

AI-100 Series

Utility User's Guide

Revision 1.0.0.0

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1 Introduction

1.1 Overview

This document describes how to use the utility software (Thermal Printer Utility) used with the AI-100 Series printer.

The Thermal Printer Utility is a Windows program that enables you to check or change the printer setup information and register the logos easily from a PC.

1.2 Related Documents

Please refer to the related documents listed below, as needed:

Document Name	Folder/File Name
Installation Guide	\\Manual\\Software\\English\\AI100_InstallGuide_en.pdf
User's Manual	\\Manual\\Hardware\\English\\AI100_UsersManual_en.pdf
Windows Driver User's Guide	\\Manual\\Software\\English\\AI100_WindowsDriverGuide_en.pdf
Printer LAN Online Manual	\\Manual\\Software\\English\\PrinterLAN_Manual_en.pdf

1.3 System Requirements

The Thermal Printer Utility can be used with the following system configurations.

➤ **Printer Setup**

- Error Recovery : Auto

<Guide> The factory default value is "Auto."

Usually, you do not have to modify the setting. However, the OPOS driver uses "Command" as the [Error Recovery] setting and therefore you need to change the default value in this case.

For information on how to set the value, please see the printer's operating manual.

- Configure the printer settings as follows depending on the interface you are using.

■ For the LAN interface

LAN: Enable

■ For the USB or Serial interface

LAN: Disable

<Guide> The factory default value is "Enable".

Refer to the instruction manual for the printer for details on how to configure this setting.

➤ **Host Hardware**

A personal computer with the following interfaces running one of the listed operating systems (OS).

- Serial interface
- USB interface
- LAN interface

➤ **Operating System (OS)**

- Microsoft® Windows® XP Professional (*1)
- Microsoft® Windows® XP Home Edition (*1)
- Microsoft® Windows Vista® Enterprise (*2)
- Microsoft® Windows Vista® Business (*2)
- Microsoft® Windows Vista® Ultimate (*2)
- Microsoft® Windows Vista® Home Premium (*2)
- Microsoft® Windows Vista® Home Basic (*2)
- Microsoft® Windows® 7 Ultimate (*3)
- Microsoft® Windows® 7 Enterprise (*3)
- Microsoft® Windows® 7 Professional (*3)
- Microsoft® Windows® 7 Home Premium (*3)
- Microsoft® Windows® 7 Starter (*3)
- Microsoft® Windows Server® 2003, Enterprise Edition (*4)
- Microsoft® Windows Server® 2003, Standard Edition (*4)
- Microsoft® Windows Server® 2008, Enterprise Edition (*5)
- Microsoft® Windows Server® 2008, Standard Edition (*5)
- Microsoft® Windows Server® 2008 R2, Enterprise Edition (*6)
- Microsoft® Windows Server® 2008 R2, Standard Edition (*6)
- Microsoft® Windows® Embedded for Point of Service (*7)
- Microsoft® Windows® Embedded POSReady 2009 (*8)

<Guide> 64-bit OS is also supported.

➤ **Operation Requirements**

The utility requires administrative privileges to run.

Log on with an Administrators account to use the utility.

*) WEPOS 2009

For using the LAN interface

Please add the "Management and Monitoring Tool" component.


1.4 How to Use this Manual

The explanations in this manual use the AI-100 Series printer as an example. The operating systems listed in "1.3 Operating Environment" are abbreviated as follows:

- *1 : Windows XP
- *2 : Windows Vista
- *3 : Windows 7
- *4 : Windows Server 2003
- *5 : Windows Server 2008
- *6 : Windows Server 2008 R2
- *7 : WEPOS
- *8 : WEPOS 2009

Some of the procedures (explanations) can vary depending on the OS. Therefore, please check the following table and refer to the explanation for the OS you are using:

<All Programs>

OS	Procedure
Windows Vista Windows 7	Click the  Windows logo button at the bottom-left of the desktop screen and then select [All Programs].
Windows XP Windows Server 2003 Windows Server 2008 Windows Server 2008 R2 WEPOS WEPOS 2009	Click the [Start] button at the bottom-left of the desktop screen and then select [All Programs].

1.5 Trademarks

All company names and product names contained in this manual are registered trademarks or trademarks of their respective owners.

2 Installing and Uninstalling the Utility

For information on how to install or uninstall the utility, please see the following topics:

"2. Installation" in the "Installation Guide"

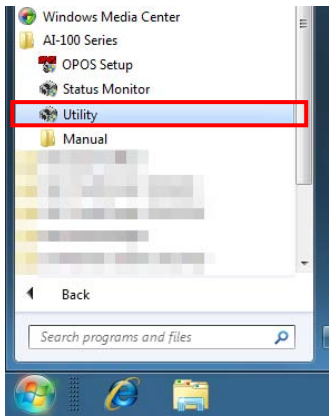
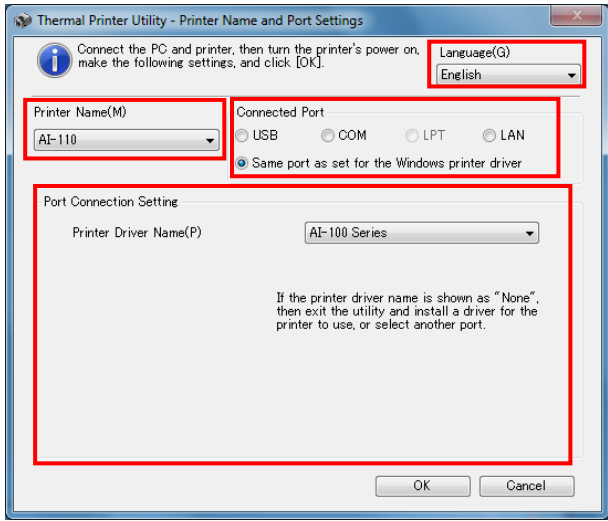
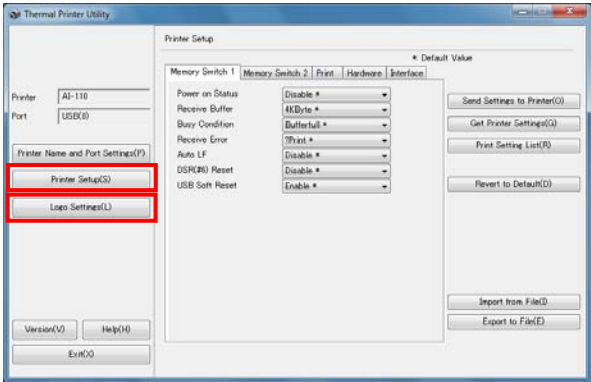
"4. Uninstallation" in the "Installation Guide"

3 How to Use the Utility

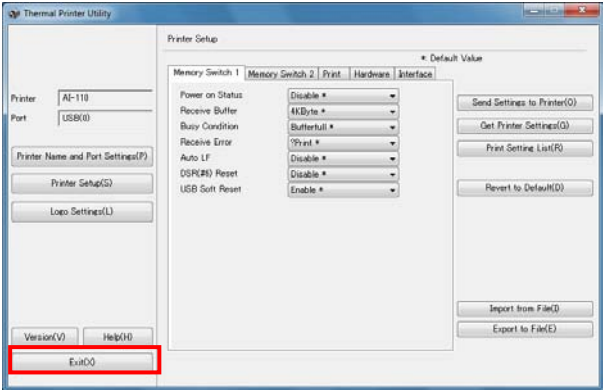
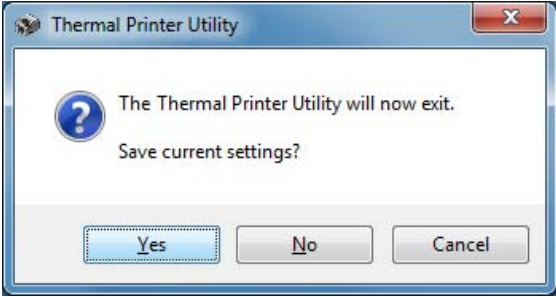
3.1 Starting and Exiting the Utility

Once the installation is complete, start the utility. The following section describes how to start and shut down the utility.

