Printer Gear Tool

Mobile Printer Gear Manual

Model: LK-P Series

VER. 1.53

Rev.06/2026
Aroot Co., Ltd.
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1. Install Printer Gear

Printer Gear is a Windows application that allows you to manage all the functions provided by Sewoo Mobile Printer in one application.

1.1. Download URL

Printer Gear can be downloaded from the Sewoo website below.

Sewoo home Page Application Download URL :
https://www.miniprinter.com/en/cscenter/download.do

1.2. Installing

1.2.1. Configure the download package

Downloading and extracting the Printer Gear archive creates the main executable, PrinterGear.exe, and ancillary libraries (ARFontLib.dll, IPAddressControlLib.dll, itextsharp.dll, etc.).

1.2.2. How to Install

Download the archive to your PC and extract it to the Local Driver. Run PrinterGear.exe in the unzipped folder. Create a shortcut icon on your desktop to use as needed

1.2.3. Supported Windows OS versions and Library versions

This application is compatible with Windows 7/10/11 and is developed using .NET Framework 4.6.1. If the .NET Framework libraries are not installed according to your Windows environment, please follow the Windows instructions to install the required libraries.

The initial display when the program is launched.

All features except FW Download and Ethernet Search become available once the printer is connected.



2.1. Feature descriptions

Descriptions of the features you see on the left side of the start screen

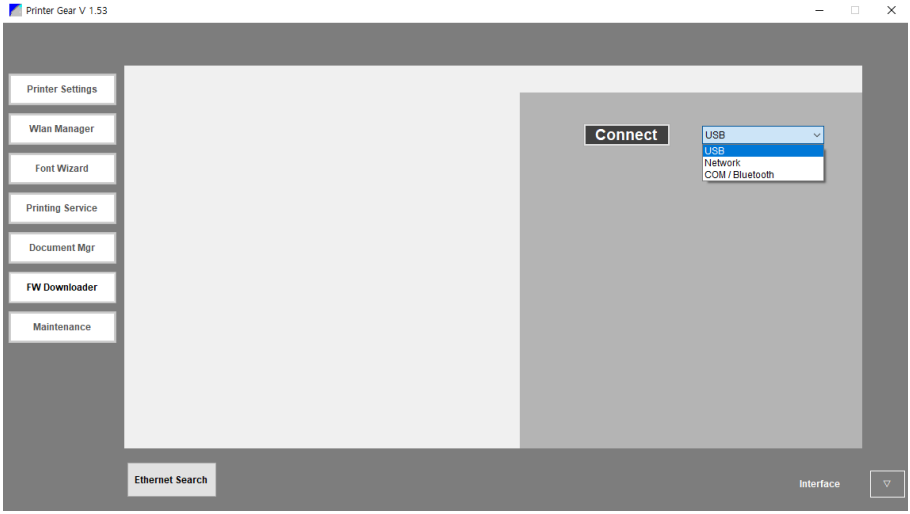
No.	Features	Contents
1	Printer Settings	You can change settings for printer features or copy settings and save them to the Host PC and read them back, making it easy to apply the same settings to other printers. You can read and change information related to Bluetooth, such as changing the printer interface settings, changing the power saver timer settings, changing the emulation settings, changing the paper settings, and changing various margins.
2	WLAN Manager	You can set up the WLAN function, read and verify the settings, and save the WLAN-related settings to a file and apply them to other printers.
3	Font Wizard	For each emulation, you can create supported bitmap fonts and download them to the printer. You can also read, view, and delete fonts stored on the printer.

4	Printing Service	Send printable text files to the printer, capture files sent from the printer, or simply receive incoming information from the printer and display it in the Text viewer. Use the simple text editor to edit text data and send it directly to the printer for immediate printing.
5	Document Manager	Manage image (BMP, Tiff) or text files stored in the printer's storage space and transfer them from the host PC to the printer for storage or test printing (P400/P300).
6	FW Downloader	You can upgrade the Printer FW. ※ The FW download function can be selected even when the PrinterGear is not connected to the printer for Recovery mode FW update. ※ **See 1.1.6 FW Downloader for more information.**
7	Maintenance	It has the function to retrieve the values set in the printer, retrieve and display the life information of the printer, save it as a PDF file, and print the printer configuration report. ※ **See 8.1 Maintenance for more information.**
8	Ethernet Search	This feature allows you to search for or configure the printer's Ethernet settings. It retrieves the Ethernet address of a printer on the same network as your computer. ※ **This feature is supported only on the SLK-SL103 model.**
9	POS Printer Settings	You can view or change the printer settings for POS printers. Unlike the standard Printer Settings, this section includes special features specific to POS printers. ※ **This feature is supported only on the SLK-SL103 model.** ※ **For detailed instructions, refer to Section 10. POS Printer Settings.**

2.2. Connect a printer

Users can choose how they want to connect Printer Gear and their printers.

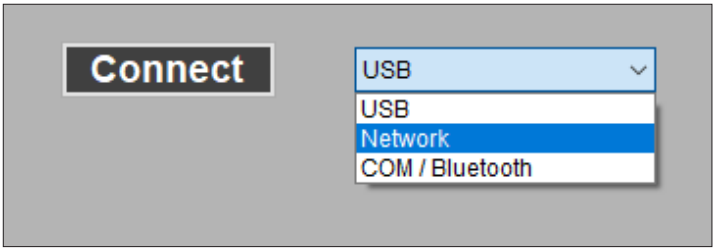
2.2.1. Connecting with USB



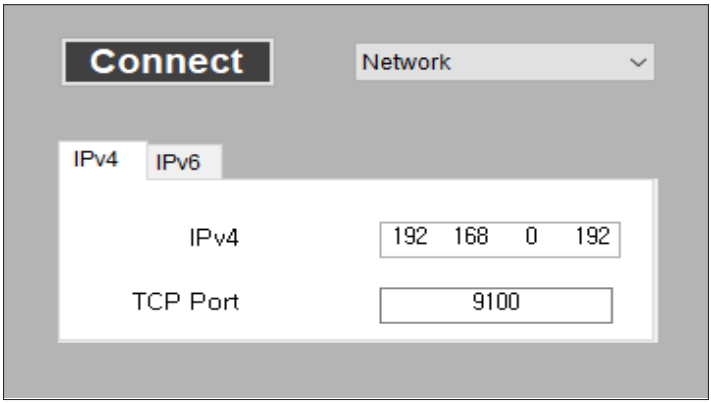
If the printer currently connected or to be connected is a USB printer, simply click “Connect” to connect to the printer without making any additional selections.

2.2.2. Connecting Network

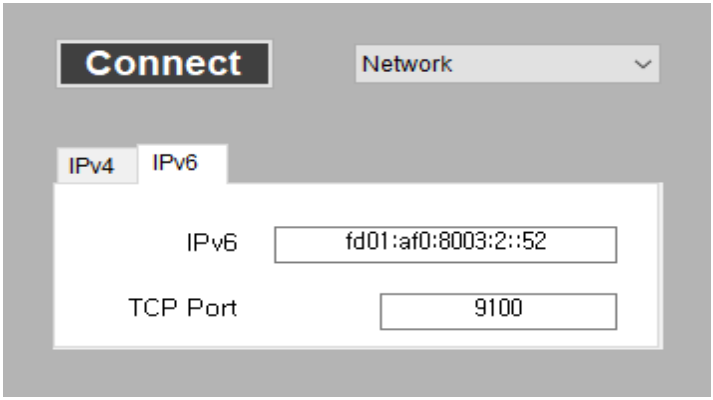
To connect via Wi-Fi, select “Network” as shown in the figure below.



Select “Network” to display an additional input screen where you can enter the printer's IP address and TCP port number, as shown in the figure below. Both IPv4 and IPv6 connection methods are supported.



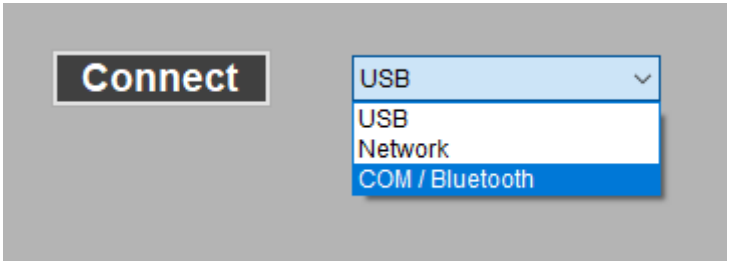
Enter the IP address and TCP port number, then click Connect.
(In most cases, port 9100 is used. If you need to verify this, check with your network administrator.)



For IPv6, enter the IPv6 address and TCP port number, then click Connect.

2.2.3. Connecting with a serial port or Bluetooth

Select COM/Bluetooth, as shown below.

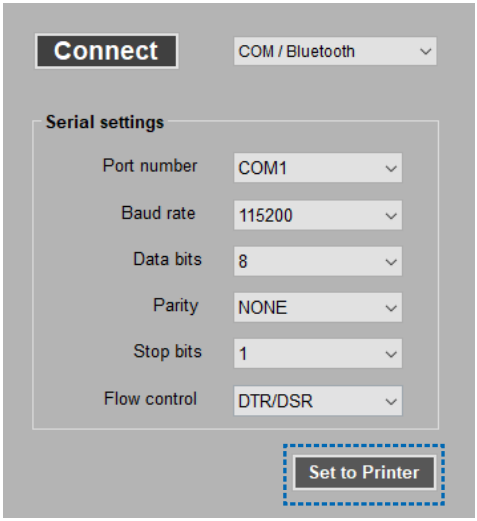


If you're connecting using Bluetooth, select only the port number.

When selecting the port number to connect, make sure to select the same port number that the host PC recognizes the printer via Bluetooth.

When using a serial port, select the following settings: Port number, Baud rate, Data bits, and Parity.

Once you have selected the necessary settings, click Connect to connect to the printer.



The “Set to Printer” feature allows you to configure the printer's serial settings. This feature is only available when the printer is connected via USB.

2.2.4. Check and change the connection with a printer

In the lower right corner of the initial splash screen, you'll see "Interface" and a button of an inverted triangle in a square

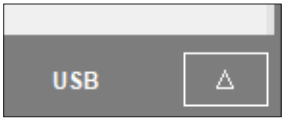


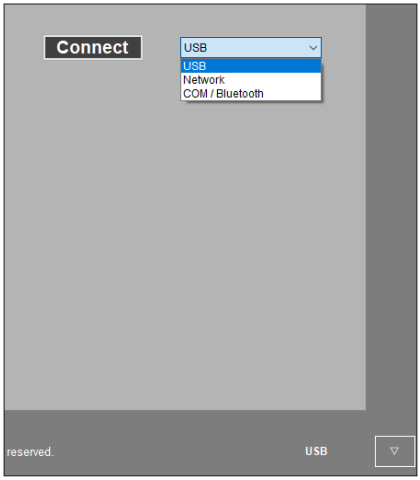
Interface shows how the printer is currently connected.
if the printer is not connected, it shows the current connection method as 'Interface',
and if the printer is connected, it shows the current connection method, USB, WLAN and so on.

Interfacer is not connected	USB plugged in
	

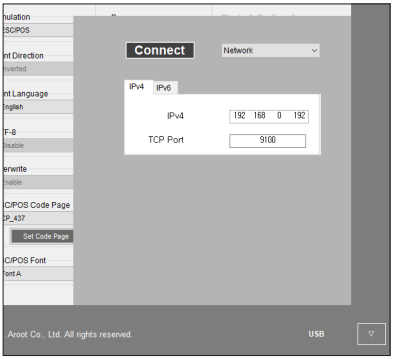
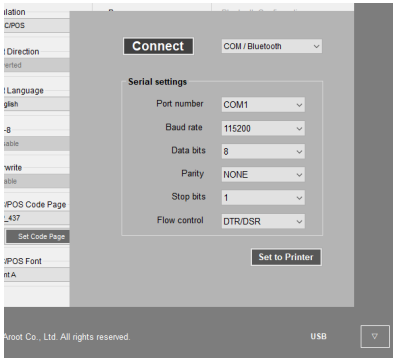
2.2.5. Change the connection method

If the printer is connected via USB, Network, or Bluetooth and want to connect to the same printer or a different printer using a different port, click the button with the triangle to display a window to select a new interface method.

