

# Operating Instructions

## Printer Driver Guide for Mac

- 
- 1** Installing and Configuring the Printer Driver on a Macintosh
  - 2** Before Using the Printer Driver
  - 3** Printing
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  - 5** Appendix

## **Introduction**

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

## **Important**

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The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

## **Caution**

Two kinds of size notation are employed in this manual. With this machine refer to the metric version.

For good print quality, the supplier recommends that you use genuine print cartridges from the supplier.

The supplier shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the supplier with your office products.

## **Notes**

Some illustrations in this manual might be slightly different from the machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

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# Introduction

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## About This Manual

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This manual explains how to use and configure the Mac version of the printer driver. It also includes notes on general printer usage.

The example procedures featured in this manual are based on Mac OS 10.4.9. The procedures for your machine might differ slightly from those shown if you are using a different version of Mac OS. And, depending on the model of your machine, options might also differ.

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## Models

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This manual covers the following models:

- GelSprinter GX 2500
- GelSprinter GX 7000

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## Symbols

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This manual uses the following symbols:

### **WARNING**

Indicates important safety notes.

Ignoring these notes could result in serious injury or death. Be sure to read the "Safety Information" section of the provided manual.

### **CAUTION**

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read the "Safety Information" section of the provided manual.

### **Important**

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

### **Note**

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

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### Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[ ]

Indicates the names of keys that appear on the computer's display panel.

[ ]

Indicates the names of keys on the machine's control panel.

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## About the User Guide

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The User Guide is on the CD-ROM supplied with this machine.

The User Guide can be viewed on a Windows computer only.

# 1. Installing and Configuring the Printer Driver on a Macintosh

This section describes the printer driver's operating environment requirements and explains how to install and configure the printer driver.

## System Requirements

### Operating System

- PowerPC-Based Macintosh: Mac OS X 10.3 - 10.4.10
- Intel-Based Macintosh: Mac OS X 10.4.5 - 10.4.10

#### ↓ Note

- The operating environment for the printer driver depends on the application in use.
- OS X Server is not supported.
- Printing with USB 2.0 is supported under Mac OS X 10.3.3 and later versions.

### Hardware

#### PowerPC-Based Macintosh

Computer: Macintoshes Based on PowerPC G3 or later PowerPC models

Memory: 128 MB or more

HDD: 50 MB or more

Other requirements: USB port or network port

#### Intel-Based Macintosh

Computer: Macintoshes Based on Intel Core Duo or later Intel models

Memory: 256 MB or more

HDD: 50 MB or more

Other requirements: USB port or network port

#### ↓ Note

- You can only use a network printer via a TCP/IP connection. You cannot use AppleTalk.

# Installing the Printer Driver under Mac OS X

This section explains how to install the printer driver.

The following procedures are based on Mac OS 10.4.9. The procedures for your machine might differ slightly from those shown if you are using a different version of Mac OS.

## ★ Important

- You cannot install the printer driver while other applications are running. Be sure to close all applications before installing the printer driver.
- After installing the printer driver, you must restart the computer. Be sure to save any files you are working on before installing the printer driver.
- To install the printer driver, you must log on as administrator. For details, consult the administrator of the Macintosh in question.
- The printer driver for Macintosh can be downloaded from the supplier's website.

1. Double-click the “product name.pkg” icon.



A warning message appears.

2. After reading the displayed message, and then click [Continue].

The following message is displayed: “Welcome to the product name installer”

3. Click [Continue].

The software license agreement appears in the [License Agreement] dialog box.

4. After reading the agreement, and then click [Continue].

The confirmation screen appears.

5. Click [Agree].

The [Select a Destination] dialog box appears.

If you click [Disagree], the screen that appeared in the previous step returns.

6. Select where to install the file, and then click [Continue].

[Easy Install] dialog box appears.

7. Click [Install].

The [Authenticate] dialog box appears.

8. Enter the administrator's user name and password, and then click [OK].

The confirmation screen appears.

**9. Read the message on the confirmation screen, and then click [Continue Installation].**

The printer driver is installed.

**10. Click [Restart].**

To complete the installation, the computer restarts.

