

PRINTER DRIVER GUIDE

(CPD9550X Ver. 2.00)

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Refer to the following web site to check the latest version of the printer driver.

<http://www.MitsubishiElectric.co.jp/vcp>

Use the printer driver corresponding to the operating system.

CPD9550X :Windows2000/XP

You can not use different versions of CPD9550X at the same time.

When CPD9550X driver has already been installed, uninstall it with the uninstaller, and then install this driver.

System requirements

Computer :Computer equipped with Pentium class CPU or more

Main storage memory :128 Mbytes or more

Hard disk :Empty capacity 256 Mbytes or more

USB cable :Be sure to use a cable 2m or under.

Operating system and interface

OK:Support

Driver	Operating system	USB*1
CPD9550X	Microsoft(R)Windows(R)2000	OK
	Microsoft(R)Windows(R)XP	OK

*1:CP9550DW supports the USB 2.0 (Hi-Speed USB) interface.

As USB 2.0 is completely upwardly compatible with USB 1.1, CP9550DW can be connected with a personal computer on which USB1.1 interface is available.

When you use CP9550DW 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

When the printer driver module has been copied to a CD-ROM, follow the procedures below.

1.Windows2000

1.1.Installing the USB port

- 1) Start Microsoft(R) Windows(R) 2000 Operating system.
- 2) Connect a USB cable between the computer and the printer before the installation begins.
- 3) Turn on the printer.
- 4) A USB Printing Support will be installed automatically.
- 5) "Found New Hardware Wizard" appears. (Fig.1)

*The OS standard USB port is used for USB connection in Windows 2000.

1.2.Installing the driver

- 1) Insert the CD-ROM.
- 2) Click "Next" button on "Found New Hardware Wizard". (Fig.1)
- 3) Select "Search for a suitable driver for my device (recommended)" and click "Next" button. (Fig.2)



<Fig.1>



<Fig.2>

- 4) Select "CD-ROM drives" and click "Next" button.(Fig.3)
- 5) Click "Next" button.(Fig.4)

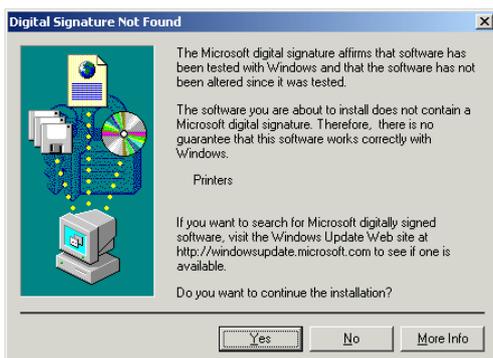


<Fig.3>



<Fig.4>

- 6) Click "Yes" button.(Fig.5)
- 7) Click "Finish" button.(Fig.6)



<Fig.5>



<Fig.6>

- 8) Carry out “Test print” from the printer property to check the printer setting. When printing the test page, select a correct paper size that is loaded in your printer. The paper selection is shown on “Print” tab on the printer property.

2.WindowsXP

2.1.Installing the USB port

- 1) Start Microsoft(R) Windows(R) XP Operating system.
- 2) Connect a USB cable between the computer and the printer before the installation begins.
- 3) Turn on the printer.
- 4) A USB Printing Support will be installed automatically.
- 5) “Found New Hardware Wizard” appears. (Fig.7)

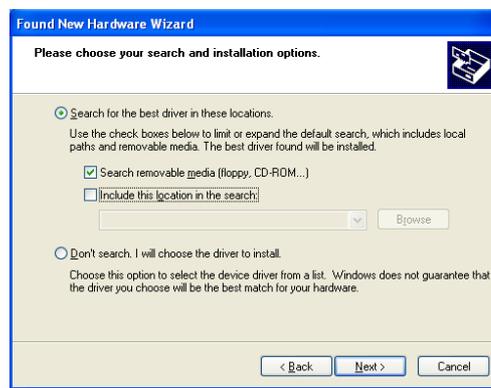
*The OS standard USB port is used for USB connection in WindowsXP.

2.2.Installing the driver

- 1) Insert the CD-ROM.
- 2) Select “Install from a list of specific location (Advanced)” on “Found New Hardware Wizard” and click “Next” button. (Fig.7)
- 3) Select “Search removable media (floppy, CD-ROM...)” and click “Next” button. (Fig.8)



<Fig.7>



<Fig.8>

- 4) Click “Continue Anyway” button. (Fig.9)
- 5) Click “Finish” button.(Fig.10)



<Fig.9>



<Fig.10>

- 6) Carry out “Test print” from the printer property to check the printer setting. When printing the test page, select the size of the paper that is loaded in the paper tray on “Print” tab on the printer property.

