10 Connect the power cord to the printer.
- 11 Plug the power plug into the AC power outlet.
- 12 Turn the printer ON, then wait until the Ready indicator comes on.
- 13 Turn the printer OFF.
- 14 Disconnect the power plug from the AC power outlet.
- 15 Remove the power cord from the printer.

16 Remove the network board, then reset the DIP switch 1 to

Set the DIP switches with a small tool such as the tip of a ball-point pen.



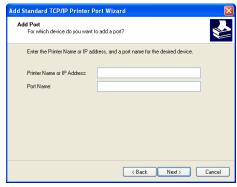
IMPORTANT

- · Do not touch the network board parts, printed circuits, or connectors with your
- Do not drop screws, paper clips, staples, or other metal objects inside the printer. If any of these objects should drop inside the printer, do not plug the power plug into the AC power outlet and contact your local authorized Canon dealer.
- When setting the DIP switches, be careful not to damage the main board with a small tool such as the tip of a ball-point pen. Do not use a sharp object such as a mechanical pencil.
- 17 Install the network board.
- 18 Connect the LAN cable to the network board.
- 19 Connect the power cord to the printer.
- **20** Plug the power plug into the AC power outlet.
- 21 Connect the USB cable to the printer as needed.

Settings for Adding a Port

Depending on the method for setting the IP address of the printer, the value to be entered in [IP Address or Printer Name]* on the following screen displayed in the process of port addition varies.





■ If you want to set the IP address to be assigned to the printer manually (If you know the IP address to use)

- Enter the IP address in [IP Address or Printer Name]*.
- If you want to set the IP address using the DNS server, specify the DNS settings for the printer. Then, enter the printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name]*.

For example, enter the printer name as "AAA.BBB.com" if you have specified the host name as "AAA" and the domain name as "BBB.com". However, enter "AAA.CCC.com" if you can obtain the domain name (CCC.com) simultaneously when you obtain the IP address from DHCP etc.

■ If you want to set the IP address to be assigned to the printer using DHCP etc.

- Specify the settings such as the DHCP settings so that the same IP address is always assigned to the printer when you start up the printer. For more details, see "If you want to set the IP address to be assigned to the printer manually" above.
- If a different IP address is assigned to the printer each time the printer starts up, specify the DNS settings for the printer first. Then, enter the printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name]*. For example, enter the printer name as "AAA.BBB.com" if you have specified the host name as "AAA" and the domain name as "BBB.com". However, enter "AAA.CCC.com" if you can obtain the domain name (CCC.com) simultaneously when you obtain the IP address from DHCP etc.
- * [Printer Name or IP Address] for Standard TCP/IP Port



 If you are using Canon CAPT Port, and if proper communication is made after you enter a value in [IP Address or Printer Name] on the following screen displayed in the process of port addition and click [OK], the [Canon CAPT Port - Add Print Port] dialog box closes.



If proper communication is not done, the message <Could not communicate with the specified printer. Do you want to continue with the entered printer name or IP address?> appears. This message will appear when the printer is in a certain status including the following statuses. If there is no problem after checking the specified settings, click [OK]. If you want to change the specified settings, click [Cancel].

- The printer is not turned ON.
- The printer is ON, but there is no response from the device for some reason.
- Usable ports vary depending on the printer model as follows.

	Standard TCP/IP Port*	Canon CAPT Port
LBP3310	0	-
LBP5100	0	0
LBP5000/3300	-	0

Can be used with Windows 2000/XP/Server 2003/Vista only (For Windows Vista, only Standard TCP/IP Port automatically created by performing "Auto Setup (Recommended Method)," on p. 2-3.)



For details on specifying the DNS settings for the printer, see "Protocol Settings Using the Remote UI," on p. 2-81.

Changing the IP Address

Changing the IP Address

There are the following four methods for changing the IP address.

	Description	See
Settings Using the Remote UI	Access the printer from your web browser and set the IP address.	p. 2-81
Settings Using NetSpot Device Installer	Set the IP address using NetSpot Device Installer in the CD-ROM supplied with the printer.	p. 2-21
Settings Using the ARP/PING Command	If you are using Windows XP SP2 or another operating system equipped with Windows Firewall, set the IP address using the ARP/PING command.	p. 2-28
Settings Using the Printer Status Window	If the printer driver is already installed and the printer and computer are connected by a USB cable, set the IP address using the Printer Status Window.	p. 2-30



Be sure to perform the following after changing the IP address:

Be sure to see "After Changing the IP Address (Changing the Port)" (p. 5-19) and change the port to be used after changing the IP address.