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## Specifying the Printer Settings on a Macintosh

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This section explains how to register a printer you want to use in [Printer List]. You can specify usable printers with this registration.

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### Using the Printer via a USB Connection from a Macintosh

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**★ Important**

- Connect the printer to the USB port and switch it on in advance.
  - Printing with USB 2.0 is supported under Mac OS X 10.3.3 and later versions.
1. In the [Utilities] folder in the [Applications] folder, double-click the [Printer Setup Utility] icon.

The Printer List appears.

**2. Click [Add Printer...] on the [Printers] menu or [Add] on the toolbar.**

The Printer Browser appears.

**3. Make sure [Connection] is set to [USB].**

The name of the printer connected to the USB port appears.

The list shown in the above illustration appears only if [Default Browser] has been selected.

**4. Select the name of the printer you want to use.****5. Make sure the product name appears in the [Printer Name] field, and then click [Add].**

The name of the registered printer appears in [Printer List].

**6. On the [Printer Setup Utility] menu, click [Quit Printer Setup Utility].**

The [Printer Setup Utility] closes.

**↓ Note**

- To achieve optimum print quality, specify [Adjust Color Density...] before printing.

**📖 Reference**

- For details about specifying [Adjust Color Density...], see the printer driver Help.

## Using the Printer via Network Connection from a Macintosh

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### ★ Important

- Connect the printer to the network in advance and switch it on.
  - Specify the printer's IP address on its control panel in advance.
1. In the [Utilities] folder in the [Applications] folder, double-click the [Printer Setup Utility] icon.

The Printer List appears.

2. Click [Add Printer...] on the [Printers] menu or [Add] on the toolbar.

The Printer Browser appears.

3. In the [Printer Browser] dialog box, click [More Printers...].
4. From the pop-up menu, select [GelSprinter IP Print 2].
5. In the [Printer's Address] field, enter the IP address of the printer you want to use.
6. Make sure the product name appears in the [Printer type] field, and then click [Add].

The IP address of the registered printer appears in [Printer List].

7. On the [Printer Setup Utility] menu, click [Quit Printer Setup Utility].

The [Printer Setup Utility] closes.

### ↓ Note

- To achieve optimum print quality, specify [Adjust Color Density...] before printing.

### 📖 Reference

- For details about specifying [Adjust Color Density...], see the printer driver Help.

## 2. Before Using the Printer Driver

This section explains the printer properties dialog box.

### Printer Properties Dialog Box

This section describes the printer properties dialog box and explains how to open it.

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#### Dialog Boxes for Printer Settings

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The dialog boxes for specifying the printer driver settings consist of the Page Setup dialog and Print dialog.

##### Page Setup dialog

Specify the paper settings on the Page Setup dialog.

##### Print dialog

Specify the print settings on the Print dialog.

The Print dialog comprises settings such as [Copies & Pages], [Setup], and [Duplex].

When you open the Print dialog, the [Copies & Pages] settings appear. Using the pop-up menu at the top of the dialog box, you can switch the displayed settings from [Copies & Pages] to other settings such as [Setup] and [Duplex].

##### Maintenance Utility dialog

Adjust the printer settings in the [Maintenance Utility]. You can open the [Maintenance Utility] from the [Printer Setup Utility].

#### ↓ Note

- The way of opening the printer settings differs depending on the application. For details, see the manual provided with the application.

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#### Displaying the Printer Driver Settings Dialog Boxes

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This section explains how to use the TextEdit application provided with Mac OS X.

#### ★ Important

- Under Mac OS X, the printer you want to use must be registered beforehand in [Printer Setup Utility]. After registering the printer, open the printer driver settings dialog box from the application.

#### 📖 Reference

- For details about specifying the printer driver settings, see p.5 "Installing and Configuring the Printer Driver on a Macintosh".

## Displaying the Page Setup dialog

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1. From the application's File menu, select [Page Setup...].

The Page Setup dialog appears.

2. From the [Format for] pop-up menu, select the printer you want to use.

If you want to use a printer connected to the network, select the printer according to its IP address.

## Displaying the Print dialog

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1. From the application's File menu, select [Print...].

The [Copies & Pages] setting appears.