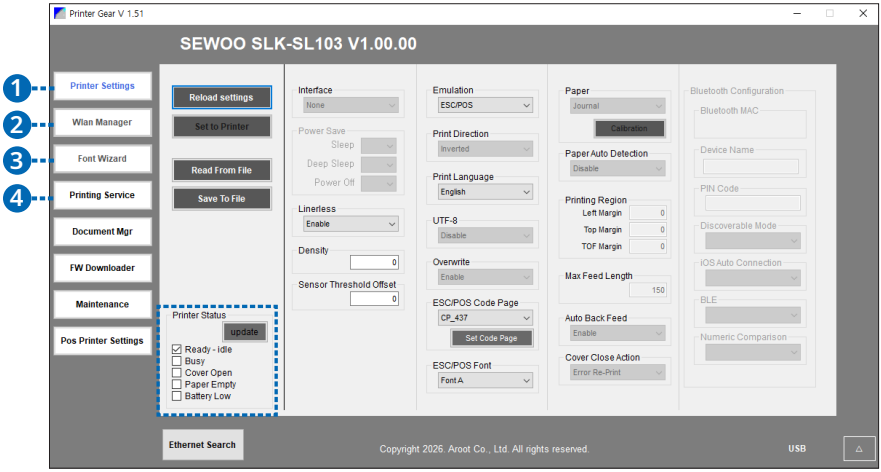




When the Interface window appears as shown below, select the interface you want to connect to and set it up. For Network, set the IP address and then try to connect, and for Bluetooth, set the port number and click connect button.

Network Connections Window	Bluetooth Connections Window
	

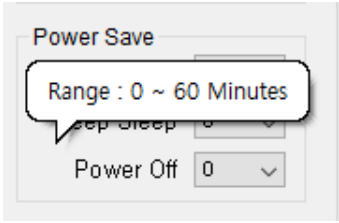
This is what you'll see automatically when the PrinterGear is connected to a printer successfully.

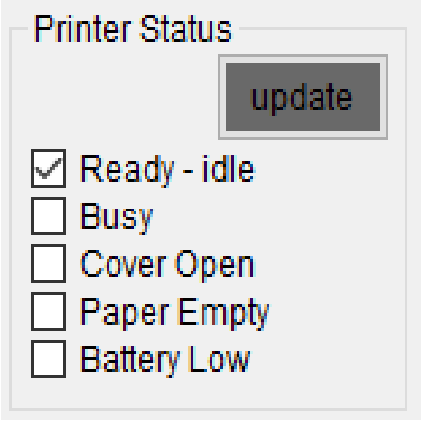


No.	Features	Contents
1	Reload settings	Read the printer's settings again.
2	Set to Printer	Send the feature item you changed to the printer to set it up.
3	Read From File	Reads the item settings that you saved to a file and displays them on the screen.
4	Save To File	Save the on-screen feature-specific settings to a file.

Feature items changed on the screen must be set to the printer via the 'Set to Printer' button for them to be valid on the printer.

Items that require you to enter a value or make a selection will display bubble help when you hover your mouse inside each item's enclosed box.





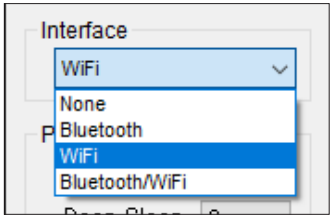
This displays the printer's status. Clicking the “Update” button shown in the image above will update the corresponding status items with checkmarks. The printer status items are as follows:.

No.	Features	Contents
1	Ready - idle	The printer is in a queued state.
2	Busy	The printer is currently processing a job. You cannot perform other tasks at this time.
3	Cover Open	The printer cover is open.
4	Paper Empty	The printer does not detect any paper.
5	Battery Low	The battery is low.

※ This feature is supported only on the LK-P201 and SLK-SL103 models.

3.1. Interface

Select the Interface type to use with the printer.



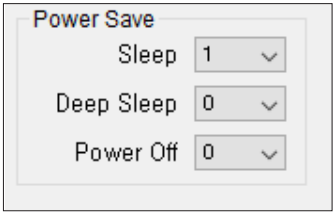
As shown in the figure, you can select None, Bluetooth, WiFi, or Bluetooth/WiFi.
Depending on the product configuration, the displayed menu may vary, or some settings may not be changeable.
If you change this setting and send it to the printer to apply the changes, the printer may automatically restart or power off, depending on the model.

3.2. Power save

3.2.1. Models Supporting Sleep/Deep Sleep/Power Off

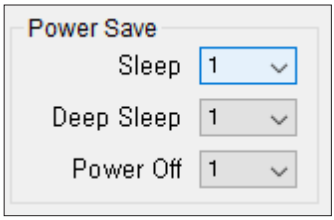
The menu items shown in the figure below are displayed, and the user can select the settings for each function. If the setting is '0', the function is considered disabled.

<Example screen showing a 1-minute sleep mode setting>



The diagram in the example above shows that the device enters Sleep mode after one minute; since the settings for Deep Sleep and Power Off are set to '0', this means that Deep Sleep and Power Off will not activate.

<Example screen with Sleep, Deep Sleep, and Power Off set for 1 minute each>

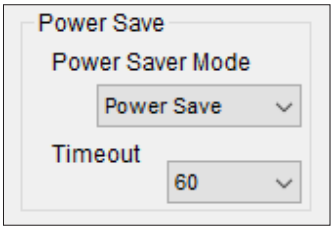


In the example above, the device goes into Sleep mode after 1 minute, then deepens into Deep Sleep mode after 1 minute, and Power off after 1 minute of this state.

3.2.2. Products that support Sleep/Power off

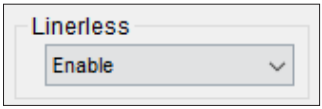
Shows the current power save status and allows you to change the settings.
You can change the Power saver mode to Power Save/Power off by clicking the menu under Power saver Mode, and you can change the time the mode is active by changing the setting.

<Example screen with Power Save 60 minutes set>



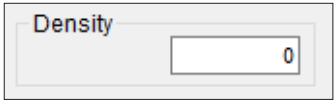
3.3. Linerless

If the print media is linerless paper, select Enable.



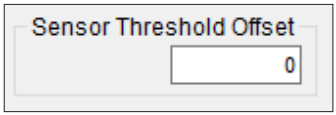
3.4. Density

You can adjust the printer density.
The range of possible values is -127 to 127, with a default value of 0.



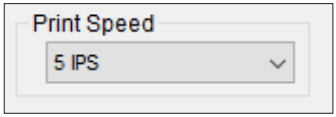
3.5. Sensor Threshold Offset

For blackmarked paper, you can resize the blackmark area.



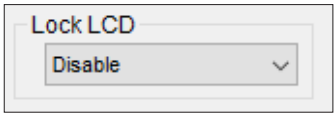
3.6. Print Speed

This is a function to adjust the print speed for LK-P201, LK-P300 and LK-P400 models only.



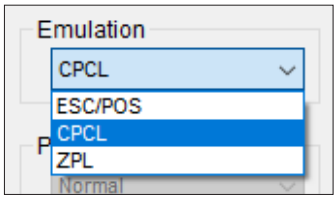
3.7. Lock LCD

For LK-P300 and LK-P400 models only, set to enter a password for setting-related functions on the LCD.



3.8. Emulation

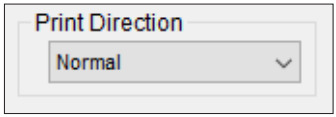
You can set this by selecting the emulation that your printer supports.



For the LK-P300/LK-P400, LK-P201, and SLK-SL103 models, you can select CPCL/ZPL/ESCPOS emulation, while the rest of the models can only select CPCL/ESCPOS or ZPL depending on the FW installed on the printer.

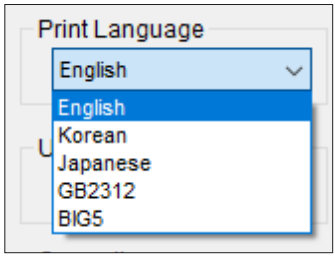
3.9. Print Direction

This is a function to set the print direction for ZPL Emulation only.
Forward and reverse are selectable.



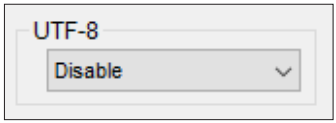
3.10. Print Language

You can select print language for your printer.



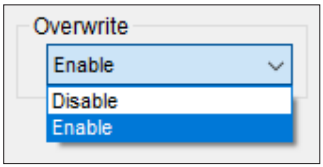
3.11. UTF-8

This feature sets the print direction for ZPL Emulation only.



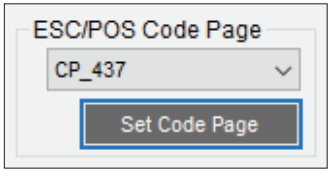
3.12. Overwrite

Select whether to print with overlap on the opposite side if the print data goes beyond the left and right print area. If Disable is selected, print data that goes beyond the print area may be truncated and not printed.

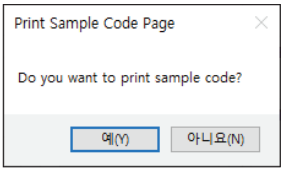


3.13. ESC/POS Code Page

You can select Code Page you want ESC/POS Emulation to use.

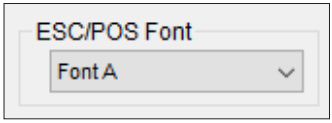


The 'Set Code Page' button changes the printer's code page setting to the code page selected by the user, asks the user if they want to print the sample code, and prints the sample code page if the user selects Yes.



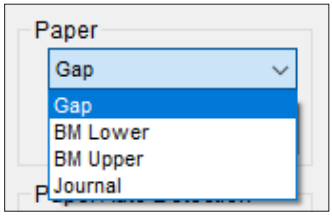
3.14. ESC/POS Font

You can select the type of font to use in ESC/POS Emulation.



3.15. Paper

You can set the type of paper to use for printing.



※ ESC/POS Emulation cannot be set to Paper.

If you select any media except Journal, the Calibration button is enabled. When Calibration is pressed, the printer's print media is set to the selected media, and then calibration starts with the set media.

* For P22 / P34 / P41, proceed only after placing the label paper on the sensor.

* For Gap media calibration, a label sheet have to be removed and the label-removed-sheet region have to be placed on the sensor position of the printer before Gap media calibration start).

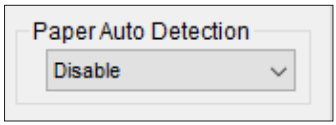
See the table below for configurable media based on Sewoo printer.

< Supported paper types by model >

	P12	P22	P20	P25	P30	P34	P41	P43	P300/ P400	P201/ SL103
Journal	O	O	O	O	O	O	O	O	O	O
Black mark Upper	O	X	X	X	O	X	O	O	O	O
Black mark Lower	O	O	O	O	O	O	O	O	O	O
GAP	O	O	X	X	O	O	O	O	O	O

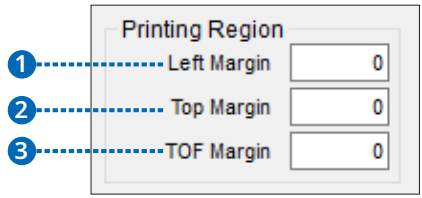
3.15.1. Paper Auto Detection

This feature automatically recognizes paper. When you open the paper cover, load the paper, and close the cover, the printer feeds the paper and automatically recognizes the type of paper.



3.16. Printing Region

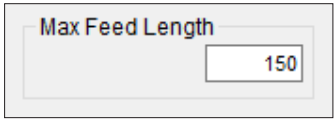
You can set the printer area.



No.	Features	Contents
1	Left Margin	Set the left margin.
2	Top Margin	Set the top margin.
3	TOF Margin	Set the bottom margin.

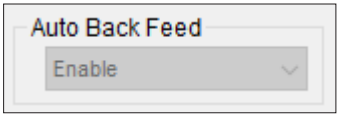
3.17. Max Feed Length

Sets the maximum length that the printer will recognize and print.
For Black mark paper or GAP paper, this value must be greater than the length of the label area on the actual paper



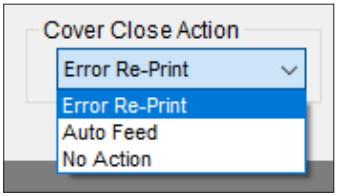
3.18. Auto Back Feed

Sets whether to Back Feed when printing.