* You cannot print unless you change the port.

After Changing the IP Address (Changing the Port)

If you changed the IP address or name of the printer (the DNS name to be registered on the DNS server), you need to change the port to be used. The method for changing the port varies depending on the type of the port that is being used as follows.

- If you are using Standard TCP/IP Port (See p. 5-19)
- If you are using Canon CAPT Print Monitor (See p. 5-24)



IMPORTANT

Usable ports vary depending on the printer model as follows.

	Standard TCP/IP Port*	Canon CAPT Port
LBP3310	0	-
LBP5100	0	0
LBP5000/3300	-	0

Can be used with Windows 2000/XP/Server 2003/Vista only (For Windows Vista, only Standard TCP/IP Port automatically created by performing "Auto Setup (Recommended Method)," on p. 2-3.)

For Standard TCP/IP Port

If you are using Windows 2000/XP/Server 2003 and are using Standard TCP/IP Port, change the port to be used using the following procedure.



IMPORTANT

- Standard TCP/IP Port is usable only with LBP5100/3310.
- If you are using Windows Vista, you cannot use Standard TCP/IP Port to be created here. Perform the following procedure.

For LBP3310	Perform "Auto Setup" after uninstalling the printer driver. (See p. 2-3)
For LBP5100	Perform either of the following procedures. - Perform "Auto Setup" after uninstalling the printer driver. (See p. 2-3) - Install Canon CAPT Print Monitor and use Canon CAPT Port. (See p. 2-33)



NOTE

The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 2000

From the [Start] menu, select [Settings] → [Printers].

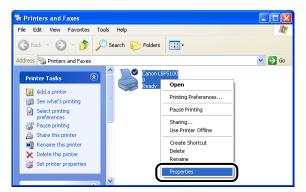
Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

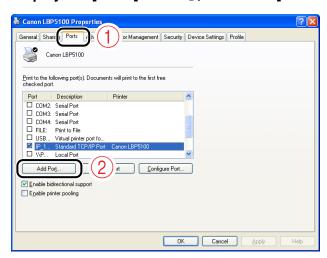
Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

2 Right-click the icon for your printer, then select [Properties] from the pop-up menu.



3 Display the [Ports] sheet ①, then click [Add Port] ②.



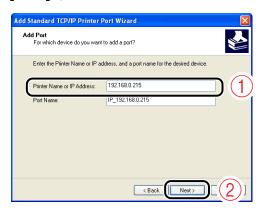
4 Select [Standard TCP/IP Port] ①, then click [New Port] ②.



5 Click [Next].



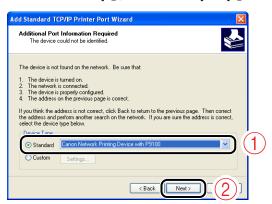
6 Enter the new IP address or name of the printer (the DNS name to be registered on the DNS server (up to 78 characters)) in [Printer Name or IP Address] ⊕, and then click [Next] ②.



Depending on the method for setting the IP address of the printer, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

(IMPORTANT

If the following screen appears, search for the printer following the instructions on the screen, or from [Device Type] select [Standard] \rightarrow [Canon Network Printing Device with P9100] ①, and then click [Next] ②.



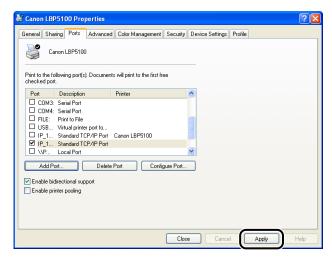
7 Click [Finish].



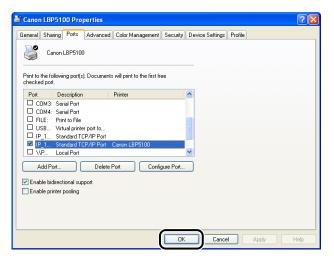
8 Click [Close].



9 Click [Apply].



10 Click [OK].



If you want to delete an old port, select the port that you want to delete, and then click [Delete Port].

For Canon CAPT Print Monitor

If you are using Canon CAPT Print Monitor, change the port to be used using the following procedure.



IMPORTANT

If you are using LBP3310, you cannot use Canon CAPT Print Monitor.



