Canon

Network Guide



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
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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.
NOTE	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 button names are a few examples of how buttons to be pressed are expressed in this manual:

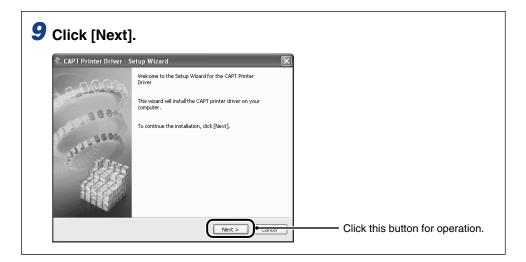
 Buttons on Computer Operation Screen: [Button Name] Example: [OK] [Details]

Displays Used in This Manual

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

The buttons which you should press are marked with a constant as shown below.

When multiple buttons can be pressed on the screen shot of computer operation screen, all buttons are marked. Select the button which suits your needs.



Abbreviations Used in This Manual

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

Microsoft [®] Windows [®] 98 operating system:	Windows 98
${\sf Microsoft}^{ extsf{B}}{\sf Windows}^{ extsf{B}}{\sf Millennium Edition operating system:}$	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 [®] operating system:	Windows

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Before You Start

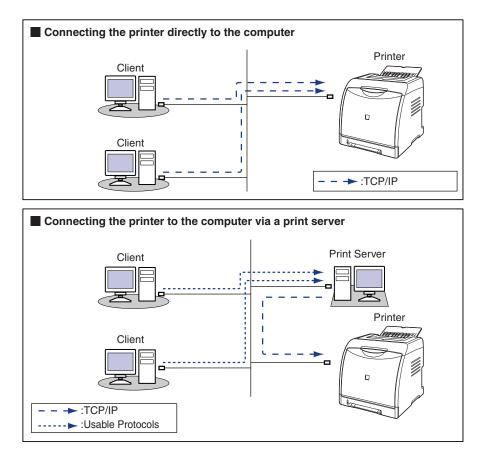


This chapter describes a brief overview of the requisite tasks to perform and the system environment of the software for printing or managing the printing operation in a network environment.

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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 connect the printer via a print server, you can use it as a network printer, which enables printing from other computers that are not directly connected to the printer. If you connect the printer via a print server, you need to perform the following settings:
- 1. Installing the printer driver on the print server (See p. 2-2)
- 2. Print Server Settings (See User's Guide)
- 3. Installation on Clients (See User's Guide)

Requisite Tasks Before Printing or Managing the Printing Operation

Configuring the Printer to Print in a Network Environment

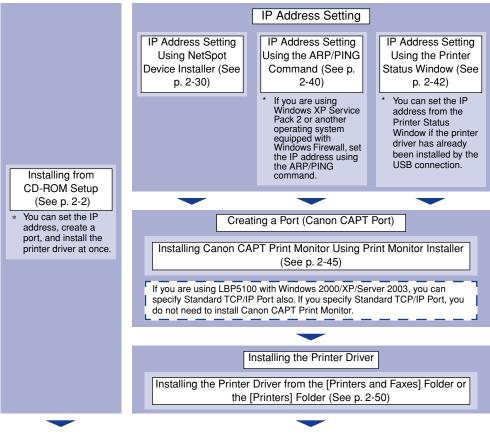
The following shows the tasks that should be performed after installing the printer and optional network board.

Installing the Printer Driver

* There are two ways to install the printer driver: "Auto Setup" and "Manual Setup". "Auto Setup" allows you to easily configure the printer to print in a network environment by setting the IP address, creating a port, and installing the printer driver at once.

<Auto Setup>

<Manual Setup>



Performing the Protocol Settings for the Printer

Specify the protocol settings as needed.

There are three kinds of methods to perform the protocol settings, and the specifiable options vary depending on the application.

Protocol Settings			
Protocol Settings Using the Remote UI (See p. 2-84)	Protocol Settings Using NetSpot Device Installer (See p. 2-92)	Protocol Settings Using FTP Client (See p. 2-98)	

Installing the Printer Driver

The printer driver is software required for printing from an application you use. There are the following two ways to install the printer driver. The procedures for setting the IP address or creating a port required to print in a network environment vary depending on the installation method.

■ Installing the CAPT Software from CD-ROM Setup (See p. 2-2)

If you install the printer driver from the CD-ROM (CD-ROM Setup) supplied with the printer, you can easily configure the printer to print in a network environment by setting the IP address and creating a port at once.

■ Installing the Printer Driver Manually Using Various Utility Software (See p. 2-29)

Specify the IP address or create a port (Canon CAPT Port) using the software in the CD-ROM ("NetSpot Device Installer" or "Print Monitor Installer") supplied with the network board, the ARP/PING command or others, and then install the printer driver from the [Printers and Faxes] folder or the [Printers] folder.

Performing the 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. 2-84)

Perform the protocol settings by accessing the printer from your web browser via the network.

■ Protocol Settings Using NetSpot Device Installer (See p. 2-92)

Perform the basic protocol settings by starting NetSpot Device Installer from the CD-ROM supplied with the network board or the one installed. When configuring the DNS server etc., use the Remote UI or FTP Client.

■ Protocol Settings Using FTP Client (See p. 2-98)

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

Managing the Printer in the Network Environment

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 history, and configure the network or security settings.

NetSpot Device Installer (See p. 3-34)

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

■ FTP Client (See p. 3-31)

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

System Requirements

Printer Driver

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

Operating system software

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

🕛 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

Ø NOTE

- When using Sound, a PC synthesizer (and the driver for 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 and specify Standard TCP/IP Port, Raw is specified as the print application to be used. The printer does not support LPR.

Canon CAPT Print Monitor

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

Operating system software

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

1

- System Requirements (minimum required)

	Windows 98/Me	Windows 2000/XP/Server 2003
CPU	Pentium II 300 MHz or more	Pentium II 300 MHz or more
Memory (RAM)*	64 MB or more	128 MB or more
Hard Disk	20 MB or more	20 MB or more

(PC/AT Compatibles)

- As the amount of available memory varies depending on the system configuration of the computer or application you are using, the above environment does not guarantee printing in all cases.
- System Requirements (recommended)

	Windows 98/Me	Windows 2000/XP/Server 2003
CPU		Pentium III 600 MHz or more
Memory (RAM)	128 MB or more	256 MB or more

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

NOTE

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

- Microsoft Windows 98 + Service Pack 1 or later
- Microsoft Windows 98 Second Edition
- Microsoft Windows Me
- Microsoft Windows 2000 Server/Professional
- Microsoft Windows XP Professional/Home Edition
- Windows Server 2003

Computer

• A computer in which the above operating system can run

Hard Disk

• Free disk space of 15 MB or more (When the 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 CAPT Software Installing the CAPT Software from CD-ROM Setup Installing the Printer Driver Manually Using Various Utility Software	
After Completing Installation.	
Checking the Operations with Network Status Print	
Protocol Settings for the Printer Protocol Settings Using the Remote UI Protocol Settings Using NetSpot Device Installer Protocol Settings Using FTP Client.	
Uninstalling the CAPT Software Uninstalling the Printer Driver Uninstalling Canon CAPT Print Monitor Uninstalling NetSpot Device Installer.	

Installing the CAPT Software

Install the printer driver on the computer you are using. The printer driver is software required for printing from an application you use. There are the following two ways to install the printer driver. The procedures for setting the IP address or creating a port required to print in a network environment vary depending on the installation method.

■ Installing the CAPT Software from CD-ROM Setup (See p. 2-2)

If you install the printer driver from the CD-ROM (CD-ROM Setup) supplied with the printer, you can easily configure the printer to print in a network environment by setting the IP address and creating a port at once.

Installing the Printer Driver Manually Using Various Utility Software (See p. 2-29)

Specify the IP address or create a port (Canon CAPT Port) using the software in the CD-ROM ("NetSpot Device Installer" or "Print Monitor Installer") supplied with the network board, the ARP/PING command or others, and then install the printer driver from the [Printers and Faxes] folder or the [Printers] folder.

IMPORTANT

The printer driver is required for printing with the printer. Be sure to install the printer driver.

NOTE

For procedures for installing the CAPT software by connecting the printer and computer with a USB cable or by sharing the printer on a network, see "User's Guide".

Installing the CAPT Software from CD-ROM Setup

This section describes the procedure for installing the printer driver from the CD-ROM (CD-ROM Setup) supplied with the printer. If you install the printer driver from the CD-ROM, you can easily configure the printer to print in a network environment by setting the IP address and creating a port at once.

The installation procedure varies depending on the model you are using.

- For LBP5100 (See p. 2-3)
- For LBP5000, LBP3500, or LBP3300 (See p. 2-16)

2



When there is not enough free hard disk space, a message will appear during the installation. Stop the installation and increase the free space, and then install the CAPT software again.

NOTE

If you are using Windows XP Service Pack 2 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 "Installing the Printer Driver Manually Using Various Utility Software" (p. 2-29) and specify the IP address for the printer in advance.

For LBP5100

If you are using LBP5000, LBP3500, or LBP3300, see "For LBP5000, LBP3500, or LBP3300," on p. 2-16.

NOTE

The screen shots used in this section are from Windows XP Professional.

- **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.

🧷 NOTE

If you are using Windows 2000/XP/Server 2003, be sure to log on as a member of Administrators when starting up.

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.

NOTE

If CD-ROM Setup does not appear, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK]. (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.)

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

[Easy Installation] allows you to install the printer driver and the instruction manuals simultaneously. If you do not install the manuals, select [Custom Installation].

Canon	LBP5100 CD-ROM Setup
You can install software programs etc. on this screen. Select a menu on the right.	Easy Installation
	Custom Installation
Contraction in the contraction	Additional Software Programs
11111 1121	Display Manuals
	Exit

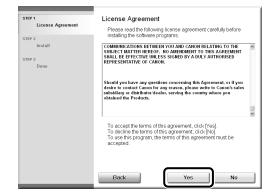
6 Click [Install].

Easy Installation		of Software : 💷 README file : 📄	
	Printer Driver	1 = 70 MB	
	Online Manuals	19 MB	
The software program	s shown above will be installed. Click	< (install), and then follow	w the instructions
The software program displayed on screen. T the right of the program	o view the quick explanation or REA	<[Install], and then follow DME file of a program,	w the instructions , click the icon on
displayed on screen. T	o view the quick explanation or REA	<[Install], and then follow DME file of a program,	w the instructions , click the icon on
displayed on screen. T	o view the quick explanation or REA	(Install), and then foliov DME file of a program, DC: Free Disk Space Required to	, click the icon on Space 129 MB

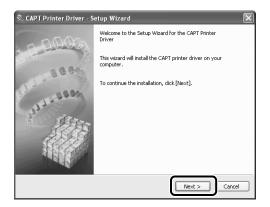
If you selected [Custom Installation] in Step 5, clear the [Online Manuals] check box, and then click [Install].

Custom Installation	•••	(0.) T	
		of Software : 🔳 README file : 🗐	
	Printer Driver		
	Online Manuals	19 MB	
The selected software instructions displayed the icon on the right of	programs shown above will be instal on screen. To view the quick explana the program.	lled. Click [Install], and then fo thion or README file of a pro	illow the gram, click
instructions displayed	on screen. To view the quick explana	lled. Click (Install), and then fo to on or README file of a pro C: Free Disk Space Space Required to	igram, click

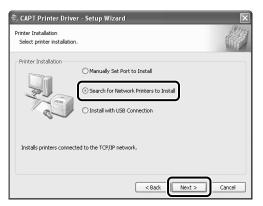
7 Confirm the contents, then click [Yes].



8 Click [Next].



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



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

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, the following screen is displayed.

Warning	3
⚠	To search for all printers, you must temporarly remove the Windows Firewall block set against the program for searching printers. When the installation is completed, the Windows Firewall block will be reactivated.
	Do you want to change the Windows Firewall settings so that the block will be removed?
	Yes No

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].

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

Ø NOTE

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).

2

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

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

CAPT Printer Dri Select Printers to Instal Select the printers to			×
Printer List:	Auto Se	arch Again Manual	Search by IP Address
CLBP5100	00-00-85-92-a9-e2	192.168.0.215	Location
Add Printer List for Univer In	Staliation:		Set IP Address
Product Name	MAC Address	IP Address	Location
Set Printer Informat	ion		
		< Back	Vext > Cancel

Ø NOTE

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. 2-84) to change the IP address after finishing the installation.

If you changed the IP address after installing the printer driver, see "Changing the Port" (p. 5-18) and set the port anew.

• When [Unknown Device] is displayed in [Product Name]

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

	1 100.000	
00-00-85-92-a9-e2	Not Set	
stallation:		iet IP Address
MAC Address	IP Address	Location
	↓↑ Remove stallation:	stallation:



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.

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

[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).

Set IP Address		\mathbf{X}
Get automatically Use the following IP address:		
	ОК	Cancel

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

rinter List:	Auto S	earch Again Manual	Search by IP Address
LBP5100	00-00-85-92-a9-e2	192.168.0.215	
rinter List for Driver	Remov	e	Set IP Address
	MAC Address	IP Address	Location
Product Name			
Product Name			

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

NOTE

This procedure allows you to specify the settings for the 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.

2

• When you do not specify the settings for the printer information such as the printer sharing settings

Click [Next].

nter List: Product Name	Auto So MAC Address	earch Again Manua IP Address	l Search by IP Address.
	L		Set IP Address
Add	·	e	Dec IP Address
Add hter List for Driver I Product Name	·	IP Address	Location
ter List for Driver I	Installation:		

If you are using Windows 2000/XP/Server 2003, the port is created as Standard TCP/IP Port, and if you are using Windows 98/Me, the port is created as Canon CAPT Port.

• When you specify the settings for the printer information such as the printer sharing settings

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

🕏 CAPT Printer D	river - Setup Wizard		×
Select Printers to Ins	tall		States
Select the printers	to add, and then click [Add].		U
Printer List:	Auto Sea	rch Again	Manual Search by IP Address
Product Name	MAC Address	IP Address	Location
Add Printer List for Driver			Set IP Address
Product Name	MAC Address	IP Address	Location
@LBP5100	00-00-85-92-a9-e2	192.168.0.2	:15
	_		
Set Printer Inform	ation		
		< Back	Next > Cancel

□ Specify the settings for the printer information.

CAPT Printer Driver -	Setup Wizard	
Set the port to be used for t Also, you can specify a nam		UI ?
Selected Printer:	Canon LBP5100	
Use Driver:	Canon CAPT Driver Ver. 1.00	
Port:	IP_192.168.0.215	~
		Add Dort
Printer Name:	Canon LBP5100	
Set as Default		
Use as Shared Printer		
Shared Name:		
		Univers to Add
		Current Printer:
	Number	of Printers to Set:
	< Back Next :	> Cancel

Options to be specified

[Printer Name]:	Enter a new name in [Printer Name] if you want to change the printer name.
[Set as Default]:	When using the printer as the default printer, select the [Set as Default] check box.
[Use as Shared Printer]:	When 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 select the [Use as Shared Printer] check box, and if there is any computer on which Windows 98/Me runs on the network, click [Drivers to Add], select [Windows 98/Millennium Edition], and then click [OK].

Drivers to Add
Select systems for additional drivers (alternate drivers) that you want to install from the list below so that users on the following systems can download them automatically when they connect.
Patran C. AJJ. Windows 98/Millennium Edition
<u>.</u>
OK Cancel

Click [Next].

Printer Information Set the port to be used for		
Also, you can specify a nam Selected Printer:	Canon LBP5100	mar Ci
Selected Philiter: Lise Driver:	Canon CAPT Driver Ver. 1.00	
Port:	IP 192.168.0.215	
		Add Port
Printer Name:	Canon LBP5100	
Set as Default		
Use as Shared Printer		
Shared Name:	LBP5100	
		Drivers to Add
	c	Iurrent Printer: Printers to Set:

If you are using Windows 2000/XP/Server 2003, Standard TCP/IP Port is created, and if you are using Windows 98/Me, Canon CAPT Port is created.

12 Click [Start].

🕏 CAPT Printer Driver - Setup Wizard	X
The setup program will install the drivers with the Confirm the settings.	following settings.
Printer List for Driver Installation:	
= Add = Printer: Canon LBP5100 (Set a: default) Driver : Canon LBP5100 Port : IP_192.168.0.215	
Click [Start] to install.	
	< Back Start Cancel

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, the following screen is displayed. Specify whether to configure Windows Firewall to unblock communication with the client computers when sharing the printer on a network.

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

Click [No] when you do not share the printer on the network.

Warning	:
⚠	To display the status of the shared printers, you must remove the Windows Firewall block set against 'Canon LBPS100 RPC Server Process'. Do you want to change the Windows Firewall settings so that the block will be removed?
	Yes No



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

13 The message <Installation cannot be stopped once it starts. Do you want to continue?> appears. Click [Yes].

Warnin	g 🛛 🕅
	Installation cannot be stopped once it starts. Do you want to continue?
	Yes No

Installation of the printer driver starts.

NOTE

- 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].

14 If [Easy Installation] is selected in Step 5, the manuals are installed.

STEP 1	Install	
	🖌 Printer Driver	Installed.
STEP 2 Install	Online Manuals	Installing
STEP 3 Done	you download the manuals t	i to make full use of your machine. If o your computer, the manuals can be computer without running the
		Next

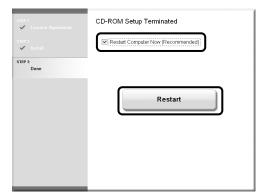
15 Confirm the installation results, then click [Next].

	🖌 Printer Driver	Installed.
STEP 2 V Install	✓ Online Manuals	Installed.
STEP 3 Done		
	Check the installation result	s shown above, and then click [Next].
	Check the installation result:	s shown above, and then click [Next].
	Check the installation result:	s shown above, and then click [Next].
	Check the installation result	s shown above, and then click [Next].

Ø NOTE

If the printer driver installation does not finish successfully, see "Installation Problems," on p. 4-2.

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



Windows restarts.

Now, the installation of the printer driver is completed, and you can print from the computer. See "After Completing Installation" (p. 2-79) 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. 2-84.

17 If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, 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.

18 From the [Start] menu, select [Control Panel].

19 Click [Network and Internet Connections], then click [Windows Firewall].

20 In the [Exceptions] sheet in the [Windows Firewall] dialog box, click [Add Port].

Windows Firewall Genera Exceptions , dvanced	
Windows Firewall is blocking incoming netwo programs and services selected below. Addin to work better but might increase your securit	g exceptions allows some programs
Programs and Services:	
Name	
Canon LBP5100 RPC Server Process	
✓ File and Printer Sharing ✓ Bernote Assistance	
Remote Desktop	
UPnP Framework	
Add Program Add Port	Edit Delete
Display a notification when Windows Fire	vali blocks a program
What are the risks of allowing exceptions?	
	OK Cancel

2

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

Add a Port	X
	to open a port through Windows Firewall. To find the port ol, consult the documentation for the program or service you
Name:	CANON CAPT Port
Port number:	
	③ TCP ○ UDP
What are the risks	of opening a port?
Change scope	OK Cancel

22 Enter "3756" in [Port number].

Add a Port	\mathbf{X}
	to open a port through Windows Firewall. To find the port ol, consult the documentation for the program or service you
Name:	CANON CAPT Port
Port number:	3756
Port number:	3756 UDP

23 Select [UDP], then click [OK].

Add a Port	×
	to open a port through Windows Firewall. To find the port ol, consult the documentation for the program or service you
Name:	CANON CAPT Port
Port number:	3756
What are the risks Change scope	of opening a port?

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

🕅 Windows Firewall
General Exceptions Advanced
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.
Programs and Services:
CANON CAPT Port
File and Printer Sharing Parenote Assistance Remote Desktop UPnP Framework
Add Program Add Port Edit Delete
✓ Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel

For LBP5000, LBP3500, or LBP3300

If you are using LBP5100, see "For LBP5100," on p. 2-3.

NOTE

The screen shots used in this section are from Windows XP Professional with which LBP5000 is being used.

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.

NOTE

If you are using Windows 2000/XP/Server 2003, be sure to log on as a member of Administrators when starting up.

2

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 CD-ROM Setup does not appear, select [Run] from the [Start] menu, enter "D:\English\MInst.exe", and then click [OK]. (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.)

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

[Easy Installation] allows you to install the printer driver and the instruction manuals simultaneously. If you do not install the manuals, select [Custom Installation].

Canon	LBP5000 CD-ROM Setup
You can install software programs etc. on this screen. Select a menu on the right.	Easy Installation
- and -	Custom Installation
And a submitted and a submitte	Additional Software Programs
11111	Display Manuals
	Exit

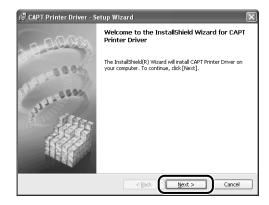
6 Click [Install].

