

PRINTER DRIVER GUIDE

(PD93M)

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Refer to the following web site to check the latest version of the printer driver.
<http://www.vcp.melco.co.jp>

System requirements

Computer	:PowerMacintosh G4, G5, PowerBookG4
Main storage memory	:128 Mbytes or more
Hard disk	:Empty capacity 256 Mbytes or more
Operating system	:10.3.3 or later
USB cable	:Be sure to use a cable of 2m or shorter.

P93DW supports the USB 2.0 (Hi-Speed USB) interface.

As USB 2.0 is completely upwardly compatible with USB 1.1, P93DW can be connected with a personal computer on which USB1.1 interface is available.

When you use P93DW with USB 2.0 (Hi-Speed USB), the personal computer has to support USB 2.0 (Hi-Speed USB).

For the compatibility of the personal computer with USB 2.0 (Hi-Speed USB), ask the manufacturer of the personal computer.

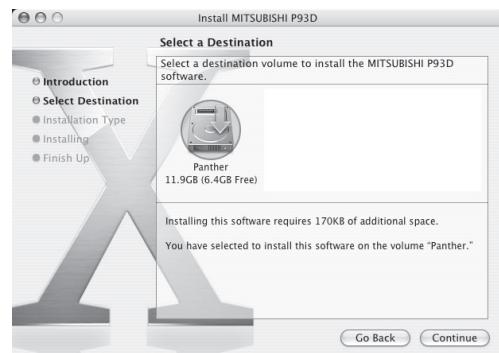
Installation

Administrator authority is required to install this printer driver.

- 1) Start your Macintosh.
- 2) Double-click on “MITSUBISHI P93D.pkg” of the MacOSX folder.
- 3) Click “Continue” button in the “Install MITSUBISHI P93D”. (Fig.1)
- 4) Select the destination of the driver and click “Continue” button. (Fig.2)

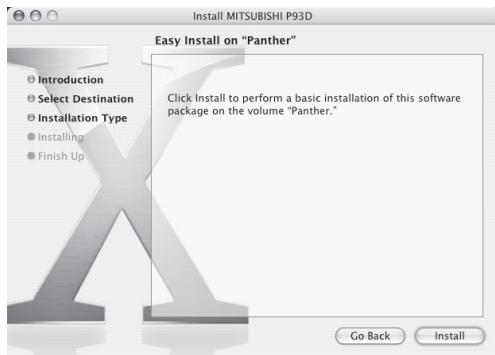


<Fig. 1>



<Fig. 2>

- 5) Click “Install” button.(Fig.3)
- 6) Enter a name and password, and click “OK” button. (Fig.4)



<Fig. 3>

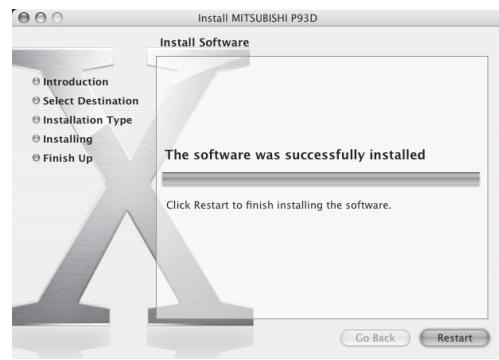


<Fig. 4>

- 7) Click “Continue Installation”. (Fig.5)
- 8) Click “Restart” to restart the personal computer. (Fig.6)



<Fig. 5>

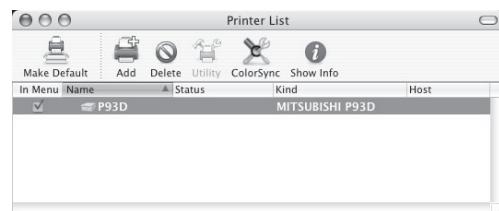


<Fig. 6>

- 9) Turn on the printer and connect it with the personal computer.
- 10) Double-click “Printer Setup Utility” of “Utilities” folder in the “Applications” folder. (Fig. 7)
- 11) The P93D is automatically added to “Printer List” (Fig. 8)



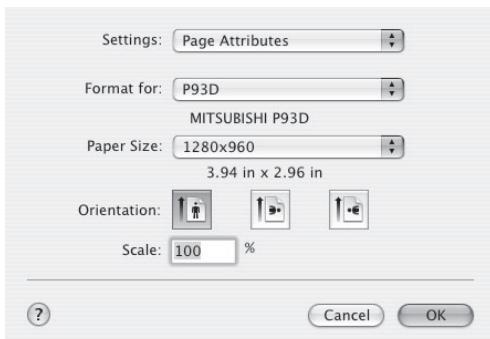
<Fig. 7>



<Fig. 8>

Function explanation

1. Page Setting dialog



<Fig.9. Page Setting dialog>

1) Paper Size

The size of paper is selected.