The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

Display the [Printers and Faxes] folder or the [Printers] folder.

Windows 98 Windows Me Windows 2000

From the [Start] menu, select [Settings] → [Printers].

Windows XP Professional Windows Server 2003

From the [Start] menu, select [Printers and Faxes].

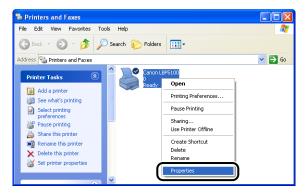
Windows XP Home Edition

From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].

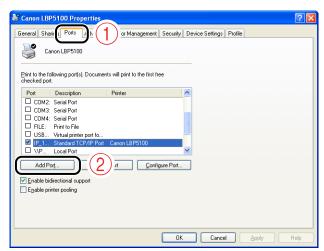
Windows Vista

From the [Start] menu, select [Control Panel], and then click [Printer].

Right-click the icon for your printer, then select [Properties] from the pop-up menu.



3 Display the [Ports] sheet ①, then click [Add Port] ②.



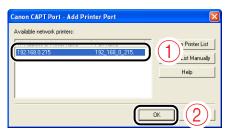
4 Select [Canon CAPT Port] ①, then click [New Port] ②.



5 Click [Update Printer List].



6 From [Available network printers], select the port of the new IP address of the printer ①, and then click [OK] ②.



If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If the name is not displayed yet, perform the following procedure.

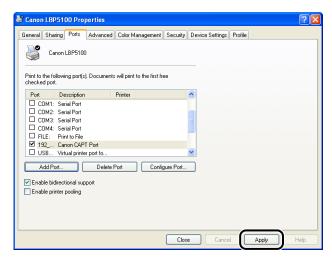
- 1. Click [Add to List Manually].
- 2. Enter the IP address or printer name (the DNS name to be registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name], and then click [OK].

Depending on the method for setting the IP address, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

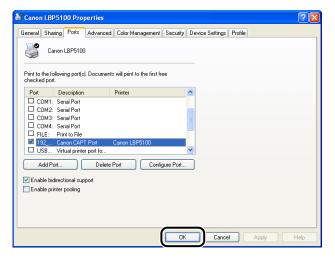
7 Click [Close].



8 Click [Apply].



9 Click [OK].



If you want to delete an old port, select the port that you want to delete, and then click [Delete Port].

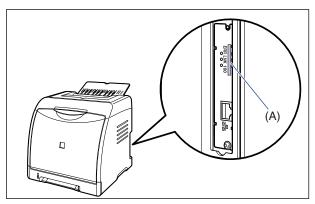
Checking the MAC Address of the Network Board

You can check the MAC address of the network board using the following methods.

■ Checking by the network board

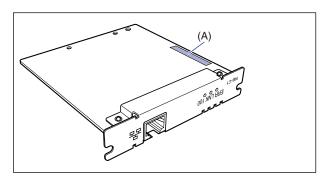
The MAC address is indicated at (A) on the network board as shown in the following figure.

• For NB-C2



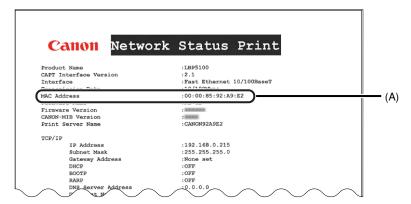
* LBP5100 is taken as the example.

• For NB-C1



■ Checking by Network Status Print

The MAC address is indicated at (A) on Network Status Print as shown in the following figure.

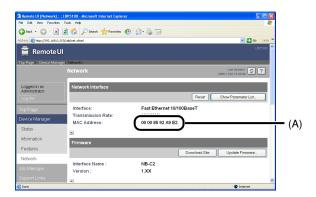




For details on the procedure for printing Network Status Print, see "Checking the Network Board Functions," on p. 4-17.

■ Checking by the Remote UI

The MAC address is indicated at (A) in the [Network] page in [Device Manager] as shown in the following figure.





For details on the Remote UI, see "Remote UI Guide".

Using the Unicast Communication Mode

Unicast Communication Mode

The unicast communication mode makes communication by using the unicast method in sending status from the printer, which is not normally performed by the broadcast communication mode.

If you want to use the unicast communication mode, set the network board settings to enter into the unicast communication mode using FTP Client.



