

# DNP

DIGITAL PHOTO PRINTER

# DP-DS80D

Printer Driver Instruction Manual  
For Windows XP

- Safety precautions

Please read the User's Manual for the printer carefully before use, and follow the instructions. Note that the contents of directions for use and safety precautions correspond to the safety standards as of the time the User's Manual has been created.

- Remodeling

For product safety, do not remodel the DP-DS80D printers or the contents of the DP-DS80D printer drivers and the CD.

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# Chapter 1 Install

## 1.1 Printer and Host computer Connection

Power ON the DP-DS80D and connect the DP-DS80D printer and the host by USB cable.

\* Please refer to the manual for the DP-DS80D printer for connection if needed.

After that, if [Found New Hardware Wizard] is initiated, please install using the procedure in [1.2 Found New Hardware Wizard]. If [Found New Hardware Wizard] is not initiated, please install in accordance with [1.3 Install from Add Printer Wizard].

## 1.2 Found New Hardware Wizard

After confirming [Install from a list or specific location [Advanced]] is selected, click [Next].

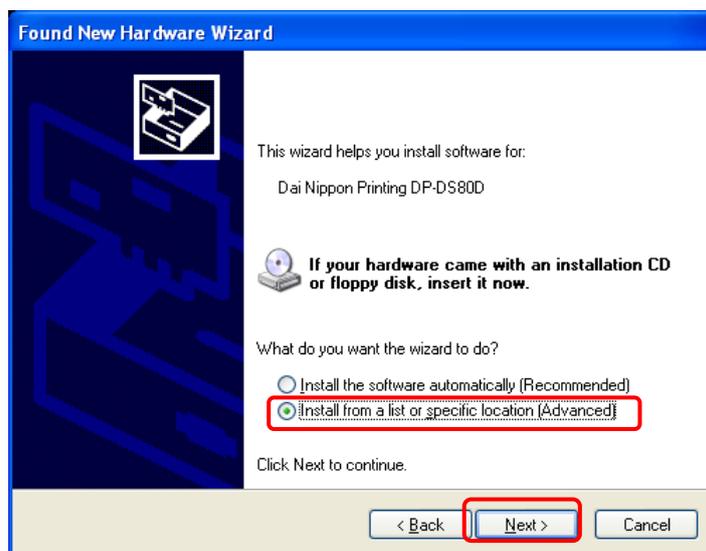


Fig 1.1 Found New Hardware Wizard

Note) When using Windows XP SP2, if the following screen appears in “Found New Hardware Wizard”, select “No, Not This Time”, and click the “Next” button.



Select [Search for the best driver in these locations], and confirm that [Include this location in the search] is selected. Specify the location of the installation disk using the [Browse] button, and click [Next].

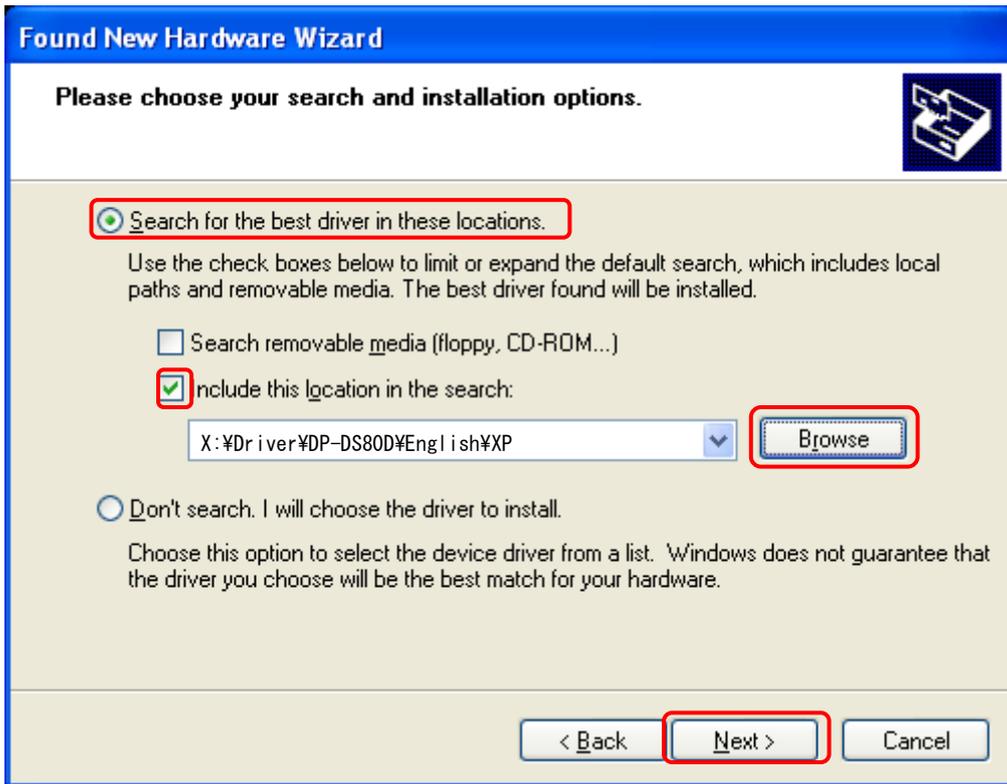


Fig 1.2 Search and Install Option

After searching the driver file, software installation is initiated. It takes some time for the software installation.



Fig 1.3 Software Installation

If the following window appears during upgrade installation, check the “Version” section, select the newest version, and click the “Next” button.

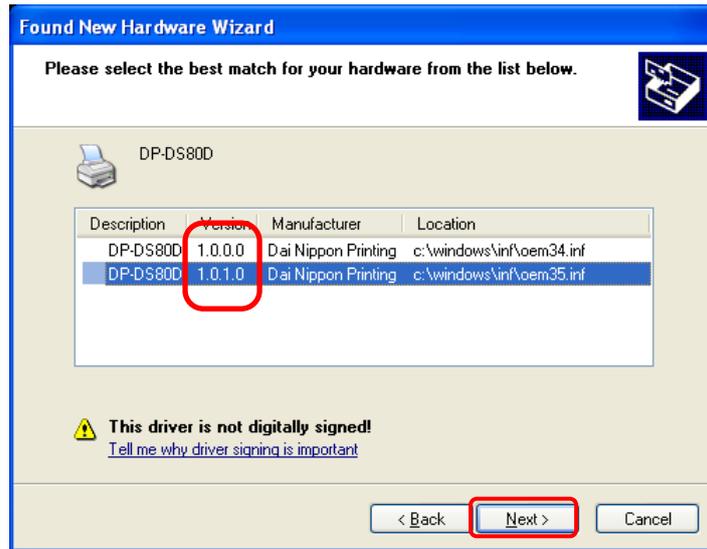


Fig 1.4 Select Software

During software installation, the following message will be displayed. Please click [Continue Anyway] to continue.



Fig 1.5 Hardware Installation

If [Search removable media (floppy,CD-ROM)] has been selected in Figure 1.2, the following message will be displayed. CD-ROM is inserted, and click [OK].



Fig 1.6 Insert Disk

If the following window appears when clicked [OK] in Figure 1.6.  
Specify the location of the installation disk using the [Browse] button, and click [OK].

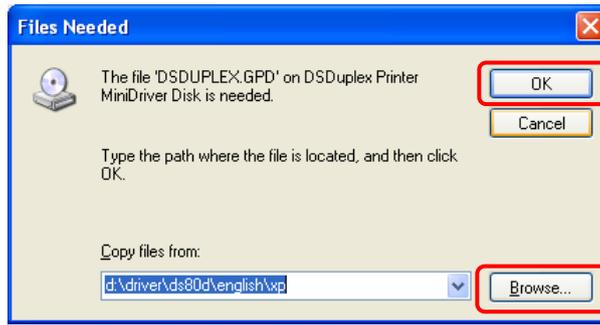


Fig 1.7 Files Needed

Click [Finish] to finish the wizard.



Fig 1.8 Quit from Found New Hardware Wizard

Click [start] – [Printer and Faxes] and confirm that [DP-DS80D] is shown.

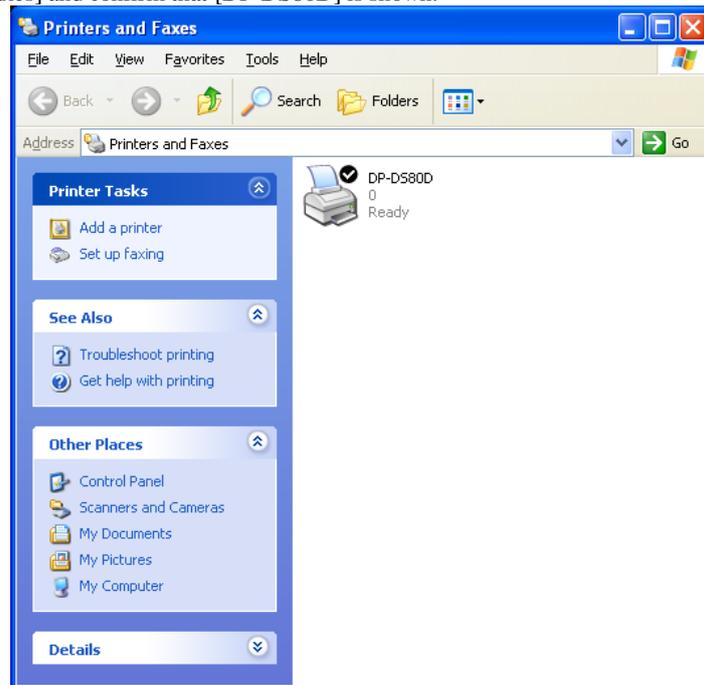


Fig 1.9 Printers and Faxes

After installation of the printer-driver is complete, be sure to reboot the computer.

## *1.3 Install from Add Printer Wizard*

Click [start] – [Printers and Faxes].

(Depending on the host computer, [Printers and Faxes] may not be indicated. In that case, click [start] – [Control Panel] – [Printer and Other Hardware] – [Printers and Faxes])

Click [Add printer].