<Instruction - Start the utility>

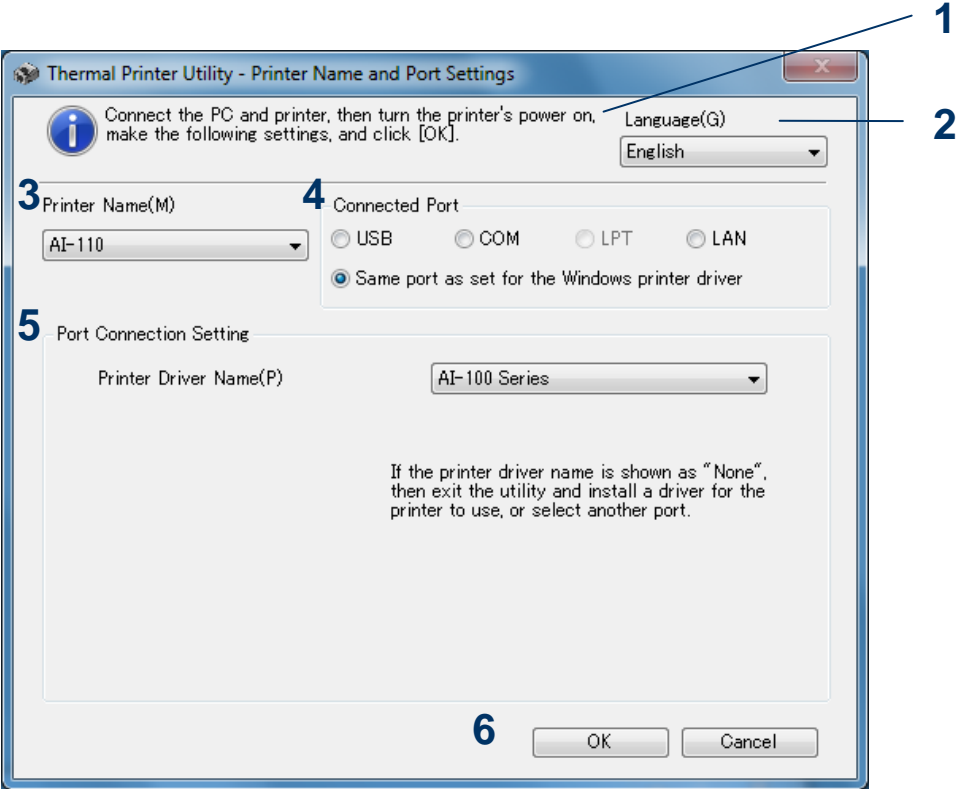
1		<p>From the Windows Start menu, select All Programs (*) [AI-100 Series] →[Utility]</p> <p>* See the [All Programs] procedure in "1.4 How to Use this Manual" for instructions on how to display the screen for each OS.</p>
2		<p>Follow the instructions on the [Printer Name and Port Settings] screen to select the printer and connection port that you use, and then click [OK].</p> <p>* For information on how to use [Printer Name and Port Settings] screen, see "3.2 Setting the Printer Name and Port."</p>
3		<p>The main screen of this utility is displayed.</p> <p>* To view or change the printer settings, use the [Printer Setup] screen. To register or delete the logo, use the [Logo Settings] screen. See "3.3 Setting Up the Printer" and "3.4 Setting Logos" respectively for instructions.</p>

<Instruction - Exit the utility>

<p>1</p>		<p>Click [Exit] on the main screen.</p>
<p>2</p>		<p>When the message box appears, asking you if you want to save the current settings, click: [Yes] to save the settings, [No] to discard the settings, or [Cancel] to return to the main screen without shutting down the utility.</p> <p><Guide> If you save the current settings, the values are displayed on the initial screen the next time you start the utility. The settings in the [Printer Setup] and [Logo File List] of [Logo Settings] are saved.</p>

3.2 Setting the Printer Name and Port

This section describes how to use the [Printer Name and Port Settings] screen. Use this screen to select which printer to use and set the connection port.


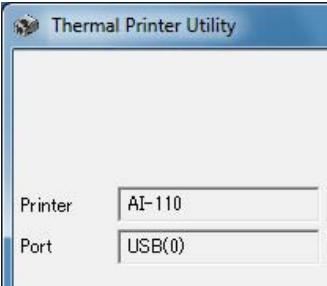


This screen is displayed if:

- The connection port is not set when the utility is started for the first time
- The connection with the printer cannot be detected when the utility is started
- The [Printer Name and Port Settings] button is clicked on the main screen

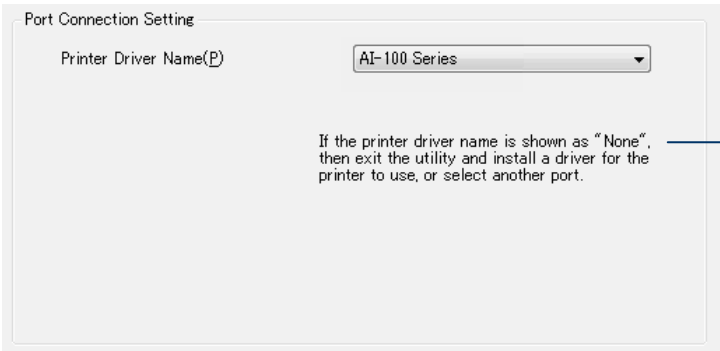
<Instruction>

1	Turn on the printer	Connect the PC to the printer and turn on the printer.
2	Select the [Language]	Select Language you want to use.
3	Select the [Printer Name]	Select which AI-100 Series printer you want to use.
4	Select the [Connected Port]	<p>Specify one of the following interfaces (ports) to connect the PC to the printer:</p> <ul style="list-style-type: none">• Port configured in the Windows printer driver (*1)• USB : If the printer is connected to a USB port• COM : If the printer is connected to a COM (RS232C serial) port• LAN : If the printer is connected via a LAN <p>*1: Use the port configured in the Windows printer driver. To use this port, you must have installed a printer driver for the printer you are using.</p>

5	[Port Connection Setting]	<p>Specify the detailed settings for the connection port. The values depend on the port. For more information, please see the following chapters:</p> <ul style="list-style-type: none"> • For the Windows printer driver port setting ⇒ See Chapter 3.2.1 • For USB ⇒ See Chapter 3.2.2 • For COM ⇒ See Chapter 3.2.3 • For LAN ⇒ See Chapter 3.2.4
6	[OK]/[Cancel]	<p>Click [OK]. A message box appears after a short time indicating that the connection is in progress.</p>  <p>The main screen is displayed if the connection with the printer is verified. The printer name and port settings are shown in the upper left of the screen in the [Printers] and [Ports] fields.</p>  <p>The figure in brackets after USB indicates the serial number. If the printer's "Serial Number" is set to "Disabled," "0" is displayed.</p> <p><Guide> If you click [Cancel] and the connection with the printer cannot be verified, you cannot set the printer or view the information on the main screen. Unavailable settings are grayed out.</p>

3.2.1 Windows Printer Driver Port

This section describes how to specify the [Port Connection Setting] when you select "Port Configured in Windows Printer Driver" in [Connected Port].



<Guide>
If no printer driver has been installed for the specified printer, "None" is displayed.
In this case, the [OK] button is grayed out.
Follow the instructions on the screen.

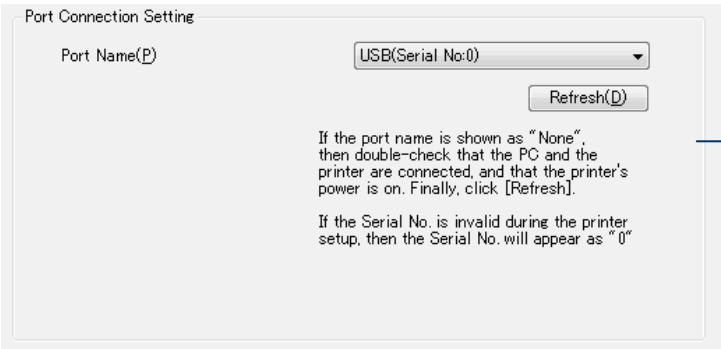
<Settings>

Setting Item	Description
Printer Driver Name	Specify a name for the printer driver (user-friendly name).

<Guide>
If connected via network, the port must be an Raw port created by Printer LAN Settings Tool. IPP, Windows Standard TCP/IP and Windows LPR ports are not supported.
Note that, if an Raw port created by Printer LAN Settings Tool is used as the Windows printer driver port, the port name should be "FPr_XXX.XXX.XXX.XXX".
(Where, "XXX.XXX.XXX.XXX" is the IP address.)

3.2.2 USB Port

This section describes how to specify the [Port Connection Setting] when you select "USB" in [Connected Port].



<Guide>
If the printer is turned off or not connected, "None" is displayed. In this case, the [OK] button is grayed out. Follow the instructions on the screen.

<Settings>

Setting Item	Description
Port Name	<p>Specify the USB port to which the printer is connected. The "Serial No." enclosed in brackets indicates the manufacturer's number (serial number) of the printer.</p> <p><Guide> Serial No. is "0" if the "Serial Number" setting of the printer is set to "Disabled."</p>
Refresh	<p>Retrieves the serial number from the USB printer and updates the [Port Name] field.</p> <p><Guide> The serial number does not appear automatically if the printer is connected after this screen is opened. In this case, click [Refresh] to display the number.</p>

3.2.3 COM Port

This section describes how to specify the [Port Connection Setting] when you select "COM" in [Connected Port].