The number of print pixels for each paper size is shown in the right table.

2) Orientation

The direction of paper is set.

This is the standard setting function of the operating system.

3) Scale

Enlargement scale is set.

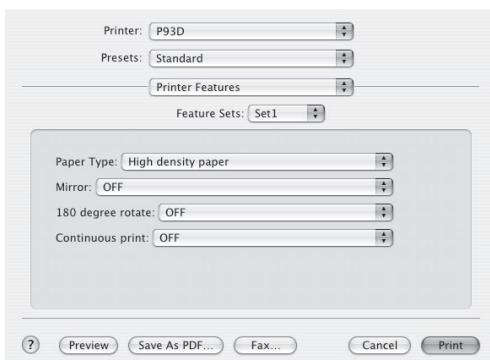
This is the standard setting function of the operating system.

Paper size	Image size	Effective pixels
1280x960	1280x960	1280x960
1280x1280	1280x1280	1280x1280
1280x1920	1280x1920	1280x1920
1280x5760	1280x5760	1280x5760
125%(1024x768)	1024x768	1280x960
160%(800x600)	800x600	1250x938
200%(640x480)	640x480	1280x960

2. Print Setting dialog

Select "Printer Features" of "Print Setting" dialog to carry out the following settings.

2.1. Setting 1



<Fig.10 Print Setting dialog>

1) Paper Type

High density paper/High glossy paper/Standard paper

The paper type is selected.

2) Mirror

The function horizontally reverses the print output.

3) 180 degree rotate

The function rotates 180 degrees the print output.

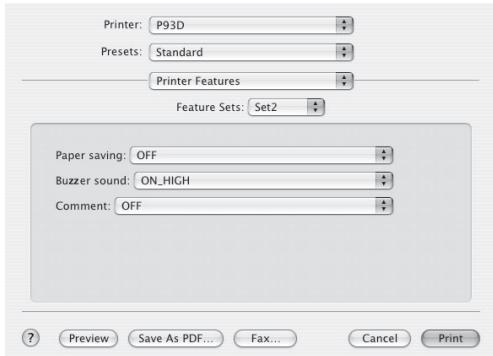
4) Continuous print

When turned on, the same image has been printed until paper runs out.

* Press the FEED button on the printer, to stop the continuous print.

* The printer gives priority to a continuous print even if the number of copies is set from the application.

2.2. Setting 2



<Fig.11 Print Setting dialog>

1) Paper saving

OFF/ON

When ON is selected, the print feeding length gets shorter than normal condition.

2) Buzzer sound

OFF/ON-LOW/ON-HIGH

Select the buzzer type.

- | | |
|---------|--------------------------------------|
| OFF | :Does not sound the buzzer. |
| ON-LOW | :Sounds the buzzer in lower volume. |
| ON-HIGH | :Sounds the buzzer in higher volume. |

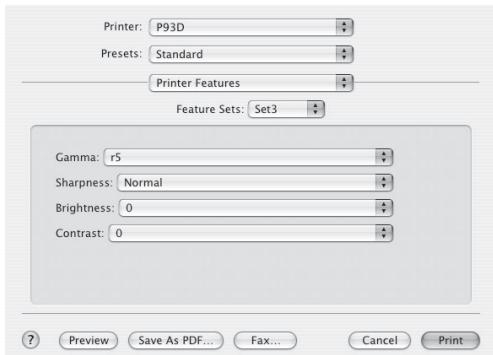
3) Comment

OFF/Print setting/DATE/DATE&TIME

Select the comments.

- | | |
|---------------|-------------------------------|
| OFF | :Does not print any comments. |
| Print setting | :Prints the print settings. |
| DATE | :Prints the date. |
| DATE&TIME | :Prints the date and time. |

2.3. Setting 3



<Fig.12 Print Setting dialog>

1) Gamma

r5/r4/r3/r2/r1

Gamma curve is selected.

2) Sharpness

Soft / Normal / Hard

Level of outline correction is changed.

3) Brightness

The brightness is adjusted.