2. From the [Printer] pop-up menu, select the printer you want to use.

If you want to use a printer connected to the network, select the printer according to its IP address.

To display the [Setup] settings, using the pop-up menu at the top, switch from [Copies & Pages] to [Setup].

To display the [Duplex] settings, using the pop-up menu at the top, switch from [Copies & Pages] to [Duplex].

If you open the printer driver settings from an application, the previously specified settings appear. Change the settings as required, and then print.

### Note

- The [Duplex] setting can be displayed only when using the GelSprinter GX 7000.
- Even if you print from another application, the previously specified printer settings are applied, although those for the optional tray specified in [Printer Configuration...] in [Setup] may not be.
- Depending on the application, the printer driver settings may be automatically changed.

## Displaying the [Maintenance Utility]

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1. In the [Utilities] folder in the [Applications] folder, double-click the [Printer Setup Utility] icon.

The Printer List appears.

2. From the Printer List, select the printer you want to use.

If you want to use a network printer, select it according to its IP address.

3. On the Printer List toolbar, click [Utility].

The [Maintenance Utility] appears.

# 3. Printing

This section explains how to start and stop printing.

## Basic Printing Procedure

This section explains the basic procedure for printing from an application.

### ★ Important

- **Install the printer driver and configure the printer settings in advance.**

1. **In the application, open the file you want to print.**

2. **Open the Page Setup dialog, select a printer from the [Format for] pop-up menu, and then specify the paper settings as required.**

Be sure to select the actual printer you want to use; do not select "Any Printer". If you do select "Any Printer", you may not be able to access all the paper sizes available on the printer.

3. **Open the Print dialog, select a printer from the [Printer] pop-up menu, and then specify the printer settings as required.**

Be sure to select the actual printer you want to use. Do not select "Any Printer".

4. **Click [Print].**

Printing starts.

### ↓ Note

- You can let other Macintoshes on the same network as yours share the printer, whether it is connected to your computer via USB or the network. For details about how to share the printer, see Mac Help.

### 📖 Reference

- For details about displaying the printer driver settings, see p.9 "Displaying the Printer Driver Settings Dialog Boxes".
- For details about specifying the printer driver settings, see p.5 "Installing and Configuring the Printer Driver on a Macintosh".
- For details about displaying Mac Help, see p.19 "Opening Help".

## Printing on Various Paper Types

The print method differs depending on the type of paper used for printing. Use a print method appropriate for each paper type.

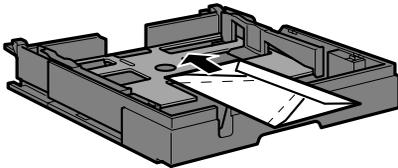
### Printing on Paper in a Paper Tray

This section explains how to load paper in the paper tray and print on it.

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#### ★ Important

- Curled paper may jam. Straighten any curls before loading.
- Load paper with the print side face down in the paper trays.
- Printing on Envelopes
  - Before loading envelopes, make sure their edges are sharply creased by rubbing them with a pen or similar object.
  - Squeeze the paper guide release, and then slide the paper guides into position according to the envelope size.



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#### 1. Load paper into tray.

How to load paper depends on the paper type.

For details about loading paper, see User Guide, which is supplied with the machine.

#### 2. Open the [Setup] settings.

#### 3. Select the paper type from the [Paper type:] pop-up menu.

After selecting the paper type as required, switch the envelope selector to "✉".

If you select [Inkjet Plain Paper], the machine will print on one side only. To print on both sides, select [Plain].

#### 4. Make print settings, and then click [Print].

Depending on the selected paper type, a confirmation screen might appear. If it does, read the message, and then click [OK].

**Note**

- Tray 2 (option) can be attached to GelSprinter GX 7000. To use the tray, click [Printer Configuration...] in the [Setup] settings, and then select the "Tray 2" check box on the [Additional tray] tab.
- You can load [Plain] and [Inkjet Plain Paper] in tray 2.
- Only the GelSprinter GX 7000 can perform duplex printing, and duplex printing is possible only if the duplex unit is installed. To use the duplex unit, press [Printer Configuration...] in the [Setup] settings, and then select the [Duplex Unit] check box on the [Duplex Unit] tab.
- To perform duplex printing, select the [Duplex] check box in [Duplex] settings.