Port Connection Setting

Port-Name(P) COM1

Baudrate(B) 115200BPS

Format(E) 8NONE1

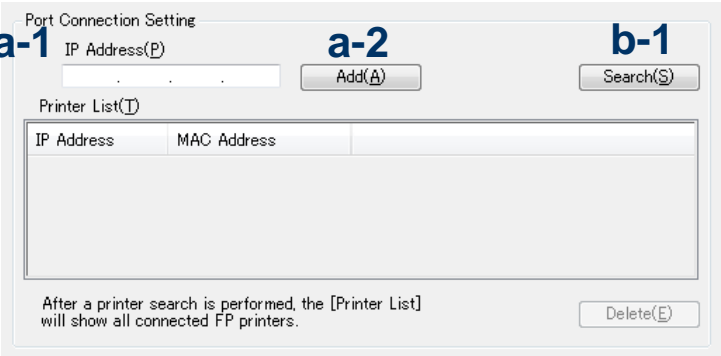
Protokoll(K) DSR/DTR

<Settings>

Setting Item	Description
Port Name	Specify the COM port to which the printer is connected.
COM1	COM1.
COM2	COM2.
COM3	COM3.
COM4	COM4.
Baud rate	Specifies the data transfer connection speed in BPS (bits per second)
2400BPS	2400 BPS.
4800BPS	4800 BPS.
9600BPS	9600 BPS.
19200BPS	19200 BPS.
38400BPS	38400 BPS.
57600BPS	57600 BPS.
115200BPS	115200 BPS.
Format	Specifies the data format (data bit, parity and stop bit).
7EVEN1	Sets 7 data bits, even parity, and 1 stop bit.
7ODD1	Sets 7 data bits, odd parity, and 1 stop bit.
8NONE1	Sets 8 data bits, no parity, and 1 stop bit.
8EVEN1	Sets 8 data bits, even parity, and 1 stop bit.
8ODD1	Sets 8 data bits, odd parity, and 1 stop bit.
Protocol	Specifies the control method for the data flow (protocol).
DSR/DTR	DSR/DTR.
XON/XOFF	XON/XOFF.

3.2.4 LAN Port

This section describes how to specify the [Port Connection Setting] when you select "LAN" in [Connected Port].




You can use the utility to configure the settings and register the logos for all printers connected to the LAN.

To configure or register multiple printers, add the IP address of each printer to the [Printer List]. This can be done by either (a) manually entering the IP addresses, or (b) using the automatic search function to find and add the connected printers.

(a) Manually add IP address

1	Enter the [IP addresses]	Enter the IP address of a connected printer. <Guide> IP addresses "x.x.x.0" and "x.x.x.255" cannot be specified.
2	Add to [Printer List]	Click [Add]. The utility checks the connection to the printer. Once the connection verification is complete, the IP address is added to [Printer List]. If the connection cannot be verified, it is not added to the list. <Guide> Up to 255 IP addresses can be added. The [MAC address] is not displayed when printers are added manually.

(b) Automatically find printers

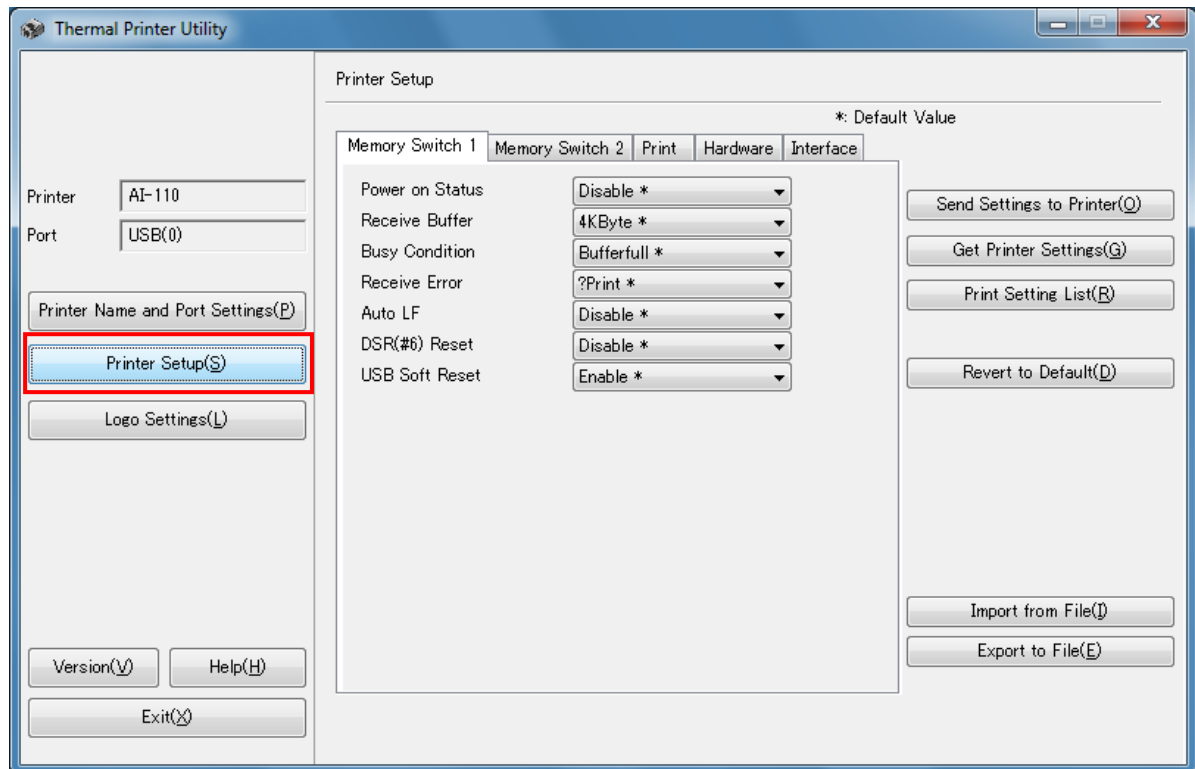
1	Search for printers	Click [Search]. A message box appears indicating the search is in progress. Please wait until it completes.  Once the search is complete, the IP and MAC addresses of the detected printers are added to [Printer List].
---	---------------------	---

<Settings>

Setting Item	Description
IP Address	Enter the IP address of the printer.
Add	Adds the IP address of the printer to [Printer List].
Search	Searches the model printer and shows it in [Printer List].
Printer List	<p>Lists the IP addresses of the printers to be configured or registered.</p> <p><Guide> The [Port] field in the main screen shows the IP addresses selected in this list. When retrieving the configuration information, the printer with this IP address is selected.</p>
Delete	Deletes the selected IP address item from [Printer List].

3.3 Setting up the Printer

This section describes how to use the [Printer Setup] screen. Click [Printer Setup] in the main screen to display the [Printer Setup] screen.

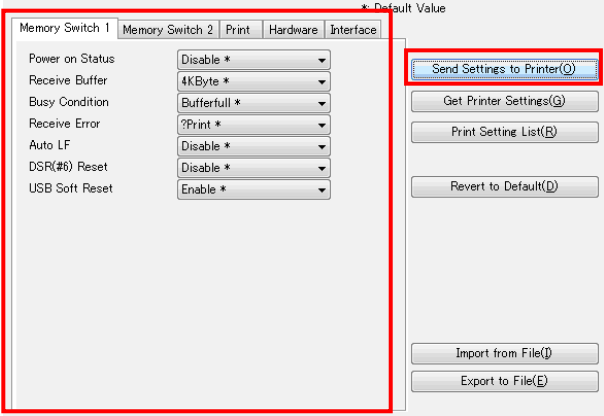
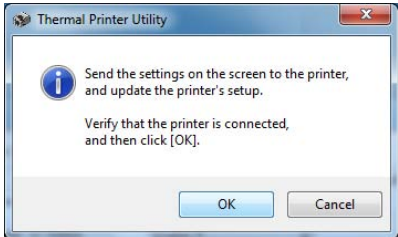


In this screen, you can view (get) or change the printer's setup information and print a settings list.

3.3.1 Changing the Printer Setup

This sends the settings on the screen to the printer to update the printer's setup.

<Instruction>

1		<p>Change the settings in the [Memory Switch1], [Memory Switch2], [Print], [Hardware], or [Interface] tab pages.</p> <p><Guide> The [Memory Switch1], [Memory Switch2], [Print], [Hardware], and [Interface] tabs show the settings for the selected printer.</p> <p>For information on the setup items, please see "4. Description of Setup Items."</p>
2		<p>Click [Send Settings to Printer].</p>
3		<p>When the confirmation message is displayed, check the content and click [OK].</p> <p>↓</p> <p>The settings are sent to the printer. Once the setting is complete, the printer initializes itself.</p>

<Guide>

If you change the [Serial Number] on the [Memory Switch 2] tab to "Enabled" and send the setting to the printer, update the connection port in [Printer Name and Port Settings] before sending or receiving the settings from/to the printer.

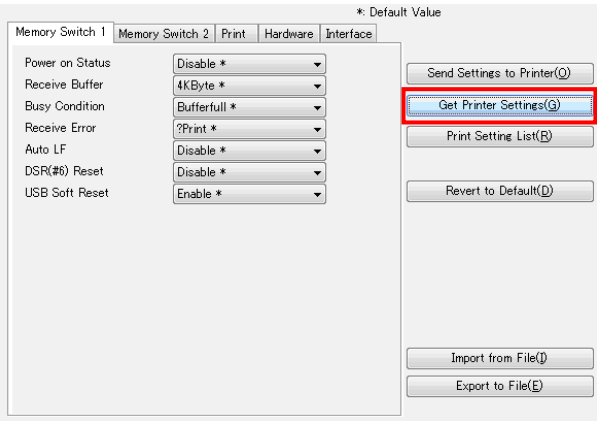
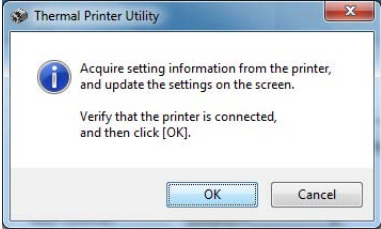
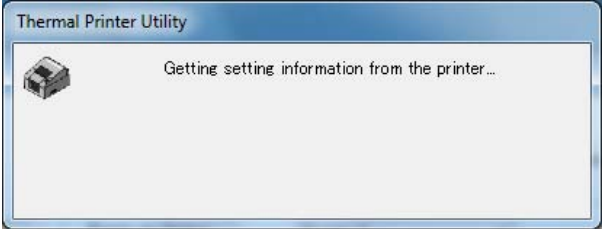
Explanation: If you change the [Serial Number], the serial number sent from the printer to Windows is changed (Disabled: "0" ⇒ Enabled: "Serial Number").