Easy Installation		of Software : 🚺 EADME file : 🗐		
	Inter Driver	1 1 70 MB		
	Online Manuals	1 50 MB		
The software programs displayed on screen. T	s shown above will be installed. Click o view the quick explanation or REA	(Install), and then fol DME file of a progra	low the instru m, click the i	ictions con on
The software programs displayed on screen. T the right of the program	o view the quick explanation or REA	(Install), and then fol DME file of a progra	low the instru m, click the i	ictions con on
displayed on screen. T	o view the quick explanation or REA	DME file of a progra	m, click the i	con on
displayed on screen. T	o view the quick explanation or REA	(Install), and then fol DME file of a progra C: Free Di Space Required	m, click the i	483 M

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

	Explanatio	n of Software : 1 README file : 1	
	🗹 💣 Printer Driver	1 1 70 MB	
	Online Manuals	11 50 MB	
These manuals are requi	red to make full use of your mach	ine. If you download the manuals to y	our
These manuals are requi computer, the manuals ca	red to make full use of your mach an be displayed directly from you	nine. If you download the manuals to y r computer without running the CD-RC	our DM.
These manuals are requi computer, the manuals ci	red to make full use of your mach an be displayed directly from you	r computer without running the CD-RC	our DM.

7 Click [Next].



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

记 CAPT Printer Driver - Setup Wizard	×
License Agreement	物
Please read the following license agreement carefully.	A
BE BOUND BY ITS TERMS AND CONDITIONS. YOU ALSO AGREE THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN YOU AND CANON CONCERNING THE SUBJECT MATTER HEREOF AND SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, VERBAL, OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN YOU AND CANON BEATTING TO THE SUBJECT MATTER HEREOF. NO AMPONDMENT TO THIS AGREEMENT SHALL BE EFFECTIVE UNLESS SIGNED BY A DULY AUTHORISED REPRESENTATIVE OF CANON.	<
Should you have any questions concerning this Agreement, or if you desire to contact Canon for any reason, please write to Canon's sales subsidiary or distributor/dealer, serving the country where you obtained the Products.	>
The second contract of the second of the sec	
InstallShield Cancel	

9 Select [Search for Network Port to Install], then click [Next].



10 Click [Add/Delete].



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

If you are using Windows XP Service Pack 2 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].

11 Operation procedure varies depending on the content displayed in [Device Name] in [Printer List].

- When the name of the printer is displayed in [Device Name] (See p. 2-20)
- When [Unknown Device] is displayed in [Device Name] (See p. 2-21)

Ø NOTE

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).

• When the name of the printer is displayed in [Device Name]

Select the printer to be installed, then click [Add to the Printer List for Driver Installation].

LBP5000	00-00-85-3d-a0-2a	192.168.0.215		Update Printer List
E 1201 3000	000003304024	132.100.0.213		Search by IP Address
				Set IP Addr <u>e</u> ss
	Add to the Printer Lis	t for Driver Installatio	n	
rinter List for Driv	ver Installation:			
Device Name	MAC Address	IP Address	Location	
				Delete

Ø NOTE

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. 2-84) to change the IP address after finishing the installation.

If you changed the IP address after installing the printer driver, see "Changing the Port" (p. 5-18) and set the port anew.

• When [Unknown Device] is displayed in [Device Name]

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

				Update Printer List
Unknown D	. 00-00-85-3d-a0-2a	Not Set		Search by IP Address
			ſ	Set IP Address
	Add to the Printer Lis	t for Driver Installatio	n	
inter List for Drive		t for Driver Installation	n Location	
	er Installation:			
	er Installation:			



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.

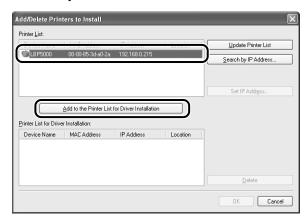
Enter the IP address of the printer in the [Set IP Address] dialog box, then click [OK].

[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).

Set IP Address			Þ
IP Address:			
Get automatically			
O Use the following IP address:			
	G		<u> </u>
	L	OK	Cancel

Select the printer to be installed, then click [Add to the Printer List for Driver Installation].



12 Click [OK].

Device Name	MAC Address	IP Address	Location	Update Printer List
				Search by IP Address
				Set IP Addr <u>e</u> ss
	Add to the Printer List f	or Driver Installation		
nter List for Drive	er Installation:			
nter List for Drive Device Name	er Installation: MAC Address	IP Address	Location	
		IP Address 192.168.0.215	Location	

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, click [Yes] when the following screen is displayed.

Warning	3
⚠	To use 'Canon CAPT Port', you must remove the Windows Firewall block set against its port number. Do you want to change the Windows Firewall settings so that the block will be removed?
	<u>Yes</u> <u>No</u>



13 Make sure that the name of the printer is added to [Printer List for Driver Installation].

NOTE

This procedure allows you to specify the settings for the 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.

When you do not specify the settings for the printer information such as the printer sharing settings

Select Printers for Driver Installation Click [Add/Delete], and then select printers for driver installation. The same printer can be selected more than once.	
Printer List for Driver Installation:	
Canon LBP5000 (192.168.0.215)	
	dd/Delete
Set Printer Information	

Click [Next].

When you specify the settings for the printer information such as the printer sharing settings

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

🖑 CAPT Printer Driver - Setup Wizard	×
Select Printers for Driver Installation Click [Add/Delete], and then select printers for driver installation. The same printer can be selected more than once.	
Printer List for Driver Installation:	
(Canon LBP5000 (192:168:0.215)	
	Add/Delete
	ct > Cancel

□ Specify the settings for the printer information.

🐻 CAPT Printer Driver - Set	up Wizard	X
Printer Information Set the port used for the selec Click [Next] to proceed.	ted printer.	the second
Selected Printer: Use Driver:	Canon LBP5000 Canon CAPT Driver Ver 1.00	
<u>Port Settings:</u>	 Use Standard Port Use Network Printer Add Port Settings 	
Port Set:	CANON3DA02A.	
Printer Name:	Canon LBP5000	
Use as Shared Printer	Details	
Set as Default		
InstallShield	< Back Next > Cancel	

Options to be specified

[Printer Name]:	Enter a new name in [Printer Name] if you want to change the printer name.
[Use as Shared Printer]:	When 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.
[Set as Default]:	When using the printer as the default printer, select the [Set as Default] check box.

□ If you have selected the [Use as Shared Printer] check box, click [Details], and then specify the detailed settings for the shared printer. Change the share name as needed. If there is any computer on which Windows 98/Me runs on the network, select [Intel Windows 98/Me], then click [OK].

Detailed Settin	gs for Shared Printer
If you share this p	rinter, you must provide a share name.
Share <u>N</u> ame:	LBP5000
install from the list	r additional drivers (alternate drivers) that you want to below so that users on the following systems can utomatically when they connect.
	×
	OK Cancel

Click [Next].



14 Click [Start].

禮 CAPT Printer Driver - Setup Wizard	×
The setup program will install the drivers with the following settings.	alter .
Confirm the settings.	
Printer List for Driver Installation:	
(Add> Printer: canon LBP5000 (Set as default) Driver : Canon LBP5000 Prot : CANONSDACEA Shared : On (Share name: LBP5000)	
Click [Start] to install. InstallSheld	ancel

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, the following screen is displayed. Specify whether to configure Windows Firewall to unblock communication with the client computers when sharing the printer on a network.

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

Click [No] when you do not share the printer on the network.

Warning	2
⚠	To display the status of the shared printers, you must remove the Windows Firewall block set against 'Canon LBP5000 RPC Server Process'. Do you want to change the Windows Firewall settings so that the block will be removed?
	Yes No

NOTE

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

15 The message <Installation cannot be stopped once it starts. Do you want to continue?> appears. Click [Yes].

Warnin	g 🛛 🕅
	Installation cannot be stopped once it starts. Do you want to continue?
	<u>Y</u> es <u>N</u> o

Installation of the printer driver starts.

NOTE

- 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].

16 The screen that informs you of the completion of the printer driver installation is displayed. Click [Exit].

🖥 CAPT Printer Driver - Setup Wizard	>
Installation is complete.	Att
Click [Exit] to quit the wizard.	16 A
<u>Restart my computer now</u>	
Restart my computer later	
istallShield	
	Exit

17 If [Easy Installation] is selected in Step 5, the manuals are installed.

	🖌 Printer Driver	Installed.
EP 2 Done	Online Manuals	Installing
	you download the manuals t	d to make full use of your machine. If to your computer, the manuals can be computer without running the

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

	Service Printer Driver	Installed.
STEP 2 Done	🗸 Online Manuals	Installed.
	Charlette installation and	to all and all and all and all all all all all all all all all al
	Check the installation result	ts shown above, and then click [Next]

Ø NOTE

If the printer driver installation does not finish successfully, see "Installation Problems," on p. 4-2.

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

• For LBP5000 and LBP3300

STEP 1	Installation is Complete
STEP 2 Dene	Restart Computer Now (Recommended))

• For LBP3500

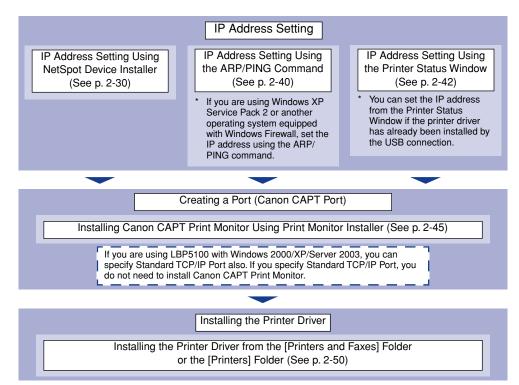
STEP 1 V Install STEP 2	CD-ROM Setup Terminated
Done	
	Restart

Windows restarts.

Now, the installation of the printer driver is completed, and you can print from the computer. See "After Completing Installation" (p. 2-79) 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. 2-84.

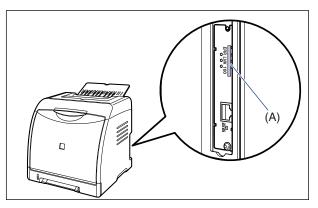
Installing the Printer Driver Manually Using Various Utility Software

This section describes the procedures for installing the printer driver manually using various utility software. Before installing the printer driver from the [Printers and Faxes] folder or the [Printers] folder, you need to set the IP address and create a port (Canon CAPT Port) in order to configure the environment in which the printer and computer you are using can correspond to each other as shown in the following figure. Install the printer driver after configuring the network environment, following the procedure described in the figure.





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



* LBP5100 is taken as the example.

IP Address Setting Using NetSpot Device Installer

🕛 IMPORTANT

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, be careful of the following points.

- 1. It is recommended that you set the IP address using the ARP/PING command (See p. 2-40).
- 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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board. -\NetSpot_Device_Installer\Windows

Ø NOTE

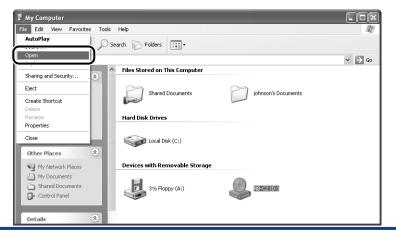
- The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.
- The screen shots of NetSpot Device Installer used in this manual may be different from those actually you see on the screen.
- This section describes the procedure for using NetSpot Device Installer without installing it. For details on the procedures for installing NetSpot Device Installer, see "Managing the Printer Using NetSpot Device Installer," on p. 3-34.

2

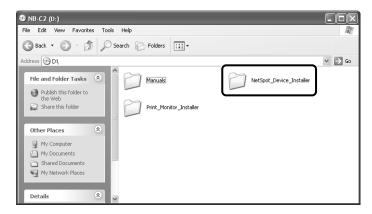
- **1** Make sure that the computer and printer are connected via the network.
- **2** Make sure that the printer is ON.
- **3** Insert the CD-ROM supplied with the network board into the CD-ROM drive.
- **4** Open [My Computer], then select the CD-ROM drive.

🜷 My Computer		- D X
<u>File Edit View Favorites T</u> ools	Help	AU III
🕲 Back - 🕑 - 🎒 🔎 Se	arch 🎼 Folders	
Address 😼 My Computer		👻 🄁 Go
System Tasks View system information Add or remove programs Change a setting	Files Stored on This Computer Image: Shared Documents Image: Shared Documents Hard Disk Drives Image: Local Disk (C:)	
Control Panel Details Note: Control Panel Details Control Panel Control Pan	Devices with Removable Storage 3½ Floppy (A:) NB-C2 (D:)	
My Computer System Folder		

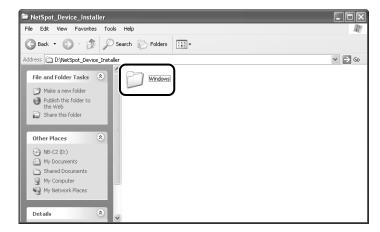
5 Select [Open] from the [File] menu.



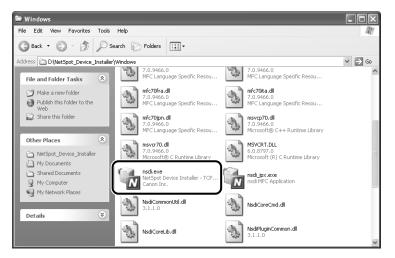
6 Double-click the [NetSpot_Device_Installer] folder.



7 Double-click the [Windows] folder.

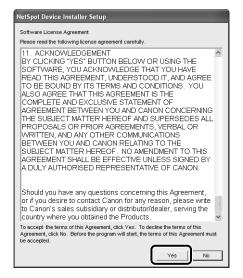


8 Double-click [nsdi.exe].



The [License Agreement] dialog box is displayed.

9 Confirm the contents, then click [Yes].



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

2

10 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.

- When [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. 2-35)
- When any device in which the setting for [IP Address] is the default setting is displayed in the device list (See p. 2-37)
- When your case falls within neither of the above cases (See p. 2-39)

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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.

- \NetSpot_Device_Installer\Windows

NOTE

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

2

- When [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
 - □ Select the device.

All Devices	Device Name	Chabres	Draduet Mana	Lacation	TD Addresse
Unused Devices	00:00:85:3d:a5:	47 Not Configured	Unknown		192.168.0.215
	<u> </u>				

□ Select [Initial Settings] from the [Device] menu.

刘 All C		Ctrl+N	è	Status	Product Name	Location	IP Address
o Unu	IP Address Batch Settings		l:a5:47	Not Configured	Unknown		192.168.0.215
U	Initial Settings		J				
	Protocol Settings		1				
	Device Information						
	TCP/IP Port Information Change Password						
	Print Device Information						
	Restore to Default Settings						
	Web Link						
	Delete						
	Move		·				
L	Сору		<u>.</u>				

NOTE

You can obtain the same result by right-clicking the selected device and selecting [Initial Settings] from the pop-up menu.

Specify the following settings in the [Initial Settings] dialog box, then click [Next].

MAC Address :	00.00.05.24.0.25
<u>S</u> ubnet :	192.168.0.255
Product Type :	LBP + NB-C2
Physical Interface :	C Loken Ring

Options to be specified

- [Subnet]: When the computer on which NetSpot Device Installer is running is connected to multiple networks (when multiple network interface boards are installed), select the subnet to which the device to be configured belongs.
- [Product Type]:Select [LBP + NB-XX] (XX varies depending on the network board).
- □ Specify the IP address.

Frame Type :	Patroneskill	
IP Address Setting with :	Manual Setting	•
IP Address :	192 . 168 . 0 . 1	
<u>S</u> ubnet Mask :	255 . 255 . 255 . 0	
Gateway Address :	192 . 168 . 0 . 1	
Broadgast Address :	192 . 168 . 0 . 255	
IPX		
Frame Type :	Disabled	$\overline{\mathbf{v}}$
Preferred Frame Type :	Disabled	Ŧ
AppleTalk		
P <u>h</u> ase Type :	Disabled	•
Use Token Ring Source	Routing	

Options to be specified

[IP Address Setting with]:	Select the method for setting the IP address.		
	[Manual Setting]:	Allows you to specify the IP address directly. The IP address entered for [IP Address] is specified for the network board.	
	[DHCP]:	Obtains an IP address using DHCP. (The DHCP server needs to be started up.)	
[IP Address]:	Enter the I	P 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.
[Broadcast Address]:	Enter the broadcast address that is being used on the TCP/IP network.

• When any device in which the setting for [IP Address] is the default setting is displayed in the device list

□ Select the device.

Canon NetSpot Device					- DX
Partices All Devices	Device Name	Chabura	Deadlack Manage	Lastian	TD Address
Unused Devices		Ready	LBP5100		192.168.0.215
Number of Device: 1					

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

🖏 Can	on NetSpot Device Installe	er - TCP/I	Р				
	Device View Tools Options	Help					
😵 All C 😗 Unu	New IP Address Batch Settings	Ctrl+N	e	Status Ready	Product Name LBP5100	Location	IP Address 192.168.0.215
	Initial Settings IP Address Settings	,					
	Protocol Settings		D				
	TCP/IP Port Information Change Password Print Device Information Restore to Default Settings						
	Web Link						
	Delete Move Copy	k					
Number o	f Device: 1						11

□ Specify the IP address.

FCP/IP	Ethernet II
IP Address Setting with :	Manual Setting 🗸
in Madross Solarig Mart.	
	E BARE
	☐ BOOTP ☐ DHCP
IP Address :	192 . 168 . 0 . 215
<u>S</u> ubnet Mask :	0.0.0.0
Gateway Address :	0.0.0.0
PX	
Frame Type :	Disabled
AppleTalk	
Phase Type :	Disabled
Zone :	,

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

	[Manual Setting]:	Allows you to specify the IP address directly. 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 started up.)			
	[BOOTP]:	Obtains an IP address using BOOTP. (The BOOTP daemon needs to be started up.)			
	[DHCP]:	Obtains an IP address using DHCP. (The DHCP server needs to be started up.)			
[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.				

Ø NOTE

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

• When 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, turn off the device that has the same IP address or remove the device from the network, and then perform the procedure from Step 1 (See p. 2-31) again. After completing the settings for the printer, restore the devices to their original states. If this method is not possible, set the IP address using the ARP/PING command. For details on the procedure for setting the IP address using the ARP/PING command, see "IP Address Setting Using the ARP/PING Command," on p. 2-40.

12 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.

If you want to create Canon CAPT Port, install Canon CAPT Print Monitor in the next step (See p. 2-45).

If you are using LBP5100 with Windows 2000/XP/Server 2003, you can specify Standard TCP/IP Port also. If you want to specify Standard TCP/IP Port, install the printer driver in the next step (See p. 2-50).

IP Address Setting Using the ARP/PING Command

Make sure that the computer and printer are connected via the network.

2 Make sure that the printer is ON.

3 Run Command Prompt or MS-DOS Prompt.

For Windows XP/Server 2003: From the [Start] menu, select [All Programs] \rightarrow [Accessories] \rightarrow [Command Prompt].

For Windows 2000: From the [Start] menu, select [Programs] \rightarrow [Accessories] \rightarrow [Command Prompt].

For Windows Me: From the [Start] menu, select [Programs] \rightarrow [Accessories] \rightarrow [MS-DOS Prompt].

For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS Prompt].

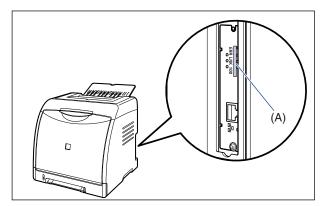
4 Enter the following command, then press the [ENTER] key on your keyboard.

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. When entering the number, separate the number every two digits with a hyphen (-).
Input Example:	arp -s 192.168.0.215 00-00-85-05-70-31

NOTE

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



* LBP5100 is taken as the example.

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.

Ø NOTE

- 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.

If you want to create Canon CAPT Port, install Canon CAPT Print Monitor in the next step (See p. 2-45).

If you are using LBP5100 with Windows 2000/XP/Server 2003, you can specify Standard TCP/IP Port also. If you want to specify Standard TCP/IP Port, install the printer driver in the next step (See p. 2-50).

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 screen shots 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.

For Windows 98/Me/2000: From the [Start] menu, select [Settings] \rightarrow [Printers]. For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] \rightarrow [Printers and Faxes].

2 Select the icon for your printer, then select [Printing Preferences] from the [File] menu.

For Windows 98/Me: Select the icon for your printer, then select [Properties] from the [File] menu.

2

3 Display the [Page Setup] sheet, then click [<u>J</u>] (Display Printer Status Window) to run the Printer Status Window.

Canon LBP5100 Printing Pref		2
Profile: Default Settings	• 🖫 🗹	Output Method: 🗳 Print 🗸
	Page Size:	A4 Match Page Size 1 (1 to 399)
A4 (Scaling: Auto)	Page Layout:	1 Page per Sheet ▼ 100
View Settings	Uvatermark:	CONFIDENTIAL Edit Watermark Page Options Restore Defaults
		OK Cancel Apply Help

Ø NOTE

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

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

🖨 Canon LBP5100			
Job Options Help			
Preferences			
Consumables/Co	unters		*
Utility Device Settings	•	Register Paper Size in Cassettes	
Refresh		Sleep Settings	_
Refresh	_	Calibration Settings	
	6	Network Settings	È.
		Assisting Drink Cottings	_
,			
			S
Current Print Job My J			
Callent Plint 300 My J	ob Uperation		1
Title	Contents		11
Document Name		_	
User Name			
Computer Name			
Configures the network.			