**Reference**

- For details about opening the [Setup] or [Duplex] settings, see p.10 "Displaying the Print dialog".
- For details about the number of sheets that can be loaded in the paper tray, see User Guide, which is supplied with the machine.
- For details about how to handle paper, carry out duplex printing, and use options, see User Guide, which is supplied with the machine.
- For details about dithering, see the printer driver Help.
- For details about specifying a time for ink drying, see the printer driver Help.
- For details about the printable areas of envelopes, see User Guide, which is supplied with the machine.

## Printing with the Bypass Tray

This section explains how to load paper in the bypass tray and print on it.

The procedure for loading thick paper in the bypass tray and printing on it is used as an example.

**★ Important**

- Paper heavier than 157 g/m<sup>2</sup> (297.6 lb.) is inserted into the bypass tray one sheet at a time. Paper lighter than that can be loaded into tray 1.
- To use Paper lighter than 157 g/m<sup>2</sup> (297.6 lb.), click [Plain] in the [Paper type:] pop-up menu.
- Load paper with the print side face up into the bypass tray.

1. Open the [Setup] settings.
2. Select [Thick] from the [Paper type:] pop-up menu.
3. Make sure [Bypass] is selected in the [Paper source tray] pop-up menu.
4. Slide the bypass tray guides into position according to the paper size.
5. Insert a sheet of paper into the bypass tray with the print side face up.  
Insert the sheet straight into the bypass tray.
6. Make print settings, and then click [Print].

 **Note**

- Bypass Tray (option) can be attached to GelSprinter GX 7000. To use the bypass tray, click [Printer Configuration...] in the [Setup] settings, select the [Bypass Tray] check box, on the [Bypass Tray] tab, and then specify the paper type.

 **Reference**

- For details about opening the [Setup] setting, see p.10 "Displaying the Print dialog".
- For details about handling paper, see User Guide, which is supplied with the machine.
- For details about the number of sheets that can be loaded in the bypass tray, see User Guide, which is supplied with the machine.

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# Canceling a Print Job on a Macintosh

You can cancel a print job from either the printer or the computer. The procedure for canceling the job depends on whether or not the computer has sent the job to the printer yet.

## If the computer has sent or is sending the print job to the printer

You can cancel the print job from the print job queue window or by pressing the [Job Reset] key on the printer's control panel.

## If the computer has not yet sent the print job to the printer

If you execute the print command, the print job queue window opens and the print job is queued. Using the print job queue window, you can cancel print jobs.

3

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## Canceling a Print Job from the Computer

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You can delete a print job before, during, and after its being sent from the computer to the printer.

1. Check that printing has started and the print job queue window opens.
2. In the print job queue window, select the print job you want to cancel.
3. Click [Delete Job] in the [Jobs] menu or [Delete] on the toolbar.

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## Canceling Printing Using the [Job Reset] Key of the Printer

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You can cancel a print job while it is being transmitted or printed.

1. Check that printing has started.

Not only the print job being printed but also the print jobs in queue will be canceled.

If you press the [Job Reset] key while the printer is receiving print data for a print job (the Data in lamp is blinking), that print job is also canceled.

2. Press the [Job Reset] key.

It will take a few moments for printing to stop.



# 4. Printer Driver

This section explains how to view the printer's status, use the printer driver Help, check the printer driver version, and delete the printer driver.

## Displaying the Printer Status

Using the Status Monitor, you can display the amount of ink left and other printer status details on the computer. You can also check any errors that occur in the print job queue window.

The print job queue window opens automatically when you execute a print command. Using the Status Monitor, you can also display the printer status without executing a print command.

To view the printer's status on your computer, bidirectional communication between the printer and computer must be established.

4

### Checking whether Bidirectional Communication is Working

You can view the printer's status on your computer only if the printer and computer are communicating bidirectionally.

Use the following procedure to check whether the computer and printer are communicating bidirectionally.

**1. Display the [Setup] settings in Print dialog.**

**2. Click [About].**

The [About] dialog box opens.

**3. Check whether the printer's system version and total counter appear.**

If the printer's system version and total counter appear, bidirectional communication is working.