3.19. Cover Close Action

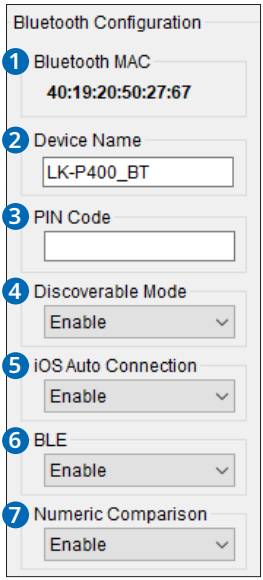
Sets the action to take when the printer cover is closed.



No.	Features	Contents
1	Error Re-Print	Print the data that failed to print.
2	Auto Feed	Feed a certain amount. For black mark paper or GAP paper, feed the paper to the next Label area.
3	No Action	Performs no action.

3.20. Bluetooth Configuration

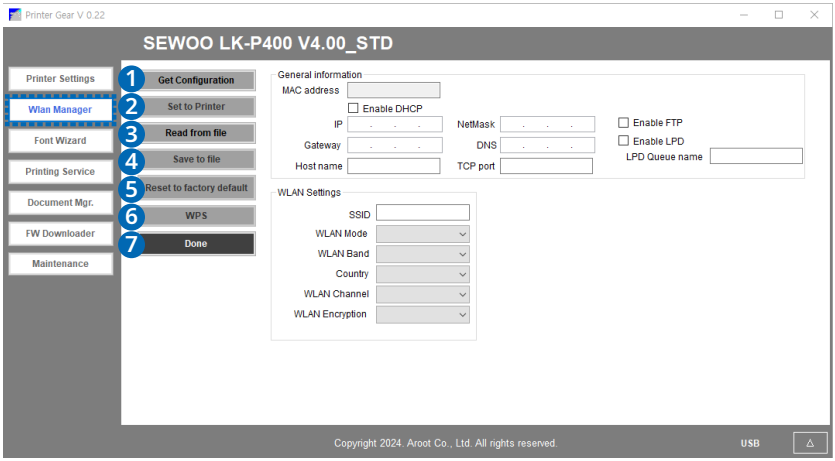
Activated when a Bluetooth device is installed to show relevant setup information and allow you to change settings.



No.	Features	Contents
1	Bluetooth MAC	Shows the hardware address value of the Bluetooth device.
2	Device name	You can view and rename Bluetooth politics.
3	Pin Code	You can set a PIN code for your Bluetooth device.
4	Discoverable Mode	Enables external devices to find the printer's Bluetooth.
5	iOS Auto Connection	Enable auto-connect to iOS devices.
6	BLE	Enable BLE functionality for Bluetooth devices.
7	Numeric Comparison	Enable security via recognition code when connecting Bluetooth devices.

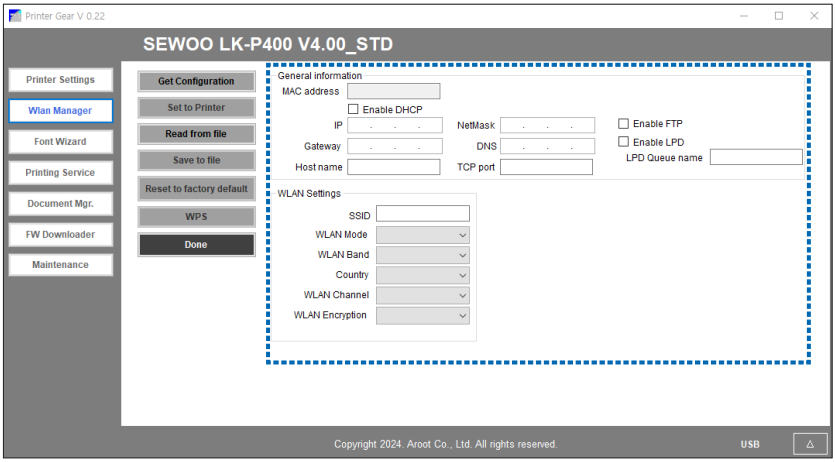
4.1. WLAN Management Menu

Click the 'WLAN Manager' button on the left side of the program to set up your WLAN (WiFi).



No.	Features	Contents
1	Get Configuration	Gets the WLAN settings for the current printer.
2	Set to Printer	Send the settings you changed in the program to the printer to set them up.
3	Read from file	The WLAN settings you saved to a file are read and displayed on the program screen.
4	Save to file	Save the settings shown on the program screen to a file.
5	Reset to factory default	Resets WLAN-related settings to factory values.
6	WPS	Enable WPS functionality.
7	Done	Exit WLAN settings and go to the Printer Settings screen.

4.2. WLAN Settings menu

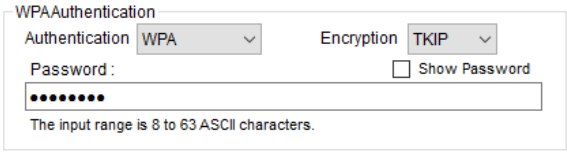


Functionality	Contents
MAC address	Shows the hardware address of the WLAN device.
Enable DHCP	If the Auto Address Setting feature is enabled by clicking the check box, the IP / Netmask / Gateway / DNS fields will be disabled and the respective addresses will be automatically obtained from the AP. If DHCP is not enabled, it will be recognized as using a static IP address and the user will need to enter the IP / NetMask / Gateway / DNS address manually.
Enable FTP	Check the checkbox to enable the FTP feature.
Enable LPD	Selecting the checkbox enables the LPD feature and allows you to view and change the LPD port name.
Host name	A name that identifies the printer.
TCP port	You can enter a port number to connect to with TCP communication.
SSID	The name of the network AP to which the printer is connected. How to Use Double Quotes (”) and Slashes (/) 1. If you want to use /TEST, enter //TEST 2. If you want to use “TEST, enter /”TEST 3. If you want to use //TEST, enter ////TEST 4. If you want to use “”TEST, enter /“/”TEST
WLAN mode	You can select Ad-hoc, Infrastructure, or Soft-AP mode.

WLAN Band	You can select 2.4GHz (802.11b)/5GHz (802.11a).
Country	Select a country code.
WLAN Channel	Select the channels supported in the selected country.
WLAN Encryption	You can select the encryption method according to the WLAN mode.

- WPA Authentication

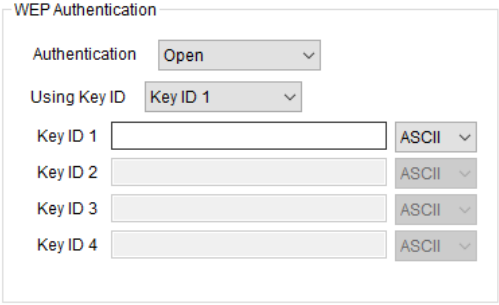
  This is the settings window that pops up when you select WPA as the WLAN Encryption method.



Features	Contents
Authentication	Select the WPA authentication method.
Encryption	Select the WPA encryption method.
Password	Enter a passcode to access the AP. At this point, you can check Show Password to show the contents of the password.

- WEP Authentication

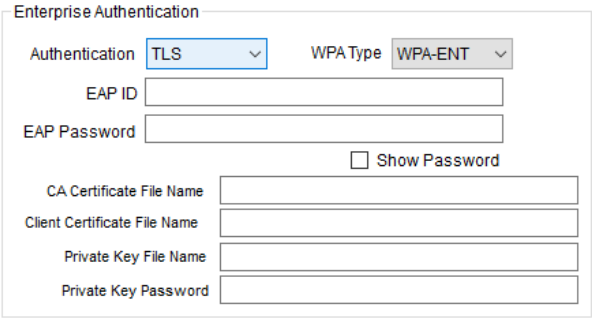
This is the settings window that appears when you select WLAN Encryption as WEP64 or WEP128.



Features	Contents
Authentication	Select the authentication method of Open/Shared Key/Both that is displayed according to the characteristics of the WLAN device installed on the printer.
Using Key ID	From Key ID 1 to 4, select a key ID to use for authentication.
Key ID 1 ~ 4	You can set a password with 5 to 10 digits for WEP64 and 10 to 26 digits for WEP128.

- Enterprise

  The settings window that appears when you select 802.1x as the WLAN encryption method.



Features	Contents
Authentication	Select an EAP authentication method.
WPA Type	Select a WPA type.
EAP ID	Enter the EAP identity for 802.1x authentication.
EAP Password	Enter the EAP secret for 802.1x authentication.
CA Certificate File Name	Enter the CA certificate file.
Client Certificate File Name	Enter the client certificate file.
Private Key File Name	Enter the private key file for TLS authentication.
Private Key Password	Enter a password to generate the TLS certification.

4.3. How to set up a WLAN

Follow the steps below to set up your WLAN.

1 Run the Printer Gear Application, and connect the powered-on printer to the Host PC via USB.

2 In the Printer Gear Application, press the 'Connect' button to establish communication with the printer.

3 Click 'WLAN Manager' on the left side of the Printer Gear Application.

4 Click 'Get Configuration' on the new screen to read the status of the printer's WLAN settings.

5 Check 'DHCP' if your environment supports DHCP, otherwise enter the IP/Netmask/Gateway/DNS information.

6 Verify the host name and TCP port information (in most cases, no modifications are required).

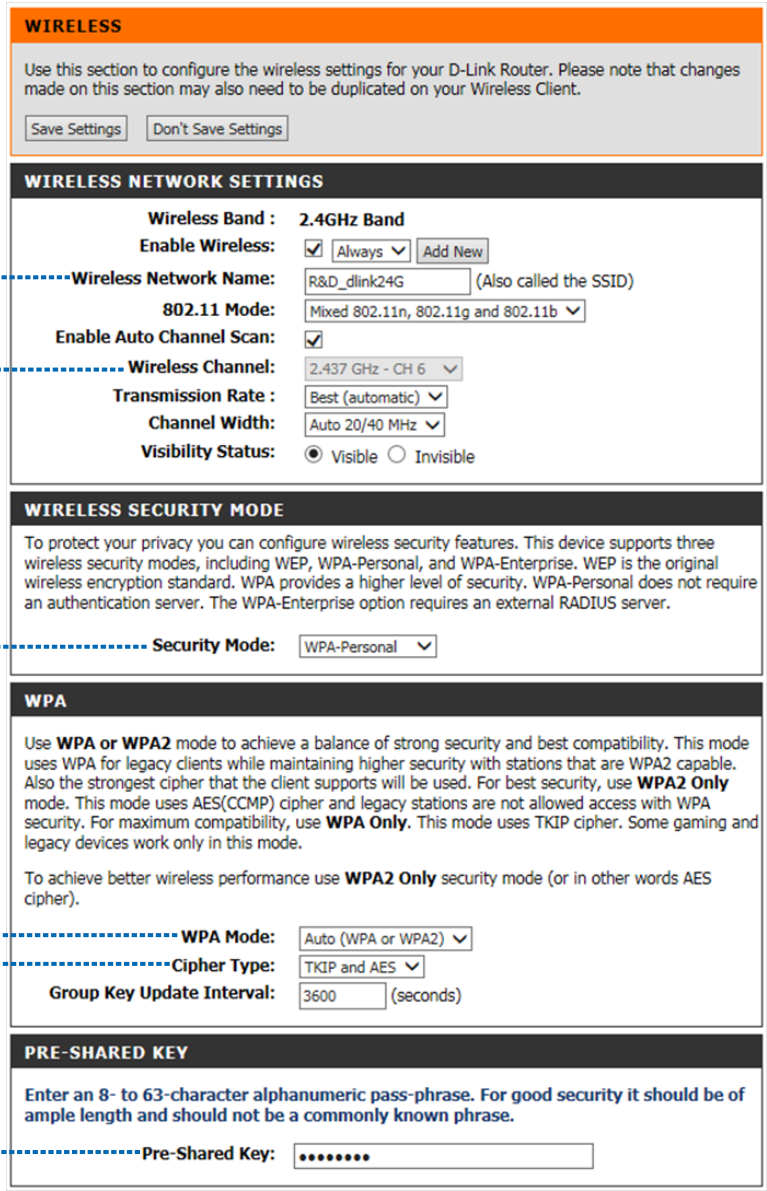
7 In WLAN Settings, select the settings that suit your environment (see "4.2. WLAN Settings Menu" above for a description of each item).

8 Click 'Set to Printer' to send the settings you changed to the printer so that the WLAN settings are validated.

9 It will take 30 seconds to a minute for the settings to be applied to the printer and connect to the network, and when it is successfully set up, the WiFi Antenna will turn green at the bottom of the printer LCD and the IP address will be displayed

4.4. Check your WLAN AP settings

To use the WLAN normally, you need to check the AP's settings beforehand.