5 Specify the IP address.

IP Address Setting with:	Manual Setting
	BARP BOOTP
	DHCP
IP Address:	192 . 168 . 0 . 215
Subnet Mask:	255 . 255 . 255 . 0
Gateway Address:	0.0.0.0
Password:	

Options to be specified

[IP Address Setting with]:	Select the method for setting the IP address.			
	[Manual Setting]:	Allows you to specify the IP address directly. 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 started up.)		
	[BOOTP]:	Obtains an IP address using BOOTP. (The BOOTP daemon needs to be started up.)		
	[DHCP]:	Obtains an IP address using DHCP. (The DHCP server needs to be started up.)		
[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 has not been specified yet, i is not required to enter the password.			



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

If you want to create Canon CAPT Port, install Canon CAPT Print Monitor in the next step (See p. 2-45).

If you are using LBP5100 with Windows 2000/XP/Server 2003, you can specify Standard TCP/IP Port also. If you want to specify Standard TCP/IP Port, install the printer driver in the next step (See p. 2-50).

Installing the Canon CAPT Print Monitor

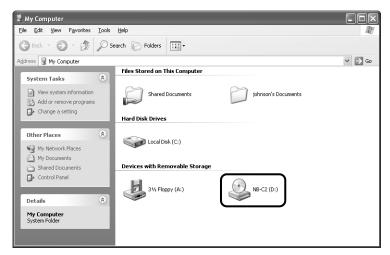
Ø NOTE

- If you are using LBP5100 with Windows 2000/XP/Server 2003, you can specify Standard TCP/IP Port also. If you specify Standard TCP/IP Port, you do not need to install Canon CAPT Print Monitor. Proceed to the installation of the printer driver. (See p. 2-50)
- The screen shots used in this section are from Windows XP Professional.

Insert the CD-ROM supplied with the network board into the CD-ROM drive.

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 5.

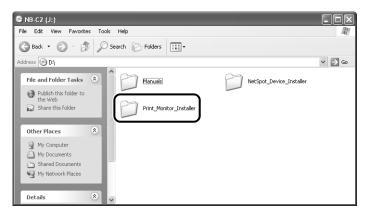
2 Open [My Computer], then select the CD-ROM drive.



3 Select [Open] from the [File] menu.

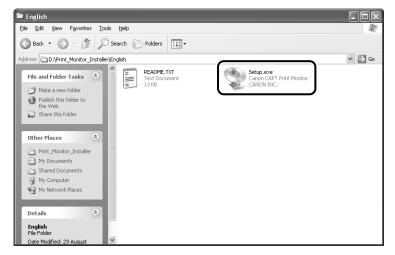


4 Double-click the [Print_Monitor_Installer] folder.



5 Double-click the [English] folder.

6 Double-click [Setup.exe].



The installer of Canon CAPT Print Monitor starts.

7 Click [Next].



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

😤 Canon CAPT Print Monitor - Setup Wizard	\mathbf{X}
License Agreement Please read the following license agreement carefully.	
BE BOUND BY ITS TERMS AND CONDITIONS. YOU ALSO AGREE THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN YOU AND CANON CONCENNING THE SUBJECT MATTER HEREOF AND SUPERSEDES ALL PROPOSALS OF RFIOR AGREEMENTS, VERBAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN YOU AND CANON BEATINK TO THE SUBJECT MATTER HEREOF. NO AMENOMENT TO THIS AGREEMENT SHALL BE EFFECTIVE UNLESS SIGNED BY A DULY AUTHORISED REPRESENTATIVE OF CANON.	^
Should you have any questions concerning this Agreement, or if you desire to contact. Canon for any reason, please write to Canon's sales subsidiary or distributor/dealer, serving the control where you obtained the Products.	*
< Back Next> Cancel	

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

🎐 Canon CAPT Print Monitor - Setup Wizard	×
Windows Firewall Block Setting	
To use Canon CAPT Print Monitor, the block against this program provided by the Windows Firewall must be removed.	
Do you want to change the Windows Firewall settings so that the block will be	
< Back Next>	Cancel

9 Click [Start].

🥸 Canon CAPT Print Monitor - Setup W	izard	\mathbf{X}
Start Installation		
Click (Start) to start installation. To confirm the current settings, click (Back	L	
	< Back Start	Cancel

Installation of Canon CAPT Print Monitor starts.

10 Restart the computer following the instructions on the screen.

nstallation is complete		Å
Click [Exit] to quit the wizard.		田
Restart my computer now		
C Restart my computer later		
	Exit	Cancel

Next, install the printer driver (See p. 2-50).

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

■ For Windows XP/Server 2003

If you are using an operating system other than Windows XP/Server 2003, see the following.

- For Windows 2000 (See p. 2-61)
- For Windows 98/Me (See p. 2-70)

IMPORTANT

When printing a test page, make sure that the printer is properly connected to the computer and the printer is ON before installing the printer driver.

NOTE

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

- **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 XP/Server 2003.
- **4** Log on as a member of Administrators.

NOTE

Full Control Permission is required for the installation of the printer driver.

5 Display the [Printers and Faxes] folder.

For Windows XP Professional/Server 2003 From the [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] \rightarrow [Printers and Faxes].

6 Click [Add a printer].

For Windows Server 2003: Double-click [Add Printer].

🖏 Printers and Faxes File Edit View Favorites Tools Help M 🕞 Back 🔹 🌍 👻 🏂 🔎 Search 🕅 Folders 🔛 🕶 Address 👒 Printers and Faxes 🗸 🌛 Go Printer Tasks Add a printer See Also \$? Troubleshoot printing Get help with printing \$ Other Places 🔂 Control Panel

7 Click [Next].



8 Make sure that [Local printer attached to this computer] is selected, then click [Next].



NOTE

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

2

9 Select [Create a new port].

Add Printer Wizard
Select a Printer Port Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Note: Most computers use the LPT1; port to communicate with a local printer. The connector for this port should look something like this:
Canon CAPT Port
<u> </u>

10 Create a port.

- When using Standard TCP/IP Port (only for LBP5100) (See p. 2-53)
- When using Canon CAPT Port (See p. 2-56)

• When specifying Standard TCP/IP Port (only for LBP5100)

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



Click [Next].



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

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.

Add Standard TCP/IP Printer I	Port Wizard 💌
Add Port For which device do you want	to add a pot?
Enter the Printer Name or IP ac	ddress, and a port name for the desired device.
Printer Name or IP Address:	192.168.0.215
Port Name:	IP_192.168.0.215
	<pre></pre>

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], and then click [Next].

Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required The device could not be identified.
The device is not found on the network. Be sure that: 1. The device is turned on. 2. The network is connected. 3. The device is propely configured. 4. The address on the previous page is correct. If you think the address is not correct, tick: Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Standard Canon Network Printing Device with P9100
Clustom Settings

After the computer has confirmed that there is a printer that has the IP address you entered, the [Completing the Add Standard TCP/IP Printer Port Wizard] window appears. Click [Finish].

Add Standard TCP/IP Prin	ter Port Wiza	ard 🔀
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.	
	SNMP: Protocol: Device: Port Name: Adapter Type:	Yes RAW, Port 9100 192:168.0.215 IP_192:168.0.215 Canon Network Printing Device with P9100
	To complete th	nis wizard, click Finish.
		K Back Finish Cancel

Ø NOTE

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall and want to use Standard TCP/IP Port, it is recommended that you see the procedure from Step 18 of "Installing the CAPT Software from CD-ROM Setup" (p. 2-14) 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.

• When specifying Canon CAPT Port

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

Add Printer Wizard		-
Select a Printer Port Computers communicate w	with printers through ports.	
Select the port you want yo new port.	our printer to use. If the port is not listed, you car	n create a
O Use the following port:	LPT1: (Recommended Printer Port)	\sim
	use the LPT1: port to communicate with a local port should look something like this:	printer.
	and a second	
Type of port	Canon CAPT Port	~
	< Back Next>	Cancel

NOTE

If [Canon CAPT Port] is not displayed, perform the procedure "Installing the Canon CAPT Print Monitor" (See p. 2-45) again.

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, and then click [OK].

Canon CAPT Port - Add	Printer Port	×
Available network printers:		
	-	Update Printer List
192.168.0.215	192_168_0_215.	Add to List Manually
		Help
		OK Cancel

If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If this does not display the target printer's port name, click [Add to List Manually], enter the IP address or printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] in the [Add to List Manually] dialog box, and then click [OK]. 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.

Canon CAPT Port - Add to	List Manually 🛛 🗙		
Enter the IP address or name of the printer you want to use.			
IP Address or Printer Name:	192.168.0.215		
Port Name:	192_168_0_215.		
	OK Cancel		

11 Click [Have Disk].

Add Printer Wizard		
Install Printer Software The manufacturer and model o	determine which printer software to use,	9
	d model of your printer. If your printer came with an installat ar printer is not listed, consult your printer documentation for	
Manufacturer Agfa Alps Apollo Apple APS-PS	Printers → AGFA-AccuSet V52.3 → AGFA-AccuSet SF V52.3 → AGFA-AccuSet 800 → AGFA-AccuSet 8005 → AGFA-AccuSet	<
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	<u>Windows Update</u> <u>Have Disk.</u>	
	(<u>B</u> ack <u>N</u> ext) Cance	

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 Select [D:\English\Win2K_XP]. Select the INF file, then click [Open].

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.

Locate File		?×
Look in: 🗎	Win2K_XP	✓ ③ ∅ ▷ □.
	(.INF	
File name:	CNAC6STK.INF	V Open
Files of type:	Setup Information (*.inf)	Cancel

14 Confirm the contents of [Copy manufacturer's files from], then click [OK].

For example, when your CD-ROM drive is drive [D:], it is displayed as [D:\English\Win2K_XP].

Install F	rom Disk	X
3	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Conu marufactuset's files from D:\English\Win2K_XP	Browse

15 Click [Next].

Add Printer Wizard
Install Printer Software The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Printers
Canon LBF5100
This driver is digitally signed. I ell me why driver signing is important
< Back Next > Cancel

16 Enter a new name in [Printer name] if you want to change the printer name, then click [Next].

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
< Back Next > Cancel



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. In this case, select [Yes] or [No].

17 Click [Next].

Add Printer Wizard		
Printer Sharing You can share this	printer with other network users.	Ì
	e this printer, you must provide a share name. You can use the type a new one. The share name will be visible to other network	
Do not share the share	is printer	
○ Share name:		
	< <u>Back</u>	ancel

Ø NOTE

When sharing the printer on a network, select [Share name], and then click [Next]. The window for entering [Location] and [Comment] is displayed. Enter them as needed, then click [Next].

18 When printing a test page, click [Yes], then click [Next].

Add Printer Wizard	
Print Test Page To confirm that the printer is installed properly, you can print a test page.	Ì
Do were ware to print a test page?	
	Cancel

19 Click [Finish].

Comple Wizard	ting the Add Printer
	ccessfully completed the Add Printer Wizard. the following printer settings:
Name: Share name: Port: Model: Default: Test page:	Canon LBP5100 (Not Shared) CANON30A02A, Canon LBP5100 Yes Yes
To close this	wizard, click Finish.
	< Back Finish Cancel

Copying files is started.

When printing a test page, a dialog box will appear after printing. Click [OK] to close the dialog box.

If you are using a computer with Windows XP Service Pack 2 or another operating system equipped with Windows Firewall as the print server, you need to configure Windows Firewall to unblock communication with the client computers. For details on configuring Windows Firewall to unblock communication, see "User's Guide".

NOTE

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

Now, the installation of the printer driver is completed, and you can print from the computer. See "After Completing Installation" (p. 2-79) 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. 2-84.

For Windows 2000

If you are using an operating system other than Windows 2000, see the following.

- For Windows XP/Server 2003 (See p. 2-50)
- For Windows 98/Me (See p. 2-70)

IMPORTANT

When printing a test page, make sure that the printer is properly connected to the computer and the printer is ON before installing the printer driver.

Ø NOTE

The screen shots used in this section are examples of when LBP5100 is being used.

- 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 2000.
 - Log on as a member of Administrators.

NOTE

Full Control Permission is required for the installation of the printer driver.

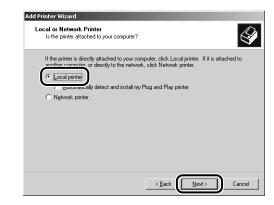
5 From the [Start] menu, select [Settings] → [Printers] to open the [Printers] folder. Then, double-click [Add Printer].

The [Add Printer Wizard] dialog box is displayed.

6 Click [Next].



7 Make sure that [Local printer] is selected, then click [Next].



Ø NOTE

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

8 Select [Create a new port].

Add Printer Wizard	I		
Select the Prir Computers c	iter Port ommunicate with printers throu	gh ports.	Ś
new port.	ort you want your printer to use ollowing port	. If the port is not listed, you can c	reate a
Port	Description	Printer	
LPT1:	Printer Port		
LPT2:	Printer Port		
LPT3:	Printer Port		
COM1:	Serial Port		
COM2:	Serial Port		=1
L COM3	Serial Port		_
<u> </u>	new port:	ort to communicate with a local prin	v.
		< <u>B</u> ack <u>N</u> ext >	Cancel

9 Create a port.

- When using Standard TCP/IP Port (only for LBP5100) (See p. 2-63)
- When using Canon CAPT Port (See p. 2-66)

• When specifying Standard TCP/IP Port (only for LBP5100)

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

	municate with printers you want your printer to	through ports.	ou can create a
C Use the follo	wina port:		
Port	Description	Printer	
LPT1: LPT2:	Printer Port Printer Port		
LPT3:	Printer Port		_
COM1: COM2:	Serial Port Serial Port		_
L CUM3	Serial Port		<u> </u>
Note: Most o	computers use the LPT	 port to communicate with a 	local printer.
	n porc		
Туре:	Standard TC	:P/IP Port	

Click [Next].



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

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.

Add Standard TCP/IP Printer Por	t Wizard	×
Add Port For which device do you wan	t to add a port?	
Enter the Printer Name or IP a	ddress, and a port name for the desired device.	
Printer Name or IP Address:	192.168.0.215]
Port Name:	IP_192.168.0.215	
	< Back Next >	Cancel

If the message <Additional Port Information Required> appears on the screen, search for the printer following the instructions on the screen, or from [Device Type] select [Standard] \rightarrow [Canon Network Printing Device with P9100], and then click [Next].

Add Standard TCP/IP Prin	ter Port Wizard
Additional Port Inform The device could not	
 The device is turned o The network is connect The device is properly The address on the pro- If you think the address is 1 	ted configured. evious page is correct. not correct, click Back to return to the previous page. Then correct nother search on the network. If you are sure the address is correct,
Standard Canon	Network Printing Device with P9100
C Custom Settin	gs
	< Back Next > Cancel

□ After the computer has confirmed that there is a printer that has the IP address you entered, the [Completing the Add Standard TCP/IP Printer Port Wizard] window appears. Click [Finish].

Add Standard TCP/IP Printer	Port Wizard		×
		ing the Add Standard Printer Port Wizard	
	You have sele	cted a port with the following characteristics.	
	SNMP:	Yes	
	Protocol:	RAW, Port 9100	
	Device:	192.168.0.215	
	Port Name:	IP_192.168.0.215	
	Adapter Type:	Canon Network Printing Device with P9100	
	To complete th	iis wizard, click Finish.	
		< Back Finish Cancel	

When specifying Canon CAPT Port

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

C Use the following port Port Description Printer UT1: Printer Port UT2: Printer Port UT3: Printer Port CDM1: Serial Port CDM2: Serial Port CM2: Serial Port CM4: Serial Port CM	Port Description Printer LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port COM1: Senial Port COM2: Senial Port	Pot Description Printer LPT1: Printer Port LPT2 LPT3: Printer Port LPT3: CDM1: Serial Port	Port Description Printer LPT1: Printer Port	Port Description Printer LPT1: Printer Port LPT2: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	Pot Description Printer LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	Select the port yo new port.	u want your printer to us	e. If the port is not listed, you can	create a
LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Senial Port CDM2: Senial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port COM1: Senal Port COM2: Senal Port	LP11: Printer Port LP12: Printer Port LP13: Printer Port C0M1: Senial Port C0M2: Senial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CUM1: Serial Port CUM2: Serial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Senial Port CDM2: Senial Port	LP11: Printer Port LP12: Printer Port LP13: Printer Port C0M1: Serial Port C0M2: Serial Port	C Use the follow	ing port:		
LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port COM1: Senial Port COM2: Senial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port COM1: Senial Port COM2: Senial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	Port	Description	Printer	
LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port CDM1: Serial Port COM2: Serial Port	LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT1:			
COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	CDM1: Serial Port CDM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	LPT2:	Printer Port		
CDM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	LPT3:	Printer Port		
						COM1:	Serial Port		
COM0. Codel Data		CDM3: Serial Port	CDM3: Serial Port	COM3: Serial Port	COM3: Serial Port				=1
JITTIM'S Senareon	JTTIM'S Senation					I COM3	Serial Port		<u> </u>
Note: Most computers use the LPT1: nort to communicate with a local printer	Note: Most computers use the LRT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most co	imputers use the LPT1:	port to communicate with a local p	rinter.
	note, most computers use the EFFT, port to communicate with a local printer.	note, most comparers aso the arms, port to communicate with a local printer.							
						G.			
		Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most computers use the LPT1: port to communicate with a local printer.	,		port to communicate with a local p	orinter.
Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer.	Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to compunicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most computers use the LPT1: port to communicate with a local printer	Note: Most co	mouters use the LPT1:	port to communicate with a local r	ninter
						,			
				JITTIM'S Sena Port	JITTIM'S Sena Port				-
CON0. Cardel Date		COM3: Serial Port	COM3: Serial Port	COM3: Serial Port	COM3: Serial Port	COM2:	Serial Port		
CDM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port				
CDM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	COM2: Serial Port	LPT3:	Printer Port		
COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port	COM1: Serial Port COM2: Serial Port				
LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port CDM1: Serial Port CDM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT3: Printer Port COM1: Serial Port COM2: Serial Port				
LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT1:			
LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port		Description	Printer	

NOTE

If [Canon CAPT Port] is not displayed, perform the procedure "Installing the Canon CAPT Print Monitor" (See p. 2-45) again.

□ 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, and then click [OK].

Canon CAPT Port - Add Printo Available network printers:	er Port	×
132168.0.215	192_168_0_215.	Update Printer List Add to List Manually Help
		OK Cancel

If the target printer's port name is not displayed in [Available network printers]. click [Update Printer List]. If this does not display the target printer's port name, click [Add to List Manually], enter the IP address or printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] in the [Add to List Manually] dialog box, and then click [OK]. 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.

Canon CAPT Port - Add to Lis	st Manually
Enter the IP address or name of	the printer you want to use.
IP Address or Printer Name:	192.168.0.215
Port Name:	192_168_0_215.
	OK Cancel

10 Click [Have Disk].

Add Printer Wizard Add Printer Wizard The manufacturer	and model determine which printer to use.	Ŷ
disk, click Have compatible print		
Manufacturers: Alps Apollo Apple APS-PS AST ATILT	Pinters: AGFAAccuSet v523 AGFAAccuSet v523 AGFAAccuSet 8005F v523 AGFAAccuSet 8005F v523 AGFAAccuSet 8005F v523 AGFAAccuSet 8005F v523 AGFAAccuSet 1000CF v533	ave Disk
	< <u>B</u> ack <u>N</u> ext >	Cancel

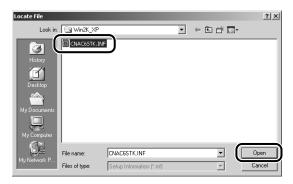
11 Insert the CD-ROM supplied with the printer into the CD-ROM drive, and then click [Browse].

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



12 Select [D:\English\Win2K_XP]. Select the INF file, then click [Open].

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.



13 Confirm the contents of [Copy manufacturer's files from], then click [OK].

For example, when your CD-ROM drive is drive [D:], it is displayed as [D:\English\Win2K_XP].

Install Fre	om Disk	×
_	Insert the manufacture's installation disk into the drive selected, and then click DK. Cancel	
	Foru manufachusa's files from	_,
	D:\English\Win2K_XP Browse	

14 Click [Next].

Add Prin	ter Wizard
	Printer Wizard he manufacturer and model determine which printer to use.
ø	Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Printers:	
Canon	LEPSTOD
	Windows Update Have Disk
	< Back Next> Cancel

15 Enter a new name in [Printer name] if you want to change the printer name, then click [Next].

Add Printer Wizard
Name Your Printer You must assign a name for this printer.
Supply a name for this printer. Some programs do not support server and printer name combinations of more than 31 characters.
Panon LBF5101
< Back Next> Cancel



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. In this case, select [Yes] or [No].

16 Click [Next].

Add Printer Wizard	
Printer Sharing You can share	this printer with other network users.
Indicate wheth printer, you mu	er you want this printer to be available to other users. If you share this t provide a share name.
Do not sha	e this printer
Share as:	
	,
	< Back Next > Cancel

Ø NOTE

When sharing the printer on a network, select [Share as], and then click [Next]. The window for entering [Location] and [Comment] is displayed. Enter them as needed, then click [Next].