**4. Click [OK].**

The [About] dialog box closes, and the [Setup] settings appear.

If bidirectional communication is working, you can use the Status Monitor or to check the printer status from the computer.

#### Reference

- For details about displaying the [Setup] settings, see p.10 "Displaying the Print dialog".

### Displaying the Status Monitor

This section explains how to display the Status Monitor.

- 1. In the [Utilities] folder in the [Applications] folder, double-click the Printer Setup Utility icon.**

The Printer List appears.

- 2. From the Printer List, select the printer you want to use.**

If you want to use a network printer, select it according to its IP address.

- 3. On the Printer List toolbar, click [Utility].**

The [Maintenance Utility] appears.

- 4. Click [Status Monitor].**

The Status Monitor is launched.

# Opening Help

Help is useful for learning about what the various settings do and how to specify them. Use the following procedure to open the printer driver Help and Mac Help under Mac OS X.

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## Displaying Help from the Print dialog

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You can display Help from the Print dialog.

1. Display the [Setup] or [Duplex] settings.
2. Click [?] at the bottom of the dialog box.

The Help Viewer is launched and Help appears.

### Reference

- For details about displaying the [Setup] or [Duplex] settings, see p.10 "Displaying the Print dialog".

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## Displaying Help from the print job queue window

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1. In the Printer List in the [Printer Setup Utility], double-click the printer.  
The print job queue window opens.
2. On the [Help] menu, click [product name Help].

The Help Viewer is launched and Help appears.

### Note

- The [Printer Setup Utility] can be found in the [Utilities] subfolder in the [Applications] folder.

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## Displaying Mac Help

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This section explains how to open Mac Help.

1. Click the "Finder" icon on the dock.
2. From the [Help] menu, select [Mac Help].

The Help Viewer is launched and Mac Help appears.

## Checking the Version of the Printer Driver

This section explains how to check the version of the current printer driver.

1. **Display the [Setup] settings in Print dialog.**
2. **Click [About].**  
The [About] dialog box opens.
3. **Check the displayed version number.**

### Reference

- For details about displaying the [Setup] settings, see p.10 "Displaying the Print dialog".

# Uninstalling the Printer Driver

To update the printer driver, you need to uninstall the current printer driver and then install the new one.

## ★ Important

- To uninstall a printer driver, you must log on as administrator. For details, consult the administrator of the Macintosh in question.

1. In the [Utilities] folder in the [Applications] folder, double-click the [Printer Setup Utility] icon.

The Printer List appears.

2. In the [Printer List], select the printer you want to delete, and then click [Delete Selected Printers] in the [Printers] menu, or click [Delete] on the toolbar.

3. On the [Printer Setup Utility] menu, click [Quit Printer Setup Utility].

The [Printer Setup Utility] closes.

4. Double-click the "Uninstall\_product name" icon.



The confirmation screen appears.

5. Click [OK].

A dialog box for entering the user name and password opens.

If you click [Cancel], the installation dialog box closes and the printer driver is not uninstalled.

6. Enter the administrator's user name and password, and then click [OK].

A message confirming that the uninstallation is complete appears.

7. Click [OK].

## ↓ Note

- When you uninstall a printer driver with the uninstaller, the printer driver settings of the uninstalled driver are preserved and applied to the new driver.
- When you uninstall a printer driver, the Status Monitor installed with the driver is also uninstalled.
- The following settings, folders, and files are not deleted by uninstalling the printer driver. Before reinstalling the printer driver, be sure to delete the following settings, folders, and files. To delete them you need to log on as the administrator. For details, consult your administrator.
  - "GelSprinter" folder on the boot-up hard disk if no other GelSprinter driver has been installed.
  - "rpcr" folder in the "GelSprinter" folder if another printer driver has been installed.