No.	Features	Contents
1	Wireless Network Name	You'll see the name of the network to connect to.
2	Wireless Channel	Set the channel to use, choosing between 2.4 GHz (802.11b) and 5 GHz (802.11a).
3	Security Mode	For Security Mode, select WEP64/128, WPA/WPA2-PSK or 802.1x form to set it.
4	WPA Mode	Used only with the WPA Security Mode, set by choosing between WPA/WPA2.
5	Cipher Mode	Used only with the WPA Security Mode, set by choosing between TKIP/AES.
6	Pre-Shared Key	Use only the WPA security method and set a password of at least 8 digits.

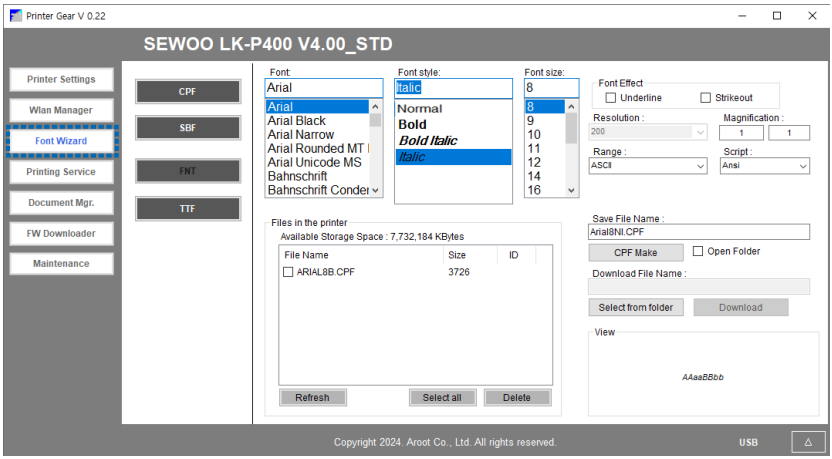
Font Wizard provides the function to download True type font used by CPCL, ZPL Emulation to the printer or create Bitmap Font and download it to the printer.
For each font, you can also see which fonts are stored on the printer and delete them.

5.1. Using CPCL Font

CPCL Emulation supports CPF font, SBF font, and True type font. Click the 'CPF' or 'SBF' button depending on the type of font you want to use.

5.1.1. How to create and download CPF fonts

When you select CPF fonts, the file list in Files in the Printer shows only the CPF font files stored in the printer.



5.1.1.1. How to create and download fonts

1. From the Font menu, select the type of font you want to use.
2. Select a Font Style. Normal/Bold/Bold Italic/Italic are optionally supported depending on the Font you select.
3. Select a font size.
4. Select a Range. The default 'ASCII' will create a font with character codes from 0x20 to 0x7F, and 'Full ASCII' will create a font with character codes in the extended range from 0x20 to 0xFF.
5. Select the appropriate Script for your language. Supported scripts will automatically appear as a pull down menu based on the selected font.
6. Once the above selections have been made, the 'Save File Name' will display the default font file name, click the 'Make CPF' button to create the font. If the default file name is longer than 20 characters, shorten it to 20 characters or less.

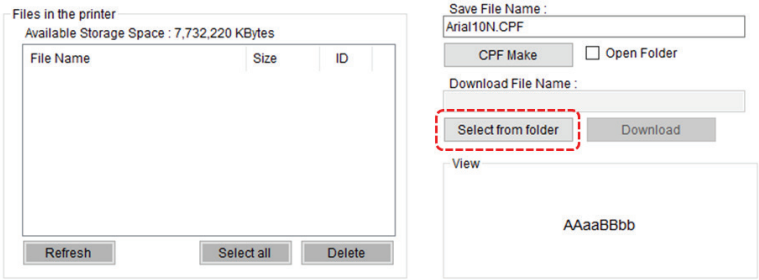
7 Once the font is created, the 'Download File Name' will display the name of the created font file and the 'Download' button will be enabled.

8 Click the 'Download' button to send the created font to the printer, and after a while, you will see the saved font in the File list under 'Files in the printer' on the right.

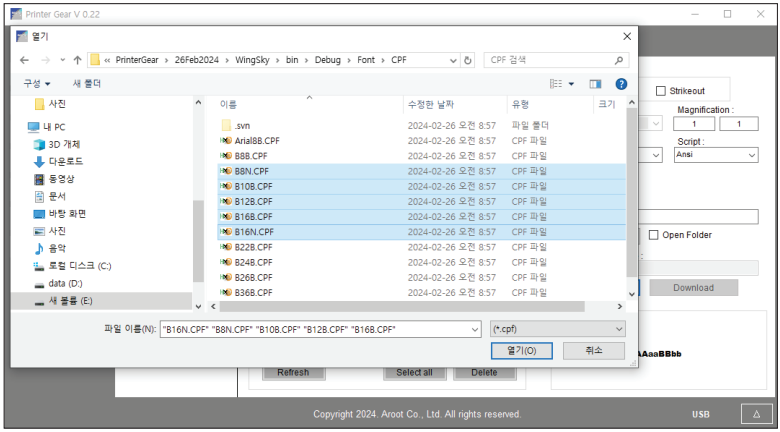
5.1.1.2 Font Download using Select from folder

Font Download via Select from folder provides the ability to select one or more font files that you have already created and download them to the printer.

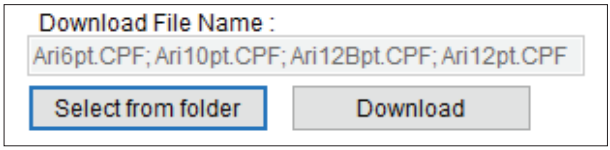
1 On the Font Wizard's welcome screen, click Select from folder, as shown below.



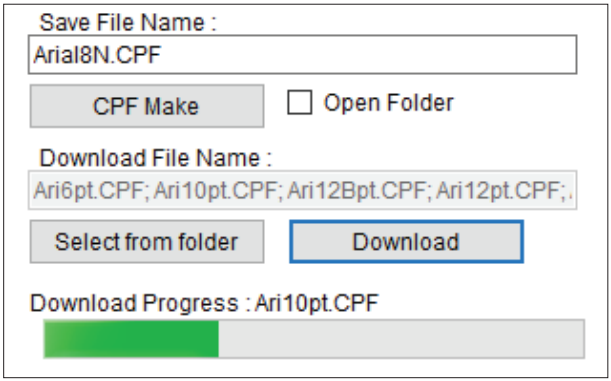
2 Navigate to the Folder where the Font is located via the Explorer that popped up, select the Font File you want to download and click Open.



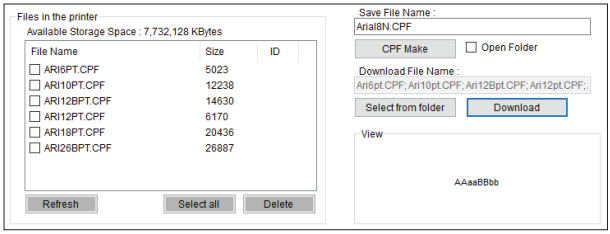
3 The selected files are displayed in Download File Name, as shown.



4 Click the Download button to start the download.



5 After the downlaod is complete, the font file saved to the printer appears in the File List in Files in the Printer.



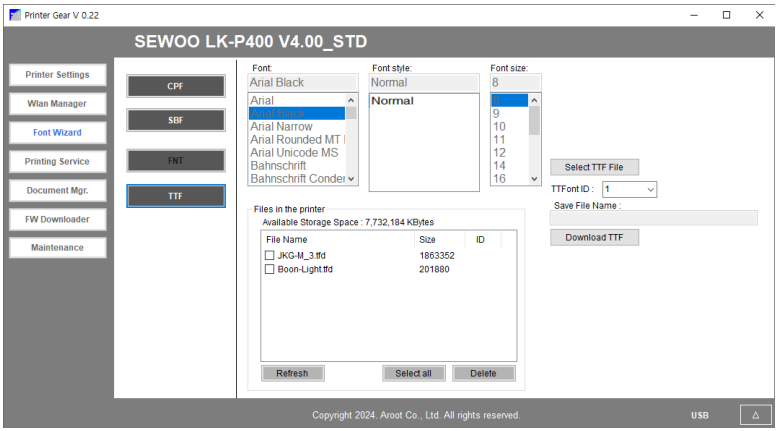
5.1.2. SBF font

When you select an SBF font, the File List in Files in the Printer shows only the SBF font files stored in the printer, and the process for creating and downloading the font to the printer is the same as for CPF fonts.

5.1.3. True type font

When you select True type font in CPCL, it provides the ability to download an already created True type font to the printer, rather than creating a font.

As a result, the menus for selecting Font, Font Style, and Font Size are disabled and the Select TTF Font button appears so that you can find and import an already created font file, as shown in the figure.



Select the True type font you want to download, specify the TTFont ID, and click the Download TTF button to download the font to your printer.

※ The TTFont ID acts as an ID that identifies True Type Fonts inside the emulation, Make sure that you don't specify a value that is the same as the ID of a TT Font that is already downloaded to the printer. After the download is complete, the Font information appears in the File List in Files in the Printer.

5.2. Using ZPL font

ZPL Emulation supports FNT font types and True type fonts. You can select FNT or TTF to generate or download the corresponding font type to your printer.

※ After downloading the fonts used by ZPL, the printer may power off/on as needed.

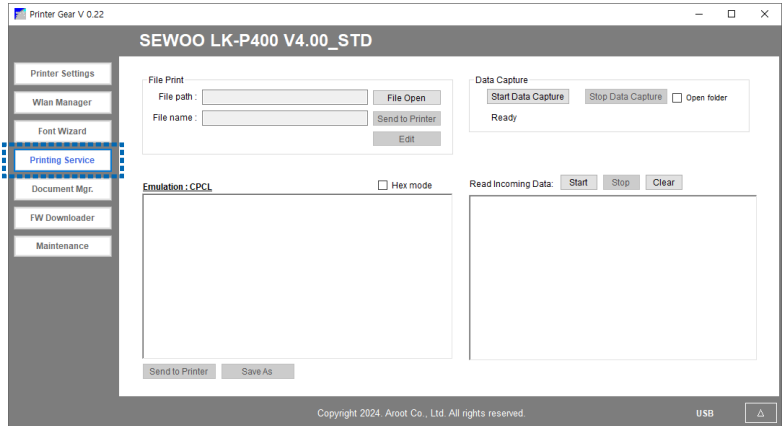
5.2.1. FNT font

The FNT font type is a bitmap font available in the ZPL emulation, and the creation and downloading of the font to the printer is the same as the CPF font in CPCL.

5.2.2. TTF font

Same as the TTF font type in CPCL, it provides the ability to download an already created True type font to the printer rather than create a True type font. However, the TTFont ID serves as an identifier to distinguish the font in the ZPL emulation, so you should not use the same value as the Font ID value already downloaded to the printer.

The Printing Service is useful for printing to a printer connected to a Host PC where the user can select a printable file or print using a simple text editor, capture printer data as it is sent to the printer, and send simple commands to the printer to see the response.



6.1. Printing with File Print



1 Click Open File to select the Prn, Label, or Text file you want to print. The file selected must match the Emulation specified for the printer.

※ If the file opens successfully, the Send to Printer and Edit button will be enabled.

2 Click Send to Printer to send the selected file to the printer.

3 To edit an open file, click the Edit button, which will display the file contents in the Edit window below and allow you to edit it.

※ When the contents of the file are displayed, the Send to Printer and Save As buttons are enabled. You can modify the contents of the file as needed, or you can print it using the Send to Printer button or save the modified contents using the Save As button.

6.2. Printing with a text editor



1 You can create a print file using the simple text editor provided by PrinterGear.
At this point, check the Emulation displayed in Emulation to ensure that the print data is created using the commands of the set Emulation.

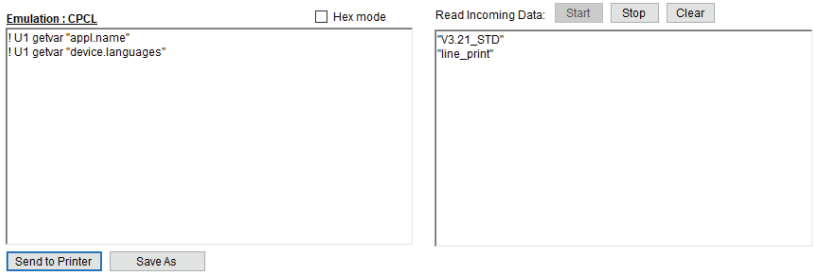
2 When you're finished creating your print data, click Send to Printer at the bottom to send the print data you created to the printer.