IMPORTANT

If you want to use the printer in a network environment in which the broadcast communication mode is not used, you need to switch the mode to the unicast communication mode. However, because this affects the administration of your network environment, be sure to consult your network administrator if you want to use the unicast communication mode.



NOTE

If the message <Network Board Error> is displayed in the Printer Status Window after setting the unicast communication mode, refresh the display of the Printer Status Window.

Setting the Network Board to Enter into the Unicast Communication Mode

Run Command Prompt or MS-DOS Prompt.

Windows 98

From the [Start] menu, select [Programs] → [MS-DOS Prompt].

Windows Me

From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

Windows 2000

From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].

Windows XP Windows Server 2003 Windows Vista

From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].

2 Enter the following command, then press the [ENTER] key on your keyboard.

ftp <the IP address of the printer> Input Example: ftp 192.168.0.215

- 3 Enter "root" as the user name, then press the [ENTER] key on your keyboard.
- 4 Enter the password, then press the [ENTER] key on your keyboard.

If the password has not been specified yet, do not enter any value, but press the [ENTER] key on your keyboard.

5 Enter the following command, then press the [ENTER] key on your keyboard.

get config <the file name>

The config file is downloaded. The characters entered for <the file name> become the name of the downloaded config file.

IMPORTANT

For Windows 98/Me, do not enter "config" for <the file name>.



The download directory for the config file varies depending on the operating system or settings. If you cannot find the config file, browse the config file using the file browse function of the operating system.

- Using Notepad, etc., open the downloaded config file.
- 7 Edit "YES" to "USE IP PORT NAME".

Input Example: USE_IP_PORT_NAME.:YES

- 8 Save the config file.
- **9** Enter the following command, then press the [ENTER] key on your keyboard.

put <the file name> CONFIG



In <the file name>, enter the name of the config file that was entered when the file was downloaded.

10 Enter the following command, then press the [ENTER] key on your keyboard to reset the network board.

get reset

After completing the reset of the network board, the settings are effective.



The settings also become effective by restarting the printer (Turn OFF the printer once, wait for 10 seconds or longer, and then turn it ON.).

- 11 Enter "quit", then press the [ENTER] key on your keyboard.
- 12 Enter "exit", then press the [ENTER] key on your keyboard.

Command Prompt or MS-DOS Prompt exits.

(IMPORTANT

If you want to reset to the normal mode (the broadcast communication mode), edit "USE IP PORT NAME" to "NO".

Input Example: USE IP PORT NAME. :NO



If the message <Network Board Error> is displayed in the Printer Status Window after setting the unicast communication mode, click the [Refresh] button in the Printer Status Window.

Updating the Firmware

To update the firmware, specify the update file, then update the firmware of the network board.



IMPORTANT

- Depending on the printer you are using, the supported firmware version of the network board varies as follows.
 - For NB-C2

Printer	Firmware Version of the Network Board
LBP3310	Ver. 1.30 or later
LBP5100/5000/3300	Ver. 1.10 or later

- For NB-C1

Printer	Firmware Version of the Network Board
LBP5000/3300	Ver. 1.20 or later

If the firmware version is old, the printer may not operate properly. Make sure that the printer you are using supports the version.

If the version is not supported by the printer you are using, download the latest update file from the Canon website to update the firmware.

You can also update the firmware using the update file in the "NB-XX_Firmware"* folder in the CD-ROM supplied with the printer (If the update file is not in the CD-ROM, download it from the Canon website.).

For details on the update file, see the README file in the "NB-XX Firmware"* folder.

- * XX indicates "C1" or "C2".
- If you cannot update the firmware properly or want to know details on the procedure for updating the firmware, see the README file supplied with the firmware.
- Make sure that the printer is not operating before updating the firmware. Do not print during the firmware update. Otherwise, the firmware cannot be updated properly.



NOTE

- For details on the Remote UI, see "Remote UI Guide".
- The screenshots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Start the web browser.

2 Enter the following URL in the address entry field, and then press the [ENTER] key on your keyboard.

http://<the IP address or name of the printer>/
Input Example: http://192.168.0.215/

(IMPORTANT

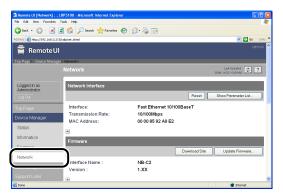
- If you are not sure about the IP address of the printer, refer to the Network Status Print or ask your network administrator.
 - For details on Network Status Print, see "Checking the Operations with Network Status Print," on p. 2-78.
- If the host name of the printer is registered in the DNS server, you can enter ["hostname"."domain name"] instead of the IP address.
 Example: http://my_printer.xy_dept.company.com/
- **3** Enter [Administrator Password] ①, then click [Log In] ②.