- “GelSprinter” folder in the “Printers” folder in the “Library” folder in the “user name” folder in the “Users” folder
- “GX\_xxxx” in the “Printers” folder in the “Library” folder in the “user name” folder in the “Users” folder (“GX\_xxxx” refers to the model name of your printer. If you are using the printer over a network, delete the file with the printer's IP address.)
- “com.ricoh.IPSiOG.statusMonitor.plist” in the “Preferences” folder in the “Library” folder in the “user name” in the “Users” folder, and, under Mac OS X 10.3.x, “com.apple.print.PrinterProxy.GXxxxx.plist”, or, under Mac OS X 10.4.x (Power Mac), “com.apple.print.PrinterProxy.plist” (“GX\_xxxx” refers to the model name of your printer. If you are using the printer over a network, delete the file with the printer’s IP address.)

\* On an Intel Mac, “com.apple.print.PrinterProxy.plist” is not created.

## 4

### Reference

- For details about checking the printer driver version, see p.20 “Checking the Version of the Printer Driver”.

# 5. Appendix

## Printer Driver Settings

The following tables list the functions available under Mac OS X and their Windows printer driver equivalents.

### GelSprinter GX 2500/GX7000

\* Does not appear when using the GelSprinter GX 2500.

#### Paper source tray

Windows	Mac OS X
Tray 1	Tray 1
Tray 2*	Tray 2*
Bypass Tray*	Bypass Tray*
Auto Tray Select	Auto Tray Select

#### Paper type

Windows	Mac OS X
Plain	Plain
Inkjet Plain Paper	Inkjet Plain Paper
Glossy Paper	Glossy Paper
Inkjet Postcard	Inkjet Postcard
Postcard	Postcard
Envelope	Envelope
Thick*	Thick*

#### Original size

Windows	Mac OS X
A0	A3*

Windows	Mac OS X
A1	A4
A2	A5
A3	A6
A4	B4 JIS*
A5	B5 JIS
A6	Letter
B1 JIS	Legal*
B2 JIS	12" × 18"*
B3 JIS	320 × 450mm*
B4 JIS	Statement
B5 JIS	Ledger*
Letter	Postcard
Legal	Reply-paid Postcard
12" × 18"	Executive
320 × 450mm	F/GL*
5 <sup>1</sup> / <sub>2</sub> " × 8 <sup>1</sup> / <sub>2</sub> "	Folio*
11" × 17"	Foolscap*
Hagaki	8K*
Reply-paid Postcard	16K
Executive	Kaku #1 Envelope*
8" × 13"	Kaku #2 Envelope*
8 <sup>1</sup> / <sub>4</sub> " × 13"	Japanese Envelope #3
8 <sup>1</sup> / <sub>2</sub> " × 13"	Japanese Envelope #4
8K	Yoh #4 Envelope
16K	Com10 Env.

Windows	Mac OS X
Kaku #1 Envelope	Monarch Env.
Kaku #2 Envelope	C6 Env.
Japanese Envelope #3	C5 Env.
Japanese Envelope #4	DL Env.
Yoh #4 Envelope	Custom Paper Size
Com10 Env.	
Monarch Env.	
C6 Env.	
C5 Env.	
DL Env.	
Custom Paper Size	

#### Printout paper size

Windows	Mac OS X
A3*	A3*
A4	A4
A5	A5
A6	A6
B4 JIS*	B4 JIS*
B5 JIS	B5 JIS
Letter	Letter
Legal*	Legal*
12" × 18"*	12" × 18"*
320 × 450mm*	320 × 450mm*
5 <sup>1</sup> / <sub>2</sub> " × 8 <sup>1</sup> / <sub>2</sub> "	Statement

Windows	Mac OS X
11" x 17"*	Ledger*
Hagaki	Hagaki
Reply-paid Postcard	Reply-paid Postcard
Executive	Executive
8" x 13"*	F/GL*
8 <sup>1</sup> / <sub>4</sub> " x 13"*	Folio*
8 <sup>1</sup> / <sub>2</sub> " x 13"*	Foolscap*
8K*	8K*
16K	16K
Kaku #1 Envelope*	Kaku #1 Envelope*
Kaku #2 Envelope*	Kaku #2 Envelope*
Japanese Envelope #3	Japanese Envelope #3
Japanese Envelope #4	Japanese Envelope #4
Yoh #4 Envelope	Yoh #4 Envelope
Com10 Env.	Com10 Env.
Monarch Env.	Monarch Env.
C6 Env.	C6 Env.
C5 Env.	C5 Env.
DL Env.	DL Env.
Custom Size	Custom Size

**Original orientation**

Windows	Mac OS X
Portrait	Portrait
Landscape	Landscape

**Collate**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Reverse order printing**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Rotate by 180 degrees**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Centering**

Windows	Mac OS X
Available	Unavailable

**Job type**

Windows	Mac OS X
Normal Print	Unavailable
Job Binder	
Save as Overlay Data...	