Uninstallation

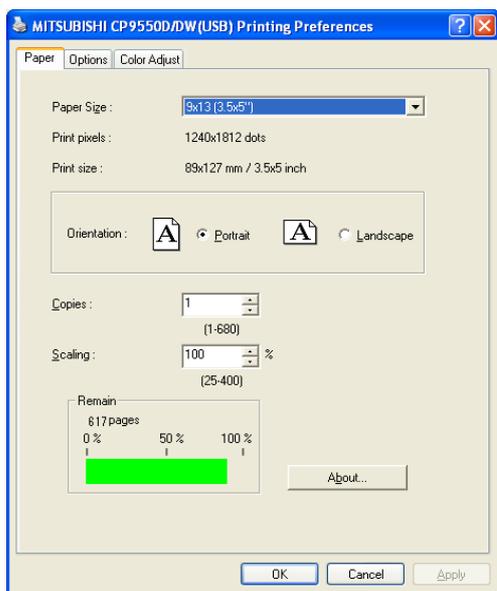
Operate the following procedures to uninstall the printer driver.

When uninstalling the printer driver, confirm that the printer driver is not used from the application or the print job does not remain in the spooler.

CPD9550X (Windows2000/XP)

- 1) Insert the CD-ROM.
- 2) Start up the command prompt.
- 3) Input and execute the command.
When CD drive is D,
C:\>D:\CPD9550X_Ver200\rem9550 cp9550d_usb
- 4) Reboot the computer.

1. Paper dialog



<Fig.11 The dialog of “Paper” (Windows XP)>

1) Paper Size

The size of paper is selected.

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

When using the paper for post card, select 10x15(4x6”).

2) Print pixels

The number of pixels to print in each paper size is displayed.

3) Print size

The print size is displayed.

4) Orientation

The direction of paper is set.

5) Copies

The printer prints the number of printouts which is shown in dialog. (Range : 1 - 680)

*When multiple copies are printed, it becomes like the example below usually.

(example) The print result of 2 copies of 3 pages:1p 1p 2p 2p 3p 3p

*Some applications might not transmit as the above method.

(example)The print result of 2 copies of 3 pages

:To achieve 1p 2p 3p 1p 2p 3p, the application outputs each image twice.

6) Scaling

Enlargement scale is set. (Range : 25-400%)

7) Remain

The remaining amount of the ink ribbon is displayed in a bar.

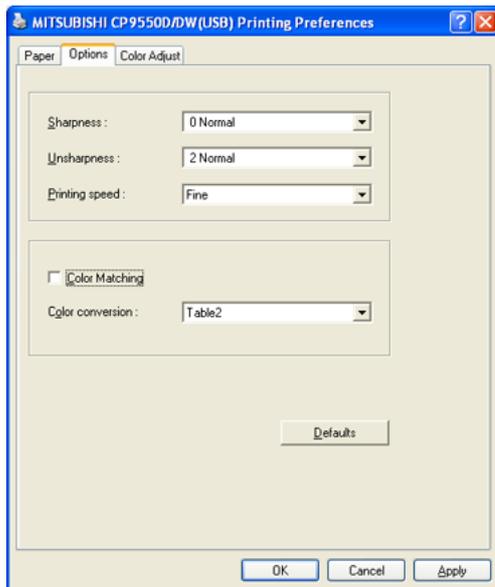
When a printer is not connected or information from the printer can not be read, this bar is displayed in gray.

8) About...

Displays the version information of this driver.