It also causes the Windows USB port to be modified and the connection port needs to be updated accordingly.

3.3.2 Getting and Viewing Printer Setup Information

This retrieves the setup information configured on the printer and displays it on the utility's screen.

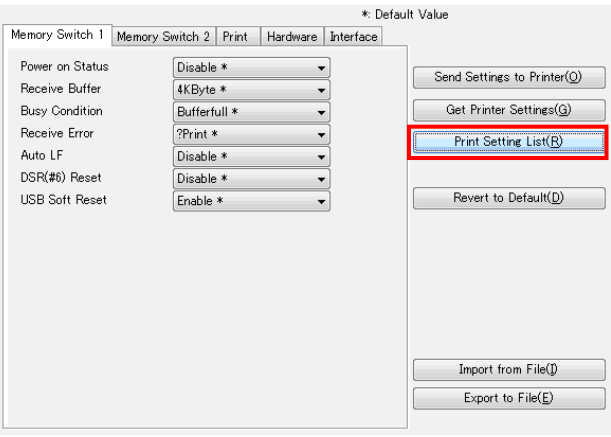
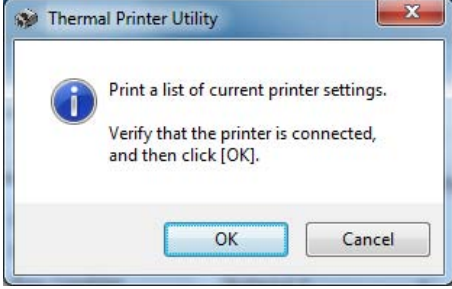
<Instruction>

1		Click [Get Printer Settings].
2		When the confirmation message is displayed, check the content and click [OK].
3		<p>A message box appears indicating information retrieval is in progress. Please wait until it completes.</p> <p>↓</p> <p>When the message box disappears, the settings retrieved from the printer are updated in the [Memory Switch1], [Memory Switch2], [Print], [Hardware], and [Interface] tab pages.</p>

3.3.3 Printing Printer Setup Information

Print the list of setup information configured for the printer.

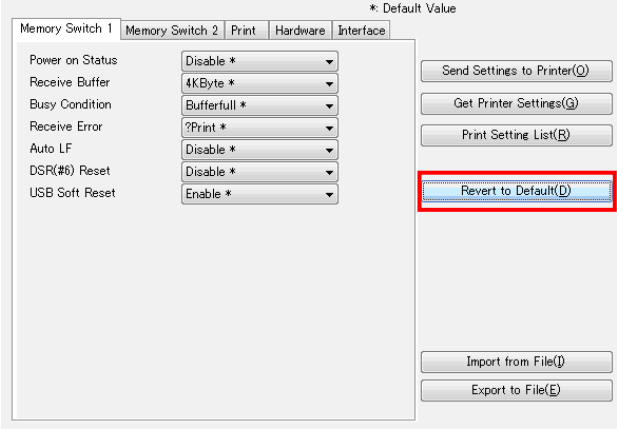
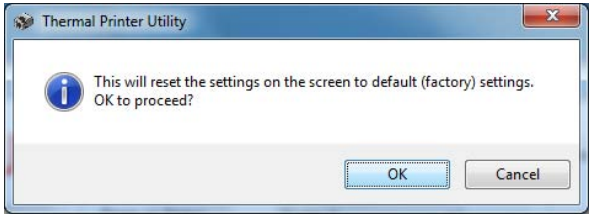
<Instruction>

1		Click [Print Setting List].
2		When the confirmation message is displayed, check the content and click [OK]. ↓ The settings list from the printer is printed.

3.3.4 Restoring the Default Setup

This restores the settings in the Memory Switch1, Memory Switch2, Print, Hardware, and Interface tab pages to their factory defaults.

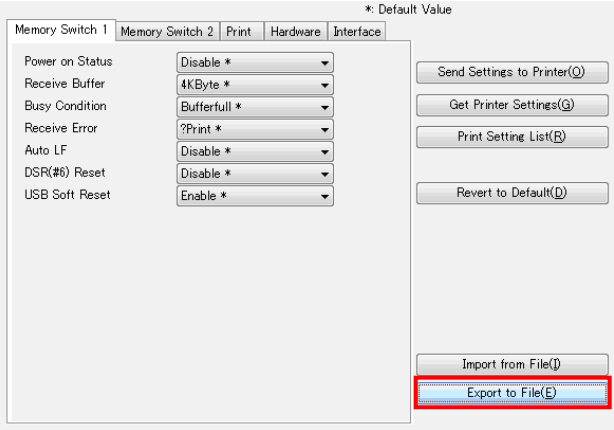
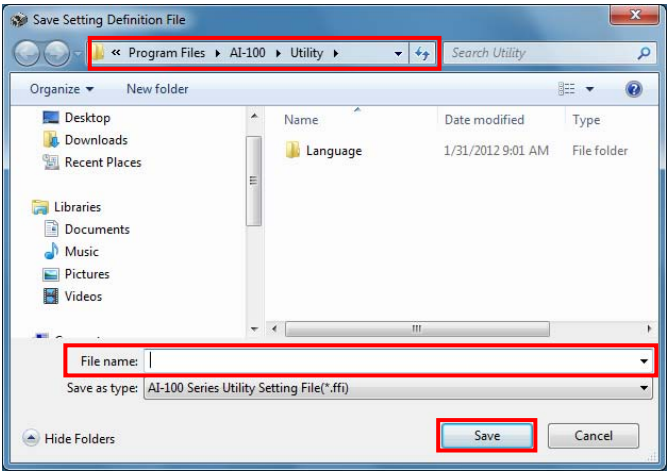
<Instruction>

1		<p>Click [Revert to Default].</p> <p><Guide> Settings indicated by "*" are set to their default value.</p>
2		<p>When the confirmation message is displayed, check the content and click [OK].</p> <p>↓</p> <p>The settings in the [Memory Switch1], [Memory Switch2], [Print], [Hardware], and [Interface] tab pages are restored to their factory defaults.</p>

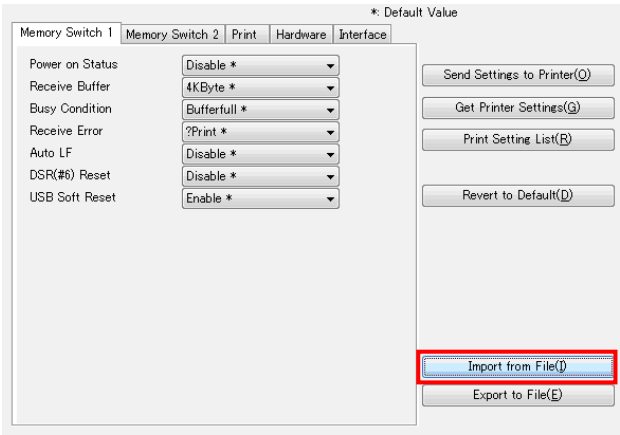
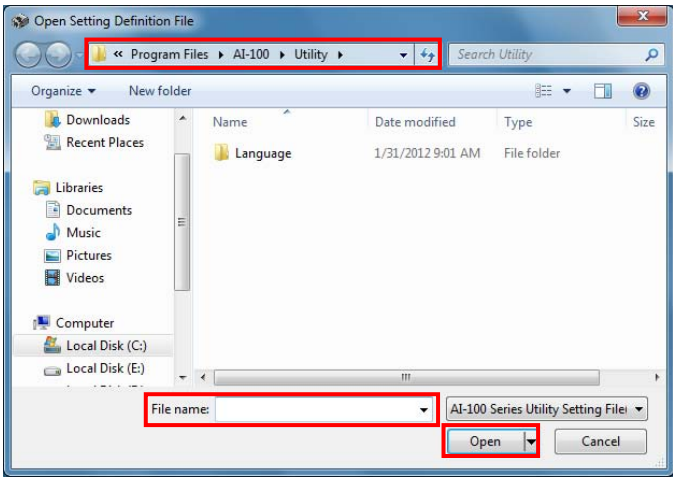
3.3.5 Saving and Loading Setup to or from a File

The settings displayed on the screen can be saved to or loaded from a file.
You can use this function to reuse settings from another PC or copy settings to a different printer.