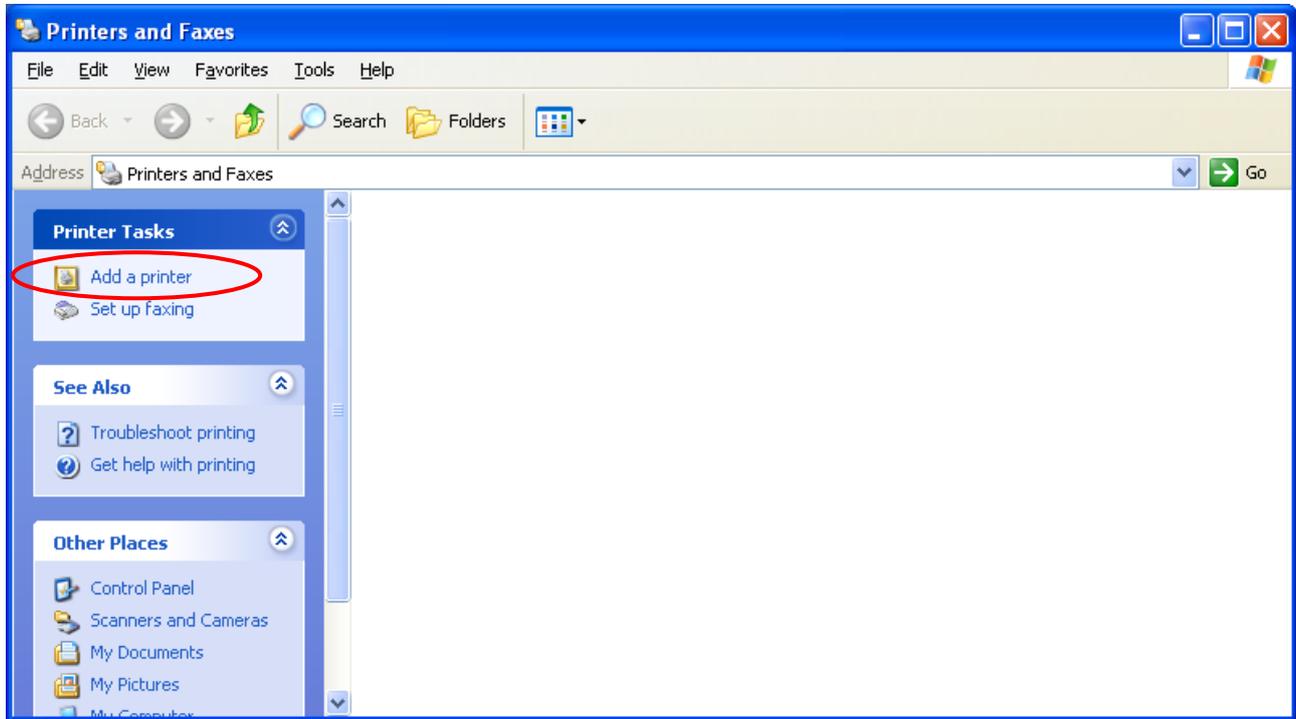


Fig 1.10 Printers and Faxes

After [Add Printer Wizard] window is shown, click [Next].

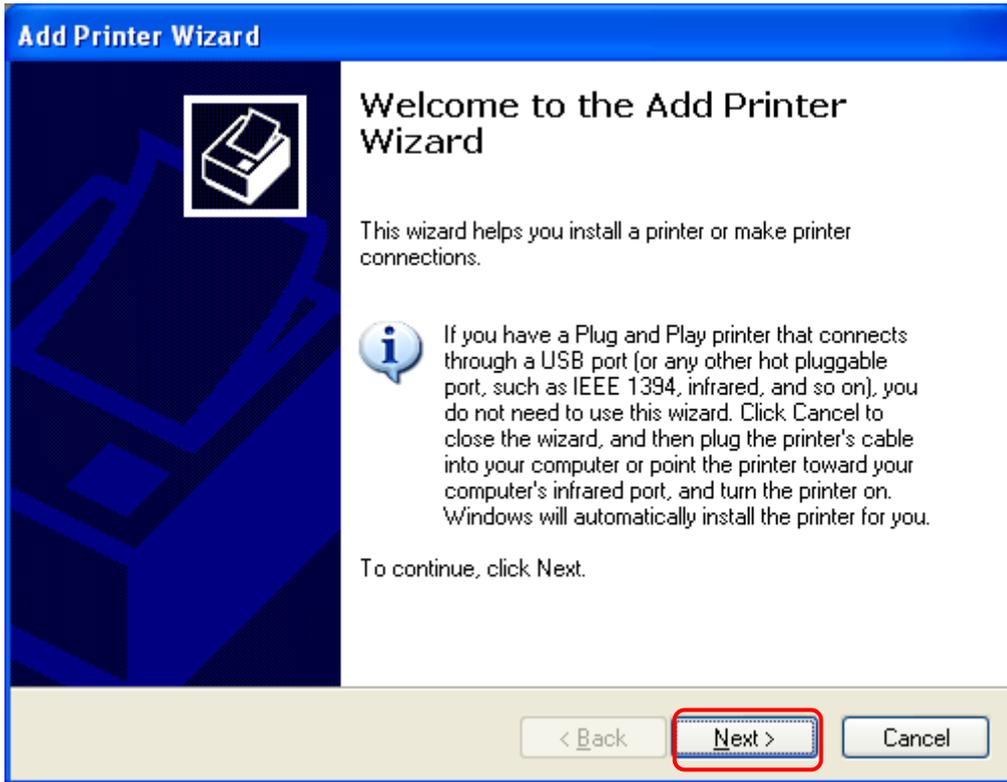


Fig 1.11 Start of Add Printer Wizard

In the [Local or Network Printer] window, select [Local printer attached to this computer], and deselect [Automatically detect and install my Plug and Play printer], then click [Next].

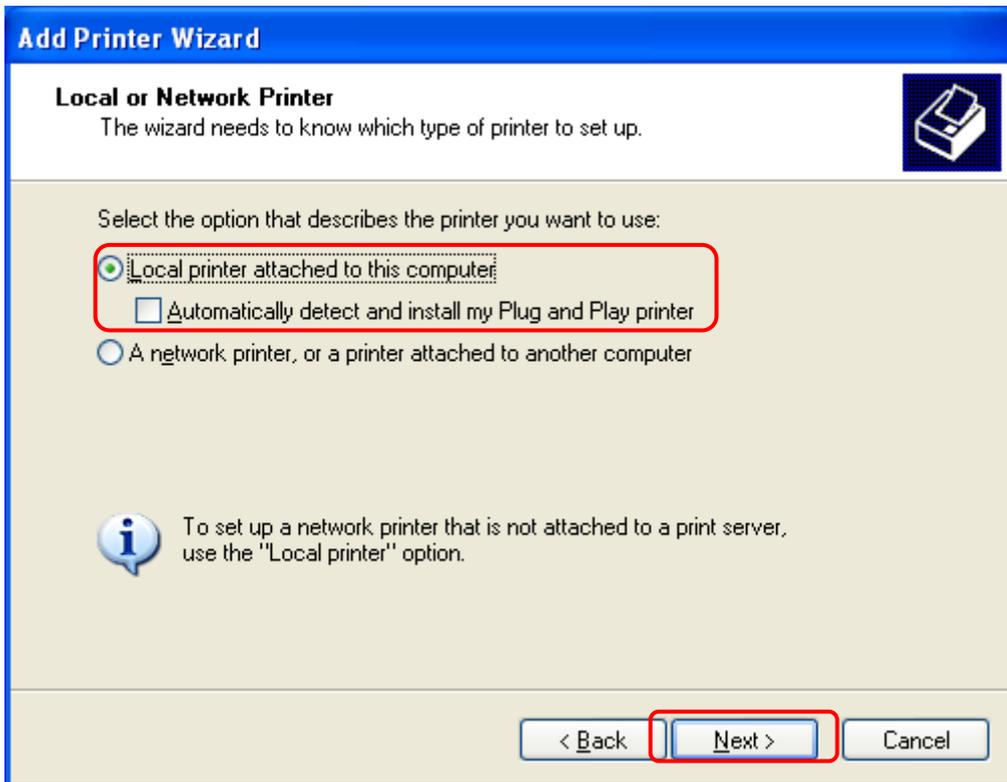


Fig 1.12 Local or Network Printer

In the [Select a Printer Port] window, select [Use the following port] and assign USB port ([USB001] so on) from the dropdown list, then click [Next].

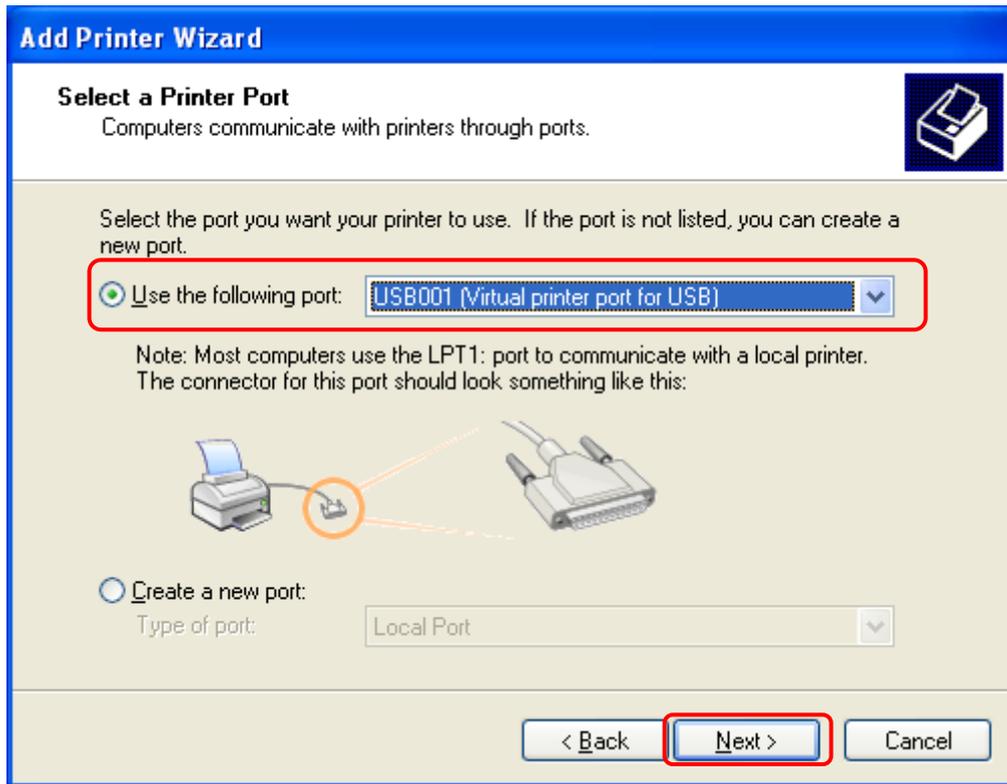


Fig 1.13 Printer port assign

After [Install Printer Software] is shown, click [Have Disk].