17 When printing a test page, click [Yes], then click [Next].

Add Printer Wizard	
Print Test Page To confirm that the printer is installed properly, you can print a test	page.
Dr. www.uwant.to.print a test page?	
< Back	Next > Cancel

18 Click [Finish].



Copying files is started.

When printing a test page, a dialog box will appear after printing. Click [OK] to close the dialog box.



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

Now, the installation of the printer driver is completed, and you can print from the computer. See "After Completing Installation" (p. 2-79) 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. 2-84.

■ For Windows 98/Me

If you are using an operating system other than Windows 98/Me, see the following.

- For Windows XP/Server 2003 (See p. 2-50)
- For Windows 2000 (See p. 2-61)

NOTE

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

2

- **1** Make sure that the computer and printer are connected via the network.
- **2** Make sure that the printer is ON.

From the [Start] menu, select [Settings] → [Printers] to open the [Printers] folder. Then, double-click [Add Printer].

The [Add Printer Wizard] dialog box is displayed.

NOTE 🖉

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

- Double-click [My Computer] → [Control Panel] → [Printers] → [Add Printer] (For Windows Me).
- Double-click [My Computer] → [Printers] → [Add Printer] (For Windows 98).

4 Click [Next].



5 Select [Local printer], then click [Next].

Add Printer Wizard	
Contract of the second se	How is this printer attached to your computer? If it is directly attached to your computer, click Local Printer (I it is attached to another computer, click Network Printer Printer <u>Retwork printer</u>
	<back next=""> Cancel</back>



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

6 Click [Have Disk].

installation disk,	acturer and model of your printer. If your printer came with an click Have Disk. If your printer is not listed, consult your printer for a compatible printer.
Manufacturers: Apple AST AT&T Brother Bull C-Itoh	Etiniter: AGFAAccuSet 10001 AGFAAccuSet 10005F v2013.108 AGFAAccuSet 10005F v2013.108 AGFAAccuSet 15005F v2013.108 AGFAAccuSet 15005F v2013.108 AGFAAccuSet 8005F v2013.108 AGFAAccuSet 8005F v2013.108 AGFAAccuSet 8005F v2013.108 AGFAAccuSet 8005F v2013.108
	< <u>B</u> ack Next> Cancel

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

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



8

Select [D:\English\Win98_Me], then click [OK].

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.

Open		? ×
File name: cnac6sta.inf	Eolders: d:\English\Win98_Me	
cnac6sta.inf	C dt\ C English C Win98_Me	Cancel Network
	Drives:	-

9 Confirm the contents of [Copy manufacturer's files from], then click [OK].

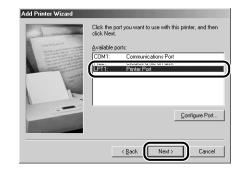
For example, when your CD-ROM drive is drive [D:], it is displayed as [D:\English\Win98_Me].

Install Fr	om Disk	×
_	Insert the manufacturer's installation disk into the drive selected, and then click OK.	D
	Cancel	Ī
	D:\English\\Win98_Me	1
		1

10 Select the name of the printer for [Printers], then click [Next].

Add Prin	ter Wizard
Ø	Click the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Canon	
	Have Disk
	<back next=""> Cancel</back>

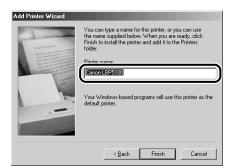
11 Select [LPT1], then click [Next].



Ø NOTE

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

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



Ø 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. In this case, select [Yes] or [No].

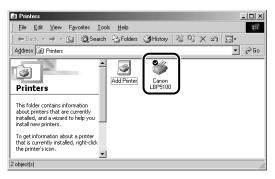
13 Click [Finish].

Copying files is started.

14 When the dialog box for completing the installation appears, click [OK].

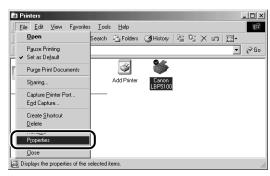
15 From the [Start] menu, select [Settings] \rightarrow [Printers].

16 Select the icon for the printer you are using.



2

17 Select [Properties] from the [File] menu.



18 Display the [Details] sheet.

Canon LBP5100 Properties	<u>? ×</u>
Generic Details olor Management Sharing Page Setup Finishing Paper Source Quality Configuration	
Canon LBP5100	
Print to the following port: IFITIT (Finites Port) Add Port	
Print using the following driver:	
Canon LBP5100 New Driver	
Capture Printer Port End Capture	
Timeout settings	
Not selected: 15 seconds	
Transmission retry: 180 seconds	
Spool Settings Port Settings	
OK Cancel Apply Hel	,

19 Select [Canon CAPT Port] from [Print to the following port], and then proceed to Step 23.

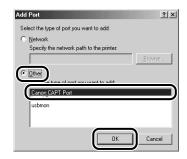
If [Canon CAPT Port] is not displayed in [Print to the following port], perform the following procedure.

Canon LBP5100 Properties	<u>?</u> ×
General Details Color Management Sharing Page Setup Finishing Paper Source Quality Configuration	
Canon LBP5100	
Prink to the following gost: Add Port	
CANDINGDASES Convon CAPT Port FILE (Creates a file on disk) Delete Port FILE (Creates a file on disk) New Driver	
Capture Printer Port Egg Capture	
Timeout settings Not gelected: 15 seconds	
Transmission getty: 180 seconds	
Spool Settings Pgrt Settings	
OK Cancel Apply H	elp

20 Click [Add Port].

Canon LBP5100 Properties	? ×
General Details Color Management Sharing Page Setup Finishing Paper Source Quality Configuration	
Sanon LBP5100	
Print to the following port: [LPIT: (Printer Port)	
Print using the following driver:	
Canon LBP5100 New Driver	
Capture Printer Port End Capture	
Timeout settings	
Not selected: 15 seconds	
Transmission getty: 180 seconds	
Spool Settings Port Settings	
OK Cancel Apply He	slp

21 Select [Other], select [Canon CAPT Port], and then click [OK].



NOTE

If [Canon CAPT Port] is not displayed, perform the procedure "Installing the Canon CAPT Print Monitor" (p. 2-45) again.

22 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, and then click [OK].

Canon CAPT Port - Add Printer Port Available network printers:	X
192.158.0.215 192.158.0.215	Update Printer List Add to List Manually Help
	K Cancel

If the target printer's port name is not displayed in [Available network printers], click [Update Printer List]. If this does not display the target printer's port name, click [Add to List Manually], enter the IP address or printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] in the [Add to List Manually] dialog box, and then click [OK]. Depending on the method for setting the IP address of the network board, the value to be entered varies. For more details, see "Settings for Adding a Port" (p. 5-16) or ask your network administrator.

Canon CAPT Port - Add to List Manually				
Enter the IP address or name of	of the printer you want to use.			
IP Address or Printer Name:	192.168.0.215			
Port Name:	192_168_0_215.			
	OK Cancel			

23 Click [OK].

anon LBP5100 Properties	? ×
General Details Color Management Sharing Page Setup Finishing Paper Source Quality Configuration	
Sanon LBP5100	
Print to the following port:	
CANON3DA548. (Canon CAPT Port) Add Port	
Print using the following driver:	
Canon LBP5100 New Driver	
Capture Printer Port End Capture	
Timeout settings	
Not gelected: 15 seconds	
Transmission gety: 180 seconds	
Spool Settings Pgrt Settings	
OK Cancel Apply H	elp

Now, the installation of the printer driver is completed, and you can print from the computer. See "After Completing Installation" (p. 2-79) 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. 2-84.

After Completing Installation

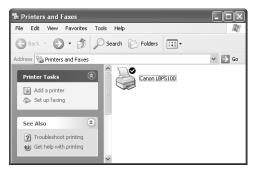
When the installation of the CAPT software is completed, an icon and folder for the printer will be created.

For Windows XP/Server 2003

Ø NOTE

The screen shots 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. (xxxx varies depending on the printer.)



Depending on the model you are using, [LBPxxxx Online Manuals] under [Canon LBPxxxx] is added to [All Programs] under the [Start] menu. (xxxx varies depending on the printer.)

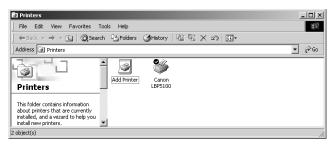
All Programs 🕨	NetSpot Device Installer Canon Printer Uninstaller Canon LBP5100	LBP5100 Online Manuals
	🔎 Log Off 🛛 🔘 Turn Off Ci	omputer

For Windows 98/Me/2000

Ø NOTE

The screen shots 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.



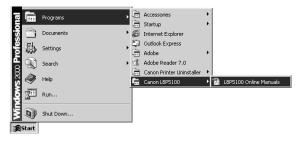
• [Canon Printer Uninstaller] is added to [Programs] under the [Start] menu.

155	1 223	Programs	, (Accessories	•	
ona	-1	riograms	- 6	🖻 Startup	•	
10		Documents	• 6	🍪 Internet Explorer		
ĕ	Fla	Settings	, E	🗐 Outlook Express		
P.	NAN	Socialitys	19	Adobe	•	
6	2	Search	+ 5	Adobe Reader 7.0		
S 2000	A	Help		🗖 Canon Printer Uninstaller	<u>•</u>	Canon LBP5100 Uninstaller
2		пеф				
ğ	2::	Run				
Wind	9	Shut Down				
1	Start					

• If the manuals are installed, [LBPxxxx Online Manuals] is created on the desktop. (xxxx varies depending on the printer.)



Depending on the model you are using, [LBPxxxx Online Manuals] under [Canon LBPxxxx] is added to [Programs] under the [Start] menu. (xxxx varies depending on the printer.)



Checking the Operations with Network Status Print

Before using the printer for the first time, 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 screen shots 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.

For Windows 98/Me/2000: From the [Start] menu, select [Settings] \rightarrow [Printers]. For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] \rightarrow [Printers and Faxes].

2 Select the icon for your printer, then select [Printing Preferences] from the [File] menu.

For Windows 98/Me: Select the icon for your printer, then select [Properties] from the [File] menu.

3 Display the [Page Setup] sheet, then click [<u>J</u>] (Display Printer Status Window) to run the Printer Status Window.

Canon LBP5100 Printing Prei		?×
Profile: Default Settings	v 🗐 🖉	Output Method: 🚳 Print 💌
	Page Size: Output Size: Copies: Orientation	A4 Image Size Image Size
	Page Layout:	1 Page per Sheet
A4 [Scaling: Auto]	Manual Scaling Scaling:	100 👷 % [25 to 200]
View Settings	Watermark:	CONFIDENTIAL CONFIDENTIAL
	Custom Paper Size	Page Options Restore Defaults
		OK Cancel Apply Help

Ø NOTE

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

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

Options	Help		
ے Prefe	rences		
Cons	umables/Counters		~
Utility		Calibration	
Devic	e Settings	Cleaning	
Refre	esh	Network Status Print	n –
1	/ >/	Network Status Print	ש
-			
Press.			
			6
			Ś
			Ś
urrent Print	: Job My Job Operatio	n	ŝ
urrent Print	: Job My Job Operatio	n	ß
urrent Print	: Job My Job Operatio	n	ß
Title	Contents	n	
Title Documen	Contents	n	
Title Documen User Nam	Contents	n	
Title Documen	Contents	n	
Title Documen User Nam	Contents	n	



Network	k Status Pr	int	X
(j)	Prints Netw	vork Status	Print.
	ок	Cancel	

Network Status Print is printed.

Product Name	
roduct Name APT Interface Version	:LBP5100 :2.1
APT Interface Version	:Z.1 :Fast Ethernet 10/100BaseT
Tansmission Rate	:10/100Mpps
AC Address	:00:00:85:92:A9:E2
Firmware Name	:NB-C2
Tirnware Version	
ANON-MIB Version	:
rint Server Name	: CANON92A9E2
CP/IP	
IP Address	:192.168.0.215
Subnot Mask	:255.255.255.0
Gateway Address DHCP	:None set
	OFF
BOOTP RARP	:OFF
DNS Server Address	10.0.0.0
DNS Host Name	10.0.0.0
DNS Domain Name	
WINS Server Address	
WINS Host Name	
SNTP Server Name	1
Time Zone	:0:00
Daylight Saving Time	: OFF
Responses to Multicast	IGN
Becurity	
SNMPv1	1 GN
SNMPv3	:OFF
Restrict TCP/IP Printing Restrict SNMP Monitor/Set	:OFF
Restrict Multicast Discovery	OFF
Restrict MAC Address Access	OFF
Port	:IP 192.168.0.215
Canon CAPT Print Monitor	
Version	:1.41
CAPT TCP/IP Port Module	
Version	:1.41
Canon and Canon logo are trademarks	OF CANON INC.

IMPORTANT

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

Ø NOTE

If the Network Status Print is not printed properly, see "Chapter 4 Troubleshooting".

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. 2-84)

Perform the protocol settings by accessing the printer from your web browser via the network.

■ Protocol Settings Using NetSpot Device Installer (See p. 2-92)

Perform the basic protocol settings by starting NetSpot Device Installer from the CD-ROM supplied with the network board or the one installed. When configuring the DNS server etc., use the Remote UI or FTP Client.

■ Protocol Settings Using FTP Client (See p. 2-98)

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 screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Run the web browser, enter the following URL in [Location] or [Address], 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 printed in "Checking the Operations with Network Status Print" (p. 2-81) or ask your network administrator.
- Use Netscape Navigator/Communicator 4.7 or later or Internet Explorer 4.01SP1 or later as the web browser.

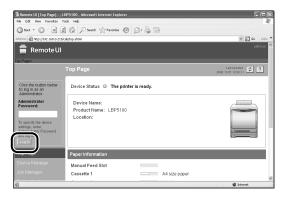
2

- You cannot connect the computer to the printer via a proxy server. If you are using a proxy server, perform the following settings. (The setting varies depending on the network environment.)
- On the settings for the proxy server of the web browser, add the IP address of the printer to [Exceptions] (The addresses that do not use the proxy server).
- · Configure the web browser so that you can use Cookie.
- If multiple Remote UIs are running simultaneously, the latest setting is effective. It is recommended that only one Remote UI should be running at a time.

Ø NOTE

Depending on the system environment, the screen for the Remote UI is not displayed. In this case, enter "http://<the IP address of the printer>/cab/top.shtml" in [Address] or [Location] to redisplay the screen.

2 Click [Log In].



Ø NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

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

Ell Remote UI [Network] File Edit View Favorite	: ;LBP5100 - Microsoft Internet Explore s Tools Help	7	_	
Gteck • O • X	2 6 Pearch Preventes (9 6.40		
Address 1 http://192.168.0	215/cab/net.shtml			🛩 💽 Go Links
盲 Remote	UI			
Top Page» Device Man	ager> Network>			
	Network			Last Up dated 2008 11/22 13:04:40 ?
Logged in as Administrator	Network Interface			
Log Out			Reset	Show Parameter List.
	Interface:	Fast Ethernet 10/1	00BaseT	
Device Manager	Transmission Rate:	10/100Mbps		
Status	MAC Address:	00 00 85 92 A9 E2		
Information	Firmware			
			Download Site	Update Firmware
Network	interface Name :	NB-C2		· · · ·
oco manager	Version :	1.XX		
6) Done				@ Internet

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

Remote UI [Network] : ; LBP5100 - Microsoft Internet Explorer File Edit Wew Favorites Tools Help		
G Back - O - K @ O Search of Pavortes @	8.8.8	
Address 🗃 http://192.168.0.215/cab/net.ahtml		🛩 💽 Go Linis
Protocol		
V 3. TCP/IP		
TODED		
Change		
Change.	192 168 0 215	
Subnet Mask :	0000	
Gateway Address :	0000	
DNS Server Address :	0000	
DNS Host Name :		
DNS Domain Name :		
SNTP Server Name :		
WINS Server Address :	0000	
WINS Host Name :		
		Copyright CANON INC. 2007 All rights reserved.
Done .		😰 Internet

5 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].

Remote UI [Change Ti Ele Edit Vew Favorite	CP/IP Protocol Settings] : ; LBP5100 - Mi	crosoft Internet Explorer	
] 🖉 🎧 🔎 Search 👷 Fevorites 🤞	a a.a.	
Address (8) Nttp://192.168.0		0 0 9 5	V 🗗 Go Links
Remote			LDP5100
-	ager> Network> Change TCP/IP Protocol	Settings>	
	Change TCP/IP Protoco	ol Settings	Last Up dated 2006 11/22 13:05:62
Logged in as Administrator.	The settings will be changed a	as follows.	OK Cencel
	Frame Type:	Ethernet II	
Top Page	A		
Device Manager	JD Address		
Status			
Information	IP Address:	192 168 0 215	
Features	Subnet Mask:	0000	
Network	Gateway Address:	0000	
Job Manager	BOOTP	OOn ⊙Off	
	RARP:	00n 00ff	
8			😰 Internet

NOTE

- Even if you are using any one of 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 any one of DHCP, BOOTP, or RARP, the values obtained from those 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 "Changing the Port," on p. 5-18.

6 Perform the settings described in the following procedure as needed. If you do not perform the settings, proceed to Step 12.

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

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

ote UI [Change TCP/IP Protocol Settings] : ;LBP5100 - Microsoft In 3 teck - 3 - 2 2 1 - Search 👷 Favorites 😕 🔗 🍃 http://192.160.0.215/cab/edit_tcpip.shtm) El c 盲 Remote UI The settings will be changed as follows Logged in as Administrator IP Ad IP Address 192 168 0 215 Information Subnet Mask 255 255 255 0 Features DHCP ○ On ⊙ Of OOn⊙Off RARP 001.00#

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

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

Ø 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, BOOTP, or RARP, the DHCP server, BOOTP daemon, or RARP daemon needs to be started up.

8 Specify the settings for [DNS Settings].

Remote III IC hange TCI	P/IP Protocol Settings] : ; LBP5100 - Micro	osoft Internet Explorer	
File Edit View Favorites			
Gteck · O · X	2 6 Disearch Stewartes @	0 6-2 m	
Address @ http://192.168.0.2			VEIG un
	DNS Settings		
	DNS Server Address:	0000	
	DNS Dynamic Update:	⊖On ⊚Off	
	DNS Host Name:		
	DNS Domain Name:		
	Diva Domain Ivanie.		
	<u></u>		
	WINS Settings		
	<u></u>	⊙On ⊖Off	
	WINS Settings	⊙ On ⊖ Off 0000	
	WINS Settings WINS Resolution :		
	WINS Settings WINS Resolution : WINS Server Address :		
	WINS Settings WINS Resolution : WINS Server Address : WINS Host Name : Scope ID :		
	WINS Settings WINS Resolution : WINS Revolution : WINS Host Name : Scope ID :		
	WINS Settings WINS Resolution : WINS Server Address : WINS Host Name : Scope ID :		

- □ Enter the IP address of the DNS server in [DNS Server Address].
- When using the DNS Dynamic Update function, set [DNS Dynamic Update] to [On].
- □ Specify the host name to be added to the DNS server in [DNS Host Name].
- 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.

NOTE 🖉

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

le Edit Yew Favorites Icol			
	6 Poseth Stavertes @	8.9 3	
stress 📓 http://192.168.0.215/cab	u/edit_tcpip.shtni		🛩 🔁 Go
	DNS Settings		
	DNS Server Address:	192 168 0 199	
	DNS Dynamic Update:	O0n ⊚0ff	
	DNS Host Name:		
	DNS Domain Name		
	DNS Domain Name:		
	DNS Domain Name:		
	WINS Settings		_
		⊗0n ⊘0ff	
	WINS Settings	⊘ 0n ⊖ 0ff 0000	
	WINS Settings WINS Resolution :		
	WINS Settings WINS Resolution : WINS Server Address :		
	WINS Settings WINS Resolution : WINS Server Address : WINS Host Name : Scope ID :		
	WINS Settings WINS Resolution : WINS Server Address : WINS Host Name : Scope ID :		
	WINS Settings WINS Resolution : WINS Server Address : WINS Host Name : Scope ID :		

• When using WINS Resolution

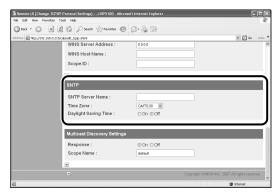
- □ Set [WINS Resolution] to [On].
- Lenter the IP address of the WINS server in [WINS Server Address].
- D Enter the host name to be added to the WINS server in [WINS Host Name].
- □ In [Scope ID], enter the Scope ID of the NetBIOS name that you want to search for from the WINS server.

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

• When not using WINS Resolution

□ Set [WINS Resolution] to [Off].

10 Specify [SNTP] when using SNTP Client to obtain the time.



• If you have specified the settings for DNS in Step 8

- D 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].

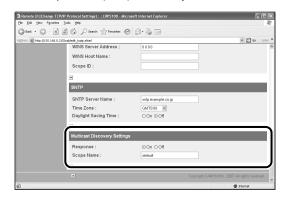
NOTE

- When 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. Select [Preferences] from the [Options] menu.
 - **3.** Set [Monitor Printer Status] in the [Preferences] dialog box to [Always], 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. The period in which this is applied is called "Daylight Saving Time."