<Instruction - Save settings to a file>

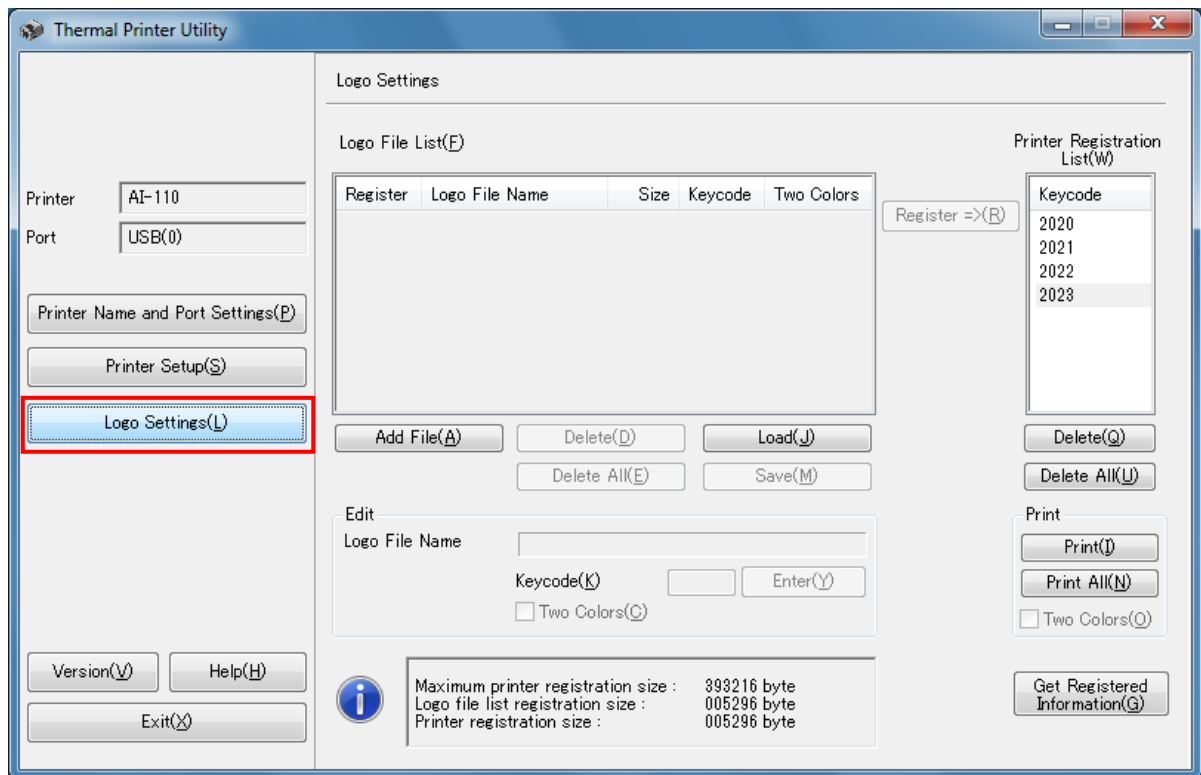
1		Click [Export to File].
2		Specify the [Save in:], and enter a name for the file in [File Name], and then click [Save]. ↓ The file is saved in the specified location.

<Instruction - Load a saved file>

1		<p>Click [Import from File].</p>
2		<p>Specify a [Look in:] and [File Name], and then click [Open]. ↓ The settings from the file are updated on the [Memory Switch1], [Memory Switch2], [Print], [Hardware], and [Interface] tab pages.</p> <p><Guide> Saved files are specific to a particular printer model. You cannot load settings from a file saved for a different model of printer.</p>

3.4 Setting Logos

This section describes how to use the [Logo Settings] screen. Click [Logo Settings] in the main screen to display the [Logo Settings] screen.



In this screen, you can register or delete logos and specify other logo-related settings.

<Guide>

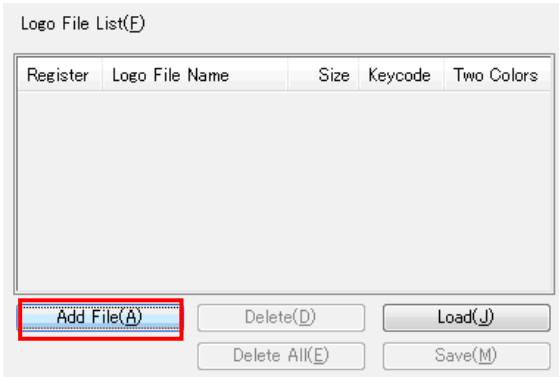
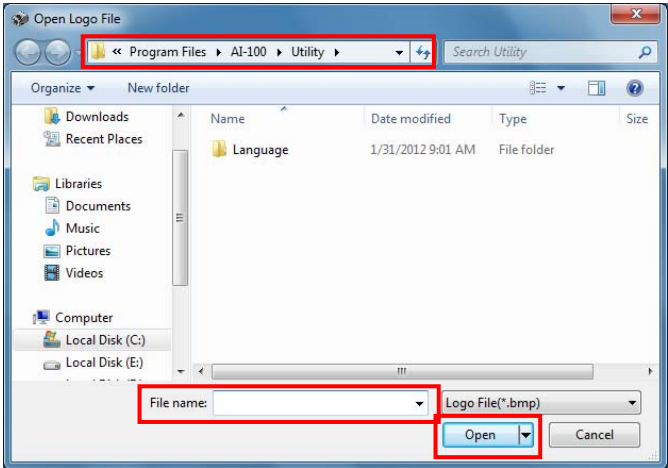
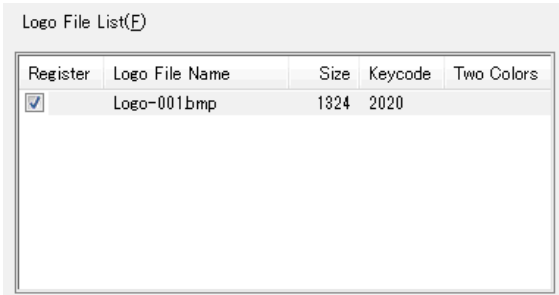
When a printer connection is detected and this screen is displayed for the first time, the key codes for the logos registered in the printer are retrieved. A message box appears indicating retrieval is in progress. Please wait until it completes. Once the retrieval is successful, the logo key codes are displayed in [Printer Registration List].

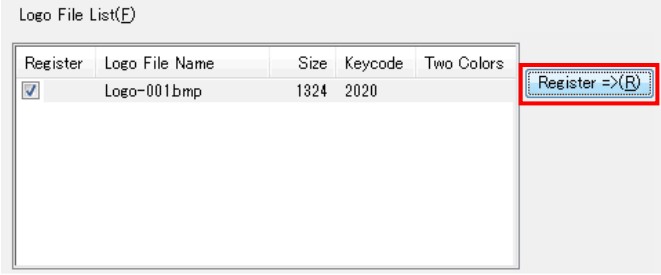
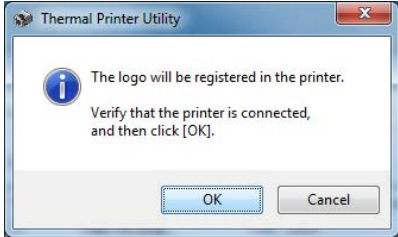
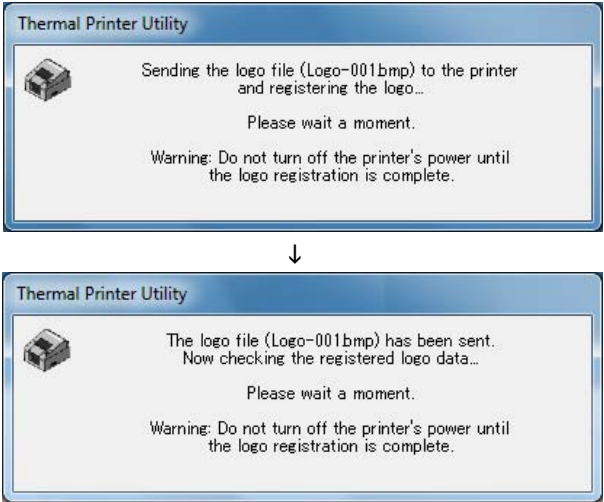
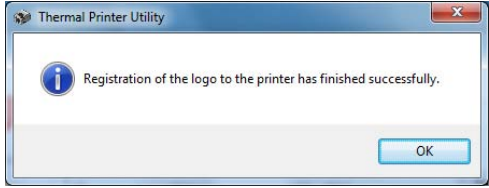
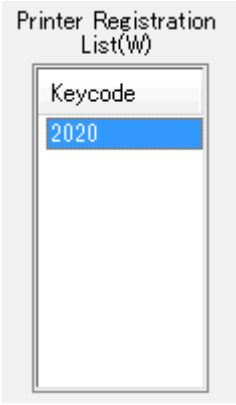
3.4.1 Registering a Logo on the Printer

This registers a logo file for logo printing in the printer's memory.

The registered logo remains in the printer's memory after it is turned off.