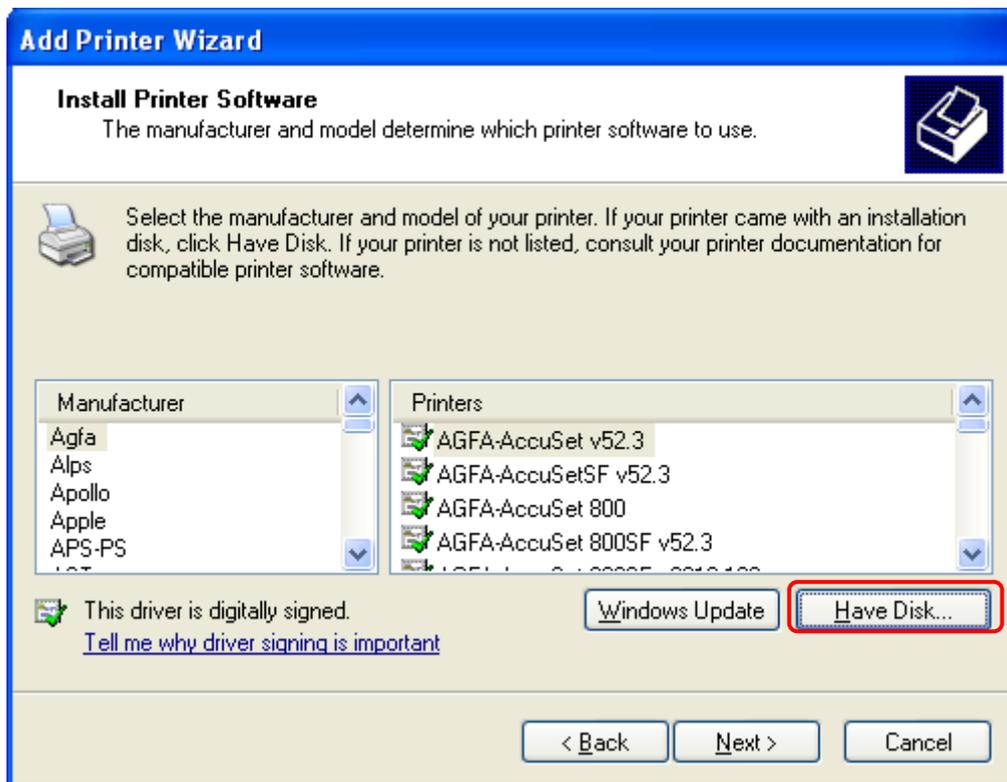


Fig 1.14 Printer software installation

In the [Install From Disk] window, select the location of the installation disk using [Browse].

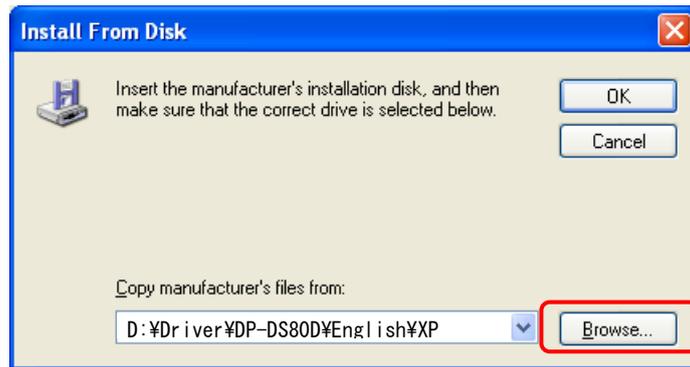


Fig 1.15 Install from disk

After confirming that [DP-DS80D] is shown, click [Next].

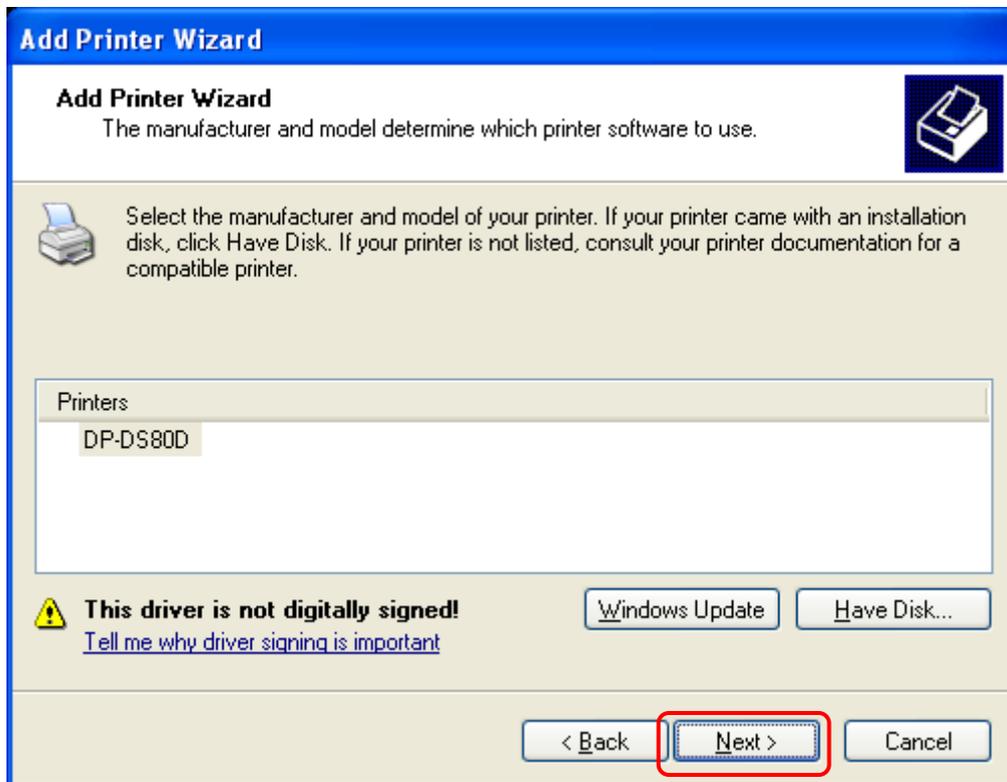


Fig 1.16 Printer software installation

In the [Name Your Printer] window, assign a name to the printer and click [Next].

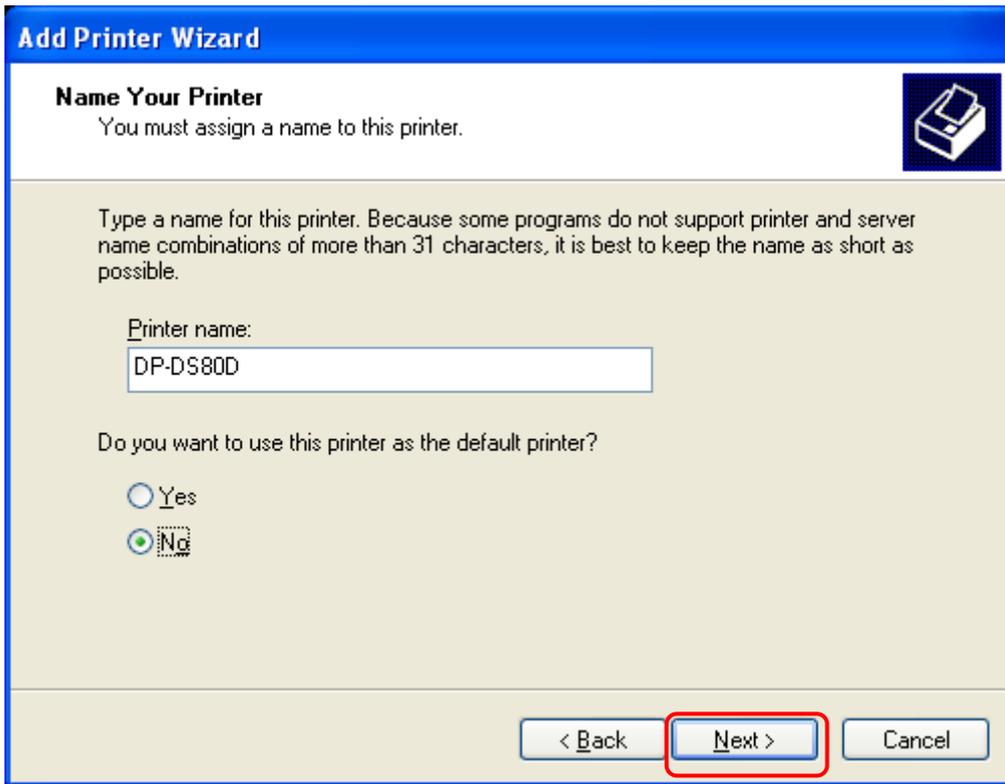


Fig 1.17 Assigning a name to the printer

In the [Print Test Page] window, select [No] and click [Next].