※ If you select Hex mode, you must enter all values in hexadecimal.

3 To save your edits, click the Save As button to save them to a file.

6.3. Enable Read Incoming Data

Reads and displays simple data sent from the printer.



The figure above shows the result of sending a command to get some basic information about the printer and receiving and displaying the reply.

1 First, prepare to read the data by pressing the Start button on Read Incoming Data.

2 In the Editor area, type the command you want to send to the printer.

3 Click 'Send to Printer' button to send the command you entered to the printer.

4 The Read Incoming Data area displays the response sent from the printer.

6.4. Data Capture

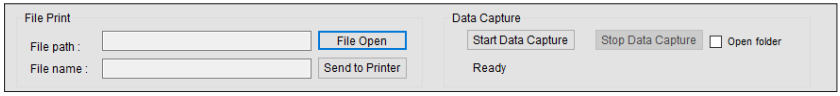
The Data Capture feature allows users to save print data sent to the printer for printing to a host PC in a text file format.

1 Press the Start Data Capture button to prepare your data for data capture.

2 Send print data to the printer.

3 When the printer is finished printing, click the Stop Data Capture button to stop data capture.

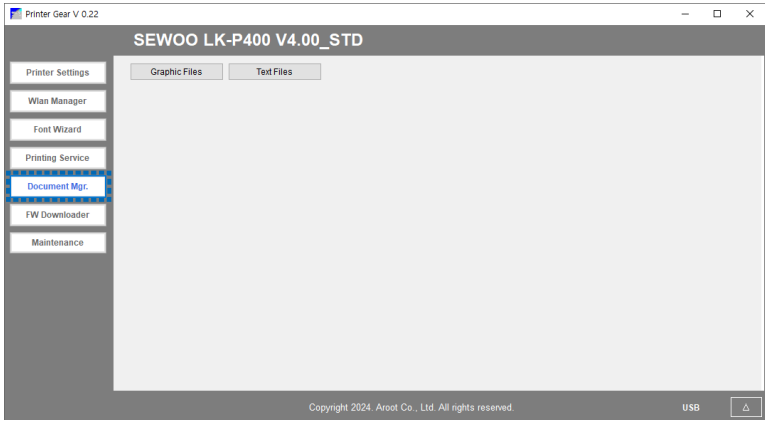
4 Save the file to the desired location through the Save File window that pops up.
If you have Open Folder checked, you can see the location of the file after it is saved through File Explorer.



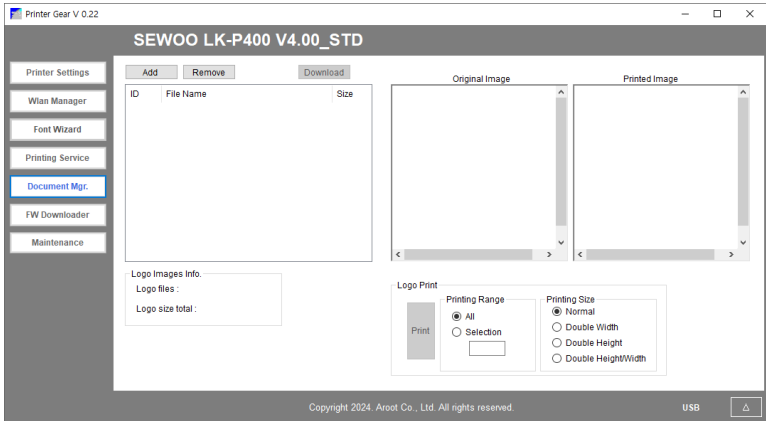
7. Document Manager

Document Manager is a function that manages image files, Label files, Form files stored in the printer for printing, and is divided into graphic files and text files in the case of CPCL and ZPL emulation, and supports managing only graphic files in the case of ESC/POS.

The figure below shows the screen that appears when you click Document manager when the emulation is CPCL or ZPL, and it is divided into Graphic file to manage image files such as BMP, PCX, GRF, etc. and Text File to manage text format files such as Text, Prn, Label, Form, etc.

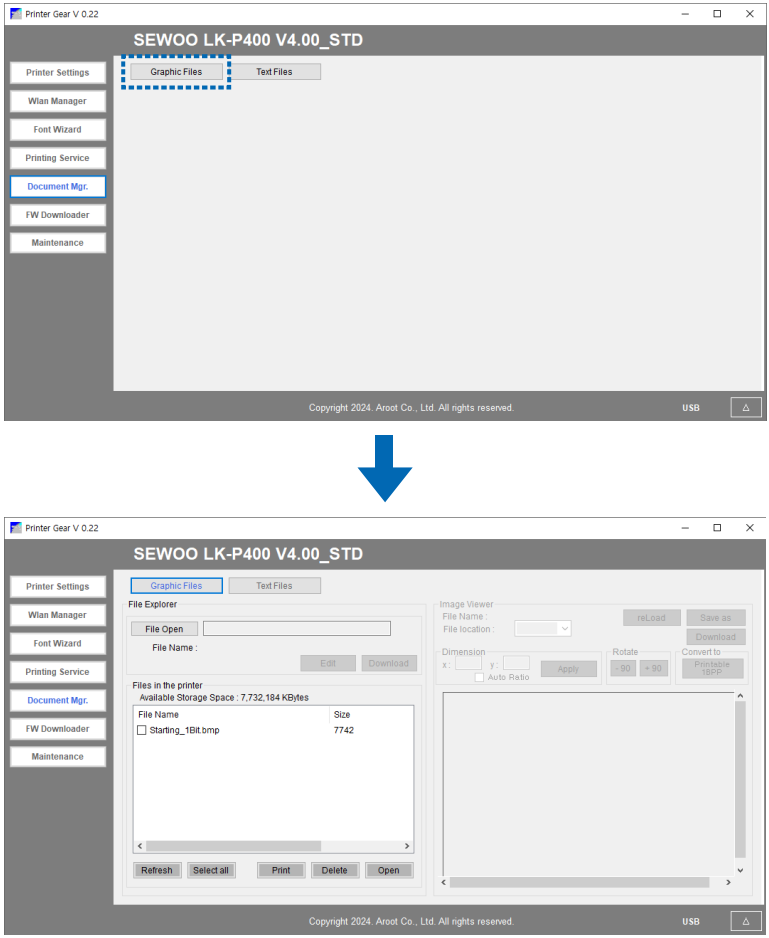


When set to ESC/POS Emulation, only BMP image files can be saved/printed/deleted from the printer.



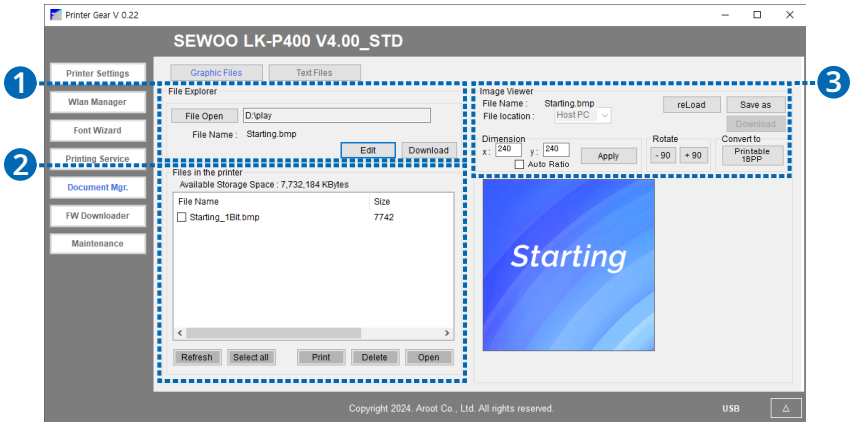
7.1 Graphic file management

This is a description of the process of entering the graphic file manager by clicking Document Manager → Graphic Files.



7.1.1. Graphic Files menu

Provides the ability to save image files to the printer for use in printing via emulation and to manage saved files.

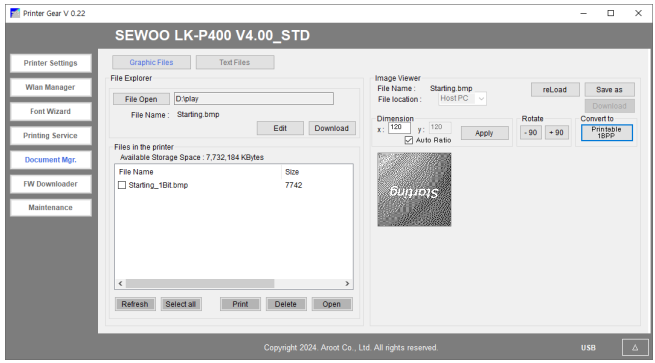


No.	Functionality	Contents
1	File Explorer	**Allows you to select files from the host PC.** – File Open : File browsing function to locate the file to send to the printer from the host PC. – Edit : Activates the Image Viewer function that provides editing functions to convert the Multi bit Color image file stored in the Host PC to 1Bit BMP format that can be printed on a printer or converted through the size and rotation function of the picture. – Download : Sends a picture file from the host PC to the printer.
2	Files in the Printer	**You can display the image files stored in the printer, test print, delete, or read them to the host PC for editing through the Image Viewer. It also shows the remaining amount of internal storage space in the Available Storage Space.** – Refresh : Reread the image file information stored on the printer. – Select all : You can select or deselect all the files shown in the File list window at once. – Print : Trial prints the selected file. The selected file must be in a print format supported by the emulation. – Delete : Deletes the selected file from the printer's storage. – Open : Reads the selected image file and displays it in the Image Viewer.

3	Image Viewer	**Shows the file selected by the user. Supported picture file formats are BMP, PCX, and PNG.** – File Name : Shows the name of the file you are opening. – File Location : Shows whether the file you are opening is being read from the host PC or the printer. – reload : Reads the file again. – Save as : This function saves the image change file that the user has modified. If the set emulation is CPCL, it can be saved in BMP format. If ZPL emulation is set, BMP and GRF formats can be selected. – Download : Sends a file that the user saved with a different name to Printer for saving. – Dimension : Shows the horizontal and vertical size of the file you are opening in dots. By adjusting these values, you can enlarge or reduce the size of the image. After changing the X/Y values, click Apply to make the changed width and height values take effect. When Auto Ratio is selected, modifying the X (horizontal) value automatically applies the Y (vertical) value to match the proportions of the original. – Rotate : You can rotate the image clockwise or counterclockwise. – Convert to : Printable 1BPP button will convert the Source Image to a 1Bit Mono BMP file that the printer can print.

The image below shows an example of the above Color Source Image reduced to 120 dots horizontally and vertically, rotated 180 degrees, and converted to a printable 1 Bit BMP image.

Also, the File list in Files in the Printer on the left shows the result of saving the converted image file as strting_1Bit.bmp to the Host PC and downloading it to the printer.



7.1.2. Image file download

Here's a quick guide to saving image files stored on your host PC so that they can be sent to a printer for printing.

1 In File Explorer, use File Open to select the file you want to download to the printer.

2 When File is selected, the Image Viewer displays a picture of the original image file.

3 If the selected file is already a 1Bit BMP image, click the Download button in File Explorer to have it downloaded to the printer.

4 If the file you selected is not a 1Bit BMP image that your printer can print, or if you need to resize or rotate the image, click the Edit button to activate the Image Viewer to apply the necessary image settings.

5 To restore the applied Image changes to the original Image, click the Reload button to reread the entire Image.

6 When you are finished modifying the image, click the Save as button to save it on your host PC, and click the Download button in Image Viewer to send the modified image file to your printer to save it.