<Instruction>

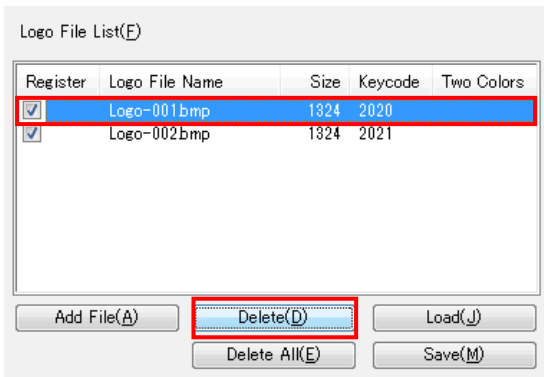
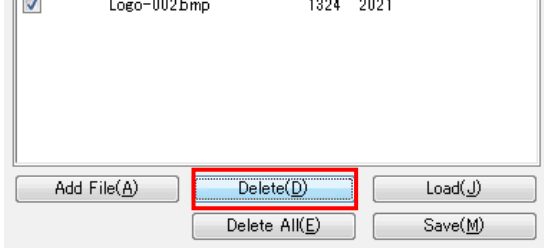
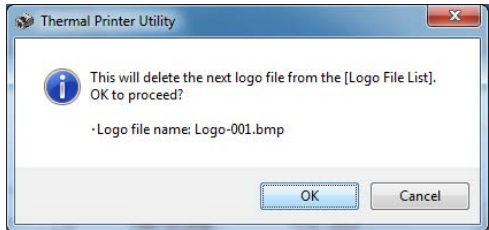
1		Click [Add File] on the [Logo Settings] screen.
2		<p>Specify the logo file to register. Specify a [Look in:] and [File Name], and then click [Open].</p> <p><Guide> The available file type is Windows bitmap file (BMP format).</p>
3		<p>The file is added to [Logo File List].</p> <p>You can register multiple logos at a time. Repeat steps 1 and 2 to add the desired logos to [Logo File List].</p> <p><Guide></p> <ul style="list-style-type: none"> Up to 60 files can be added to [Logo File List]. The maximum permitted size depends on the [Graphic Memory] setting in [Printer Setup]. If printing the logo in two colors, specify [Two Colors]. The [Keycode] are used as identifiers to manage the logos in the printer. Each key code is a four-digit hex number, starting from 2020. <p>To change [Two Colors] and [Keycode], please see Chapter 3.4.2.</p>

4		<p>Click [Register=>].</p> <p><Guide> The logos with the [Register] checkbox selected in [Logo File List] are registered. You can click the checkbox to register necessary logos only.</p>
5		<p>When the confirmation message is displayed, check the content and click [OK].</p>
6		<p>A message box appears indicating that registration and then checking are in progress. Please wait until this completes.</p>
7		<p>When the completion message is displayed, click [OK].</p>
8		<p>The key code for the logo is updated in the [Printer Registration List].</p>

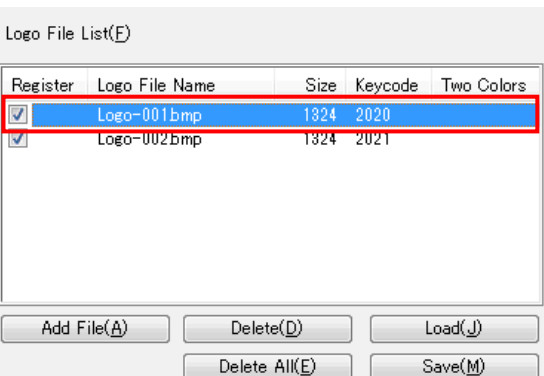
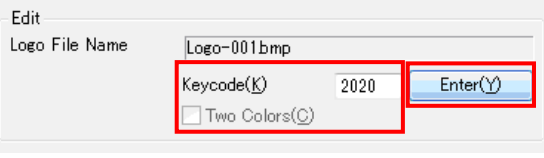
3.4.2 Editing the Logo Files List

You can delete logos from the [Logo File List] and change the [Two Colors] or [Keycode] settings.

<Instruction - Delete a logo>

1		Select (click) the logo you want to delete from [Logo File List].
2		Click [Delete]. <Guide> To delete all the logos from the list, click [Delete All]. You do not need to select the logos in [Logo File List].
3		When the confirmation message is displayed, check the content and click [OK]. ↓ The specified logo is deleted from [Logo File List].

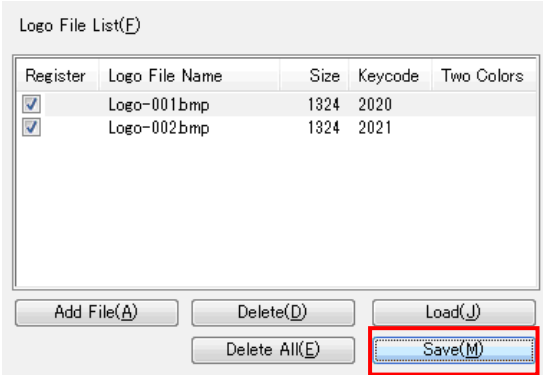
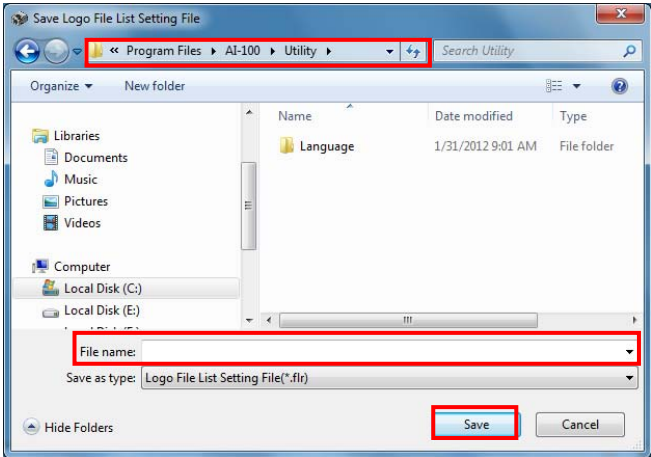
<Instruction - Change settings>

1		Select (click) the logo you want to modify in [Logo File List].
2		In the [Edit] group, change the [Keycode], select the [Two Colors] checkbox if you want to use two colors, and then click [Enter]. ↓ The changes are updated in the [Logo File List].
	<p><Guide></p> <ul style="list-style-type: none">▪ [Keycode] is specified as a four-digit hexadecimal (1-byte numbers with upper two digits of 20 - 7E and lower two digits of 20 - 7E).▪ [Two Colors] can be specified if the bitmap format of the logo file is 16 or 256 colors.	

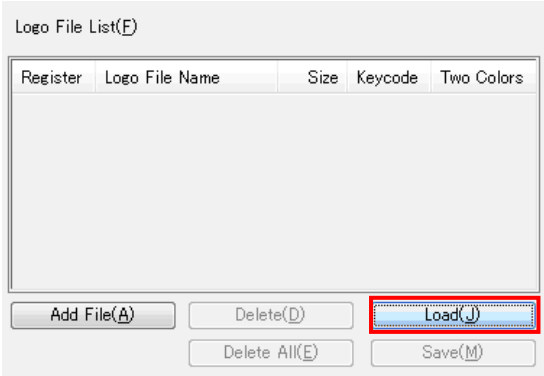
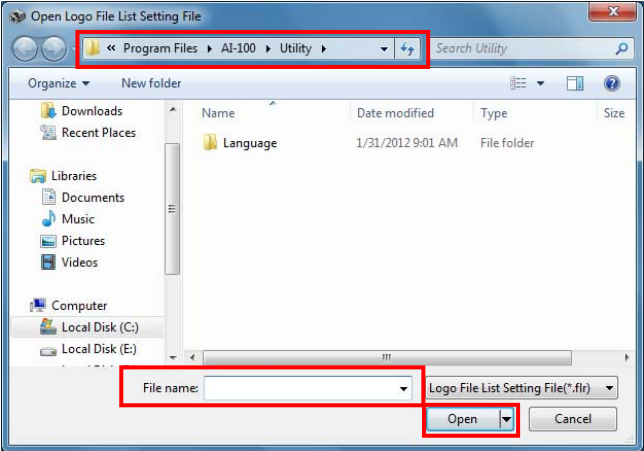
3.4.3 Saving and Loading the Logo Files List to or from a File

The content of the [Logo File List] can be saved to or loaded from a file.
This provides an easy way to reuse a previously created list from another PC or copy the list to a different printer.
(Note that the locations and names of the logo files must be the same as when they were added to the list.)

<Instruction - Save logos to a file>

1		Click [Save].
2		Specify the [Save in:], and enter a name for the file in [File Name] and then click [Save]. ↓ The file is saved in the specified location.