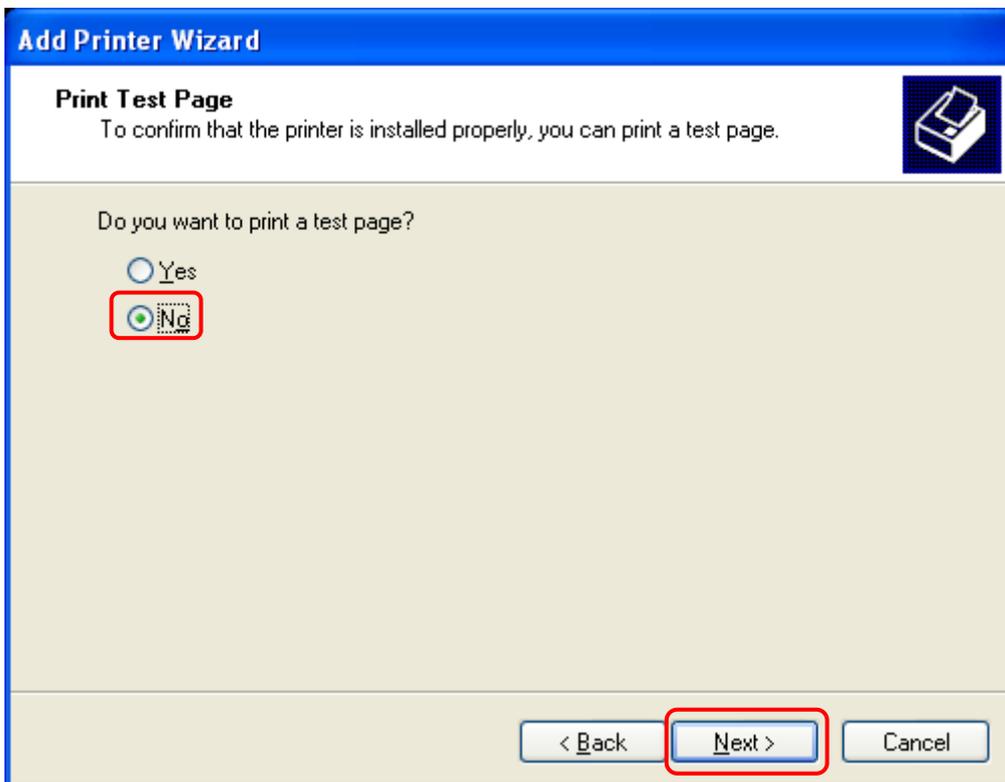


Fig 1.18 Print test page

In the [Completing the Add Printer Wizard] window, click [Finish].

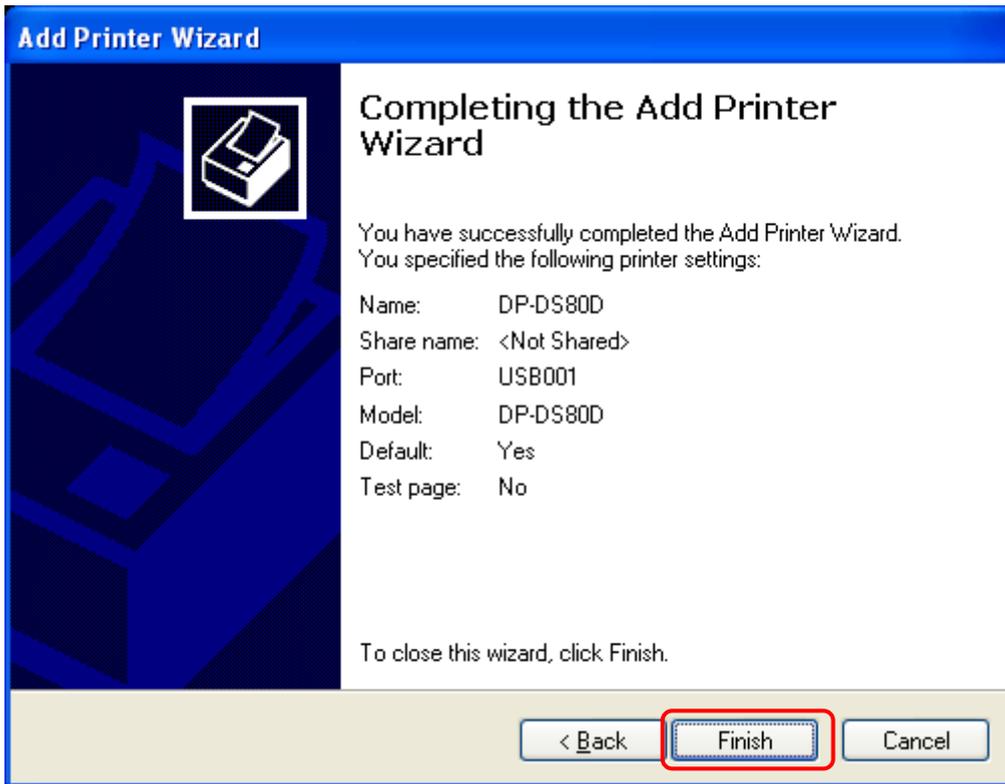


Fig 1.19 Completing the Add Printer Wizard

When installing the software, the following message may be displayed. Click [Continue Anyway] to continue.



Fig 1.20 Hardware installation

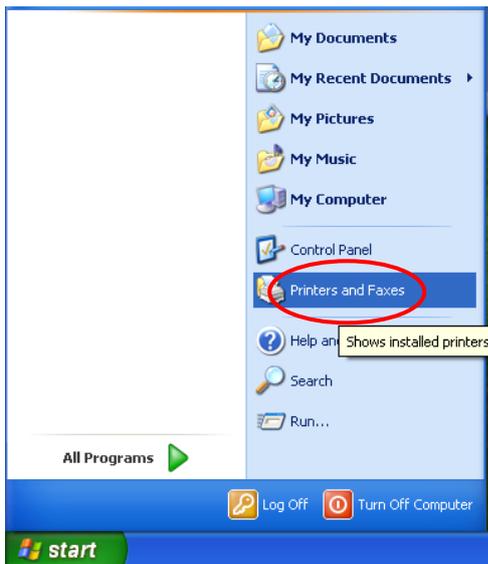
After installation of the printer-driver is complete, be sure to reboot the computer.

## Chapter 2 Properties

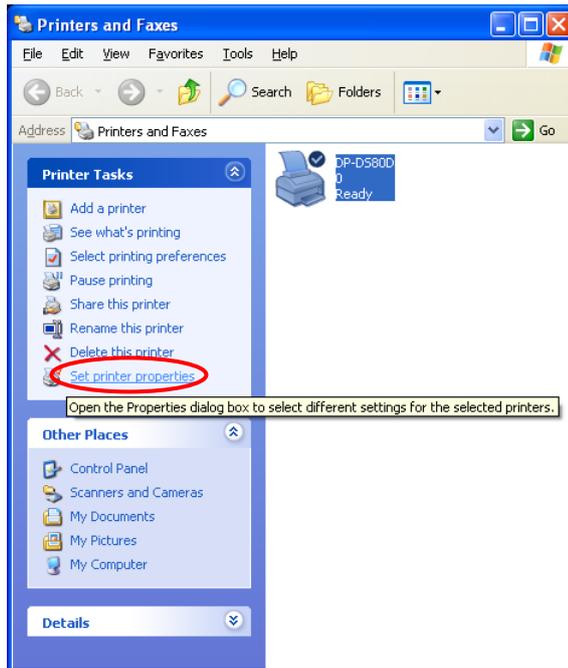
Various printer settings can be made using the DP-DS80D Driver properties. Before operation, be sure to have a good understanding of the contents. Depending on application of the use, operation from print setting of the application is necessary.

### 2.1 Opening Printer Properties

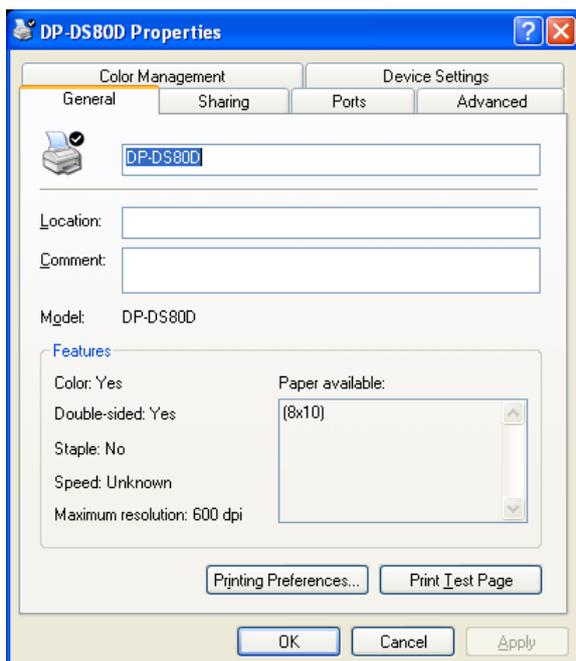
1. Start in order using START → All Programs → Printers and Faxes



2. Select the DP-DS80D printer → Open Set printer properties



3. The DP-DS80D Properties window will appear.



## 2.2 Explanation of Print Setting Functions

2.1 From the Properties window, by selecting Print Settings you can make various print settings.

### 2.2.1 Layout

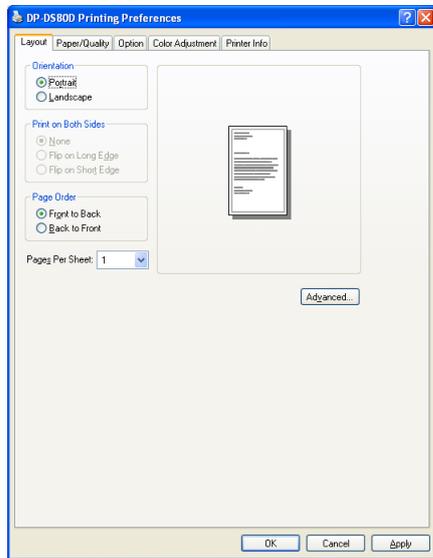


Fig 2.2.1 Layout tab

#### Print Orientation

Assign print orientation as vertical or horizontal.