Adjusted value (-64+64)

When the value gets smaller, the entire image becomes darker.

$K'(x) = K(x) + \text{Brightness}$

4) Contrast

The contrast is adjusted.

Adjusted value (-64+64)

$$K'(x) = K(x) * (1 + \text{Contrast}/128)$$

Contrast<0

$$K'(x) = K(x) * (1 + \text{Contrast}/256)$$

3. Error indication

No.	Error dialog message	Operation	Button
(1)	Paper empty. After removing Error, printer will restart.	When installing a new roll of paper, the dialog disappears and printing starts again.	The buttons in the error dialogs work as standard operating system. The buttons as follows are displayed. Delete job : Deletes the job during printing. Stop All jobs : All the jobs in the spooler, including the jobs during printing become paused. Stop job : Stops the job during printing. When any job is in the spooler, the job starts.
(2)	Door is opened. After removing Error, printer will restart.	When closing the door, the dialog disappears and printing starts again.	
(3)	Gear lock error. Turn the printer power Off and On.	When turning off and on the power, the dialog disappears and printing starts again.	
(4)	Something is wrong with the printer.	Some error occurs in the printer. When resolving the error, the dialog disappears and printing starts again.	

When no error message is displayed on the monitor and printing is not carried out, check the indicators on the front of the printer.

For the indicator on the printer, see the operation manual of P93DW.

Notes

1) Secure of Hard disk for spool file

Secure the capacity of Hard disk for spool file enough for the printer operation and the number of printing sheets.

The printing cannot be correctly carried out when the capacity is running short.

The drive for spool file is the same drive as the system drive usually.

2) Operation of the printer

Refer to the operation manual of the printer.

Do not turn off the power switch during data transfer or print.

If you turn off the power switch, restarting of a computer may be needed.

When deletion of a printing data cannot be performed, restarting of a computer is required.

3) Applicability of the image adjustment

Gamma, Sharpness, Brightness, and Contrast are applied to the entire printing range including the background.

4) About "Continuous print"

When you stop "Continuous print", push the FEED button on the printer.

5) Print job

Do not delete the print job in the spooler during data transfer. When deleting it, do not start printing until the printer becomes to the initial status.

6) Number of prints

In some application, the number of prints set by the printer driver does not work. Set the number of prints from the print dialog box of the application.

7) Continuous print

When carrying out the continuous printing, set "Copies" to "1". When "Copies" is set to other than 1, continuous printing is carried out for all the set number of copies.

8) Printing on "1280x1280" size paper

When "1280x1280" size paper is selected, the rotated image may be printed, regardless the orientation setting.

9) When "Restart" is carried out from the job window without resolving an error after "Job stop" button in the error dialog is clicked, the error dialog may not be displayed. In this case, select "Job stop" to resolve the error, then click "Job start" to start printing.

10) About connection of a computer and a printer

Do not disconnect the interface cable during data transfer.

11) System requirements for USB interface

Use the computers that are USB-guaranteed by the manufacturer.

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12) Connection of USB cable

When you take out and insert a USB cable after installation of a printer driver, wait 10 seconds or more after extracting a cable.

If the cable is reinserted without leaving an interval, the printer may not operate normally.

Operating directions for customer's purpose

1. When you want to shorten data transmission and print time

1) In case a small image file is expanded and printed

When a small image file is expanded and printed, do not operate the enlargement scale of the application side or the option dialog, but select the suitable image enlarging rate (125%, 160% or 200%) of the paper size in the standard dialog. As a result, the data transmission time will be shortened.

Example)

When you print the file of the image of 640*480 pixels, if making the setting of the paper size in the standard dialog

"200% (640 * 480)" and printing at the printer enlargement 1280*960pixels, the transmission time will be shortened.

2. When you want to adjust the image of the print out.

1) When you want the density of entire print picture to be thick (dark), decrease the value of "Brightness" of the "Setting 3" in "Printer Features".

2) When the focus of the print picture is loose (The contrast is weak), increase the value of "Contrast" of the "Setting 3" in "Printer Features".

The contrast becomes stronger.

Prohibition matter

We prohibit Reverse Engineering, decompiling or reverse assembling of this driver software.

Exemption from responsibility

Occasionally, this software does not operate normally depending on operating environment.

Moreover, Mitsubishi Electric Co. will not assume any responsibility for damage (including, but not limited to, lost profit or damage caused from special circumstances etc.) occurring during the use of this driver.