**Print to file**

Windows	Mac OS X
Available (This function is provided by the operating system.)	Available (Rendered as PDF, This function is provided by the operating system.)

**Print quality**

Windows	Mac OS X
Quality priority	Quality priority

Windows	Mac OS X
Speed priority	Speed priority
High speed	High speed

**Registering frequently used settings**

Windows	Mac OS X
Available	Available

**Print quality (User settings)**

Windows	Mac OS X
High quality	High quality
Quality priority	Quality priority
Speed priority	Speed priority
High speed	High speed

**Dithering**

Windows	Mac OS X
Automatic	Photographic
Photographic	Text
Text	Use error diffusion
Thin lines	

**Use error diffusion**

Windows	Mac OS X
Available	Available

**Color profile**

Windows	Mac OS X
Optimize color	Off
Off	Presentation

Windows	Mac OS X
Presentation	Photographic
Photographic	Text
Text	

#### Gray reproduction

Windows	Mac OS X
Automatic	Unavailable
K (Black) for text only	
CMY + K	
CMY + K for images only	

#### Color balance

Windows	Mac OS X
Available	Unavailable

#### Brightness

Windows	Mac OS X
-50 ~ 50	Unavailable

#### Contrast

Windows	Mac OS X
-50 ~ 50	Unavailable

#### Saturation

Windows	Mac OS X
-50 ~ 50	Unavailable

#### Color balance: Cyan

Windows	Mac OS X
-50 ~ 50	Unavailable

**Color balance: Magenta**

Windows	Mac OS X
-50 ~ 50	Unavailable

**Color balance: Yellow**

Windows	Mac OS X
-50 ~ 50	Unavailable

**Use ICM**

Windows	Mac OS X
Available	Unavailable

**Use ICM: ICM method**

Windows	Mac OS X
By host system	Unavailable
By printer driver	

**Use ICM: ICM intent**

Windows	Mac OS X
Saturation	Unavailable
Perceptual	
Relative Colorimetric	
Absolute Colorimetric	

**Use ColorSync**

Windows	Mac OS X
Unavailable	Available (This function is provided by the operating system.)

**Print as bitmap**

Windows	Mac OS X
Available	Unavailable

**Change data processing**

Windows	Mac OS X
Available	Unavailable

**Separate into CMYK, then print in designated color only**

Windows	Mac OS X
Available	Unavailable

**Fit to paper size**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.) (for version 10.4 and later)

**Scale**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Directional Magnification**

Windows	Mac OS X
Available	Unavailable

**Layout**

Windows	Mac OS X
2 pages per sheet (2-up) (left→right) (Top→Bottom)	2 pages per sheet (2-up) (left→right) (Top→Bottom) (This function is provided by the operating system.)
2 pages per sheet (2-up) (right→left)	2 pages per sheet (2-up) (right→left) (This function is provided by the operating system.)
4 pages per sheet (4-up) (In rows running left to right)	4 pages per sheet (4-up) (In rows running left to right) (This function is provided by the operating system.)