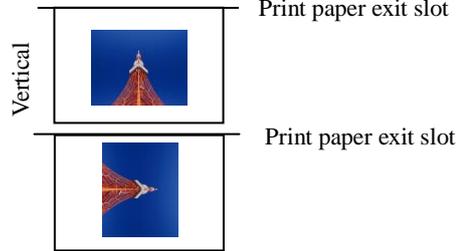
Output images of the original image without rotation are shown at the right.



Original image orientation

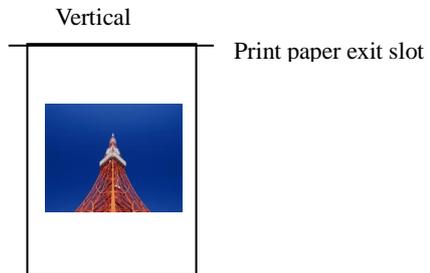
Output image depending on print direction

Ex.) For (8x5), (8x6)



Horizontal

For (8x10), (8x12)



Horizontal

#### Duplex Printing

This designates whether the duplex printing is long-edge or short-edge orientation, or is Off. If cut paper (tray) is selected in the Paper Supply Method tab in “2.2.3 Paper/Quality”, long-edge/short-edge orientation duplex printing can be selected.

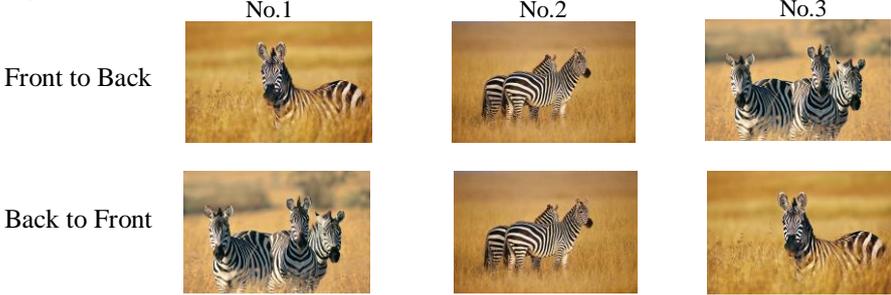
Long-edge Duplex printing is carried out on the long-edge orientation.

Short-edge Duplex printing is carried out on the short-edge orientation.

**Page Order**

When printing multiple images in the application, you can set the order.

Ex.) Print order



**Pages Per Sheet**

Prints the designated fractional size. In most situations, set "1".

(When set to 1 except, please use by the print quality setting to 300x300dpi or 600x600dpi.)

Ex.) Fractional size

1 (Whole)



4 (Quarter-size)



9 (One-ninth size)



## 2.2.2 Advanced Options

By selecting [Advanced Settings] in the Layout window, various settings can be made using Advanced Options.

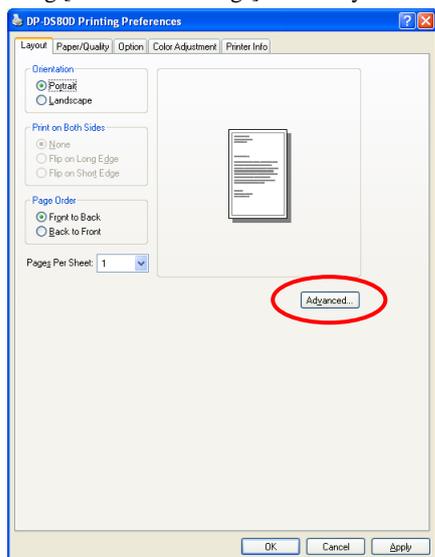


Fig 2.2.2.1 Advanced Settings



Fig 2.2.2.2 Advanced Options tab

### Paper Size

You can designate the paper size. Please match the paper size to the media size with which the printer is equipped

With the DP-DS80D, the paper sizes that can be designated with the roll paper / cut paper (tray) selection in “2.2.3 Paper /Quality” Method” differ as shown in the table below.

○ : Can be selected

Paper Size	Roll paper	Cut paper
(5x3.5)	○	
(5x7)	○	
(6x4)	○	
(6x4)x2	○	
(6x8)	○	
(6x9)	○	
(8x10)	○	○
(8x12)	○	○
(8x4)	○	○
(8x4)x2	○	○
(8x4)x3	○	○
(8x5)	○	○
(8x5)x2	○	○
(8x5)_(8x4)	○	
(8x6)	○	○
(8x6)x2	○	○
(8x6)_(8x4)	○	
(8x6)_(8x5)	○	
(8x8)	○	○
(8x8)_(8x4)	○	
A4Length	○	
(8x10.50)		○
(8x10.75)		○

**Copy Count**

You can designate the number of times an image will be printed.

**Print Quality**

You can designate the print quality. Please match the print quality to the printer settings.

Print Quality	Function
<b>300 x 300dpi</b>	Printing in the high-speed mode
<b>300 x 600dpi</b>	Printing in the high-quality mode * If the application can not set an asymmetric aspect resolution, please set the 600x600dpi.
<b>600 x 600dpi</b>	Printing in the high-quality mode (Printer driver converts to 300x600dpi data, and sends it to the printer.)

**ICM Method**

ICM Method	Function
<b>ICM Disabled</b>	2.2.4 Synchronous with “Color Management: None” in paper option.
<b>ICM Handled by Host System</b>	2.2.4 Synchronous with “Color Management: ICM” in paper option. Performs color management with the driver.
<b>ICM Handled by Printer</b>	This is the same as setting “ICM Handled by Host System”.

**ICM Intent**

This designates the rendering method when using ICM. Always have the ICC profile for the DP-DS80D set to “Picture”. Please do not use it at other settings.

**Advanced Printing Features**

Always have it set to “Enabled”. Please do not use it at other settings.

**Border**

Synchronous with the border option in the paper option.

**Overcoat Finish**

The overcoat finish for the printed surface can be selected from the following two types.

Overcoat Finish	Function
<b>Glossy</b>	This finishes the print with a glossy surface.
<b>Matte</b>	This finishes the print with a matte (non-glossy) surface.

**Print Re-try**

Depending on the version being used, “Disable” may be the only option

This sets up whether print data in a printer buffer when the error of a printer occurs is printed after error recovery, or it does not print.

Print Re-try	Function
<b>Disable</b>	Printing data in a printer buffer is cleared in the case of a printer error. After an error recovery, the cleared image data must be re-sent. When using an application that has an error recovery function, select this option.
<b>Enable</b>	Printing data in a printer buffer is held in the case of a printer error. After an error recovery, the print process resumes with the saved data. However, if the power is turned OFF, the data will not be saved.

Change the printer of the version corresponding to Print Re-try and a non-corresponded version, and when you use it by connecting it to the same USB port, when you change printers, reboot the computer.

According to the contents of a printer error, the power supply of a printer needs to be re-switched on for error recovery. In this case, it is not dependent on a setup of Print Re-try, and printing data in a printer buffer is cleared. Operation by Print Re-try setup in each error is shown below.

Error Re-try Function for Duplex Printing

Contents of the error	Print Re-try setting is "Disable"		Print Re-try setting is "Enable"	
	Front	Back	Front	Back
Paper End	Please resend picture data not printed after error recovery.	-	Printing processing is resumed from the data currently held in the printer buffer after error recovery. When paper initialization operation is run, it is printed after the paper initialization operation.	-
Ribbon End		Regardless of Print Re-try settings, once the error is resolved, printing processing is resumed from data currently held in the printer buffer.		Regardless of Print Re-try settings, once the error is resolved, printing processing is resumed from data currently held in the printer buffer.
Cover Open		After the error is resolved, resend the print data including the front image.		If the error occurs on the back side, printing of the back will continue after the error is resolved. In cases where media trouble prevents the delivery of normal prints, such as paper jam, resend the image data for both sides of the print.
Paper Jam (*1)				
Ribbon Error (*1)				
Paper Definition Error				
Scrap Box Error				
Data Error	Error recovery requires that the power supply of the printer needs to be turned OFF. Therefore, print data in the printer buffer is cleared regardless of the setup of the Print Re-try function.  Please resend the picture data not printed after the printer is rebooted.	Because resolution of the error requires the printer to be turned OFF, the image data in the buffer will be cleared regardless of Print Re-try settings.  Also, even though the front side is finished, it will be aborted, so after the printer is rebooted, resend the image data for both sides of the print.	Error recovery requires that the power supply of the printer needs to be turned OFF. Therefore, print data in the printer buffer is cleared even if the Print Re-try function is set to "Enable".  Please resend the picture data not printed after the printer is rebooted.	Because resolution of the error requires the printer to be turned OFF, even if Print Re-try is enabled, the turning OFF of the printer will clear the data from the buffer. Also, even though the front side is finished, it will be aborted, so after the printer is rebooted, resend the image data for both sides of the print.
Head Voltage Error				
Head Position Error				
Power Supply Fan Stop				
Cutter Error				
Abnormal Head Temp.				
Abnormal Media Temp.				
Ribbon Tension Error				
RFID Module Error				
Abnormal motor Temp.				
System Error				

\*1: After an error stop, a paper or a ribbon should perform removal work of an error factor according to a printer user's manual.

### 2.2.3 Paper/Quality

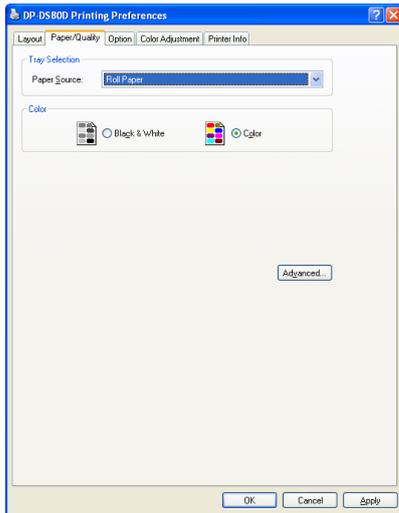


Fig 2.2.3 Paper/Quality tab

#### Paper Source

Either Roll paper or Cut paper (tray) can be selected. Duplex printing can only be done when Cut paper (tray) is selected. If a paper size valid for only either Roll paper or Cut paper (tray) is selected in the paper size setting in “2.2.2 Advanced Options”, then the Paper Supply Method setting will be disabled.