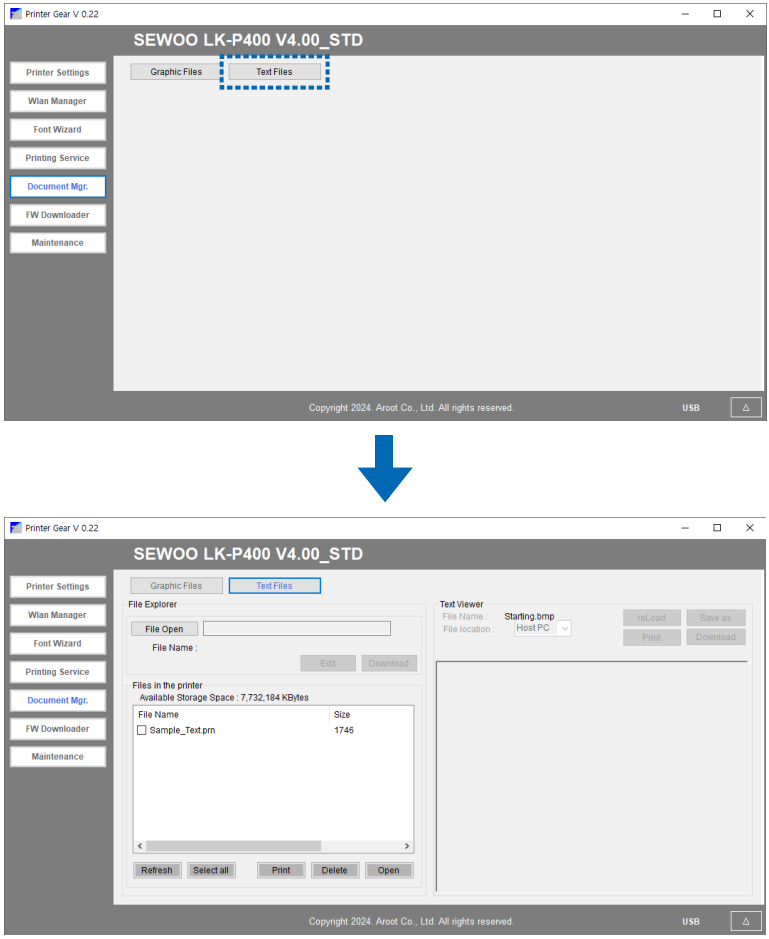
7 When the image file has finished downloading, the file and its file size are displayed in the File list in Files in the Printer.

8 You can verify that it prints correctly by selecting the file from the File list and clicking the Print button.

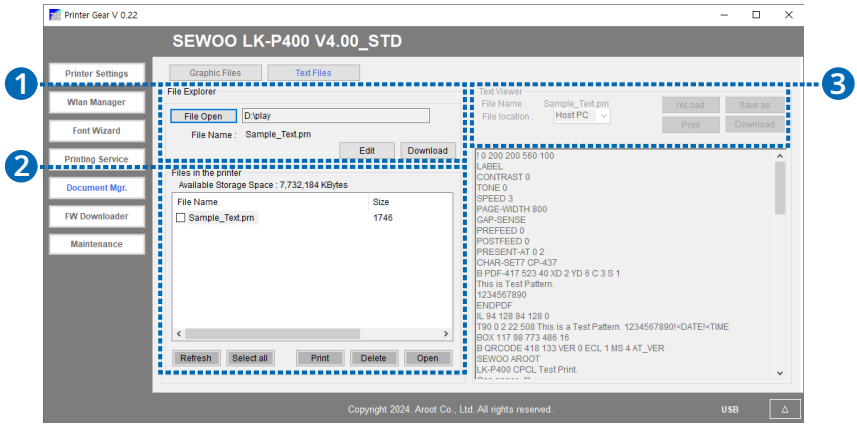
9 If you want to modify the image stored on the printer in the future as needed, you can select the file from the File list, click the Open button to display it in the Image Viewer, make the necessary changes to the image settings, save it to the Host PC via Save As, and send it back to the printer via the Download button to use it.

7.2. Text File Manager

Click Document Manager Text Files to enter the Text Manager menu, as shown below.



7.2.1. Text Files Menu



No.	Functionality	Contents
1	File Explorer	**On the Host PC, you can browse a file and download it to the printer or edit the file before downloading.** – File Open : Click Open File to read the file and display its contents in the Text Viewer. – Edit : You can modify the file contents displayed in the Text viewer by clicking the Edit button. – Download : Download the open file to the printer's storage.
2	Files in the Printer	**It shows the remaining printer storage space information and the list of Text/Prn/Label/Form Files stored in the printer and their size information.** – Refresh : The information of the files stored on the printer in the File List is read back from the printer and displayed. – Select all : Allows you to select or deselect all the files in the File list. – Print : Prints the file selected in the File list. – Delete : Deletes the selected file from the File list from the printer's storage. – Open : Reads the file selected in the File list to the Host PC and displays it in the Text Viewer.

3	Text Viewer	**You can edit the file stored on the printer or Host PC to print it or save it with a different name.** – File Name : Shows the name of the file you are opening. – File Location : Shows whether the file you are opening is being read from the host PC or the printer. – reload : Re-read the file. – Save as : This is a function to save the open Text File as a different name. – Print : Sends the text open in the Text Viewer to the printer for printing. – Download : Activated when the contents of Text Viewer are saved as a different name through Saver as, and you can download and save the saved file to a printer through this button.

7.2.2. Text File Download

This section introduces how to read Text, Label, Form, and Prn files stored on a host PC or printer and view the contents in Text Viewer to print or download them.

1 If the text file is stored on the host PC, open the file through File Explorer. If the file is opened successfully, the contents of the text file are displayed on the Text Viewer, and if you need to modify it, click Edit to change to Edit mode.

※ If the text file is stored in the printer, select the file from the File list of Files in the Printer and click Open to display the read file in the Text Viewer as editable.

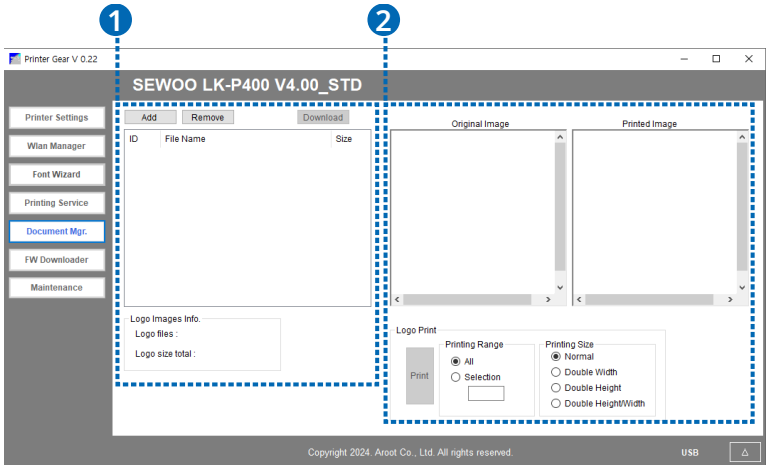
2 Once you've viewed the file in Text Viewer and made any necessary edits, you can click Printer to print a test print.

3 To save the file you opened to your printer without any modifications, click the Download button in File Explorer.

4 Save the modified file on the Text Viewer as a different name via Save As, and the Download button will be activated to download the saved file to the printer.

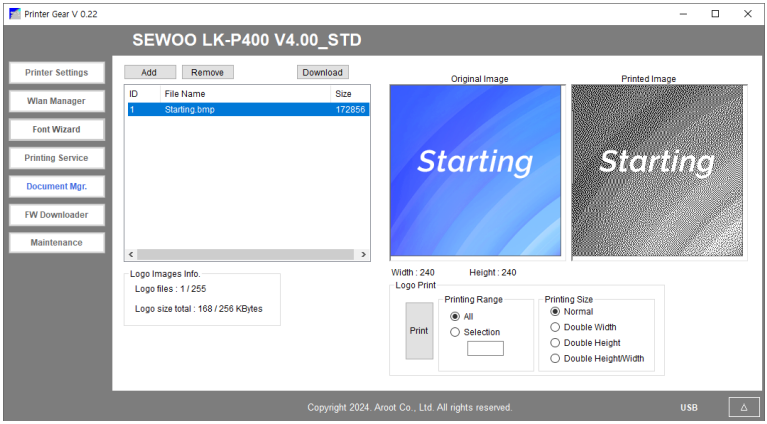
7.3 ESC/POS Document manager

Manage the images used by ESC/POS emulation.



No.	Contents
1	– Add : Reads an image file stored on the host PC and displays it on the File list screen. – Remove : Delete all image files displayed in the file list. If the files displayed in the File list are already saved on the printer, clicking the Remove button will delete them from the printer at the same time. – Download : Add button to send the file registered in the File list to the printer and save it. – Logo Images Info. : Shows the number of files registered in the File list and the sum of their sizes. If these files were downloaded to the printer with the Download button, they will be the same size as the files stored on the printer. ※ The information of the files downloaded to the printer is saved in the host PC by Printer Gear, so that the files are displayed in the File list when you run Printer Gear again and enter the Document manager. ※ The number of image files that can be stored in the printer is 255, and the size should not exceed 256 Kbyte. For example, a 1 Kbyte image file can be stored up to 256, but a 100 Kbyte image can be stored up to 2, and the remaining 56 KByte space can be used to store smaller files.

2	– Original Image / Printed Image : When you select a file that is displayed in the File List, the Original Image shows an illustration of the original image and Printed Image shows an example of the image as it appears when printed on a printer. Some images might print differently than they appear in Printed Image. – Width/Height : Indicates the size of the image in dots horizontally and vertically as shown in Original Image and Printed Image. – Download : Add button to send the file registered in the File list to the printer and save it. – Logo Print : Allows you to print an image that you have saved to your printer. – Printing Range : Select All to print all image files stored in the printer, or Selection to print some images, and fill in the Index value. – Printing Size : You can choose whether to enlarge the image you print. – Print : Once you have selected the Printing Range and Printing Size, click the Print button to proceed with printing.

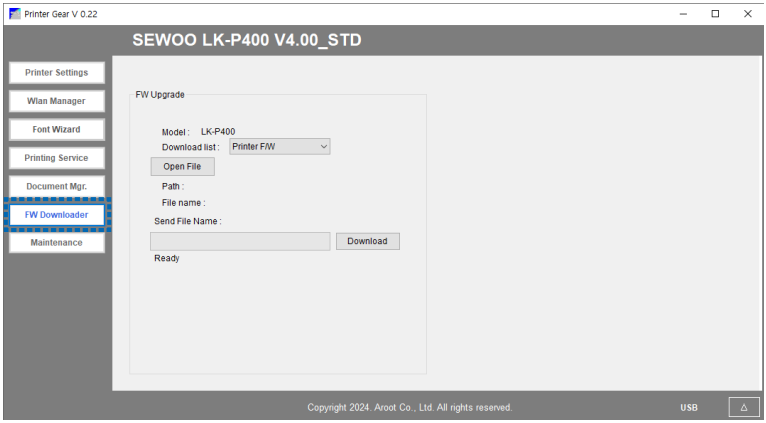


This function stores the FW and other images required to run the printer in the printer's non-volatile memory. Depending on the model, the type of FW and its configuration may vary, and if the power is turned off during FW download, it may cause serious damage to the printer.

FW Upgrade can be performed to improve quality issues or expand functionality and stability of the printer, and it is divided into Idle state FW Upgrade and Recovery mode FW upgrade depending on the status of the printer when performing FW Upgrade.

8.1. Idle state FW Upgrade

Refers to FW upgrade in the state where the printer is booted and ready, and it can be upgraded through all interface methods (WiFi/Bluetooth/USB, etc.) supported by the printer.



You can proceed with the FW upgrade in the following order.

1 Power on the printer (USB/WiFi/Bluetooth, etc.)

2 Launch Printer Gear, select your printer and connection method (USB/WiFi/Bluetooth, etc.), and click Connect.

3 When the connection is complete and appears in the Printer Settings window, click the FW Downloader button to go to the FW upgrader screen.

4 Verify that the Printer mode shown in Model matches the model name of the printer you want to perform the FW Upgrade on.

5 From the Download list, select the kind of FW you want to download.

※ The types of FWs available for download vary depending on the model, and Printer Gear will automatically recognize and display this information.

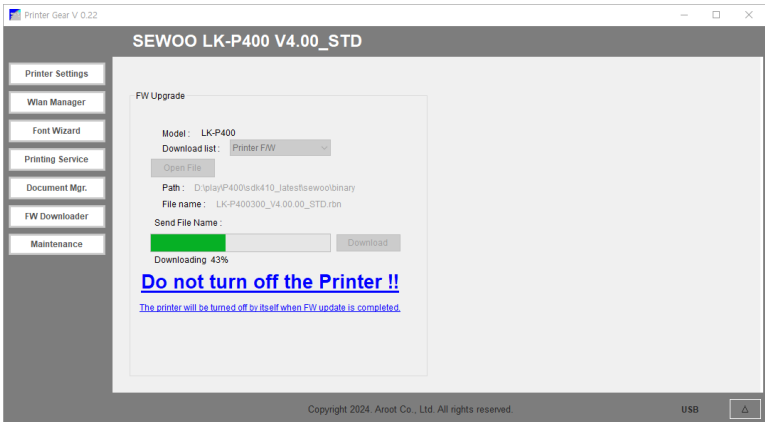
6 Click Open File to select the FW file.