11 Specify the settings for [Multicast Discovery Settings].

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.



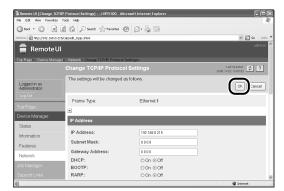
- When setting the printer so that it responds to searches that used the multicast discovery function
 - □ Set [Response] to [On].

2

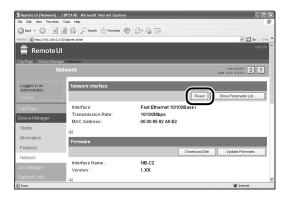
- □ In [Scope Name], enter the name of the scope, used in cases as searching for a specific device through multicast from such utility software as NetSpot Device Installer.
- When setting the printer so that it does not response to searches that used the multicast discovery function

□ 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.

🧷 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).

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. When configuring the DNS server etc., use the Remote UI or FTP Client.

IMPORTANT

If you are using Windows XP Service Pack 2 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 such a printer, 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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.

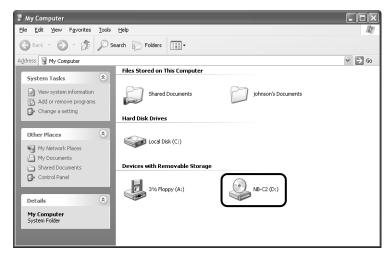
- \NetSpot_Device_Installer\Windows

Ø NOTE

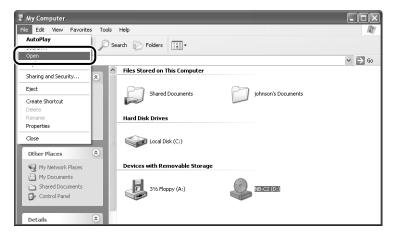
- The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.
- The screen shots of NetSpot Device Installer used in this manual may be different from those actually you see on the screen.
- This section describes the procedure for running NetSpot Device Installer from the CD-ROM supplied with the network board. 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. 3-35.
 - If NetSpot Device Installer is added to the [Start] menu on the installation
 From the [Start] menu, select [Programs] ([All Programs] for Windows XP/Server 2003)
 → [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.

2

- **1** Insert the CD-ROM supplied with the network board into the CD-ROM drive.
- **2** Open [My Computer], then select the CD-ROM drive.



3 Select [Open] from the [File] menu.

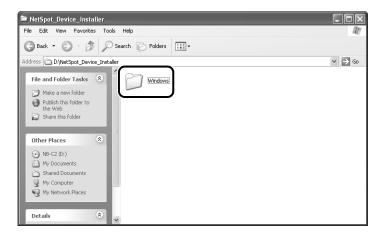


4 Double-click the [NetSpot_Device_Installer] folder.

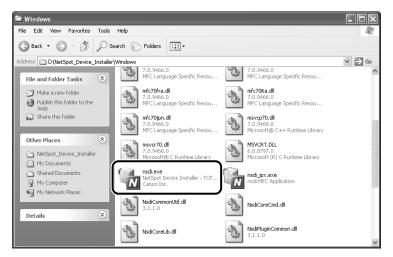


5 D

Double-click the [Windows] folder.



6 Double-click [nsdi.exe].



If the [License Agreement] dialog box appears, click [Yes].

7 Select the printer.

iroup Device View Toi All Devices		Charless	Densitivetti Manna	Laution	TO Address
Unused Devices		Ready	L8P5100		192.168.0.215
	<u> </u>				

IMPORTANT

If you are using Windows XP Service Pack 2 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 such a printer, you need to add "NetSpot Device Installer" to Windows Firewall in advance. Perform either of the following procedures. 2

- 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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.

- \NetSpot_Device_Installer\Windows

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

All C	New	Ctrl+N	è	Status	Product Name	Location	IP Address
Unu	IP Address Batch Settings			Ready	LBP5100		192.168.0.215
-	Initial Settings						
	IP Address Settings	•					
	Protocol Settings		n				
Y			<u>ب</u>				
	TCP/IP Port Information						
	Change Password Print Device Information						
_	Restore to Default Settings						
_	Web Link						
	Delete						
	Move	•					
	Сору	•					
			-				

9 Perform the protocol settings.

Frame Type :	Fat	
P Address Setting with :	Manual Setting	
IP Address :	192.168.0.1	
Subnet Mask :	255 . 255 . 255 . 0	
Gateway Address :	192 . 168 . 0 . 1	
Broadgast Address :	192 . 168 . 0 . 255	
IPX		
Frame Type :	Disabled	
Preferred Frame Type :	Disabled	
AppleTalk		
	Disabled	•
Phase Type :	1	

[IP Address Setting with]: Select the method for setting the IP address. Manual Allows you to aposify the ID address

	[Manual Setting]:	Allows you to specify the IP address directly. 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 started up.)
	[BOOTP]:	Obtains an IP address using BOOTP. (The BOOTP daemon needs to be started up.)
	[DHCP]:	Obtains an IP address using DHCP. (The DHCP server needs to be started up.)
[IP Address]:	Enter the IP ac	ddress of the network board.
Options to be specified as	needed	
[Subnet Mask]:	Enter the subn network.	et mask that is being used on the TCP/IP
[Gateway Address]:	Enter the gate	way address that is being used on the TCP/IP

NOTE

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

network.

- If [BOOTP] or [DHCP] is selected, you cannot enter any value 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 "Changing the Port," on p. 5-18.

10 After completing the settings, click [OK].

11 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.

For Windows XP/Server 2003: From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt]. For Windows 2000: From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt]. For Windows Me: From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].

For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS 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

NOTE

If you are not sure about the IP address of the printer, refer to the Network Status Print printed in "Checking the Operations with Network Status Print" (p. 2-81) or ask your network administrator.

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

• If the password is specified for the printer

Enter the password.

If the password is not specified for the printer

Do not enter the password, but press the [ENTER] key on your keyboard.

NOTE

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

get config <File Name>

The config file is downloaded. The letters entered for <File Name> become the name of the downloaded config file.

2

IMPORTANT

For Windows 98/Me, do not enter "config" for <File Name>.

NOTE

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.

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

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

Ø NOTE

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 "Changing the Port," on p. 5-18.

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

put <File Name> CONFIG

Ø NOTE

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

7 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).

8 Enter "quit", then press the [ENTER] key on your keyboard.

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. 2-100)
- Uninstalling Canon CAPT Print Monitor (See p. 2-102)
- Uninstalling NetSpot Device Installer (See p. 2-104)

IMPORTANT

- If the manuals have already been installed, you can also uninstall the installed manuals by uninstalling the printer driver with the Uninstaller.
- If the printer driver was installed on Windows 2000/XP/Server 2003 logged on by a user who is a member of Administrators, it cannot be uninstalled from the computer logged on by anyone other than users who are members of Administrators. Be sure to log in as a member of Administrators before the uninstallation.
- 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 Service Pack 2 or another operating system equipped with Windows Firewall, your printer is registered in the [Exceptions] sheet in the [Windows Firewall] dialog box. When you uninstall the CAPT software using the uninstaller, the settings for the [Exceptions] sheet in the [Windows Firewall] dialog box are also removed.

Uninstalling the Printer Driver

NOTE

The screen shots 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

2

2 From the [Start] menu, select [All Programs] → [Canon Printer Uninstaller] → [Canon LBPxxxx Uninstaller]. (xxxx varies depending on the printer.)

For Windows 98/Me/2000: From the [Start] menu, select [Programs] \rightarrow [Canon Printer Uninstaller] \rightarrow [Canon LBPxxxx Uninstaller]. (xxxx varies depending on the printer.)

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

Delete Printer To start deleting, select the print	nter you want to delete and then	click [Delete].
Finterivanie	Driver Name	Version
Canon LBP5100	Canon LBP5100	1.00
	Select All	Delete
		Exit

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].

Warnin	3
	Are you sure you want to delete the printer 'Canon LBP5100'?
	Yes No

If the printer is being 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.

Warning		Ś
	The 'Canon LBPS100' printer is being shared with 'CanonLBP'. This printer may now be in use. If you delete it, the printer will no longer be shared. Are you sure you want to delete it?	
	Yes	

Uninstallation starts. Please wait a moment.

5 Click [Exit].

Printer Name	Driver Name	Versio
		Delete
	Select All	

Ø NOTE

If the CAPT software cannot be uninstalled, see "When 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.

NOTE

The screen shots 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

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

For Windows 98/Me/2000: From the [Start] menu, select [Settings] \rightarrow [Control Panel], and then double-click [Add/Remove Programs]. For Windows Server 2003: From the [Start] menu, select [Control Panel] \rightarrow [Add or Remove Programs].

2

3 Select [Canon CAPT Print Monitor] in the [Add or Remove Programs] dialog box, then click [Change/Remove].

For Windows 98/Me: Select [Canon CAPT Print Monitor] in the [Add/Remove Programs Properties] dialog box, then click [Add/Remove]. For Windows 2000: Select [Canon CAPT Print Monitor] in the [Add/Remove Programs] dialog box, then click [Change/Remove].

🐻 Add or Rei	move Programs		
5	Currently installed programs:	Show updates	Sort by: Name
Change or Remove Programs	🛱 Canon CAPT Print Monitor 1.41		
	To change this program or remove it from your co	mputer, click Change/Remove.	Change/Remove
Add New			
Programs			
Add/Remove			
<u>Windows</u> Components			
(C)			
Set Program Access and			
Defaults			

4 The dialog box that asks you whether the uninstallation can be started is displayed. Click [Yes].

Canon (CAPT Print Monitor	X
2	Uninstallation cannot be stopped once it starts. Are you sure you want to start uninstallation	on?
	Yes No	

Uninstallation starts. Please wait a moment.

5 If the uninstallation is completed successfully, the dialog box that informs you of the completion of the uninstallation is displayed. Click [OK].

Canon C	APT Print Monitor	X
Þ	Uninstallation is comple	te.
(ОК	

Uninstalling NetSpot Device Installer

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

For Windows 98/Me/2000: From the [Start] menu, select [Programs] \rightarrow [NetSpot Device Installer] \rightarrow [Uninstall NetSpot Device Installer].

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

For Windows 2000/XP/Server 2003, the uninstallation is completed when Command Prompt exits.

For Windows 98/Me, the uninstallation is completed when the message <NetSpot Device Installer has been uninstalled successfully.> is displayed.

NOTE

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.

2

Managing the Printer in the Network **3** Environment

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

Managing the Printer	3-2
Managing the Printer Using the Remote UI	3-3
Restricting the Users Who Can Print	3-4
Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol	3-8
Restricting the Users Who Can Perform the Multicast Discovery	3-13
Restricting the Devices That Can Access with MAC Addresses	3-17
Obtaining/Checking the Security Access Logs	3-21
Initializing the Network Settings	3-28
Managing the Printer Using FTP Client	3-31
Managing the Printer Using NetSpot Device Installer	3-34
Configurable Devices	3-34
Installing NetSpot Device Installer	3-35
Running NetSpot Device Installer	3-40
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CHAPTER

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 history, and configure the network or security settings.

■ NetSpot Device Installer (See p. 3-34)

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

■ FTP Client (See p. 3-31)

FTP Client allows you to specify the settings for various information about the device and 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. 3-4)
- Restricting the Users Who Can Monitor/Change the Settings Using the SNMP Protocol (See p. 3-8)
- Restricting the Users Who Can Perform the Multicast Discovery (See p. 3-13)
- Restricting the Devices That Can Access with MAC Addresses (See p. 3-17)
- Obtaining/Checking the Security Access Logs (See p. 3-21)
- Initializing the Network Settings (See p. 3-28)

You can also perform these management options using FTP Client.

- If you are not sure about the IP address of the printer, refer to the Network Status Print printed in "Checking the Operations with Network Status Print" (p. 2-81) or ask your network administrator.
- Use Netscape Navigator/Communicator 4.7 or later or Internet Explorer 4.01SP1 or later as the web browser.
- You cannot connect the computer to the printer via a proxy server. If you are using a proxy server, perform the following settings. (The setting varies depending on the network environment.)
- On the settings for the proxy server of the web browser, add the IP address of the printer to [Exceptions] (The addresses that do not use the proxy server).
- Configure the web browser so that you can use Cookie.
- If multiple Remote UIs are running simultaneously, the latest setting is effective. It is recommended that only one Remote UI should be running at a time.

NOTE

Depending on the system environment, the screen for the Remote UI is not displayed. In this case, enter "http://<the IP address of the printer>/cab/top.shtml" in [Address] or [Location] to redisplay the screen.

Restricting the Users Who Can Print



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

NOTE

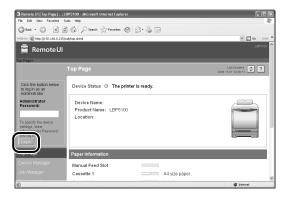
- When you try to print from a computer whose IP address is rejected from being used for printing, the message <Cannot Print> is displayed.
- When you are using a computer whose IP address is rejected from being used for printing, some options cannot be set from the [Options] menu in the Printer Status Window.
- The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Run the web browser, enter the following URL in [Location] or [Address], 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/

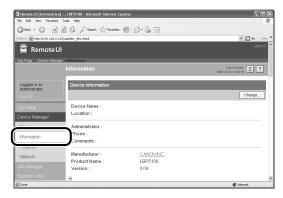
2 Click [Log In].



NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

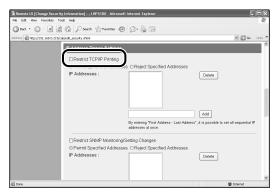
3 Click [Information] from the [Device Manager] menu.



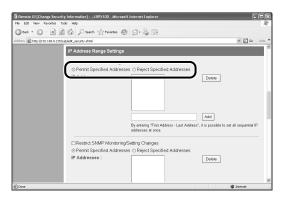
4 Click [Change] on the right of [Security].

🗿 Remote UI [Information] : ; LBP5100 - Microsoft Internet Explorer		
File Edit View Favorites Tools Help C Back • (2) · (2) (2) (2) (2) Favorites (2)	Ø• è	121
Address 👜 http://192.168.0.215/cab/dev_info.shtml		🛩 💽 Go Linis 🎽
Security		Change
Administrator Password :	Not Specified	\Box
SNMP Settings		
SNMP v. 1 : Access Rights : Community Name :	On Read and Write public	
SNMP v. 3 :	Off	
IP Address Range Settings		
TCP/IP Printing : Access Restrictions : IP Addresses :	Not Restricted Permit Specified Addresses	
Done		🐨 Internet

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



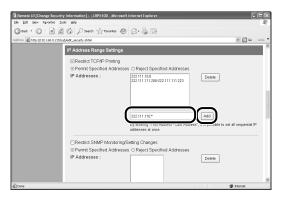
6 Select [Permit Specified Addresses] or [Reject Specified Addresses].



Ø NOTE

When [Permit Specified Addresses] is selected, only users specified in [IP Addresses] are permitted to perform printing. When [Reject Specified Addresses] is selected, only users specified in [IP Addresses] are rejected from performing printing.

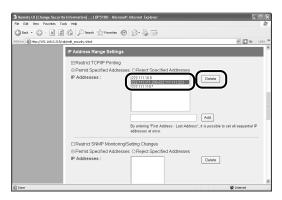
7 Enter the IP address of a computer of which you want to permit or reject printing, and then click [Add].



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 and click [Delete].



8 Click [OK].

2 Remote UI [Change Sect File Edit Vew Favorites	urity Information] : ; LBP5100 · Microsoft Tools Heb	Internet Explorer	
	2 6 Dearch gravartes @	8.2 3	-
Address 1 http://192.168.0.2			v 🗗 Go Links »
盲 Remote U	ı		L0P5100
Top Page> Device Manag	er> Information> Change Security Informati	on>	
			Last Up faited 2006 11/22 13:27:57
Logged in as Administrator.	The settings will be changed as f	iollows.	
	Administrator Password		
Top Page Device Manager Status	Current Password : New Password :		
Information	Confirm :		
Features	A		
Network	SNMP Settings		
Job Manager	SNMP v. 1 : Access Rights ;	⊙ On ◯ Off ◯ Read-only ⊙ Read and Write	
	Access Rights :	O Read-only	
@ Done			@ Internet

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

Ø NOTE

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

1 Run the web browser, enter the following URL in [Location] or [Address], 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/

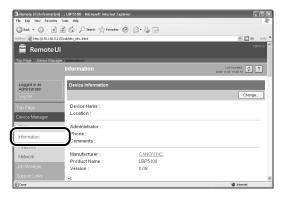
2 Click [Log In].

File Edit View Favorites	BP5100 - Microsoft Internet Explorer cols Help	
Greek · 🔊 · 😹	🕼 🔎 Search 👷 Pervantes 🧐 🔗 - 🍓 🖂	
Address 10 http://192.168.0.215	cab/top.shtml	🛩 🛃 Go Lin
着 Remote UI		
Top Page>		
	Top Page	Last Up dated 2008 11/27 12:28:11
Click the button below to log in as an Administrator.	Device Status 🔍 The printer is ready.	
Administrator Password:	Device Name:	
	Product Name: LBP5100	
To specify the device settings, enter	Location:	
Administrator Password		
Log h		
	Paper Information	
	Manual Feed Slot	
	Cassette 1 A4 size paper	
a		10 Internet

NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

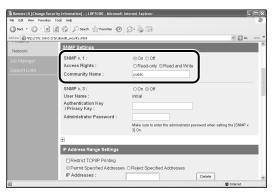
3 Click [Information] from the [Device Manager] menu.



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

Remote UI [Information] : ; LBP5100 - Micro File Edit Vew Favorites Tools Heb	soft Internet Explorer		
G teck	Pavortes @	Ø· 🎍 🖻	45
Address a http://192.168.0.215/cab/dev_info.shtml			Y 🔂 Go Linis »
Security			Change
Administrat	or Password :	Not Specified	
SNMP Setti	ngs		
SNMP v. 1 : Access Rig Community		On Read and Write public	
SNMP v. 3 :		011	
IP Address	Range Settings		
TCP/IP Prim Access Res IP Addresse	trictions :	Not Restricted Permit Specified Addresses	
@ Done			internet

5 Specify the SNMPv1 protocol.



When using the SNMPv1 protocol

- Set [SNMPv1] to [On].
- □ For [Access Rights], select in which mode the SNMPv1 agent can operate, [Read-only] or [Read and Write].
- □ Specify the community name of SNMP in [Community Name].

IMPORTANT

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

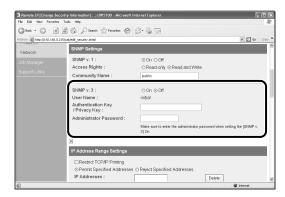
• When not using the SNMPv1 protocol

Set [SNMPv1] to [Off].

IMPORTANT

If [SNMPv1] is set to [Off], you may not be able to use Canon utility software. Consult the administrator of the printer before selecting [Off].

6 Specify the SNMPv3 protocol.



When using the SNMPv3 protocol

- Set [SNMPv3] to [On].
- □ Specify the authentication key or privacy key to be used in SNMPv3 in [Authentication Key/Privacy Key].
- □ Enter the administrator password for the Remote UI in [Administrator Password].

IMPORTANT

If the settings for the SNMPv3 protocol is specified using 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.

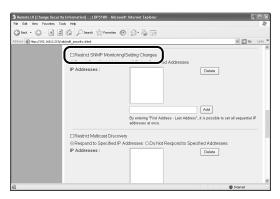


- The user name to be used for the SNMPv3 protocol is set to "initial".
- If the password for the Remote UI is not specified, it is not required to enter a password in [Administrator Password].

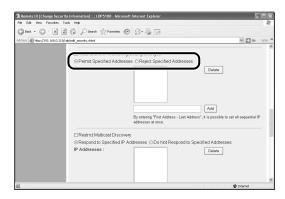
• When not using the SNMPv3 protocol

Set [SNMPv3] to [Off].

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



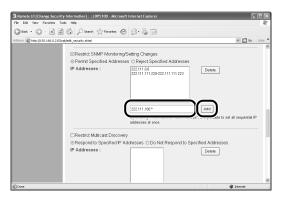
8 Select [Permit Specified Addresses] or [Reject Specified Addresses].



Ø NOTE

When [Permit Specified Addresses] is selected, only users specified in [IP Addresses] are permitted to monitor/change the settings. When [Reject Specified Addresses] is selected, only users specified in [IP Addresses] are rejected from monitoring/changing the settings.

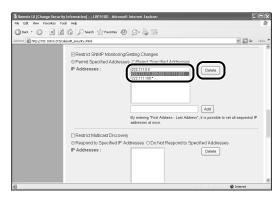
9 Enter the IP address of a computer of which you want to permit or reject monitoring/changing the settings for the device, and then click [Add].



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 and click [Delete].