**Color** Please set to color print. Do not use for black and white printing.

### 2.2.4 Options

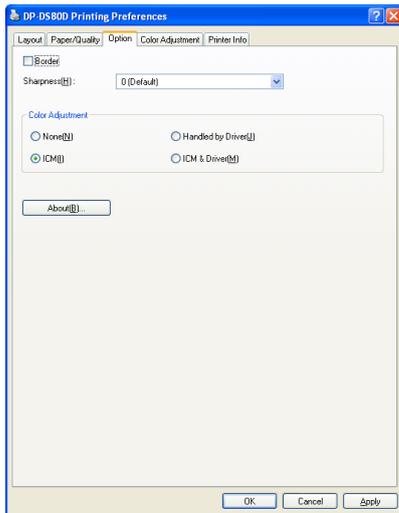


Fig 2.2.4.1 Paper option tab

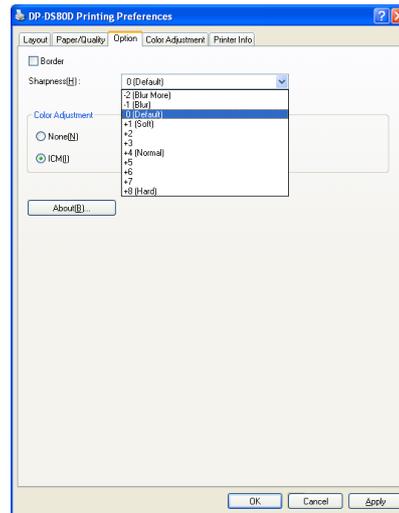


Fig 2.2.4.2 Sharpness setting

#### Border

Designates yes or no for border (check means with border). Synchronous with Border in the Advanced Settings.

#### Sharpness

Processes for 11 sharpness levels (Fig 2.2.4.2). 0 (Initial setting) means there is no sharpness processing. Minus(-) blurs the image, and plus(+) increases the sharpness.

#### Color Adjustment

##### None

Synchronous with the ICM Method in the Advanced Settings. Checking this item disables ICM and the Color Adjustment tab, and color management does not occur from the driver.

##### Handled by Driver

Checking this item disables ICM and [2.2.5 Color Adjustment](#) is enabled. The adjustment values for gamma, brightness, contrast, and chroma are shown.

##### ICM

Synchronous with the ICM Method in the Advanced Settings (ICM Handled by Host System). Checking this item enables color management from the driver.

##### ICM & Driver

If you check this, ICM (color management) and color adjustment will be enabled.

#### About

Displays the driver version.

## 2.2.5 Color Adjustment

If you check Handled by Driver in 2.2.4 Options, the respective color adjustment values in the Color Adjustment tab are reflected in the image.

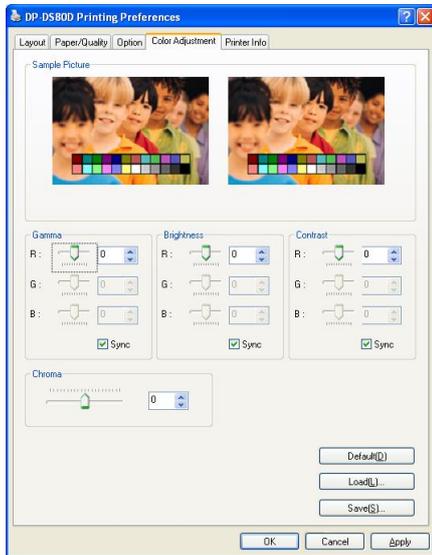


Fig 2.2.5 Color Adjustment tab

Setting ranges in the Color Adjustment tab are as follows:

Adjustment Item	Adjustment Value
<b>Gamma</b>	-100(dark) ~ 100(light) (0 means no adjustment, Gamma 2.0 ~ 0.5) Adjusts the density of the highlights in the image. The greater the gamma value, the brighter the highlights. Synchronous check box ON : Sets RGB at the same value OFF: Sets RGB at a different value
<b>Brightness</b>	-100(dark) ~ 100(light) (0 means no adjustment) Adjusts the brightness of the image. The larger the value, the greater the overall brightness of the image. Synchronous check box ON : Sets RGB at the same value OFF: Sets RGB at a different value
<b>Contrast</b>	-100(weak) ~ 100(strong) (0 means no adjustment) Adjusts the contrast of the image. The larger the value, the greater the contrast. Synchronous check box ON : Sets RGB at the same value OFF: Sets RGB at a different value
<b>Chroma</b>	-100(weak) ~ 100(strong) (0 means no adjustment) Adjusts the color saturation of the image.

## 2.2.6 Printer Information

When the Printer Information tab is opened, the printer status can be checked.

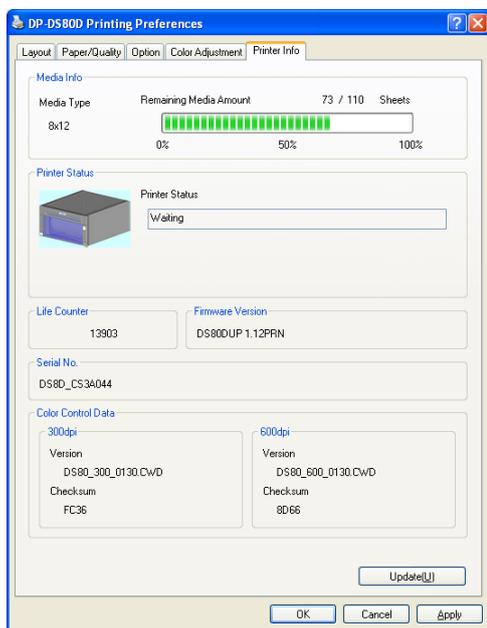


Fig 2.2.6 Printer Information tab

Display	Contents
Media Type	This displays the type of ribbon that is set in the printer.
Media Quantity	This displays the quantity of sheets remaining on the ribbon.
Printer Status	This displays the printer status. Information displayed is as below:
Life Counter	This displays the life counter of printer.
Firmware Version	This displays the firmware version of printer.
Serial No.	This displays the serial number of printer.
Color Control Data	This displays the color control data version and checksum.

Printer Status	Recovery Method
Off-line	Connect the printer to the computer, and turn the power ON.
Waiting	
Printing	
Head Cooling	Please wait. Printing will restart automatically.
Door Open	Close the printer door.
Paper End	Set new paper media.
Ribbon End	Set new ribbon media.
Paper Jam	Remove the jammed paper and rest it correctly.
Ribbon Error	Reset the ribbon correctly.
Paper Size Setting Error	Check the paper size setting and the ribbon size.
System Error	Reboot the printer and computer. If it doesn't recover after rebooting, contact the service center.
Unit Paper Jam Supply area	Reboot the printer. The paper will be ejected automatically.
Unit Paper Jam Feed area	Please refer to the Duplex Unit User's Manual for details
Unit Paper Jam Shell area	
Unit Paper Jam Delivery area	
Unit Tray Out	Set the cut paper tray.
Unit Cover Open	Close the unit cover.
Unit Hardware Error	Reboot the printer and computer. If it doesn't recover after rebooting, contact the service center.

## 2.3 Default Values for Various Settings

Default values for each option (at the time of installation) are shown below. If the printer driver does not work correctly after changing the options, please return the options to the default settings.

Note) According to the Service Pack and use environment of OS, the default value at the time of installation may differ from the following chart.

Tab	Options		Default	
Layout	Orientation		Portrait	
	Print on Both Sides		None	
	Page Order		Front to Back	
	Pages Per Sheet		1	
Paper/Quality	Paper Source		Roll Paper	
	Color		Color	
Option	Frame		Disable	
	Sharpness		0 (Default)	
	Color Adjustment		ICM	
Color Adjustment	Gamma		0	
	Brightness		0	
	Contrast		0	
	Chroma		0	
Advanced <small>(Click [Advanced] button of Layout tab)</small>	Paper/Output	Paper Size	8x10	
		Copy Count	1	
	Graphic	Print Quality		300 x 300dpi
		Image Color Management	ICM Method	ICM Handled by Host System
			ICM Intent	Pictures
	Document Option	Advanced Printing Features		Enable
		Printer Features	Border	Disable
			Overcoat Finish	Glossy
			Print Retry	Disable

Chart 2.3 Print Setting Default Values

## 2.4 Color Management

In [Color Management], this designates the color profile. Default at installation associates [DS80\_xxxx]. xxx is a 4-digit number that refers to the version.

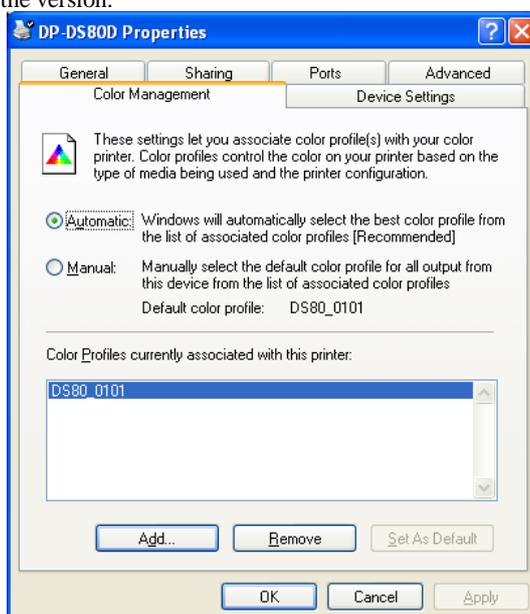


Fig 2.4 Color Management

## 2.5 Image Size

Depending on the paper size designated at the driver, the image size and dot count will be as follows.