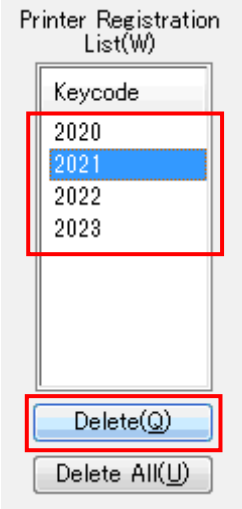
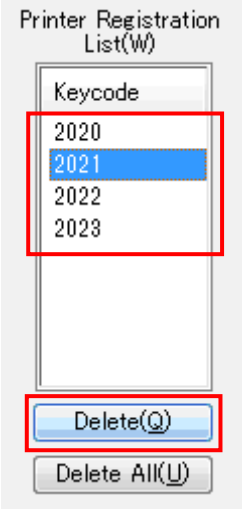
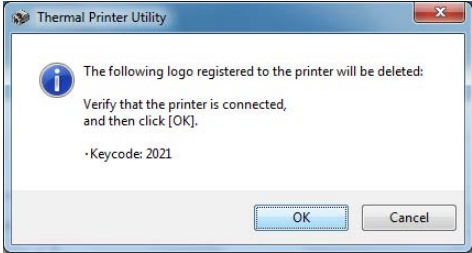
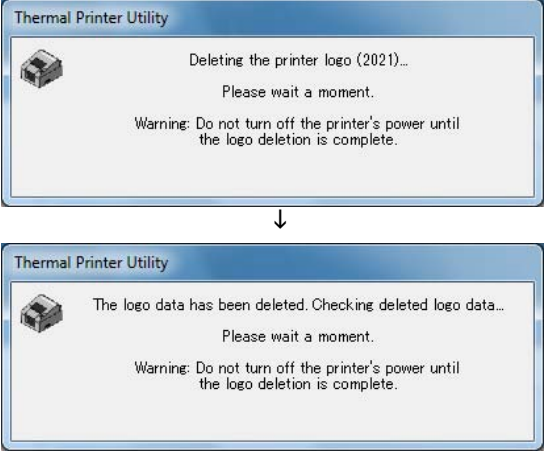
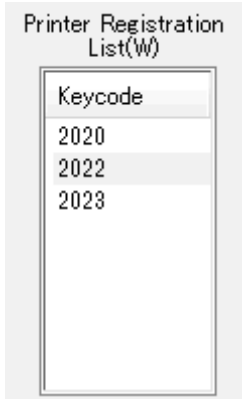
<Instruction - Load the File>

1		Click [Load].
2		<p>Specify a [Look in:] and [File Name], and then click [Open].</p> <p>↓</p> <p>The logo information from the file is updated in the [Logo File List].</p> <p><Guide></p> <p>If a logo file has been deleted or moved since it was saved, the logo does not appear in the [Logo File List].</p>

3.4.4 Deleting Logos from the Printer

This deletes logos saved on the printer.

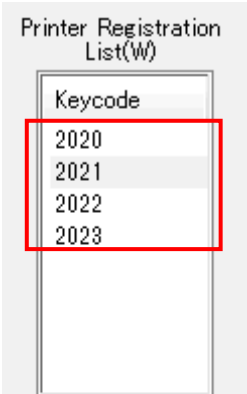
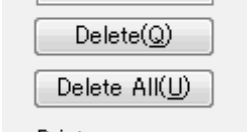

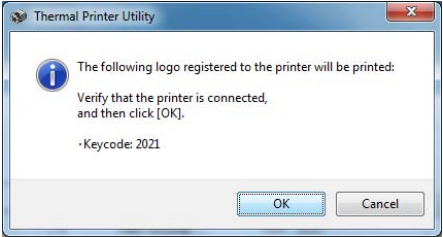
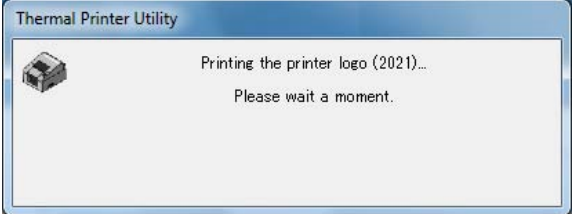
<Instruction>

1		<p>Select (click) the logo you want to delete from [Printer Registration List].</p> <p>* The following explanation uses the logo with key code "2021" as an example.</p>
2		<p>Click [Delete].</p> <p><Guide> To delete all the logos stored on the printer, click [Delete All]. You do not need to select the logos in [Printer Registration List].</p>
3		<p>When the confirmation message is displayed, check the content and click [OK].</p>
4		<p>A message box appears indicating deletion and then checking is in progress. Please wait until this completes.</p>
5		<p>Check to see that the specified logo is deleted from [Printer Registration List].</p>

3.4.5 Printing and Checking Logos Registered on the Printer

You can print and check logos saved on the printer.

<Instruction>

1		<p>Select (click) the logo that you want to print in [Printer Registration List].</p> <p>* The following explanation uses the logo with key code "2021" as an example.</p>
2		<p>If printing the logo in two colors, check [Two Colors].</p> <p><Guide> Two-color printing is available for logos registered with the [Two Colors] setting. Otherwise, the logo is printed in black and white.</p>
3		<p>Click [Print].</p> <p><Guide> To print all the logos saved on the printer, click [Print All]. You do not need to select the logos in [Printer Registration List].</p>
4		<p>When the confirmation message is displayed, check the content and click [OK].</p>
5		<p>A message box appears indicating printing is in progress. Please wait until it completes.</p> <p><Guide> If [Print All] is clicked when multiple printers are connected via a LAN, a message box appears indicating that logo information is being retrieved prior to printing. Please wait until it completes.</p>


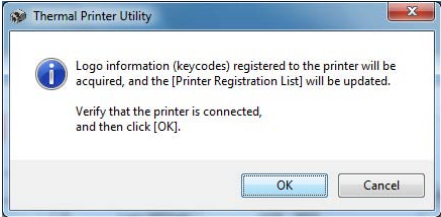

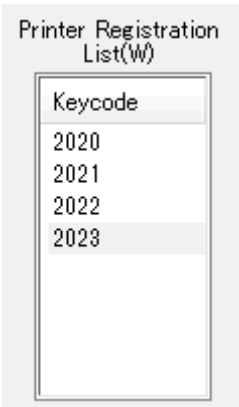
<p>6</p>	<p>The specified logo is printed. The following example shows a logo printed with the [Two Colors] setting turned off.</p> <table><tr><td data-bbox="339 237 624 271"><p>[Logo file]</p></td><td data-bbox="659 237 831 271"><p>[Printed result]</p></td></tr><tr><td data-bbox="339 271 624 465"><p>Logo</p></td><td data-bbox="718 271 1051 465"><div>Logo2021 (Monochromatic)</div><p>Logo</p></td></tr></table>	<p>[Logo file]</p>	<p>[Printed result]</p>	<p>Logo</p>	<div>Logo2021 (Monochromatic)</div> <p>Logo</p>
<p>[Logo file]</p>	<p>[Printed result]</p>				
<p>Logo</p>	<div>Logo2021 (Monochromatic)</div> <p>Logo</p>				

3.4.6 Retrieving Logo Information from the Printer

You can check the key code information for logos registered on the printer.

If the printer is connected, the latest information is automatically retrieved from the printer and displayed in the [Printer Registration List] when the [Logo Settings] screen is opened and when logos are registered or deleted. However, you can also manually update this information.

<Instruction>

1		Click [Get Registered Information].
2		When the confirmation message is displayed, check the content and click [OK].
3		A message box appears indicating retrieval is in progress. Please wait until it completes.
4		The key code information retrieved from the printer is updated in the [Printer Registration List].

3.4.7 Checking Remaining Logo Memory Space

You can use the [Logo Settings] screen to check the maximum memory space available for saving logos and how much of this is currently used.

The following information is displayed at the bottom of the [Logo Settings] screen. The values are updated when the logo information is retrieved from the printer by clicking [Logo Settings] or [Get Registered Information], for example.



<Description>

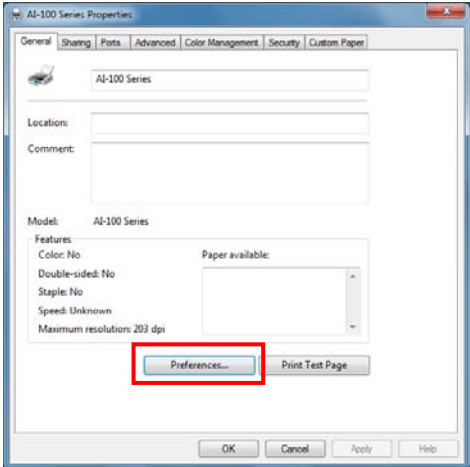
Item	Description
Maximum printer registration size	<p>Displays the maximum memory space available for saving logos on the printer.</p> <p><Guide> If the information cannot be retrieved from the printer, the value is displayed based on the [Graphic Memory] setting in [Printer Setup].</p>
Logo file list registration size	<p>Displays the total size of those logos in [Logo File List] that are actually registered on the printer. The total size is calculated from the "Files Previously Registered with Printer" + "Files Additionally Registered."</p> <ul style="list-style-type: none"> Files Registered with Printer The total size of the logos in [Logo File List] whose key codes match the key codes in the [Printer Registration List]. Files Additionally Resistered The total size of the logos in [Logo File List] whose key codes are not included in the [Printer Registration List] but which have the [Register] checkbox selected. <p><Guide> The calculated size may be incorrect if there is a difference between the logos in the printer and the logos in [Logo File List] with matching key codes.</p>
Printer registration size	<p>Displays the total size of the logos registered on the printer (those displayed in [Printer Registration List]). "- " is shown if this information cannot be retrieved from the printer.</p>

3.4.8 Printing a Logo Using the Windows Driver

Once a logo is registered on the printer, it can be included in document printing using the Windows driver by specifying where it is to print (whether it is to print at the start or end of the document, or at the head of each page).

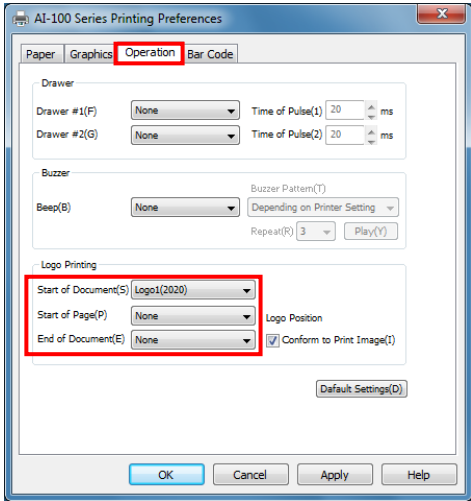
<Instruction>

1



Open the Windows driver's properties and click [Printing Preferences...].