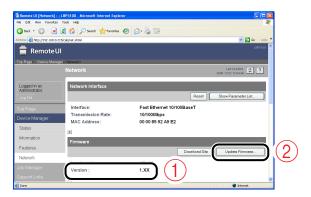
∅ NOTE

If the password is not specified, it is not required to enter any value.

4 Select [Network] from the [Device Manager] menu.

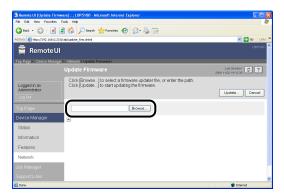


5 Confirm the current version of the firmware in [Version] ①, then click [Update Firmware] ②.

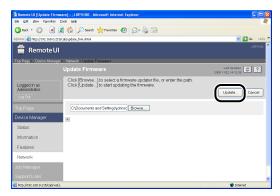


If the firmware version displayed in [Version] is the same as or later than that of the firmware to be updated, you do not need to update the firmware.

6 Click [Browse], then select the update file for the firmware or enter the path.



7 Click [Update] to update the firmware.



(IMPORTANT

If you cannot update the firmware properly, see the README file supplied with the firmware.

Specifications

Hardware Specifications

CPU	- NB-C1 RISC 100 MHz - NB-C2 RISC 200 MHz
ROM	2 MB (flash ROM)
RAM	8 MB
Network Interface	10BASE-T/100BASE-TX (RJ-45) Full duplex; Half duplex
Indicators	3 pieces (ERR, LNK, 100)

Software Specifications

Compatible Protocols	TCP/IP
TCP/IP	Frame Type: Ethernet II
Printing Software	- CAPT (Canon Advanced Printing Technology) - Windows Standard TCP/IP Port (Port9100)* * Supported only by LBP5100/3310. Also, supports only Raw, but not LPR.

A

Auto Setup (Recommended Method), 2-3

C

Checking the Network Board Functions, 4-17 Checking the Network Environment, 1-2

D

DNS Settings, 2-85

F

FTP Client Printer Management, 3-32 Protocol Settings, 2-94

I

Installation
Auto Setup, 2-3
Manual Setup, 2-19
Problems, 4-2
Installing Canon CAPT Print Monitor, 2-33
IP Address Setting
ARP/PING Command, 2-28
NetSpot Device Installer, 2-21

M

Management, 3-2 FTP Client, 3-32 NetSpot Device Installer, 3-35 Remote UI, 3-3 Manual Setup, 2-19

Ν

NetSpot Device Installer Configurable Devices, 3-35 How to Use, 3-44 Installation, 3-36 IP Address Setting, 2-21 Printer Management, 3-35 Protocol Settings, 2-89 Running, 3-41 **Network Board** Setting the DIP Switches, 5-8 Update Firmware, 1-3, 5-33 **Network Settings** Initialization, 5-12 Setting Items, 5-2 Usable Software, 5-7 Network Status Print, 4-17

O

Obtaining the Security Access Log, 3-22

P

Problems
Installation, 4-2
Others, 4-14
Protocol Settings, 2-81
FTP Client, 2-94
NetSpot Device Installer, 2-89
Remote UI, 2-81

U

Unicast Communication Mode, 5-30 Uninstallation Canon CAPT Print Monitor, 2-99 NetSpot Device Installer, 2-102 Printer Driver, 2-97

R

Remote UI
Printer Management, 3-3
Protocol Settings, 2-81
Restricting Access with MAC Addresses, 3-18
Restricting SNMP Monitoring/Setting Changes, 3-7
Restricting the Users Who Can Perform the Multicast Discovery, 3-13
Restricting the Users Who Can Print, 3-3

S

Setting the DIP Switches, 5-9
Specifications
Hardware, 5-37
Software, 5-37
System Requirements
NetSpot Device Installer, 1-7
Print Monitor Installer (Canon CAPT Print Monitor), 1-5
Printer Driver, 1-4
Remote UI, 1-6

T

Transfer Mode, 5-9 Transmission Speed, 5-9

Canon