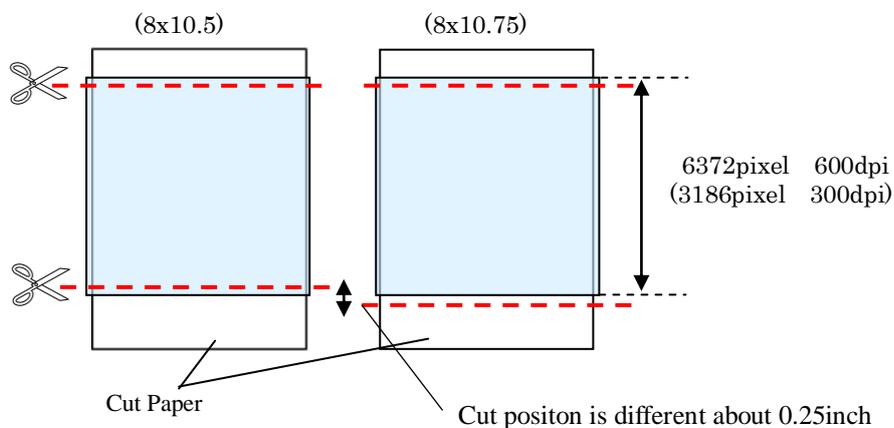
Model	Paper Size	Size (inch)	Print Area (mm)	300 x 300 DPI Dot amount	300 x 600 DPI Dot amount
DP-DS80D	(5x3.5) ※1	3.5"x 5"	92.1 x 131.1	1088 x 1548	2176 x 1548
	(6x4) ※1	4"x 6"	105.0 x 156.1	1240 x 1844	2480 x 1844
	(5x7) ※1	5"x 7"	131.1 x 181.0	1548 x 2138	1548 x 4276
	(6x8) ※1	6"x 8"	156.1 x 206.2	1844 x 2436	1844 x 4872
	(6x9) ※1	6"x 9"	156.1 x 232.0	1844 x 2740	1844 x 5480
	(8x4)	8"x 4"	207.3 x 104.6	2448 x 1236	2448 x 2472
	(8x5)	8"x 5"	207.3 x 130.0	2448 x 1536	2448 x 3072
	(8x6)	8"x 6"	207.3 x 155.4	2448 x 1836	2448 x 3672
	(8x8)	8"x 8"	207.3 x 206.0	2448 x 2436	2448 x 4872
	(8x10)	8"x 10"	207.3 x 257.0	2448 x 3036	2448 x 6072
	(8x10.50) ※2	8"x 10.5"	207.3 x 269.7	2448 x 3186	2448 x 6372
	(8x10.75) ※2	8"x 10.75"	207.3 x 269.7	2448 x 3186	2448 x 6372
	A4 Length ※1	8"x 11.7"	207.3 x 297.0	2448 x 3544	2448 x 7088
	(8x12)	8"x 12"	207.3 x 307.8	2448 x 3636	2448 x 7272

※1 Roll Paper Only

With the DP-DS80D printer, the paper size (output size) can be designated as less than 8 inches, but the media used will be the inch width media.

※2 Cut paper only

The image dot counts for (8x10.5) and (8x10.75) are the same. The image that is output differs as shown below.

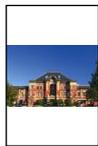


## 2.6 Print Orientation

The relationship between application-created image and printed image(output orientation) by the driver settings(Layout orientation) is as followed table.

These are limited by that original image is not rotated by the application and enlarged or scale downed within the image size that is selected from 2.5 Image Size table.

- ◆The relationship between application-created image and printed image when performing simplex printing as affected by the driver settings.

Original Image	Driver setting				
	Orientation	Paper Size (8x4)、(8x5)、(8x6)		Paper Size (8x10)、(8x12)	
		Application-created image	Print (Feed dir.↓)	Application-created image	Print (Feed dir.↓)
	Portrait				
	Landscape				
	Portrait				
	Landscape				

When performing Duplex printing, the Driver setting (Paper Size, Print Direction, Duplex-printing Print Orientation) affects the relationship between the application-created image and the printer's printing (front / back print direction) as shown in the next page.

◆The relationship between application-created image and printed image when performing duplex printing as affected by the driver settings (  Binding direction )

Original Image			Driver Settings														
			Paper Size (8x4), (8x5) <including multi-layout>					Paper Size (8x10), (8x10.5), (8x10.75), (8x12)									
Orientation	Front	Back	Print Dir.	Application-created image		Flip on	Print (Feed dir.↓)		Print Dir.	Application-created image		Flip on	Print (Feed dir.↓)				
				Front	Back		Front	Back		Front	Back		Front	Back			
Portrait			Vert.			Long edge			Vert.			Long edge					
						Short edge						Short edge					
				Horiz.			Long edge				Horiz.			Long edge			
							Short edge							Short edge			
			Landscape			Vert.			Long edge			Vert.			Long edge		
									Short edge						Short edge		
Horiz.							Long edge			Horiz.				Long edge			
							Short edge							Short edge			

## 2.7 Print Method

### 2.7.1 Multi-layout

With the printer driver paper setting, multi-image layout is made possible, and the image sizes are as follows.

Layout designation

	Driver paper setting (layout)	Image size (mm)	Remarks
Roll paper	(8x4) x 2	(207.3x104.6) x 2	
	(8x5) x 2	(207.3x130.0) x 2	
	(8x6) x 2	(207.3x155.4) x 2	
	(8x5) _ (8x4)	(207.3x130.0) x (207.3x104.6)	
	(8x6) _ (8x4)	(207.3x155.4) x (207.3x104.6)	
	(8x6) _ (8x5)	(207.3x155.4) x (207.3x130.0)	Media size 8x12 only
	(8x8) _ (8x4)	(207.3x206.2) x (207.3x104.6)	Media size 8x12 only
Cut paper	(8x4) x 3	(207.3x104.6) x 3	Media size 8x12 only
	(8x4) x 2	(207.3x104.6) x 2	
	(8x5) x 2	(207.3x130.0) x 2	
	(8x6) x 2	(207.3x155.4) x 2	Media size 8x12 only
	(8x4) x 3	(207.3x104.6) x 3	Media size 8x12 only

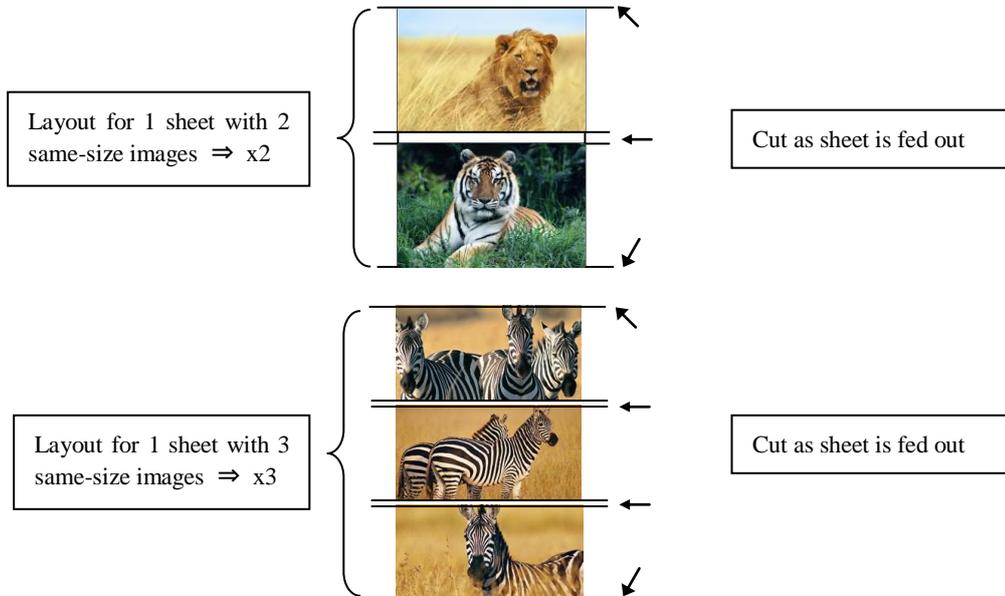
Multiple layout is possible under the following conditions.

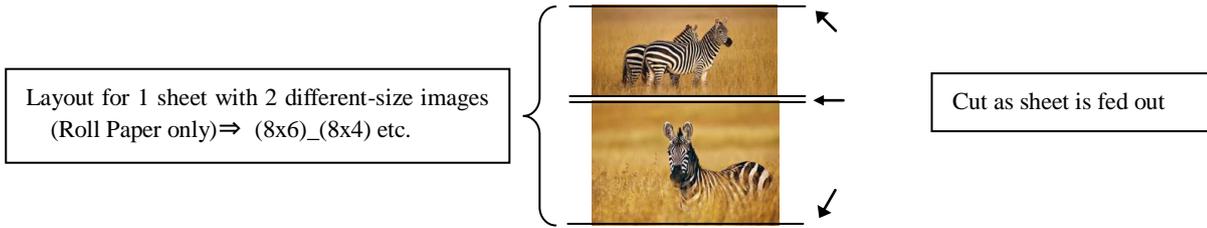
- 1.The printer driver paper size is set to one of the above sizes.
- 2.Multiple images are sent from the application.

Note) Because the multi-image layout occurs on a per job basis, this works when there are multiple images for 1 job.If you want to print the same image, be sure to send the image data for each copy to be printed.The printer prints 2 or 3 images in one operation, and the paper is cut as it is fed out.

#### <Multi-image layout patterns>

The following combinations are possible for the multi-image layout patterns.





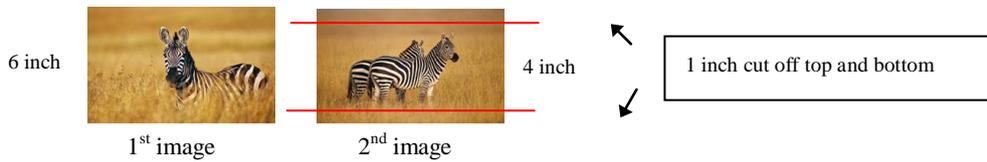
(When cut paper use, the image of 2 different- size on 1 sheet can not be assigned).

**Cautions for printing 2 different-size images on one sheet**

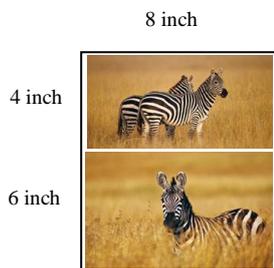
When printing 2 different-size images on 1 sheet, 1 inch will be cut off the top and bottom of the 2<sup>nd</sup> image when the image is being generated. When creating the original image, be aware of the following points.