Windows	Mac OS X
4 pages per sheet (4-up) (In rows running right to left)	4 pages per sheet (4-up) (In rows running right to left) (This function is provided by the operating system.)
4 pages per sheet (4-up) (In columns starting on the left)	4 pages per sheet (4-up) (In columns starting on the left) (This function is provided by the operating system.)
4 pages per sheet (4-up) (In columns starting on the right)	4 pages per sheet (4-up) (In columns starting on the right) (This function is provided by the operating system.)
9 pages per sheet (9-up) (In rows running left to right)	6 pages per sheet (6-up) (In rows running left to right) (This function is provided by the operating system.)
9 pages per sheet (9-up) (In rows running right to left)	6 pages per sheet (6-up) (In rows running right to left) (This function is provided by the operating system.)
9 pages per sheet (9-up) (In columns starting on the left)	6 pages per sheet (6-up) (In columns starting on the left) (This function is provided by the operating system.)
9 pages per sheet (9-up) (In columns starting on the right)	6 pages per sheet (6-up) (In columns starting on the right) (This function is provided by the operating system.)
16 pages per sheet (16-up) (In rows running left to right)	9 pages per sheet (9-up) (In rows running left to right) (This function is provided by the operating system.)
16 pages per sheet (16-up) (In rows running right to left)	9 pages per sheet (9-up) (In rows running right to left) (This function is provided by the operating system.)
16 pages per sheet (16-up) (In columns starting on the left)	9 pages per sheet (9-up) (In columns starting on the left) (This function is provided by the operating system.)
16 pages per sheet (16-up) (In columns starting on the right)	9 pages per sheet (9-up) (In columns starting on the right) (This function is provided by the operating system.)

Windows	Mac OS X
	16 pages per sheet (16-up) (In rows running left to right) (This function is provided by the operating system.)
	16 pages per sheet (16-up) (In rows running right to left) (This function is provided by the operating system.)
	16 pages per sheet (16-up) (In columns starting on the left) (This function is provided by the operating system.)
	16 pages per sheet (16-up) (In columns starting on the right) (This function is provided by the operating system.)

**Draw border**

Windows	Mac OS X
Dashed line	Single Hairline
	Single Thin Line
	Double Hairline
	Double Thin Line

**Poster**

Windows	Mac OS X
1 page into 2 sheets	Unavailable
1 page into 4 sheets	
1 page into 9 sheets	

**Duplex\***

Windows	Mac OS X
Available	Available

**Adjust Image Position: Direction \***

Windows	Mac OS X
Left	Left
Right	Right
Top	Top

**Adjust Image Position: Top/Left margin \***

Windows	Mac OS X
0 - 50mm	Unavailable

**Create margin \***

Windows	Mac OS X
Available	Unavailable

**Booklet \***

Windows	Mac OS X
Booklet 1 -Open to left	Unavailable
Booklet 1 -Open to right	
Booklet 2 -Open to left	
Booklet 2 -Open to right	

**Specifying the long edge of custom-size paper**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Specifying the short edge of custom-size paper**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Margin settings for custom-size paper**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Registering custom paper sizes**

Windows	Mac OS X
Available	Available (This function is provided by the operating system.)

**Watermarks: Text**

Windows	Mac OS X
Available	Unavailable

**Watermarks: Bitmap**

Windows	Mac OS X
Available	Unavailable

**Overlay**

Windows	Mac OS X
Available	Unavailable

**Header/Footer**

Windows	Mac OS X
Available	Unavailable

**Level Color**

Windows	Mac OS X
Available	Unavailable

**Color Ink Saving**

Windows	Mac OS X
Unavailable	Available

**Sheet-dry print delay in duplex\***

Windows	Mac OS X
Available	Unavailable

**Mixed Original Orientations**

Windows	Mac OS X
Available	Unavailable

**Do not print blank pages**

Windows	Mac OS X
Available	Available

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**Reduce automatically to fit A4**

Windows	Mac OS X
A3	Unavailable
A4	

**Use preprinted/prepunched paper**

Windows	Mac OS X
Available	Unavailable

**Measurement Unit**

Windows	Mac OS X
Available	Unavailable

**Uni-directional printing only**

Windows	Mac OS X
Available	Available

**Display Preview and Print screen**

Windows	Mac OS X
Available	Available (Rendered as PDF) (This function is provided by the operating system.)

**Unauthorized Copy Control**

Windows	Mac OS X
Available	Unavailable

**Custom Settings**

Windows	Mac OS X
Available	Unavailable

**When the envelope selector is set to Envelope Mode, use uni-directional printing only**

Windows	Mac OS X
Available	Available

**Density for plain paper printing**

Windows	Mac OS X
Light	Unavailable
Standard	
Dark	

**Environment Settings**

Windows	Mac OS X
Available	Unavailable

**Printable area**

Windows	Mac OS X
Regular	Unavailable
Enlarged	
Maximum	



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MEMO