10 Click [OK].

Remote UI [Change Secu	rity Information) : ; LBP5100 · Microsoft	Internet Explorer	
File Edit View Favorites	Tools Help		R.
Gteck • 🕤 · 😹	🗿 🕼 🔎 Search 👷 Pevontes 🥝	Ø · 🎍 🖻	
Address 10 http://192.168.0.21	5(cab,ledit_security.shtnl		🗸 💽 Go Links 🎽
葿 RemoteUI			LORSTOD
Top Page> Device Manage	Information> Change Security Information	au>	
			Last Up dated 2008 11/22 13:27:57
Logged in as Administrator.	The settings will be changed as fo	ollows.	
Log Cut	Administrator Password		
Top Page	Current Password :		
Device Manager	New Password :		
Status	Confirm :		
Information			
Features	•		
Network	SNMP Settings		
Job Manager	SNMP v. 1 :	⊙On ⊖Off	
	Access Rights :	○Read-only	
Support Links	Community Name -	millio	×
@ Done			Internet

Restricting the Users Who Can Perform the Multicast Discovery

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

1 Run the web browser, enter the following URL in [Location] or [Address], 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/

2 Click [Log In].

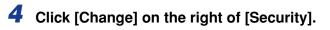
Remote UI [Top Page] : ; I Fie Edit Vew Favorites 1	BP5100 - Microsoft Internet Explorer	
	Seath Structes @ S	
Address @ http://192.168.0.215		V 🔂 Go Links
盲 Remote UI		LBP5100
Top Page>		
		Last Up dated 2000 11/27 12 28:11
Click the button below to log in as an Administrator Administrator Password: To specify the device settings, enter Administrator Password	Device Status The printer is ready. Device Name: Product Name: LBP5100 Location:	
Log h	Paper Information	
	Manual Feed Slot	
	Cassette 1 A4 siz	e paper
8		Internet

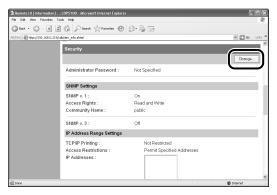
NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

3 Click [Information] from the [Device Manager] menu.

File Edit Vew Favorite	on]:;LBP5100 · Microsoft Internet Ex is Tools Help	piorer	88
() teck • () • [H	2 6 Disarch Streventes	0 8.2 1	
Address @ http://192.168.0			S Go Links
盲 Remote			LEPSIO
Top Page> Device Man	ager> Information>		
	Information		Last Up Gated 2000 11/22 13 20:10 2
Logged in as Administrator	Device Information		
			Change
	Device Name :		
Device Manager	Location :		
. A.L.	Administrator :		
Information	Phone :		
	Comments :		
r oatteos	Manufacturer :	CANON INC.	
Network	Product Name :	LBP5100	
	Version :	0.09	
@] Done			🕲 internet

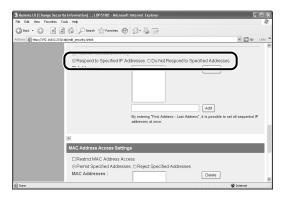




5 Select the [Restrict Multicast Discovery] check box.

a Remote UI (Change Securit	y Information] : ; LBP5100 - Microsoft Internet Explorer	
File Edit View Favorites To		11
Greek · D · H 2	🕼 🔎 Search 👷 Ferontes 🧐 🔗 - 🌺 🖂	
Address 🗃 http://192.168.0.215/c	bledt_security.shtnl 🗸 🛃 Go	inks 30
	Restrict Multicast Discovery sees ODo Not Respond to Specified Addresses	-
	IP Addresses : Evident	
	Add By entring "First Address - Last Address", it is possible to set all sequential IP addresses at once.	
	MAC Address Access Settings	
	Restrict MAC Address Access Permit Specified Addresses MAC Addresses	
@ Done	Usieve Statemet	

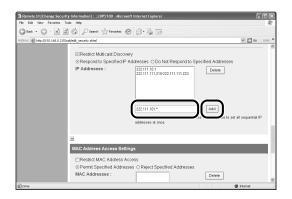
6 Select [Respond to Specified IP Addresses] or [Do Not Respond to Specified Addresses].





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

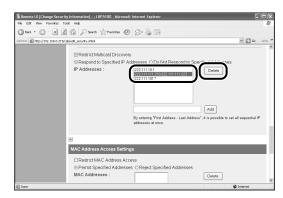
7 Enter an IP address that can receive or cannot receive responses to searches that used the multicast discovery, and then click [Add].



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 and click [Delete].



8 Click [OK].

Remote UI [Change Security Information] : ;	BP5100 - Microsoft Internet Explorer	
File Edit View Favorites Tools Help		Rt.
G teck • 🕑 · 🗷 🖉 🏠 🔎 Searc	🕆 Pevantes 🚱 🔗 🌺 🖂	
Address Addres		🛩 💽 Go Links 🍽
盲 Remote UI		L0P5100
Top Page» Device Manager» Information» Chi	ge Security Information>	2
Change See		Last Up fated 2006 11/22 13 27:67
Logged in as Administrator.	Il be changed as follows.	
Administrat	r Password	
Top Page Current Page	sword :	
Device Manager New Passw	ord :	
Status Confirm :		
Information		
Features		
Network SNMP Settin	gs	
Job Manager SNMP v. 1 :	⊙On ⊖Off	
Access Rig Support Links	ts: ORead-only @Read and Write	
Communit	Name - mélie	M Internet

Restricting the Devices That Can Access with MAC Addresses

NOTE

- When you try to access to print etc. from a computer whose MAC address is rejected from accessing the printer, the message <Network Board Error> appears in the Printer Status Window.
- The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.

Run the web browser, enter the following URL in [Location] or [Address], 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/

2 Click [Log In].

	BP5100 - Microsoft Internet Explorer	
File Edit View Favorites		42
	🕼 🔎 Search 👷 Pavartes 🧐 🔗 - 🌺 📄	
Address Address http://192.168.0.215	cab/top.shtml	💌 🛃 Go Linis
葿 Remote UI		L8P5100
Top Page>		
		Last Up faited 2006 11/27 12:28:11 2
Click the button below to log in as an Administrator.	Device Status O The printer is ready.	
Administrator Password:	Device Name: Product Name: LBP5100	
To specify the device settings, enter Administrator Password	Location:	1,000
Log h		
- Open ago	Paper Information	
	Manual Feed Slot	
	Cassette 1 A4 s	size paper
<u>ē</u>	• · · ·	🕲 Internet

NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

3 Click [Information] from the [Device Manager] menu.

Remote UI [Informatio	n] : ;LBP5100 - Microsoft Internet Ex Tools Help	plorer	
	2 6 Poseth Preventes	a a.a.	
Address @ http://192.168.0.			v 🖸 Go Links
葿 Remotel			UBPS100
Top Page> Device Mana	ger> Information>		
	Information		Last Up dated 2006 11/22 13/26:10 ?
Logged in as Administrator	Device Information		
Log Cut			Change
Top Page	Device Name :		
Device Manager	Location :		
~ · · · ·	Administrator :		
Information	Phone :		
	Comments :		
i oduroo	Manufacturer :	CANON INC.	
Network	Product Name :	LBP5100	
Job Manager	Version :	0.09	
Support Links			
(a) Done			(i) Internet

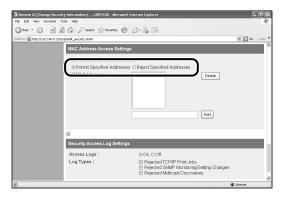
4 Click [Change] on the right of [Security].

d: Not Specified
Charge
rd : Not Specified
On
Read and Write
public
Off
ings
Not Restricted
Permit Specified Addresses

5 Select the [Restrict MAC Address Access] check box.

Remote UI [Change Security Information] : ; LBP5100 - Microsoft File Edt Wew Favorites Tools Help	t Internet Explorer
🕜 Back • 🐑 - 🖹 🖉 🎲 🔎 Search 📩 Pavantes 🤗	
MAC Address Access Sciller	as see
MAC Addresses :	Deve
Security Access Log Setting	5
Access Logs : Log Types :	⊙ On OOff ⊙ Rejected TCP/IP Print Jobs ⊡ Rejected SNMP Monitoring/Setting Changes ⊘ Rejected Multicast Discoveries
â	🕸 Internet

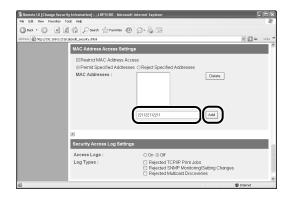
6 Select [Permit Specified Addresses] or [Reject Specified Addresses].



When [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 initialise the network settings. (See "Initializing the Network Settings," on p. 5-12)

7 Enter the MAC address of a device of which you want to permit or reject accessing, and then click [Add].

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



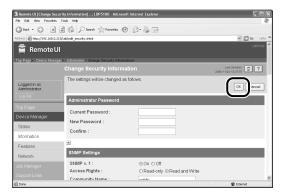
Ø NOTE

Up to 20 MAC addresses can be entered.

To delete a MAC address, select the MAC address and click [Delete].

Remote UI [Change Security Information] : ; LBP5100 - Micros File Edit View Favorites Tools Heb	soft Internet Explorer
Concer	a a.l.
Address all http://192.168.0.215/cabledt.security.shtml	
MAC Address Access Sett	
©Restrict MAC Address A ⊗Permt Specified Addres MAC Addresses :	Addresses
Security Access Log Settin	ngs
Access Logs :	⊖On ⊚Off
Log Types :	Rejected TCP/IP Print Jobs Rejected SNMP Monitoring/Setting Changes Rejected Multicast Discoveries
ð	🕲 Internet

8 Click [OK].



Obtaining/Checking the Security Access Logs

Obtaining a 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

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

Run the web browser, enter the following URL in [Location] or [Address], 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/

2 Click [Log In].

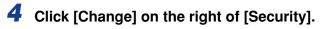
Remote UI [Top Page] : ; Fie Edit Vew Favorites	BP5100 - Microsoft Internet Explorer	
	i i Search 👷 Percentes 🧐 🔗 = 🌺 🚃	
Address Athp://192.168.0.215	ab/top.shtml	💌 💽 Go Link
📔 Remote UI		
Top Page>		
	Top Page	Last Up dated 2000 11/27 12 28:11
Click the button below to log in as an Administrator.	Device Status O The printer is ready.	
Administrator Password:	Device Name: Product Name: LBP5100 Location:	
To specify the device settings, enter Administrator Password and rog in Log in		
_ ب	Paper Information	
	Manual Feed Slot	
	Cassette 1 A4 size pag	per
a	· · · ·	@ Internet

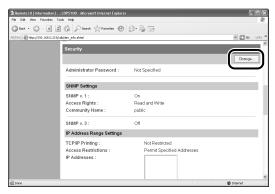
NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

3 Click [Information] from the [Device Manager] menu.

El Remote UI Information	on] : ; LBP5100 - Microsoft Internet Ex is Tools Heb	plorer	
	2 6 Dearch Streventes	a a.A.	
Address @ http://192.168.0			v 🖾 Go Linis
葿 Remote			LEPS100
Top Page» Device Man	ager> Information>		
	Information		Last Up fabed 2006 11/22 13 25:10 ?
Logged in as Administrator	Device Information		
Log Cut			Change
Top Page	Device Name :		
Device Manager	Location :		
C1.1	Administrator :		
Information	Phone :		
1.000000	Comments :		
Network	Manufacturer :	CANON INC.	
	Product Name :	LBP5100	
	Version :	0.09	
@] Done			1 Internet





5 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.

A Remote UI [Change Securit	ty Information] : ; LBP5100 - Microsoft	Internet Explorer		
File Edit Wew Favorites To	xols Help			12
Gook · O · N 2	🕼 🔎 Search 👷 Favorites 🕲	B		
Address 👜 http://192.168.0.215/c	ab/edit_security.shtml		✓ € 60	Links »
	O Permit Specified Addresses	 Reject Specified Addresses 		^
	MAC Addresses :	Delete		
		Add		
	Requirity Assess Log Cattings			- 11
	Access Logs :	⊖ On ⊛ Off		
		CP/IP Print Jobs		
		 Rejected SNMP Monitoring/Setting Changes Rejected Multicast Discoveries 		
		Copyright CANON INC. 2007	All rights reserv	ed. 🗸
Done			🖉 Internet	

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

Control Contro Control Control			nternet Explorer		
Assess @ rep.proc.ten.21trokhed_assest-red					R
	Gtest · O · N 2	1 6 Psearch Proventes @			
MAC Addresses : Date Addresses : Addresses : Addresse	Address Address Http://192.168.0.215/c	cab/edit_security.shtnl		¥ 🛃 60 ⊔r	85 ³⁹
			O Reject Specified Addresses		^
		MAC Addresses :	Delete		
Security Access Log Settings Log Types: Rejected TCMP First, Mos Rejected SNMP MantoningSetting Changes Rejected Multicast Discoveries Copyright CANON INC. 2007 All rights reserved			Add		
Log Types : Rejected TCP/IP Print Jobs Rejected TSN/IP Mint Jobs Rejected SN/IP Mint Jobs Rejected SN/IP Mint Jobs Rejected SN/IP Mint Jobs Rejected Millicas El societaria					
Rejected SNMP Monitoring/Setting Changes Rejected Multicast Discovers Copyright CANON INC. 2007 All rights reserved Copyright CANON INC. 2007 All rights reserved		Security Access Log Settings			
Copyright CANON INC. 2007 All rights reserved.			Rejected SNMP Monitoring/Setting Changes		
		-	Convribt CANON INC. 2007, AL	Il riphts reserved	
	@]Done			Internet	×

Options to be specified

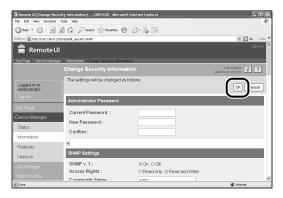
[Rejected TCP/IP Print Jobs]: The security access log is recorded when access from a user who is rejected to perform the TCP/IP printing is blocked.

[Rejected SNMP Monitoring/ Setting Changes]:	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.

NOTE

You can display, [Save], or [Clear] the obtained security access logs in [Security Access Log] 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. 3-25.

7 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.

Ø NOTE

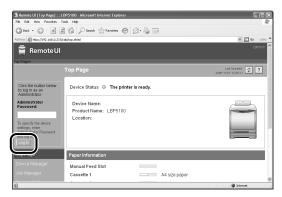
The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.

1 Run the web browser, enter the following URL in [Location] or [Address], 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/

2 Click [Log In].



NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

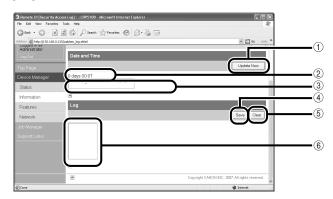
3 Click [Information] from the [Device Manager] menu.