Paper size	Print pixel
9x13(3.5x5")	1240*1812
10x15(4x6")	1416*2152
13x18(5x7")	1812*2452
15x20(6x8")	2152*2792
15x21(6x8.5")	2152*2956
15x23(6x9")	2152*3146

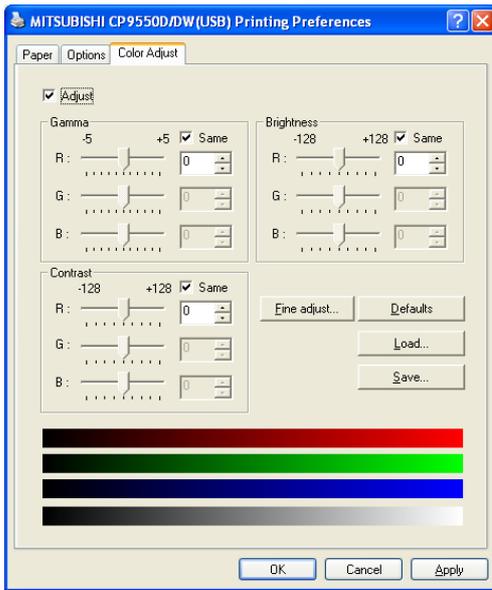
2. Option setting dialog



<Fig.12 Option setting dialog (Windows XP)>

- 1) Sharpness
none / -3 / -2 / -1 / 0 / 1 / 2 / 3
Level of outline correction is changed.
none :Not perform the outline correction.
-3 to 3 :The value is smaller, the outline becomes softer.
The value is larger, the outline becomes sharper.
- 2) Unsharpness
none / 0 / 1 / 2 / 3 / 4
The image is softened.
none :Not soften the image.
0 to 4 :The value gets larger, the image gets softer.
- 3) Printing speed
Fine / SuperFine / FineDeep
The printing speed can be changed.
FineDeep is not available on the printer having certain serial numbers.
Refer to "17)Printing speed setting" of "Notes".
- 4) Color matching
Color matching is carried out according to the ICC profile set in the "Color control" tab.
When the ICC profile is not set in the "Color control" tab, set the "Color matching" to OFF because the color matching is not carried out in this case.
- 5) Color conversion
none / Table1 / Table2
none :Color conversion is not performed.
Table1, Table2 :Color conversion is performed.
When the color matching is set to ON, color conversion is not available.
- 6) Defaults
All the settings in Option dialog are reset to the defaults.

3. Color adjustment



<Fig. 13 Color adjustment dialog(Windows XP)>

3.1. Color Adjust dialog

1) Adjust

Tick the box for the color adjustment.

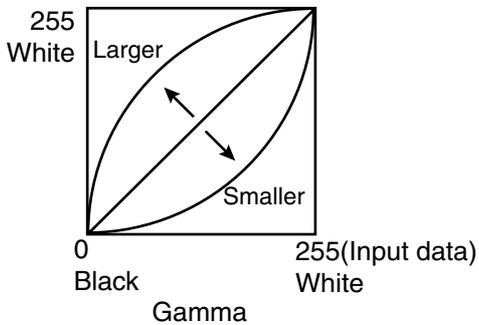
2) Gamma

Adjusted value(-5 - +5)

When you want to increase the density of the middle tones, decrease the value of “Gamma” of the color adjustment dialog.

Same check box ON:R,G and B are same value, OFF:R,G and B are individually adjusted.

(Output data)



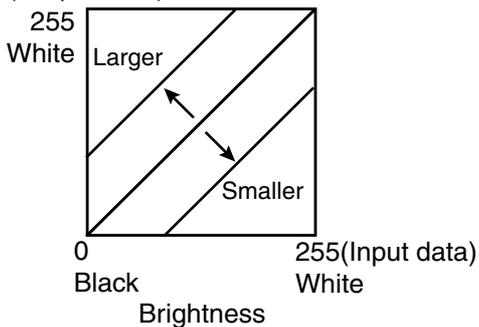
3) Brightness

Adjusted value (-128-+128)

When you want the brightness of the print picture to be dark, the value of “Brightness” of the color adjustment dialog must be decreased.

Same check box ON:R,G and B are same value, OFF:R,G and B are individually adjusted.

(Output data)

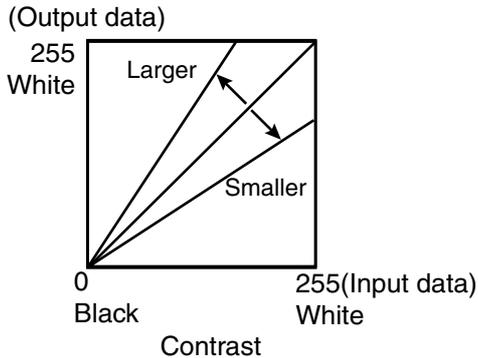


4) Contrast

Adjusted value (-128-+128)

When you want the contrast of the print picture to be strong, the value of "Contrast" of the color adjustment dialog must be increased.