※ If the model information does not match or if you open a different kind of FW than the selected FW, an error message is displayed and the selected file is invalidated.

7 If the selected file opens successfully, the path and file name of the selected file will be displayed. Once the printer model information, the type of FW to upgrade, the name of the file, and the version of the FW are confirmed, click Download to start the download, and the progress is displayed as a progress bar and percentage.

8 At no time should the printer be powered off while the FW Upgrade is in progress. Therefore, please ensure that the printer battery has at least 50% health, and if possible, connect the printer to a charging power source to allow the FW Upgrade to proceed. The printer is designed to power off automatically when the Printer FW Upgrade is complete.

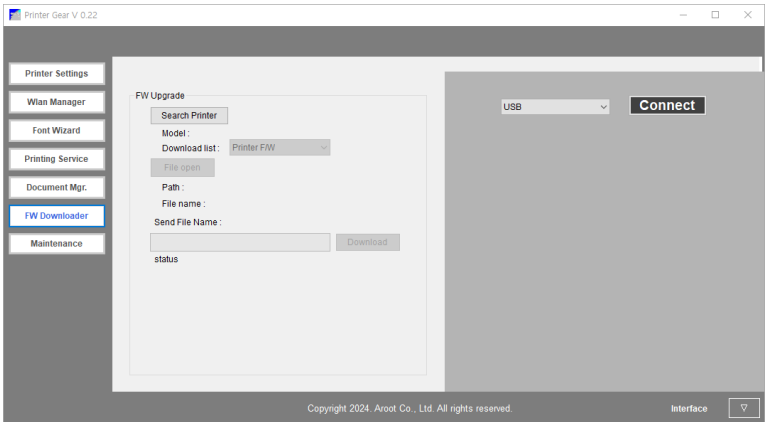
<Idle State FW upgrade progress example screen>



8.1.2. Recovery mode FW upgrade

Recovery mode FW upgrade is recommended only when the printer fails to boot normally or when a change in the Printer Boot loader FW occurs.

Follow the steps below to perform the Recovery mode FW upgrade.



1 Boot the printer into recovery mode.

※ To boot into recovery mode, follow the steps below.

A. The P400/P300 models boot into recovery mode by pressing the Power button and the down arrow button at the same time.

B. The P43/P43II/P12/P12II models boot into recovery mode by pressing the Up button and Power button at the same time.

C. Other Mobile Printers boot into recovery mode by opening the tray and pressing the Feed and Power buttons at the same time.

2 Launch Printer Gear, and without pressing the Connect button, click the FW Downloader button directly.

3 Connect the printer and host PC via USB.

※ Due to the functional limitations of Recovery Mode, it only supports upgrading via USB port.

4 Click Search Printer to allow Printer Gear to recognize the printer.

5 In the pop-up information, confirm that the printer model is the one you want to FW upgrade to Recovery Mode, and then click OK.

6 In the Model information, the printer model information that you want to upgrade appears, and in the Download list, it is designated as Printer FW and is disabled.

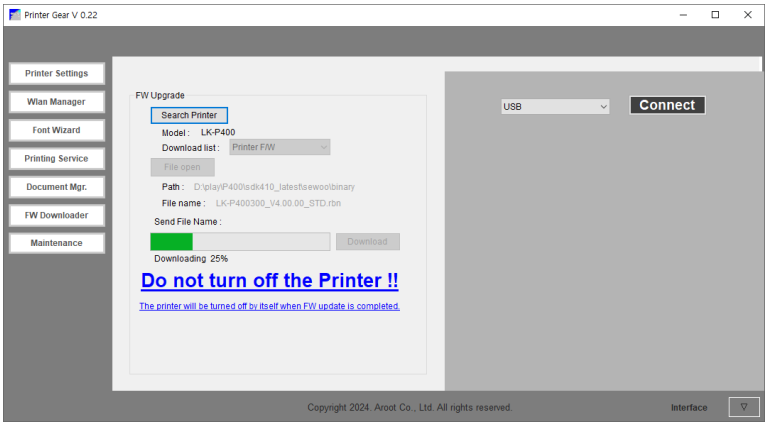
※ FW upgrade in recovery mode only supports Main Printer FW.

7 Click Open File to select the printer's FW.

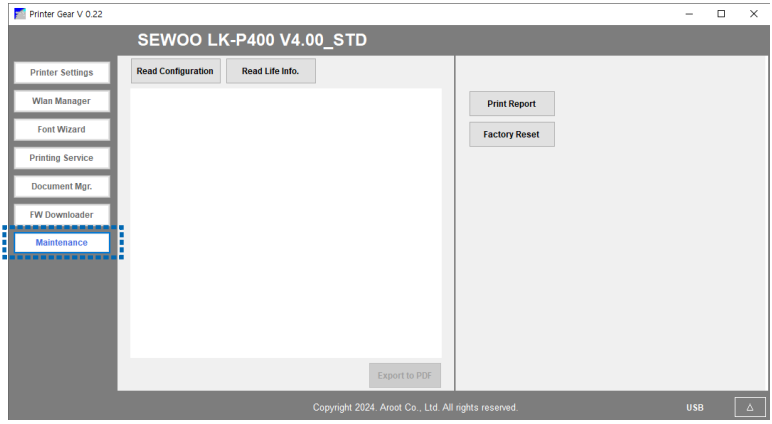
8 If the selected file is opened normally, Path and File name will display the path and file name of the selected file. If the printer model information, the type of FW to be upgraded, the file name, and the version of the FW are confirmed, click Download to start the download, and the download progress is displayed as a progress bar and percentage. When the download is completed, the printer starts the FW Upgrade operation to save the received FW file to the non-volatile Flash memory.

9 The printer should never be powered off while the FW Upgrade is in progress, so make sure the printer has at least 50% battery life, and if possible, plug the printer into a charging power source to allow the FW Upgrade to proceed. Printer The printer is designed to power off automatically when the FW Upgrade is complete.

<Example screen of recovery mode FW upgrade in progress>



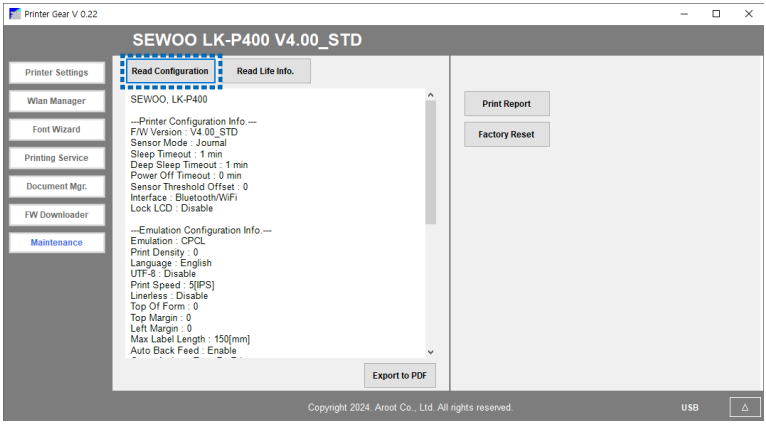
Maintenance has the function of retrieving the values set in the printer, retrieving and displaying the life information of the printer, saving it as a PDF file, and printing the configuration report of the printer. Also. It includes a function to reset the printer settings to the factory default values.



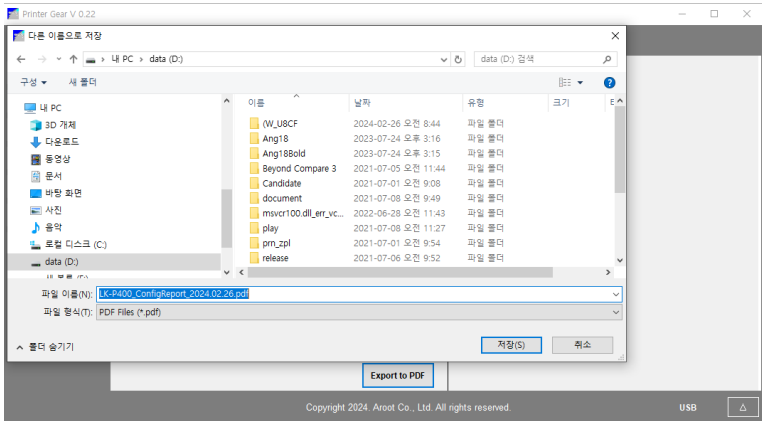
9.1. Read Configuration

The information set for the printer is retrieved and displayed on the screen.

<LK-P400 Example Screen>



Click the Export to PDF button to convert and save it as a PDF file, as shown below.

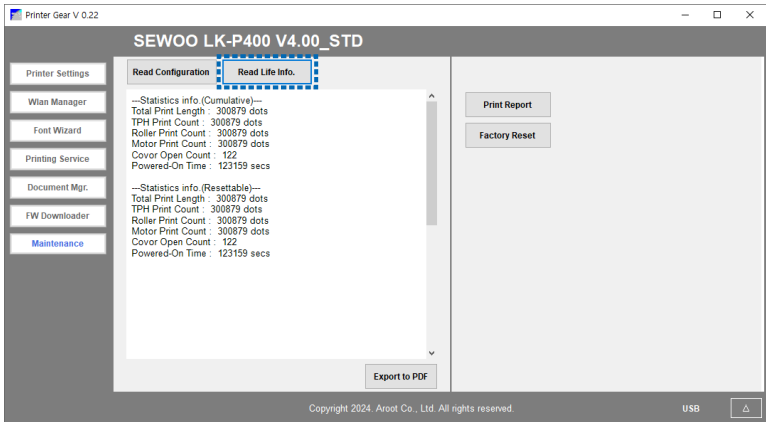


9.2. Life Information

Retrieves and displays the printer's life information on the screen. Life Information shows the usage status of the printer's major parts.

※ This feature is supported only on the LK-P300/400, LK-P201, and SLK-SL103.

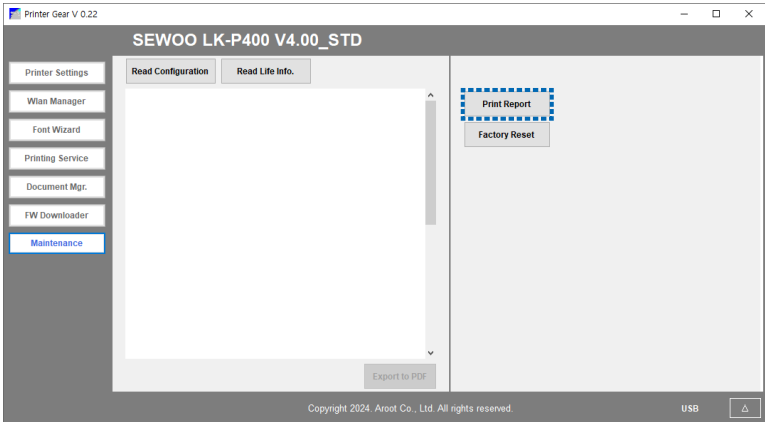
<LK-P400 Example Screen>



Life information, like configuration Information, can be converted to a PDF file and saved by clicking the Export to PDF button.

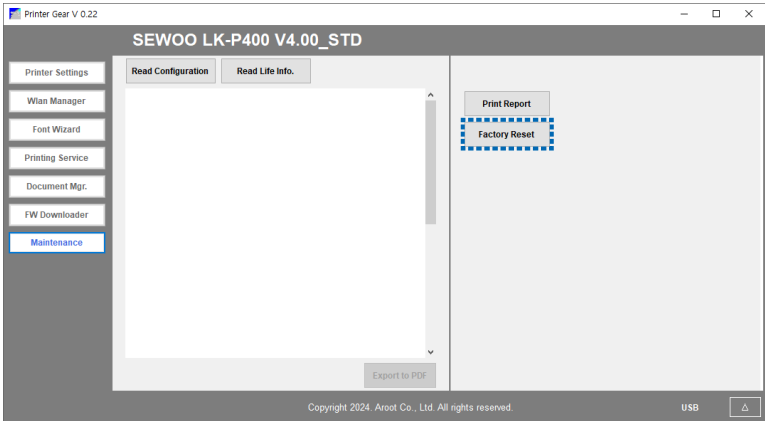
9.3 Print Report

Print Report is a button that allows the printer to report its configuration.