🗿 Remote UI [Informat	ion] : ;LBP5100 - Microsoft Internet Expl	prer	
File Edit View Favorit	ces Tools Help		RY
Greek • 🕥 · 🛓	🖻 🕼 🔎 Search 👷 Favorites 🤌	9 B 🕹 🗟 🖻	
Address Address Address	0.215/cab/dev_info.shtni		🛩 🛃 Go Linis '
葿 Remote	UI		L0P5100
Top Page> Device Mai	nager> Information>		
			Last Up dated 2008 11/22 13:28:10
Logged in as Administrator	Device Information		
Log Out			Change
Top Page	Device Name :		
	Location :		
Device Manager			
~~~~	Administrator :		
Information	Phone :		
monnearon	Comments :		
1.0000100			
Network	Manufacturer :	CANON INC.	
	Product Name :	LBP5100	
	Version :	0.09	
Support Links			~
@ Done			@ Internet

# **4** Click [Display Log] under [Security].

Remote UI [Information] : ; LBP5100 - Microso	ft Internet Explorer	. Ex
File Edit View Favorites Tools Help		RI III
Gook · O · N @ (A Post	Travates 🕝 🖉 🎍 🖻	
Address Addres		Y 🔂 Go Links X
MAC Addres	s Access Settings	^
MAC Addres Access Rest MAC Addres	rictions : Permit Specified Addresses	
Security Acc	ess Log Settings	
Access Logs Log Types :	: Off Rejected TCP/IP Print Jobs Rejected SNVP Monitoring/Setting Changes Rejected Mubicast Discoveries	
		Display Log.
	Copyright CANON INC. 20	07 All rights reserved.
a Done		@ Internet

# 5 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 any 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.

When 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 (any one of [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 any method from among 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 print server 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.

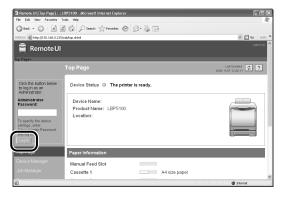
### NOTE

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

## 1 Run the web browser, enter the following URL in [Location] or [Address], 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/

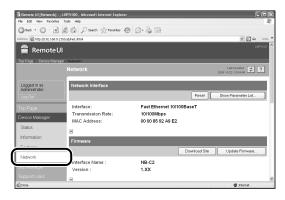
# 2 Click [Log In].



## NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

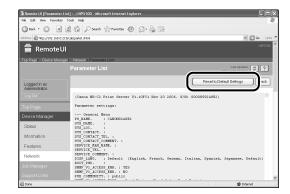
# **3** Click [Network] from the [Device Manager] menu.



## **4** Click [Show Parameter List] in [Network Interface].

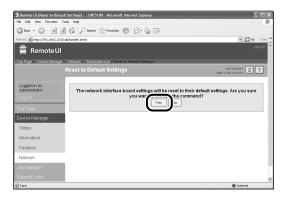
Remote UI [Network] :     File Edit Vew Favorites	;LBP5100 - Microsoft Internet Explore	1			
					142
	2 6 Poerch Staventes (	8 × 8 8			inis ×
Address Address Http://192.168.0.2					-
📄 Remote U	I				
Top Page Device Mana	er> Network>				а.
	Network			Last Up faited 2000 11/22 13:04:49 2	ו
Logged in as Administrator	Network Interface		6		
Log Out			Reser	Show Parameter List	J)
	Interface:	Fast Ethernet 10/100B	aseT		
Device Manager	Transmission Rate:	10/100Mbps			
Status	MAC Address:	00 00 85 92 A9 E2			
Information	A				
	Firmware				
Features			Download Site	Update Firmware	1
Network	Interface Name :	NB-C2			2
	Version :	1.XX			
Done				internet	-

# **5** Click [Reset to Default Settings]



# **6** Clicking [Yes] initializes the network settings.

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



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

## 1 Run Command Prompt or MS-DOS Prompt.

For Windows XP/Server 2003: From the [Start] menu, select [All Programs]  $\rightarrow$  [Accessories]  $\rightarrow$  [Command Prompt].

For Windows 2000: From the [Start] menu, select [Programs]  $\rightarrow$  [Accessories]  $\rightarrow$  [Command Prompt].

For Windows Me: From the [Start] menu, select [Programs]  $\rightarrow$  [Accessories]  $\rightarrow$  [MS-DOS Prompt].

For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS 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

## Ø NOTE

If you are not sure about the IP address of the printer, refer to the Network Status Print printed in "Checking the Operations with Network Status Print" (p. 2-81) or ask your network administrator.

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

### • If the password is specified for the printer

Enter the password.

### • If the password is not specified for the printer

 $\hfill\square$  Do not enter the password, but press the [ENTER] key on your keyboard.

## Ø NOTE

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

get config <File Name>

The config file is downloaded. The letters entered for <File Name> become the name of the downloaded config file.

### 🕛 IMPORTANT

For Windows 98/Me, do not enter "config" for <File Name>.

### Ø NOTE

- 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. 5-29.
- 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.

## **5** Using Notepad, etc., edit downloaded the config file.

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

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

put <File Name> CONFIG

### NOTE

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

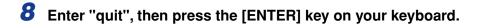
# 7 Enter the following command, then press the [ENTER] key on your keyboard to reset the network board.

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).



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

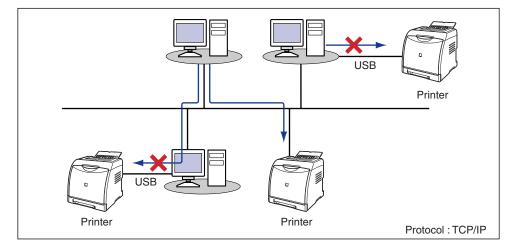
Command Prompt or MS-DOS Prompt exits.

# Managing the Printer Using NetSpot Device Installer

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

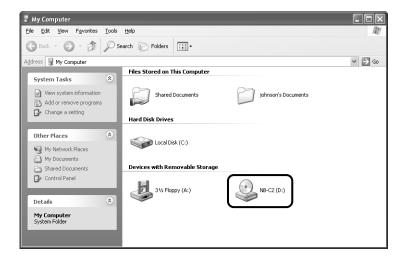
Install NetSpot Device Installer using the following procedure.

- IMPORTANT
  - Close all the other applications before the installation.
  - If you are using Windows 2000/XP/Server 2003, be sure to log on as a member of Administrators when starting up.
  - If you are using Windows XP Service Pack 2 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 such a printer, add NetSpot Device Installer to Windows Firewall during the installation.

## Ø NOTE

- NetSpot Device Installer is utility software that you can use without installing it. When using NetSpot Device Installer without installing it, read "Running NetSpot Device Installer," on p. 3-40.
- You can expand the functions of NetSpot Device Installer by adding Plug-Ins. When 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.
- Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.
  - \NetSpot_Device_Installer\Windows
- The screen shots used in this section are from Windows XP Professional.

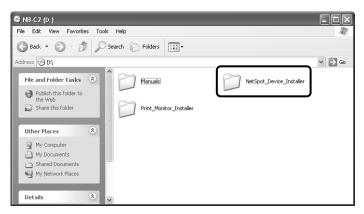
- **1** Insert the CD-ROM supplied with the network board into the CD-ROM drive.
- **2** Open [My Computer], then select the CD-ROM drive.



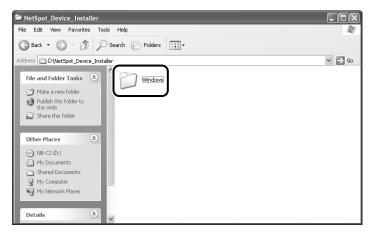
## **3** Select [Open] from the [File] menu.



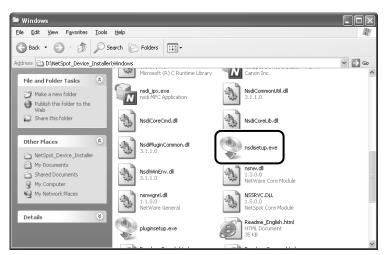
## **4** Double-click the [NetSpot_Device_Installer] folder.



## **5** Double-click the [Windows] folder.



**6** Double-click [nsdisetup.exe].



# 7 Click [Yes].

Software License Agreel Please read the following	license agreement carefully.	
11. ACKNOWLEE BY CLICKING "YE SOFTWARE, YOI READ THIS AGRE TO BE BOUND READ ALSO AGREE TH COMPLETE AND AGREEMENT BE THE SUBJECT MIT PROPOSALS OR WRITTEN, AND A BETWEEN YOU / SUBJECT MATTEN AGREEMENT SH/		<
or if you desire to a to Canon's sales s	ny questions concerning this Agreement, contact Canon for any reason, please write subsidiary or distributor/dealer, serving the obtained the Products.	-
	his Agreement, click Yes. To decline the terms of this fore the program will start, the terms of this Agreement mus	at

## **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.

NetSpo	ot Device Installer Se	tup	-
De la constante de la constant	Setup will install NetSpot Device Installer into the following folder, which it will create if necessary.		
	If you want to install NetSpot Device Installer in a different folder and/or drive, type the name of the folder below.		
Install t	o: gram Files:WetSpot Device	Installer	Browse
I Ad	d to Start Menu		
		ок	Cancel

## **9** Click [OK].

NetSpot Device Installer Setup		
Setup will install NetSpot Device Installer into the following folder, which it will create if necessary.		
If you want to install NetSpot Device Installer in a different folder and/or drive, type the name of the folder below.		
Install to:		
D:\Program Files\NetSpot Device Installer Browse		
🔽 Add to Start Menu		
OK Cancel		

Installation of NetSpot Device Installer is started.

If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, and the Windows Firewall is enabled, the following screen is displayed.

NetSpot Device Installer S	ietup 🛛 🕅
To use NetSpot Device Installe it is necessary to register the a Do you want to register the ap	application in Windows Firewall.
Yes	No

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** The screen that informs you of the completion of the printer driver installation is displayed. Click [OK].

NetSpot Device Installer Se	etup	×
NetSpot Device Installer has be	en installed succes	sfully.

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

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.

NetSpot Device Installer Plug-in Setup
Select plug-ins to install. Plug-ins :
Persice Note     PRAY Print Service Settings     Save Device List     Save/Restore NIC Settings
Notes can be attached for each device.
Start Installation Cancel

### 🤌 NOTE

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

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.

- \NetSpot_Device_Installer\Windows

The installation of NetSpot Device Installer is completed.

# **Running NetSpot Device Installer**

This section describes the procedure for running NetSpot Device Installer.

## When Running NetSpot Device Installer Installed on a Computer

NOTE

The screen shots used in this section are from Windows XP Professional.

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

For Windows 98/Me/2000: From the [Start] menu, select [Programs]  $\rightarrow$  [NetSpot Device Installer]  $\rightarrow$  [NetSpot Device Installer].



NetSpot Device Installer runs.

## 🧷 NOTE

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.

# When Running NetSpot Device Installer from the CD-ROM Supplied with the Network Board

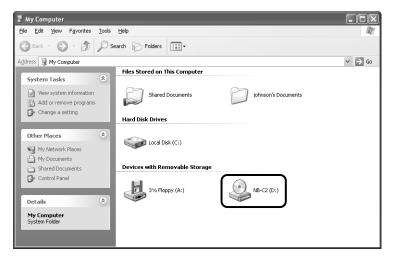
## NOTE

The screen shots used in this section are from Windows XP Professional.

# Insert the CD-ROM supplied with the network board into the CD-ROM drive.

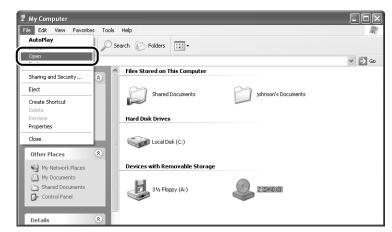


## Open [My Computer], then select the CD-ROM drive.



3

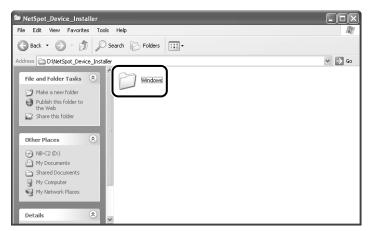
## **3** Select [Open] from the [File] menu.



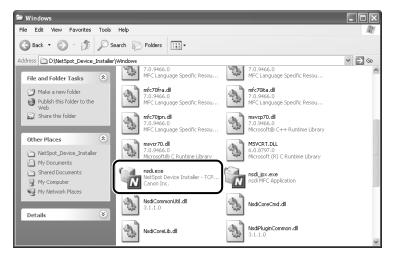
## **4** Double-click the [NetSpot_Device_Installer] folder.

OB-C2 (D:)	
File Edit View Favorites Tools Help	NY.
🚱 Back 🔹 🕥 - 🏂 🔎 Search 🎼 Folders 🔛	
Address 😔 Di	✓ ⇒ Go
File and Folder Tasks     Image: Comparison of the folder to the web big of the folder     Image: Comparison of the folder     Manuals       Image: Comparison of the folder     Image: Comparison of the folder     Image: Comparison of the folder     Image: Comparison of the folder	
Other Places 🛞	
My Computer  My Documents  Shared Documents  My Network Places	
Details 🔹 💌	

# **5** Double-click the [Windows] folder.



## **6** Double-click [nsdi.exe].



NetSpot Device Installer runs.

## 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. 2-30. For more details on other procedures for using NetSpot Device Installer, see Online Help.

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

3

# Troubleshooting



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

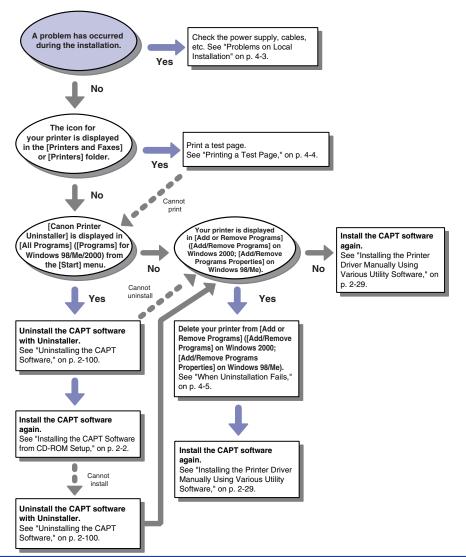
Installation Problems
Problems on Local Installation4-
Printing a Test Page4-
When Uninstallation Fails
When Data is Not Sent to the Printer4-
Miscellaneous Problems
Checking the Network Board Functions

# 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".



## Problems on Local Installation

## NOTE

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

When the printer driver is installed from the CD-ROM Setup, the printer cannot be searched for.

- Cause 1 The printer is OFF.
- 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 Service Pack 2 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.

Warning	
⚠	To search for all printers, you must temporarily remove the Windows Firewall block set against the program for searching printers. When the installation is completed, the Windows Firewall block will be reactivated.
	Do you want to change the Windows Firewall settings so that the block will be removed?
	Yes No

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

- Cause 1 The printer is OFF.
- 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 Service Pack 2 or another operating system equipped with Windows Firewall.
- Remedy If you are using Windows XP Service Pack 2 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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board. \NetSpot_Device_Installer\Windows

## **Printing a Test Page**

Check the following items if nothing is printed when printing from an application:

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

## 

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** Print a test page.

### • For Windows 98/Me

- □ Select the icon for the printer in the [Printers] folder, then select [Properties] from the [File] menu.
- Click [Print Test Page] in the [General] sheet in the [Printer Properties] dialog box.

### • For Windows 2000/XP/Server 2003

- □ Select the icon for the printer in the [Printers and Faxes] or [Printers] folder, then select [Properties] from the [File] menu.
- □ Click [Print Test Page] in the [General] sheet in the [Printer Properties] dialog box.

#### ■ When the test page is printed correctly

Printing can be performed from the CAPT software. Check the application to make sure that all the settings are specified properly.

### When the test page cannot be printed

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

## When Uninstallation Fails

If you cannot uninstall the CAPT software using the Uninstaller that was created during installation, use the following procedure to uninstall the CAPT software from [Add or Remove Programs] ([Add/Remove Programs Properties] for Windows 98/ Me; [Add/Remove Programs] for Windows 2000).

## Ø NOTE

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

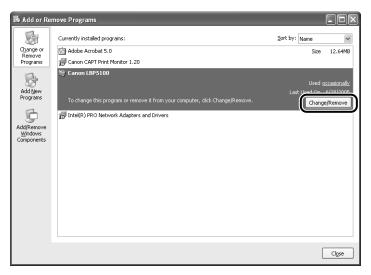
# From the [Start] menu, select [Control Panel], and then click [Add or Remove Programs].

For Windows 98/Me/2000: From the [Start] menu, select [Settings]  $\rightarrow$  [Control Panel], and then double-click [Add/Remove Programs]. For Windows Server 2003: From the [Start] menu, select [Control Panel]  $\rightarrow$  [Add or Remove Programs].

# **2** Select the name of your printer in the [Add or Remove Programs] dialog box, then click [Change/Remove].

For Windows 2000: Select the name of your printer in the [Add/Remove Programs] dialog box, then click [Change/Remove].

For Windows 98/Me: Select the name of your printer in the [Add/Remove Programs Properties] dialog box, then click [Add/Remove].





If the name of the printer is not displayed in the dialog box, perform "Installing the Printer Driver Manually Using Various Utility Software" (p. 2-29) to install the CAPT software again.

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

🏶 Delete Printer		×
To start deleting, select the prin	nter you want to delete and then	click [Delete].
Finerinanie	Driver Name	Version
Canon LBP5100	Canon LBP5100	1.00
	Select All	Delete
	Jelecciali	Delete
		Exit

A confirmation message is displayed.

## **4** Click [Yes].

Warning	:
	Are you sure you want to delete the printer 'Canon LBP5100'?
	Yes No

If the printer is being 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.

Warning	B
	The 'Canon LBP5100' printer is being shared with 'CanonLBP'. This printer may now be in use. If you delete it, the printer will no longer be shared. Are you sure you want to delete it?
	Yes No

Uninstallation starts. Please wait a moment.

# 5 Click [Exit].

Printer Name	Driver Name	Version

The [Delete Printer] dialog box closes.



# When Data is Not Sent to the Printer

The following are probable causes when the printer and computer are connected by a LAN cable, and the data cannot be printed because it is not sent to the printer. Take the appropriate measures.

### NOTE

- Because there may be other causes of the symptom, also see "Miscellaneous Problems," on p. 4-11.
- If the printer is connected to the computer by a USB cable or is being shared on a network, see "User's Guide".

#### The printer is not turned ON.

- Cause 1 The power plug is unplugged from the AC power outlet.
- Remedy Plug the power plug into the AC power outlet.
- Cause 2 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 3 The breakers have tripped.
- Remedy Reset the breakers on the switch board.
- Cause 4 There is a break in the power cord.
- Remedy If the printer is turned ON after replacing the power cord with the one that is of the same type and is used for other device, there is a break in the power cord. In this case, purchase a new power cord and replace it with the broken one.

The LAN cable is not connected properly.

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

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

Remedy Perform the following procedure.

- 1. Display the [Printers and Faxes] folder or the [Printers] folder.
  - For Windows 98/Me/2000: From the [Start] menu, select [Settings] → [Printers].
  - For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].
  - For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware] → [Printers and Faxes].
- 2. Select the icon for the printer, then select [Properties] from the [File] menu.
- **3.** Display the [Ports] sheet ([Details] sheet for Windows 98/Me), then make sure that the port to be used is selected properly.

Canor	LBP51	00 Prop	perties						?:
General	Sharing	Ports	Advanced	Color Management	Security	Device Settings	Profile		
Print to checke	the followi	LBP5100		will print to the first fr	ве				
Port	De DM2: Ser DM3: Ser DM4: Ser LE: Prir SB VIII 1 Sta	rial Port rial Port nt to File undard TO indard TO	r port ro P/IP Port I Delete F	Printer Canon LBP5100 PortConfi	gure Port				
					ОК	Cance		Apply	Help

If the appropriate port is not selected, select the appropriate one, and then click [OK].

If you cannot find the port to be used, uninstall the printer driver and install it again. (See "Uninstalling the CAPT Software," on p. 2-100, "Installing the CAPT Software," on p. 2-2)

Cause 2 You changed the IP address.

Remedy If you changed the IP address, see "Changing the Port" (p. 5-18) and set the port anew.

#### The IP address is incorrect.

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.
  - For Windows XP/Server 2003: From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].
  - For Windows 2000: From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].
  - For Windows Me: From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].
  - For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS 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.
- Remedy 2 Before setting the IP address using any one of DHCP, BOOTP, or RARP, make sure that the protocol is running. (See "Protocol Settings for the Printer," on p. 2-84)

#### - 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.

# Miscellaneous Problems

### 🤌 NOTE

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

#### Cannot Print from the Network

- Cause 1 The network board and cable are not connected properly.
- Remedy Check the following points, and then cycle the power of the printer.
  - Make sure that the network board is installed properly. (See the instruction manuals supplied with the printer)
  - Make sure that the printer is connected to the network by an appropriate cable. (See the instruction manuals supplied with the printer)

Cause 2 The network is not configured 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.
  - For Windows XP/Server 2003: From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt].
  - For Windows 2000: From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt].
  - For Windows Me: From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt].
  - For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS Prompt].
- Enter "ping <the IP address of the printer>", then press the [ENTER] key on your keyboard.

**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.

- Input Example :ping 192.168.0.215

- Remedy 2 Before setting the IP address using any one of DHCP, BOOTP, or RARP, make sure that the protocol is running. (See "Protocol Settings for the Printer," on p. 2-84)
- Cause 3 The port is not set properly.
- Remedy 1 If you changed the IP address after installing the printer driver, set the port anew. (See "Changing the Port," on p. 5-18) If you want to specify Canon CAPT Port when you install the printer driver from the [Printers and Faxes] folder or the [Printers] folder or by setting the port manually using the CD-ROM (CD-ROM Setup) supplied with the printer, be sure to install Canon CAPT Print Monitor before installing the printer driver. (See "Installing the Printer Driver Manually Using Various Utility Software," on p. 2-29)
- Remedy 2 If you are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall, and the port is set to Canon CAPT Port, make sure that Windows Firewall is configured to unblock communication with Canon CAPT Print Monitor.

### NOTE

Use the following checking procedures.

- From the [Start] menu, select [Control Panel], and then click [Network and Internet Connections] → [Windows Firewall].
- 2. Make sure that the [Canon CAPT Port] check box is selected in the [Exceptions] sheet in the [Windows Firewall] dialog box. If the check box is not selected, select it.
- Cause 4 The computer that performs printing is not configured properly.
- Remedy Check the following points.
  - Make sure that the printer is specified as the default printer.
  - Make sure that the printer driver is installed properly. In order to check if the printer driver is installed properly, perform Network Status Print (See "Checking the Operations with Network Status Print," on p. 2-81). If you cannot print properly, uninstall the printer driver and install it again. (See "Uninstalling the CAPT Software," on p. 2-100, "Installing the CAPT Software," on p. 2-2)
  - Make sure that the TCP/IP protocol is running.
- Cause 5 The IP address of the computer that sends the print data is restricted in [Restrict TCP/IP Printing] in [IP Address Range Settings].
- Remedy Confirm the setting of [Restrict TCP/IP Printing] in [IP Address Range Settings]. See "Restricting the Users Who Can Print," on p. 3-4

Remedy Specify the normal mode (the broadcast communication mode). For more details, see "Using the Unicast Communication Mode" (p. 5-26) or ask your network administrator.

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 a "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 to 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 netowork board according to the transmission speed of the connected hub. (See User's Guide)
- 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 The LAN cable is disconnected or broken, or the network board is not installed properly.
- 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 Canon dealer for servicing.

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 once. (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.

- 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. 2-100)
- Cause 2 The printer is assigned to Canon CAPT Port.
- Remedy Display the [Printer Properties] dialog box from the [Printers and Faxes] folder or the [Printers] folder, and then specify a port other than Canon CAPT Port in the [Ports] sheet (the [Details] sheet for Windows 98/Me).

The printer became unable to print from the network suddenly.

- Cause When using the printer in a DHCP environment etc, you turned OFF or ON the printer.
- Remedy If you want to use the printer in a DHCP environment etc., set DHCP etc. so that the same IP address is always assigned to the printer when starting up the printer.



Because there may be other causes of the symptom, also see the Cause 1 and 2 of "Cannot print from the network.", "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.", and "The ERR indicator on the network board keeps blinking.".

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

- Cause You are using Windows XP Service Pack 2 or another operating system equipped with Windows Firewall and Standard TCP/IP Port.
- Remedy See the procedure from Step 18 of "Installing the CAPT Software from CD-ROM Setup" (See p. 2-14) 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 or 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 screen shots 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.