Same check box ON:R,G and B are same value, OFF:R,G and B are individually adjusted.



5) Fine adjust

The more minute color adjustments are carried out by the Gamma adjustment tone curve.

6) Defaults

All adjustable values in Color Adjust dialog become 0.

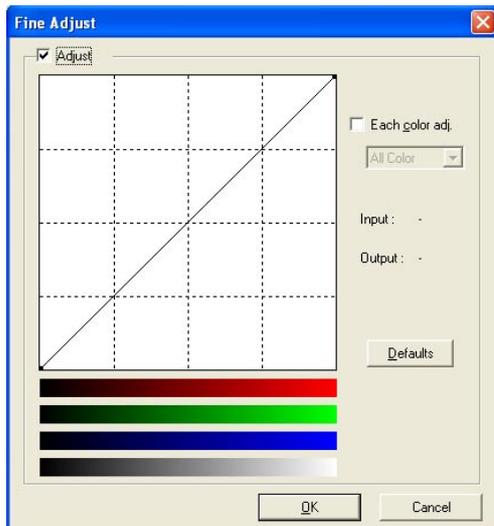
7) Load...

The color adjustment setting file is loaded.

8) Save...

The color adjustment setting is saved.

3.2. Fine Adjust dialog



<Fig.14 Fine Adjust dialog (Windows XP)>

1) Adjust

Tick the box for the color adjustment.

2) Each color adjustment

ON: Each RGB color is individually adjusted.

OFF: The same adjustment of each RGB color carries out.

3) Selecting the color to be adjusted

When adjusting color individually, select the color to be adjusted.

4) I/O value display

The input (gradation value before adjustment) and output (gradation value after adjustment) of the adjustment point are displayed.

5) Defaults

All the tone curves become a linear straight line of the range (0, 0) - (255, 255).

4. Error indication

No.	Error dialog message	Button	Operation		
(1)	Printer Power is off or Cable is not connected. After removing error and clicking Retry button, Printer will restart.	Retry	After connecting the printer (Turn on the printer. / Connect the I/F cable.), click Retry button. The dialog disappears and printing starts again.		
		Cancel	If Cancel button is clicked, printing is canceled.		
(2)	Printer is not connected.	OK	Click OK button. After connecting the printer (Turn on the printer./ Connect the I/F cable), printing starts automatically.		
(3)	The printer does not respond. Turn the printer Off and then On again, and try again.	OK	When clicking OK button, the dialog disappears and the print job is deleted. After turning the power off and turning it back on, start printing process again.		
(4)	Something is wrong with the printer.	Cancel	When the error is resolved, the dialog disappears and printing starts automatically. When Cancel button is clicked, printing is canceled.		
(5)	Mechanical Error. After removing Error, press the FEED&CUT button.				
(6)	Mechanical Error. After removing Error, open and close the door.				
(7)	Door is opened.				
(8)	Open and close the door.				
(9)	Ink ribbon and paper type do not match.				
(10)	Ink ribbon is not correctly installed.				
(11)	Ink ribbon end.				
(12)	Paper empty.				
(13)	The ink ribbon is not standard.				
(14)	The printer was turned off while printing. Press the FEED&CUT button.				
(15)	Something is wrong with the printer.			No buttons	When the error is resolved, the dialog disappears and printing starts automatically.
(16)	Mechanical Error. After removing Error, press the FEED&CUT button.				
(17)	Mechanical Error. After removing Error, open and close the door.				
(18)	Paper jam. After removing Error, press the FEED&CUT button.				
(19)	Paper jam. After removing Error, open and close the door.				
(20)	Open and close the door.				
(21)	Ink ribbon and paper type do not match.				
(22)	Paper size of printer driver and ink ribbon type do not match.				
(23)	Paper end.				
(24)	The ink ribbon is not standard.				
(25)	Ink ribbon empty. After removing Error, press the FEED&CUT button.				
(26)	The printer was turned off while printing. Press the FEED&CUT button.				

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

When an error occurs in the printer, printing starts automatically by resolving the error.

For the indicator on the printer, see the operation manual of CP9550DW.

The error may not be displayed in the case of system configurations other than that shown below.

Interface	Operating system	Setting
USB	Windows2000	Set "Enable bi-directional support for this printer" for printer properties.
	WindowsXP	

In Windows 2000/XP, the errors of (1) is not displayed.