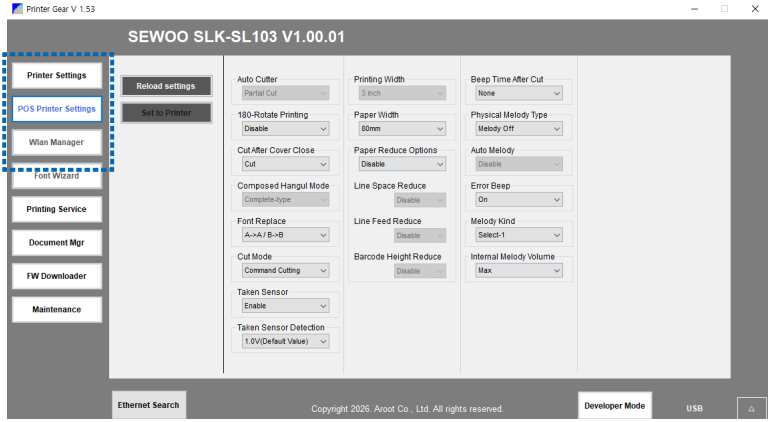


9.4 Factory Reset

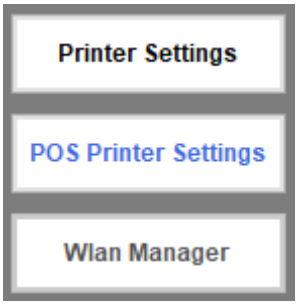
The Factory Reset button resets the printer to its factory default values.



POS Printer Settings allows you to read or configure settings specific to the POS printer.
※ This feature is supported only on the SLK-SL103.



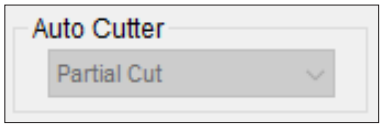
No.	Features	Contents
1	Reload settings	The printer settings are being reloaded.
2	Set to Printer	Send the modified settings to the printer to apply them.



When you connect a POS printer, the “POS Printer Settings” menu appears as the second item in the Menu. This item does not appear on other printers.

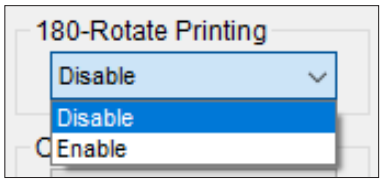
10.1. Auto Cutter

Set the paper to Partial Cut or Full Cut.
※ The SLK-SL103 supports only Partial Cut.



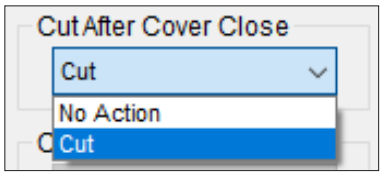
10.2. 180-Rotate Printing

Set whether to rotate the image 180 degrees when printing.



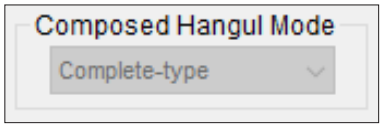
10.3. Cut After Cover Close

When the cover opens and closes, it determines whether to cut the paper after dummy feeding.



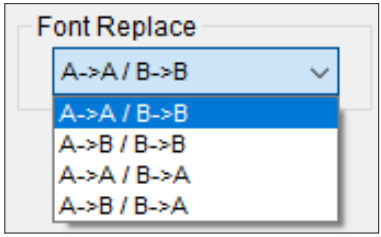
10.4. Composed Hangul Mode

Sets the Combination or Complete type in Hangul mode.
※ The SLK-SL103 supports only Complete-type.



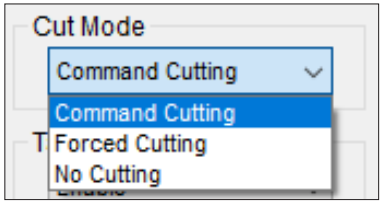
10.5. Font Replace

You can change the font type (FONT A/FONT B).
- FONT A : 12X23
- FONT B : 9X17



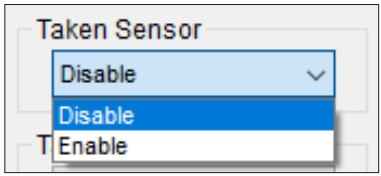
10.6. Cut Mode

Set the printer's cutting mode.



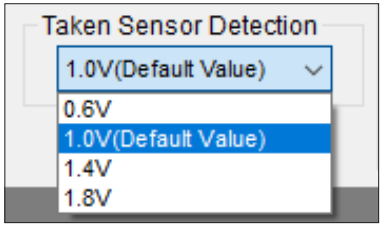
10.7. Taken Sensor

Set whether to enable the printer's taken sensor.



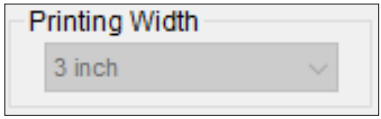
10.8. Taken Sensor Detection

Set the Taken sensor detection level.



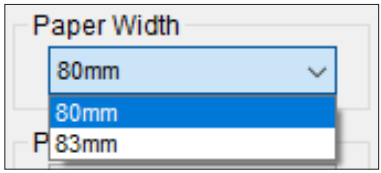
10.9. Printing Width

Set the paper size supported by the printer.
※ The SLK-SL103 supports only 3-inch paper.



10.10. Paper Width

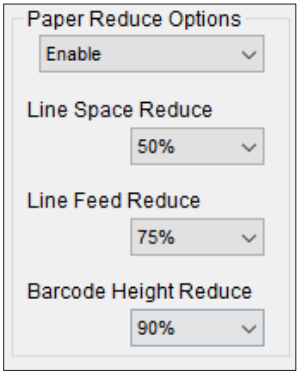
Set the print width.



10.11. Paper Reduce Options

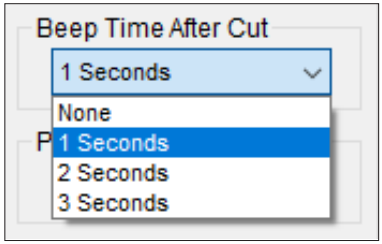
These settings are designed to save paper during printing.
For each option, you can choose between Disable, 50%, 75%, and 90%.

- Line space: Adjusts the spacing between lines of text.
- Line feed: Adjusts the spacing between lines of text that do not contain characters. (Adjusts the spacing of blank spaces in the document.)
- Barcode Height: Adjusts the height of the barcode.



10.12. Beep Time After Cut

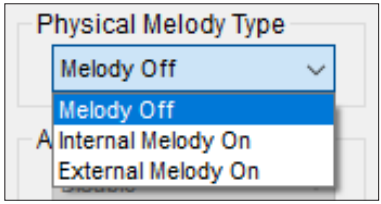
Set the duration of the beep sound during cutting.
You can optionally select a melody playback duration of 1 to 3 seconds after cutting.



10.13. Physical Melody Type

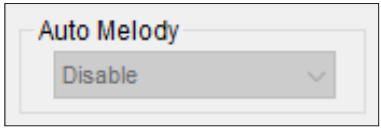
You can select an internal or external buzzer to play a melody.
You can connect a melody box or an external buzzer to the DK port (cash).

- Melody Box: An accessory sold by our company that plays a fixed melody and allows for volume adjustment.
- External Buzzer: Plays three different melodies depending on the Melody Type setting; it does not include a separate volume control function.



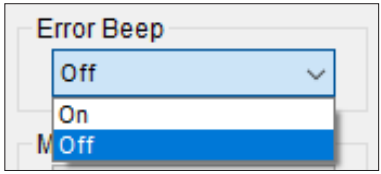
10.14. Auto Melody

You can enable or disable the print melody.
※ Not supported on the SLK-SL103.



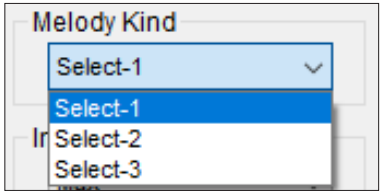
10.15. Error Beep

You can enable or disable the error beep when the cover is open or there is no paper.



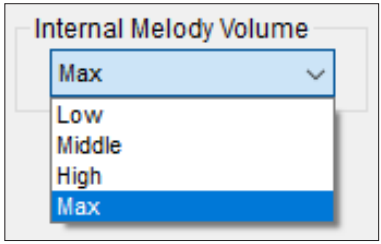
10.16. Melody Kind

You can select one of the three melody types available on the External Buzzer.



10.17. Internal Melody Volume

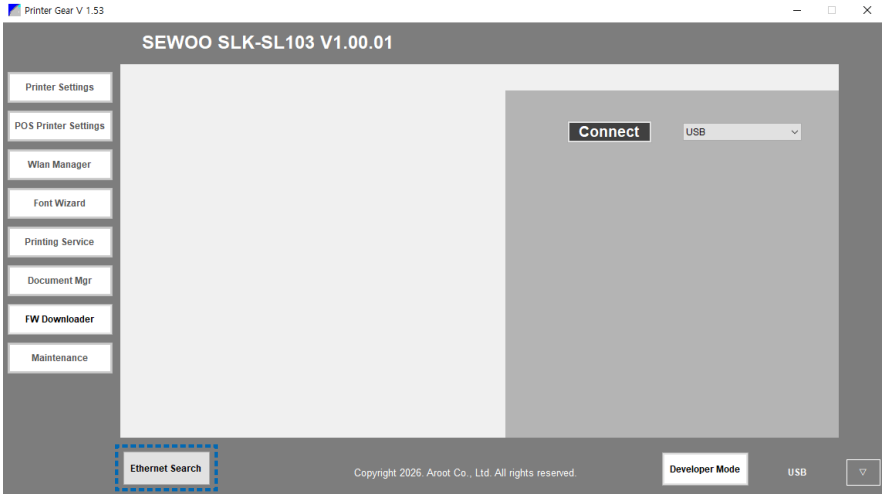
You can adjust the volume of Internal Melody.
You can choose from the following options: Low, Middle, High, or Max.



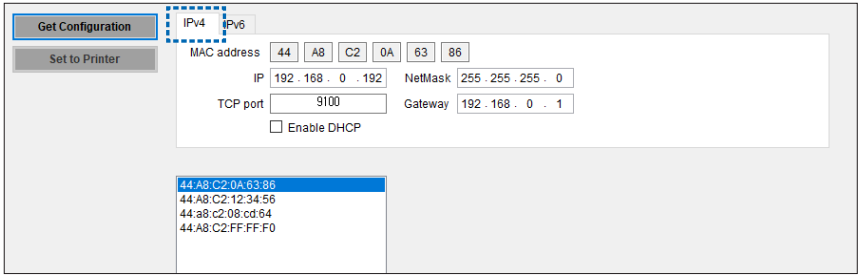
11. Ethernet Search

Ethernet Search is a feature that allows you to search for and configure Ethernet-connected printers on your computer's network. The Ethernet Search button is located at the bottom left of the initial screen.

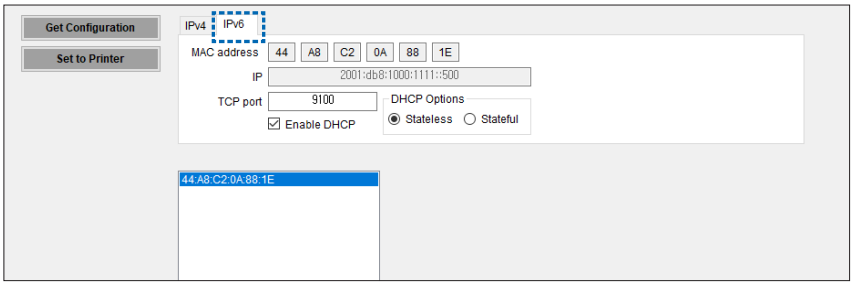
※ This feature is supported only on the SLK-SL103.



Both IPv4 and IPv6 are supported. You can switch between them using the tabs at the top. This is the screen displayed after searching for IPv4. Once the search is complete, click “Get configuration,” then select the printer with the matching MAC address to verify and configure it.



This is the screen that appears when you search for IPv6.
IPv6 DHCP options are divided into Stateless and Stateful.
Please select the appropriate option based on your network environment and settings.





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