For Windows 98/Me/2000: From the [Start] menu, select [Settings]  $\rightarrow$  [Printers]. For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware]  $\rightarrow$  [Printers and Faxes].

# 2 Select the icon for your printer, then select [Printing Preferences] from the [File] menu.

For Windows 98/Me: Select the icon for your printer, then select [Properties] from the [File] menu.

# **3** Display the [Page Setup] sheet, then click [ <u>J</u>] (Display Printer Status Window) to run the Printer Status Window.

Canon LBP5100 Printing Prefe Page Setup Finishing Paper Source		?[
Profile: Default Settings	• 🗐 🗹	Output Method: 🕥 Print 🗸
	Page Size:	A4  Match Page Size  1 (1 to 999)  A O Portrait A Landscape
	Page Layout:	1 Page per Sheet ✓
A4 [Scaling: Auto]	Watermark:	CONFIDENTIAL CONFIDENTIAL
	Custom Paper Size	Page Options Restore Defaults
		OK Cancel Apply Help

### Ø NOTE

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

# **4** From the [Options] menu, select [Utility] $\rightarrow$ [Network Status Print].

😂 Ca	non LBP5100			- IX
Job	Options Help			
æ	Preferences			
<u> </u>	Consumables/Counte	rs		<u>*</u> *
- N	Utility	Þ	Calibration	
	Device Settings	•	Cleaning	
	Refresh		Network Status Print	
		e		
L				v
				\$
Curre	en t Print Job   My Job D	peration		1
Ti	tle Co	intents		
	ocument Name			
	ser Name			
Ca	omputer Name			
Prints n	etwork status print.			

### 5 Click [OK].

Networl	k Status Pri	int	×
(j)	Prints Netw	ork Status F	Print.
	ок	Cancel	

Network Status Print is printed.

# **6** Confirm the contents of the Network Status Print.

Network Status Print prints information as shown in the following figure. You can check the version of the network board or the TCP/IP settings.

### 

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

Canon Network	Status Print
Product Name	:LBP5100
CAPT Interface Version	:2.1
Interface	:Fast Ethernet 10/100BaseT
Transmission Rate MAC Address	:10/100Mpps :00:00:85:92:A9:E2
MAC Address Firsware Name	:00:00:85:92:A9:E2 :NB-C2
Firmware Version	188-62
CANON-MIB Version	1000
Print Server Name	CANON92A9E2
ICP/IP	
IP Address	:192.168.0.215
Subnet Mask	:255.255.255.0
Gateway Address	:None set
DHCP	OFF
BOOTP RARP	: OFF
DNS Server Address DNS Host Name	:0.0.0.0
DNS Domain Name	
WINS Server Address	
WINS Host Name	
SNTP Server Name	
Time Zone	:0:00
Daylight Saving Time	:OFF
Responses to Multicast	: ON
Security	
SNMPv1	: CN
SNMPv3 Restrict TCP/IP Printing	COFF
Restrict TCP/IP Printing Restrict SNMP Monitor/Set	: OFF
Restrict Multicast Discovery	
Restrict MAC Address Access	OFF
Port	:IP 192.168.0.215
Canon CAPT Print Monitor	-
Version	:1.41
CAPT TCP/IP Port Module	
Version	:1.41
Canon and Canon logo are trademarks	of CANCH INC.

# Appendix

# 5 CHAPTER

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

Network Setting Items	
Software That Can Be Used for the Network Settings	
Setting the Network Board	
Initializing the Network Settings	
Settings for Adding a Port	
Changing the Port. For Standard TCP/IP Port (Only for LBP5100)	
Using the Unicast Communication Mode	
Updating the Firmware	
Specifications	
Index	

# Network Setting Items

You can change the network settings by using the web browser (Remote UI), FTP Client, or NetSpot Device Installer. The following are the setting items that you can change.

#### NOTE

- The letters shown in parentheses are exclusively for FTP Client (Example: "Device Name (DEVICE_NAME)" is indicated as [Device Name] in the Remote UI and NetSpot Device Installer, and indicated as [DEVICE_NAME] in the config file in the FTP Client.).
- The asterisk marks attached to the end of some option names, such as "*1", 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)	CANONXX XXXX
[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	URL displayed in the [Support Links] page in the Remote UI/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/
[Comment] (DOWNLOAD_SITE_COMMEN T) *1	The comments displayed in the [Support Links] page in the Remote UI (0 to 64 characters)	Update network firmware
[SNMPv1] (SNMP_V1_ACCESS_ENB) *1	Access using the SNMPv1 protocol	YES
[Access Rights] (SNMP_V1_ACCESS_MODE) *1	SNMPv1 agent's operation mode (Read-Only, Read-Write)	Read and Write
[Community Name] (PUB_COMMUNITY) *1	The community name of SNMP (0 to 32 characters)	public
[SNMPv3] (SNMP_V3_ACCESS_ENB) *1	Access using the SNMPv3 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	YES

# Software That Can Be Used for the Network Settings

You can perform the network settings using the following software

- 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. 2-30, p. 2-40, p. 2-42)	-	-	Ο	0	О
Protocol settings (See p. 2-84)	0	0	O*	-	-
Restricting the users who can print (See p. 3-4, p. 3-31)	0	0	-	-	-
Restricting the users who can monitor/ change the settings using the SNMP protocol (See p. 3-8, p. 3-31)	0	0	-	-	-
Restricting the users who can use the multicast discovery (See p. 3-13, p. 3-31)	0	О	-	-	-
Restricting MAC address access (See p. 3-17, p. 3-31)	0	0	-	-	-
Obtaining a security access log (See p. 3-21, p. 3-31)	0	0	-	-	-

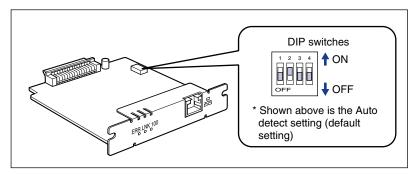
* Some settings are specifiable (See "Network Setting Items," on p. 5-2)

# 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, set the DIP switches on the network board. Before setting the DIP switches, turn the printer OFF, then remove the network board. A Phillips screwdriver is required for removing the network board. Have a screwdriver ready in advance that matches the size of the screws. 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 the tip of a ball-point pen etc. Do not use a sharp object such as a mechanical pencil.



# Setting the Network Transmission Speed/Transfer Mode and the DIP Switches

Communication speed and Transmission mode of LAN	DIP switch setting
Auto detect (default setting)	1     2     3     4       Image: Definition of the state of the stat
10BASE-T/Half-duplex	1         2         3         4           I         0         I         0           I         0         I         0           I         0         I         0           I         0         I         0
10BASE-T/Full-duplex	1     2     3     4       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I       I     I </td
100BASE-TX/Half-duplex	1     2     3     4       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I     I       I     I     I       I     I </td
100BASE-TX/Full-duplex	1     2     3     4       I     I     I     I       OFF     I     I

- **1** Turn the printer OFF.
- **2** If a USB cable is connected, turn the computer off, and then disconnect the USB cable.
- **3** Disconnect the power plug from the AC power outlet.
- **4** Remove all the interface cables and the power cord from the printer.

#### NOTE

If the optional duplex unit is installed, remove it from the printer. For details on the procedure for removing the duplex unit, see "User's Guide".

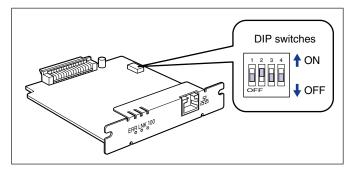
### 5 Remove the two screws and remove the network board.

#### IMPORTANT

- Do not touch the network board parts, printed wire, 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.

### 6 Set the DIP switches.

Set the DIP switches with the tip of a ball-point pen etc. 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 the tip of a ball-point pen etc. Do not use a sharp object such as a mechanical pencil.

### 7 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 wire, or connectors with your hands.
- · Insert the network board securely.

# 8 Secure the top and bottom portions of the network board with the two screws supplied with the network board.

- **9** Connect the LAN cable.
- **10** Connect the power cord.

**11** Plug the power plug into the AC power outlet.

**12** If you are going to print via USB also, connect the USB cable.

# Initializing the Network Settings

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

- Remote UI: See "Initializing the Network Settings," on p. 3-28.
- FTP Client: See "Managing the Printer Using FTP Client," on p. 3-31.
- NetSpot Device Installer: 1. Select the name of the printer that you want to reset, and then select [Restore to Default Settings] from the [Device] menu.
  - 2. If a message appears, click [Yes].
  - If the message <The Device has been reset.> is displayed, 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.> is displayed, the settings are effective after clicking [OK] and cycling the power of the printer.

Even if none of the above procedures work, you can reset the network settings by manipulating the DIP switches using the following procedure. A Phillips screwdriver is required to reset the network settings.

### 

- Make sure that the printer is not operating before initializing the network settings. If you initialize the print server 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 Service Pack 2 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 such a printer, add NetSpot Device Installer to Windows Firewall during the installation.
  - 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. 3-35)

Readme of NetSpot Device Installer is in [Readme_English.html] in the following folder in the CD-ROM supplied with the network board.

- \NetSpot_Device_Installer\Windows

• 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".

### **1** Turn the printer OFF.

- **2** If a USB cable is connected, turn the computer off, and then disconnect the USB cable.
- **3** Disconnect the power plug from the AC power outlet.

# **4** Remove all the interface cables and the power cord from the printer.

#### NOTE

If the optional duplex unit is installed, remove it from the printer. For details on the procedure for removing the duplex unit, see "User's Guide".

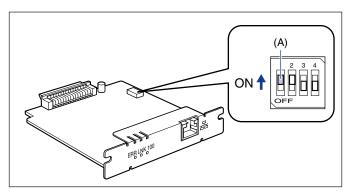
### **5** Remove the two screws and remove the network board.

### IMPORTANT

- Do not touch the network board parts, printed wire, 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.

### **6** Switch the DIP switch 1 (A) to ON.

Set the DIP switches with the tip of a ball-point pen etc.



### IMPORTANT

When setting the DIP switches, be careful not to damage the main board with the tip of a ball-point pen etc. Do not use a sharp object such as a mechanical pencil.

# 7 Insert the network board into the expansion slot.

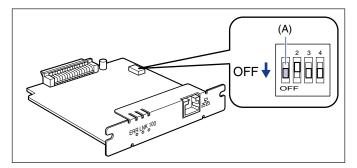
Hold the metal panel portions of the network board and insert the board straight while aligning it with the guide rails inside the expansion slot.

### 

- Do not touch the network board parts, printed wire, or connectors with your hands.
- Insert the network board securely.
- 8 Secure the top and bottom portions of the network board with the two screws supplied with the network board.
- **9** Connect the power cord.
- **10** Plug the power plug into the AC power outlet.
- **11** Press "|" of the power switch to turn the printer ON, wait until the Ready indicator comes on, and then press "O" of the power switch to turn the printer OFF.
- **12** Disconnect the power plug from the AC power outlet.
- **13** Remove the power cord.

# 14 Remove the network board, then reset the DIP switch 1 (A) to OFF.

Set the DIP switches with the tip of a ball-point pen etc.



### 

- When setting the DIP switches, be careful not to damage the main board with the tip of a ball-point pen etc. Do not use a sharp object such as a mechanical pencil.
- Do not touch the network board parts, printed wire, 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.

### **15** Install the network board.

#### Ø NOTE

If the optional duplex unit was previously installed, reinstall it on the printer. For details on the procedure for installing the duplex unit, see "User's Guide".

# **16** Connect the interface cables except for the USB cable, and connect the power cord.

**17** Plug the power plug into the AC power outlet.

**18** If you are going to print via USB also, connect the USB cable.

# 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 adding a port varies.

Canon CAPT Port - Add to List Manually							
Enter the IP address or name (	of the printer you want to use.						
IP Address or Printer Name:		_					
Port Name:		_					
	OK Cancel						

Add Standard TCP/IP Printer	Port Wizard	×
Add Port For which device do you want	t to add a port?	
Enter the Printer Name or IP a	ddress, and a port name for the desired device.	
Printer Name or IP Address:		]
Port Name:		]
	< Back Next >	Cancel

- When you want to set the IP address to be assigned to the printer manually (When you know the IP address to use):
  - · Enter the IP address in [IP Address or Printer Name]*.
  - When setting 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" when you obtain the IP address from DHCP etc. that allows you to obtain the domain name (CCC.com) simultaneously.

# ■ When you want to set the IP address to be assigned to the printer using DHCP etc.:

- Set DHCP etc. so that the same IP address is always assigned to the printer when starting up the printer. For more details, see "When you want to set the IP address to be assigned to the printer manually" above.
- When 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" when you obtain the IP address from DHCP etc. that allows you to obtain the domain name (CCC.com) simultaneously.
  - * [Printer Name or IP Address] for Standard TCP/IP Port

### IMPORTANT

If you are using Canon CAPT Port and enter the printer name in [IP Address or Printer Name] on the following screen displayed in the process of adding a port and click [OK], and proper communication is made, the [Canon CAPT Port - Add Print Port] dialog box closes.

Canon CAPT Port - Add to I	List Manually 🛛 🗙
Enter the IP address or name of t	he printer you want to use.
IP Address or Printer Name:	192.168.0.215
Port Name:	192_168_0_215.
	OK Cancel

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 the following status etc. 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 OFF.
- The printer is ON, but there is no response from the device for some reason.

#### NOTE

- You can use Standard TCP/IP Port only with LBP5100.
- For details on specifying the DNS settings for the printer, see "Protocol Settings Using the Remote UI," on p. 2-84.

# Changing the Port

If you changed the IP address or name of the printer (the DNS name 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.

- When you are using Standard TCP/IP Port (See p. 5-18)
- When you are using Canon CAPT Print Monitor (See p. 5-22)

### For Standard TCP/IP Port (Only for LBP5100)

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.

#### NOTE

The screen shots used in this section are from Windows XP Professional.

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

For Windows 2000: From the [Start] menu, select [Settings]  $\rightarrow$  [Printers]. For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].

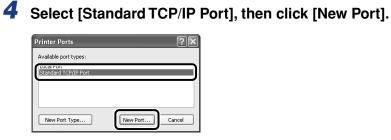
For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware]  $\rightarrow$  [Printers and Faxes].

# **2** Select the icon for your printer, then select [Properties] from the [File] menu.



# **3** Display the [Ports] sheet, then click [Add Port].

ど Canor	LBP51	00 Proj	perties						?>
General	Sharing	Ports	Advanced	Color Management	Security	Device Settings	Profile		
Print to checke	the followi	LBP5100		will print to the first fr	ee				
	DM1: Ser DM2: Ser DM3: Ser DM4: Ser LE: Prin SB Virt	ial Port ial Port ial Port nt to File ual printe refered to ional sup	r port fo P/IP Port I Delete F	Printer Canon LBP5100 Port Config	gure Port	×			
					Clos	e Cance		Apply	Help



### 5 Click [Next].



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

Add Standard TCP/IP Printer	Port Wizard 💌						
Add Port For which device do you want to add a port?							
Enter the Printer Name or IP a	ddress, and a port name for the desired device.						
Printer Name or IP Address:	192.168.0.215						
Port Name:	IP_192.168.0.215						
	< Back Next > Cancel						

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], and then click [Next].

Add Standard T	CP/IP Printer Port Wizard
	tt Information Required could not be identified.
<ol> <li>The device i</li> <li>The network</li> <li>The device i</li> <li>The address</li> <li>If you think the a</li> </ol>	is connected s property configured on the previous page is correct. dddess is not correct, click Back to return to the previous page. Then correct perform another search on the network. If you are sure the address is correct,
Standard Custom	Canon Network Printing Device with P9100
	< Back Next > Cancel

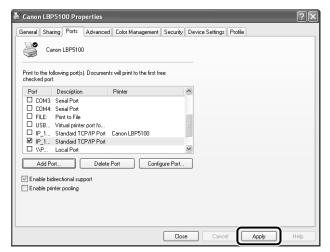
7 After the computer has confirmed that there is a printer that has the IP address you entered, the [Completing the Add Standard TCP/IP Printer Port Wizard] window appears. Click [Finish].

Add Standard TCP/IP Print	ter Port Wiza	ırd 🛛 🗙					
	Completing the Add Standard TCP/IP Printer Port Wizard						
	You have selected a port with the following characteristics.						
	SNMP:	Yes					
	Protocol:	RAW, Port 9100					
	Device:	192.168.0.215					
	Port Name:	IP_192.168.0.215					
	Adapter Type:	Canon Network Printing Device with P9100					
	To complete th	iis wizard, click Finish.					
		Kenter Ke					

### 8 Click [Close].

? ×
New Port Close

# 9 Click [Apply].



### 10 Click [OK].

	01	Ports		<b>.</b>				
eneral	Sharing	Folts	Advanced	Color Management	Security	Device Settings	Profile	
S	Canon	LBP5100						
Print to checke Port	d port.	ng port(s)		will print to the first fr	e	^		
	DM3: Ser DM4: Ser LE: Prin SB Virt SB Sta 2.1 Sta	ial Port ial Port it to File ual printe indard TC	r port fo P/IP Port	Canon LBP5100				
🖉 Enal	dd Port ble bidirect ble printer		Delete F port	Port Config	gure Port			

### NOTE

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.

#### NOTE

The screen shots 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.

For Windows 98/Me/2000: From the [Start] menu, select [Settings]  $\rightarrow$  [Printers]. For Windows XP Professional/Server 2003: From the [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition: From the [Start] menu, select [Control Panel], and then click [Printers and Other Hardware]  $\rightarrow$  [Printers and Faxes].

# **2** Select the icon for your printer, then select [Properties] from the [File] menu.



### **3** Display the [Ports] sheet, then click [Add Port].

Canon LBP5	100 Proj	perties						?×
General Sharin	g Ports	Advanced	Color Management	Security	Device Settings	Profile		
<b>W</b>	n LBP5100 wing port(s)		will print to the first fr	ве				
COM1: S COM2: S COM3: S COM4: S FILE: F USB V	erial Port erial Port erial Port rint to File irtual printe tandard TU	r port fo P/IP Port Delete f	Printer Canon LBP5100 Port Config	gure Port	8			
				Clos	e Cance		Apply	Help

### **4** Select [Canon CAPT Port], then click [New Port].

Printer Ports	?×
<u>,</u>	
Canon CAPT Port	
Standard TCP/IP Port	
New Port Type	New Port Cancel

### **5** Click [Update Printer List].

Canon CAPT Port - Add Pr Available network printers:	inter Port	Σ
IP Address or Printer name	Port name	Update Printer List Add to List Manually Help
		JK Cancel

**6** From [Available network printers], select the port of the new IP address of the printer, and then click [OK].

Canon CAPT Port - Add Pi	rinter Port	$\mathbf{X}$
Available network printers:	192_168_0_215.	Update Printer List Add to List Manually Help
		DK Cancel

If the target printer's port name is not displayed in [Available network printers], click [Add to List Manually], enter the IP address or printer name (the DNS name registered on the DNS server (up to 78 characters)) in [IP Address or Printer Name] in the [Add to List Manually] dialog box, and then click [OK]. 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.

### 7 Click [Close].

Printer Ports	?×)
Available port types:	
Canon CAPT Port Local Port Standard TCP/IP Port	
New Port Type	New Port

# 8 Click [Apply].

í Canon LBP5100 Pr	operties			?×
General Sharing Ports	Advanced Color Manageme	ent Security Device Settings	Profile	
Canon LBP51 Print to the following port checked port.	00 (s). Documents will print to the first	st free		
Port Descriptic COM1: Seria Port COM2: Seria Port COM4: Seria Port COM4: Seria Port PILE: Print to Fil 192 Canon CA US8 Virtual print Add Port Enable bidirectional s Enable printer pooling	e PT Port ter port fo Delete Port Cc upport	onfigure Port		
		<b>Close</b> Cano	el Apply	Help

# 9 Click [OK].

Canon LBP5100 Properties		?(
General Sharing Ports Advanced ( Canon LBP5100	Color Management Security	Device Settings Profile
Print to the following port(s). Documents w checked port.	rill print to the first free	
COM1: Serial Port COM2: Serial Port COM3: Serial Port COM4: Serial Port FILE: Print to File		
	mon LBP5100	×
Add Port     Delete Po     Enable bidirectional support     Enable printer pooling	rt Configure Port	-
		K Cancel Apply Help

### Ø NOTE

To delete an old port, select the port that you want to delete, and then click [Delete Port].

### 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 when using the unicast communication mode.

#### NOTE

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.

# Setting the Network Board to Enter into the Unicast Communication Mode

### 1 Run Command Prompt or MS-DOS Prompt.

For Windows XP/Server 2003: From the [Start] menu, select [All Programs] → [Accessories] → [Command Prompt]. For Windows 2000: From the [Start] menu, select [Programs] → [Accessories] → [Command Prompt]. For Windows Me: From the [Start] menu, select [Programs] → [Accessories] → [MS-DOS Prompt]. For Windows 98: From the [Start] menu, select [Programs] → [MS-DOS 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.

#### • If the password is specified for the printer

Enter the password.

#### • If the password is not specified for the printer

 $\hfill\square$  Do not enter the password, but press the [ENTER] key on your keyboard.

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

get config <File Name>

The config file is downloaded. The letters entered for <File Name> become the name of the downloaded config file.

### IMPORTANT

For Windows 98/Me, do not enter "config" for <File Name>.

### Ø NOTE

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 Edit "YES" to "USE_IP_PORT_NAME".

Input Example : USE_IP_PORT_NAME. :YES

### 7 Save the config file.

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

put <File Name> CONFIG

#### NOTE

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

# 9 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).

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

### **11** Enter "exit", then press the [ENTER] key on your keyboard.

Command Prompt or MS-DOS Prompt exits.

#### 

To specify the normal mode (the broadcast communication mode), edit "USE_IP_PORT_NAME" to "NO". Input Example: USE_IP_PORT_NAME.:NO

#### NOTE

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 5-29

# Updating the Firmware

Select the update file, then update the firmware of the print server.

### IMPORTANT

- When 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

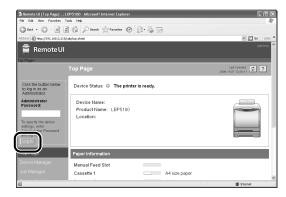
The screen shots used in this section are from Windows XP Professional with which LBP5100 is being used.

# 1 Run the web browser, enter the following URL in [Location] or [Address], 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/

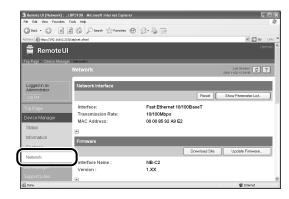
### 2 Click [Log In].



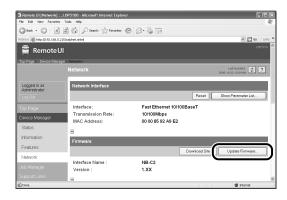
#### NOTE

If a password is specified for the printer, enter the password, and then click [Log In]. If the password has not been specified yet, it is not required to enter the password.

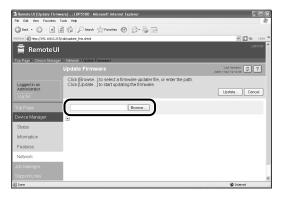
**3** Click [Network] from the [Device Manager] menu.



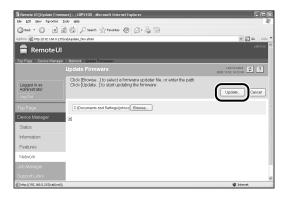
**4** Confirm the current version of the firmware in [Version], then click [Update Firmware].



**5** Click [Browse], then select the update file for the firmware or enter the path.



**6** Click [Update] to update the firmware.



### IMPORTANT

When you cannot update the firmware properly, see the README file supplied with the firmware.

# Hardware Specifications

CPU	RISC 200MHz
ROM	2MB (flash ROM)
RAM	8MB
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	<ul> <li>CAPT (Canon Advanced Printing Technology)</li> <li>Windows Standard TCP/IP Port (Port9100)*</li> <li>* Supported only by LBP5100. Also, supports only Raw, but not LPR.</li> </ul>

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# Canon