2




Open the [Operations] tab and specify the logo to use for each print position (start of document, start of page, or end of document).

<Guide>
The number in the brackets is the logo key code.

For more information on how to use the printer driver, please see "Windows Driver User's Guide."

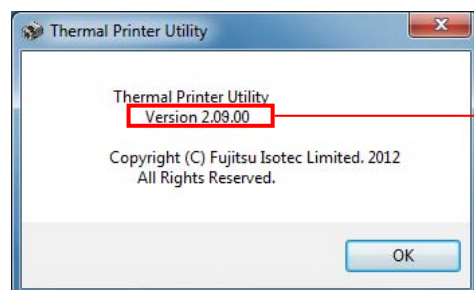
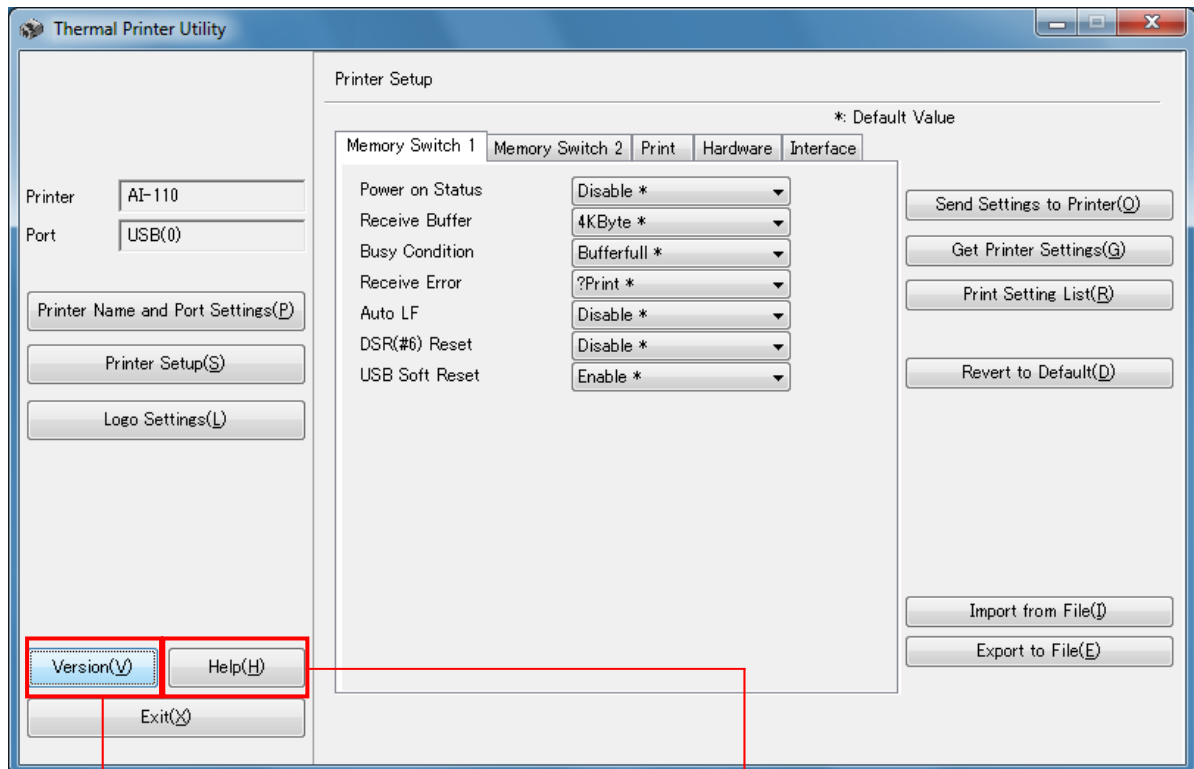
3

Print the document in the application.
This is an example of the printed result:



3.5 Displaying the Version and Help

Click [Version] or [Help] in the main screen to display version information and help for the utility.



Displays help (this manual).

The version of this utility is displayed.

4 Setup Items

This section describes each of the printer setup items.

4.1 Memory Switch 1 Settings

○: Supported (●: Default value), —: Unsupported

Setting Item	Selection	Support Status	Description
		AI-110 / AI-100	
Power on Status	Enable	○	Sets whether to notify the host that the printer is turned off.
	Disable	●	
Receive Buffer	45Byte	○	Sets the size of the reception buffer.
	4KByte	●	
Busy Condition	Bufferfull	●	Sets the condition under which the printer becomes BUSY.
	Offline/Bufferfull	○	
Receive Error	?Print	●	Sets the process to perform when a reception error (parity check error, framing error, overrun error) occurs.
	Ignore	○	
Auto LF	Enable	○	Sets the auto-break due to the reception of the CR code.
	Disable	●	
DSR(#6) Reset	Enable	○	Sets whether to reset in response to a DSR(#6) signal.
	Disable	●	
USB Soft Reset	Enable	●	Sets whether to reset in response to a USB soft reset signal.
	Disable	○	

4.2 Memory Switch 2 Settings

○: Supported (●: Default value), —: Unsupported

Setting Item	Selection	Support Status	Description
		AI-110 / AI-100	
Cover Open Error	Auto Recovery	●	Sets the recovery method when the cover is open during printing. * Select "Auto Recovered Error" if you want to continue printing the document after the cover is closed.
	Recovery by CMND	○	
Error	Auto Recovery	●	Sets the operation when turned on and at the time of error recovery. * For Windows drivers, "Auto" should be used.
	Recovery by CMND	—	
Batch (COM IF)	Enable	●	Sets whether to perform bulk printing when using the serial interface. * Set to "Sequential" to improve the print speed.
	Disable	○	
Batch (Other IF)	Enable	○	Sets whether to perform bulk printing when using the USB or LAN interface. * Set to "Bulk" to improve the print quality.
	Disable	●	
Serial Number	Enabled	○	Sets the serial number notification when connected to USB.
	Disabled	●	
ASB	Enabled	●	Sets whether to send an ASB reply.
	Disabled	○	

4.3 Print Settings

○: Supported (●: Default value), —: Unsupported

Setting Item	Selection	Support Status	Description
		AI-110 / AI-100	
Paper Width	80mm/48columns	●	Sets the paper width used for printing.
	80mm/42columns	○	
	58mm/35columns	○	
	58mm/32columns	○	
Max Speed (*1)	100mm/s~220mm/s (By 10mm/s)	●(220mm/s)	Sets the print speed.
Print Density	70%~130% (By 10%)	●(100%)	Sets the print density. * Adjust the print density according to the paper that you are using.

*1 : For the case of "AI-100"

[Selection] : 100mm/s~180mm/s

[Support Status] : ●(180mm/s)

4.4 Hardware Settings

○: Supported (●: Default value), —: Unsupported

Setting Item	Selection	Support Status	Description
		AI-110 / AI-100	
Error Alert	None	●	Sets whether to ring the buzzer when an error occurs.
	One Time	○	
	Continuous	○	
Buzzer Interval	Pattern 1	○	Sets the buzzer sound.
	Pattern 2	●	
	Pattern 3	○	
	Pattern 4	○	
	Pattern 5	○	
Buzzer Repetition	Zero	○	Sets the number of times that the buzzer will repeat.
	One	○	
	Two	○	
	Three	●	
	Four	○	
	Five	○	
Graph/User NV-MEM	384KB/192KB	●	Sets the size of NV memory that can be used by graphics and the user.
	448KB/128KB	○	
	512KB/64KB	○	
	576KB/0B	○	
Cut at CoverClose	Enabled	●	Sets whether to cut when the cover is closed.
	Disabled	○	
PNE Detect	Enabled	●	Sets the paper near-end detection.
	Disabled	○	

4.5 Interface Settings

○: Supported (●: Default value), —: Unsupported

Setting Item	Selection	Support Status	Description
		AI-110 / AI-100	
Baudrate	2400BPS	○	Sets the baud rate (connection speed).
	4800BPS	○	
	9600BPS	○	
	19200BPS	○	
	38400BPS	○	
	57600BPS	○	
	115200BPS	●	
Format	7EVEN1	○	Sets the data format (data bit, parity and stop bit). * The stop bit is fixed as 1 bit.
	7ODD1	○	
	8NONE1	●	
	8EVEN1	○	
	8ODD1	○	
Protocol	DSR/DTR	●	Sets the buffer control protocol. * If printing the document from Windows, we recommend that you use "DSR/DTR."
	XON/XOFF	○	
USB	Printer	●	Sets the operational class of the USB interface. * Usually "Printer" should be used.
	V-COM	○	

5 Precautions for Use

This section describes cautions for use of the utility.

- (1) The [Register], [Delete], and [Print] operations in [Logo Settings] may not function correctly in some cases if [Format] is set to "7EVEN1" or "7ODD1" when using the serial interface.
Please set [Format] to "8NONE1," "8EVEN1," or "8ODD1."

6 Revision History

Revision	Revised Content
1.0.0.0	First Edition(2012.10.03)