In Windows 2000/XP, the print job is not deleted if the printer is not turned on or the I/F cable is not connected. By turning on the printer or connecting the I/F cable, the data will be transferred again.

- 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 drive of Windows system 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 color adjustment
The color adjustment is applied the entire printing range including the background.
- 4) About "Print directly to the printer"
With some applications, if "Print directly to the printer" is selected, objects may not be printed correctly.
In that case, select "Spool print documents ..." for printing.
CPD9550X : the "details" page of CPD9550X's printer property sheet
- 5) About connection of a computer and a printer
Do not disconnect the interface cable during data transfer.
If the interface cable is disconnected, connect it after the DATA indicator on the printer stops blinking. If the cable is connected before the DATA indicator stops blinking, the printer driver may not work correctly.
- 6) System requirements for USB interface
Use the computers equipped with USB interface listed below.
Computers pre-installed with Windows2000/XP.
Computers installed with Windows2000/XP that are USB-guaranteed by the manufacturer.
CP9550DW supports the USB 2.0 (Hi-Speed USB) interface.
As USB 2.0 is completely upwardly compatible with USB 1.1, CP9550DW can be connected with a personal computer on which USB1.1 interface is available.
When you use CP9550DW 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.
- 7) 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.
- 8) 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.
- 9) Number of prints
With some applications, 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.
- 10) Remainings
Remainings on the Paper tab shows the remainings of the ink ribbon by a bar, by reading information from the printer when the Paper tab is displayed. The correct information may not be acquired during printing.
- 11) Connection with more than one printer
When more than one CP9550DW is connected to one personal computer, the "Add New Hardware Wizard" will be displayed and installation of printer drivers will be carried out repeatedly for each of connected printers. The same number of printer drivers as that of connected printers are installed.

12)Errors during printing

When an error occurs during printing, it may not be displayed on the monitor. To resume printing, check the indicator on the front of the printer and take the countermeasure. For the indication by the indicator of the printer and the countermeasures, see the operation manual of the printer.

13)Print on the post card size paper

When using the paper for post card , select 10x15(4x6") from the Paper Size.

14)Setting of the color matching

Even if the color matching is set to ON by the printer driver, color matching may not be available with some applications.

With some applications, color matching is effective even if it is set to OFF.

15)When you print and it is displayed as "Parameter's value is invalid.", perform the following operations.

- a) Select "Device Manager" from "Hardware" tab of "System Properties."
- b) Select "Scan for hardware changes."

16)ICC profile supplied with the printer driver

When using the ICC profile supplied with the printer driver, set the "Printing speed" to "Fine".

17)Printing speed setting

Available settings differ depending on printers as described below.

Printer serial number	Printing speed setting
1 - 15000	FineDeep is not available.
300001 - 300600	Only Fine and SuperFine are selectable.
15001 - 300000	Fine, SuperFine and FineDeep are selectable.

Operating directions for customer's purpose

1. When you want to adjust the color of the print image.

Note that the effects are invalid on the display if you make following setting.

- 1) When you want the density of entire print picture to be thick (dark), decrease the value of "Brightness" of the color adjustment dialog.
- 2) When the focus of the print picture is loose (The contrast is weak), increase the value of "Contrast" of the color adjustment dialog.
The contrast becomes stronger.
- 3) When you want to change the color of printout.
Change the value of "Brightness".
 Increase Red :Increase the "R" value of the color adjustment dialog.
 Increase Green :Increase the "G" value of the color adjustment dialog.
 Increase Blue :Increase the "B" value of the color adjustment dialog.
- 4) When you want to adjust Gamma of the printout.
By moving the graph of the Gamma adjustment dialog with mouse, The density of the entire image can be adjusted to the arbitrary Gamma curve.
The density becomes high (dark) when decrease the output value compare with the input value.
The density becomes low (bright) when enlarging the output value compare with the input value.

2. Making the ICC profile

Refer to the following when you make a suitable ICC profile for the system to be used and apply it to the printer driver.

- 1) Set the printer driver as follows when you print the basic color chart for making ICC profile using the printer.
Delete the ICC profile set on the "Color control" tab of the printer property.
Set the "Color matching" on the option tab of the printer driver to OFF.
Set the "Color conversion" on the option tab of the printer driver to "none".
Set the "Printing speed" on the option tab of the printer driver to a desired value.
- 2) Add the new ICC profile using the "Color control" tab of the printer property.



Prohibition matter



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Exemption from responsibility



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