Ex.) When the layout is set for (8x6)\_(8x4)  
The driver creates the layout image in the order of ①, ②.

① It creates two 8x6inch images  
8 inch 8 inch

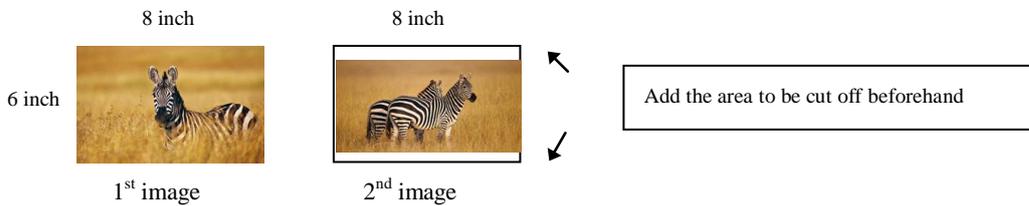


② The driver then lays out the 2 different-size images from ① as one (8x10) image and outputs it to the printer.



Ex.) Example of creating the original image.

When outputting the original image to the driver, the 1<sup>st</sup> and 2<sup>nd</sup> images are created as the same size, so factor in the space that will be cut off from the 2<sup>nd</sup> image.

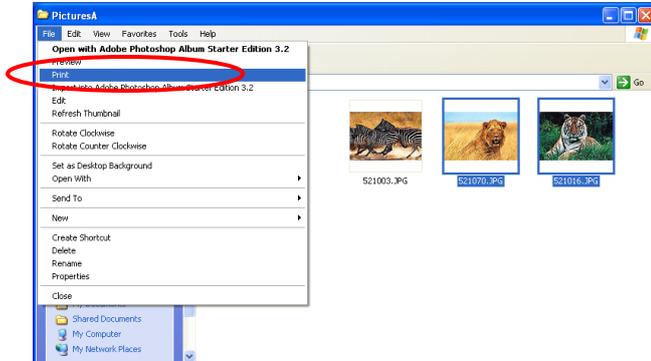


## 2.7.2 Example of Multi-layout application use

### <Example of Application Use>

This is an example using Windows Explorer.

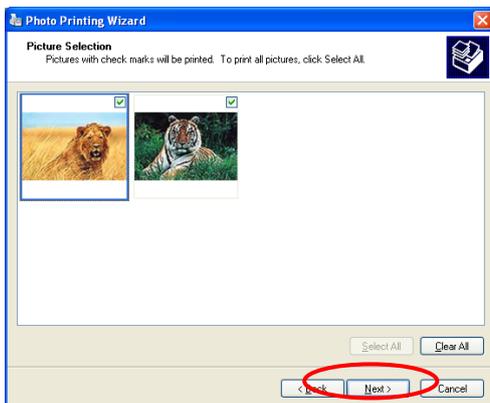
Step 1. Using File⇒Get Photo, select 2 or more images, and go to File ⇒Click on “Print”.



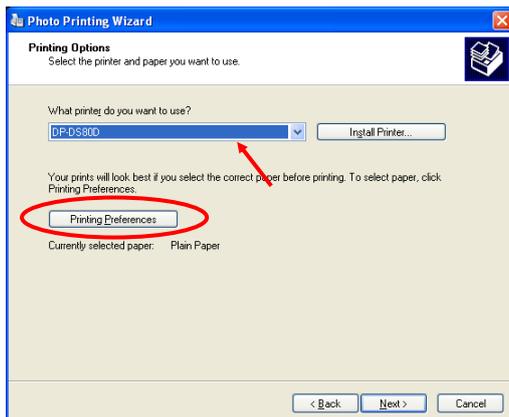
Step 2. Click on “Next”.



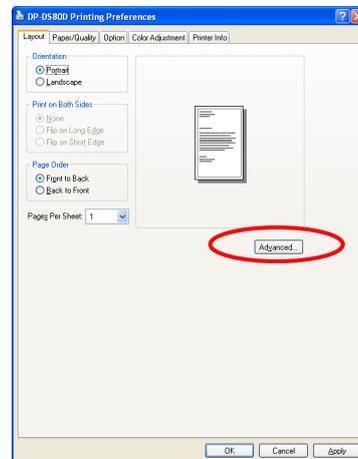
Step 3. Click on “Next”.



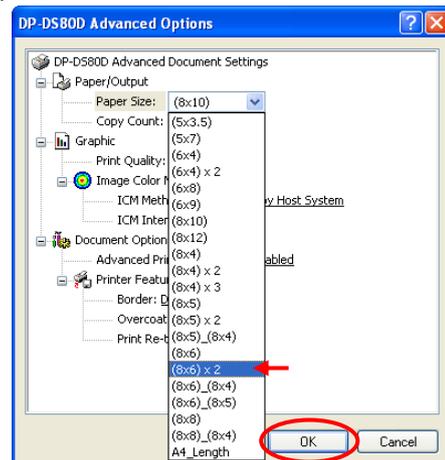
Step 4. After selecting the printer, open “Printing Preferences”.



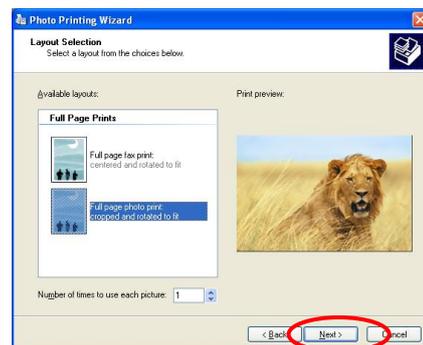
Step 5. Click on “Advanced”.



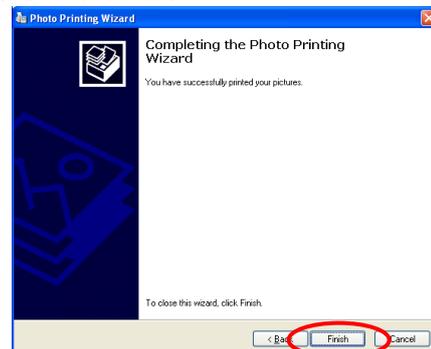
Step 6. Then click “OK” on the windows from steps 6->5, returning to the window displayed in Step 4. Then click on “Next”.



Step 7. Click on “Next”.



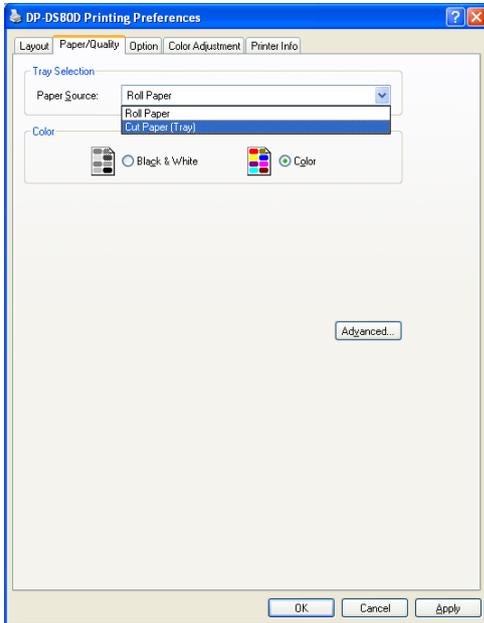
Step 8. Click on “Finish”.



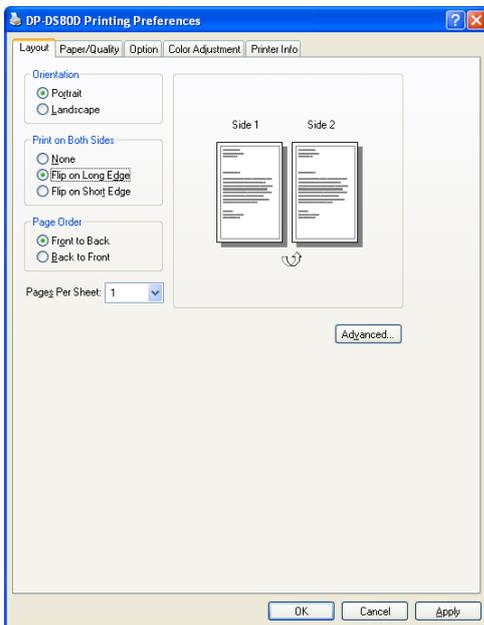
### 2.7.3 Duplex Printing

Duplex printing is possible on the DP-DS80D when cut paper is selected. Duplex printing can be performed under the following conditions.

1. Select “Cut paper (tray)” in the Paper Supply Method on the “2.2.3 Paper/Quality” tab.



2. Select “Short-edge” or “Long-edge” orientation under Duplex Printing in the “2.2.1 Layout” tab.



Because Duplex printing is run on a job basis, it only works when there are 2 (front and back) or more images in a single job.

When there are an odd number of images in 1 job, the back of the final page will be output as a white image. The print method is the same as in “2.7.2 Example of Multi-layout application use”.

Cautions for using Multi-layout in Duplex Printing

When using multi-layout in duplex printing, the images will be laid out as follows. If there is a remainder in transmitted images, the driver will insert empty data images into the layout. The printer will output the empty data as white images.

8x4x2 8x5x2 8x6x2	Even number of prints	image1	Send on 1 job	image 1	Front data lay out on 1 image
		image 2		image 3	
	Odd number of prints (remainder of 1 print)	image 3		image 2	Back data lay out on 1 image
		image 4		image 4	
	Even number of prints (remainder of 2 prints)	image 5		image 5	Front data lay out on 1 image
		image 6		blank	
	Odd number of prints (remainder of 3 prints)	image 5		image 5	Front data lay out on 1 image
		image 6		image 7	
	Even number of prints (remainder of 1 print)	image 5		blank	Back data is blank
		image 6		blank	
Odd number of prints (remainder of 2 prints)	image 5		image 6	Back data lay out on 1 image	
	image 6		blank		
Even number of prints (remainder of 3 prints)	image 5		image 5	Front data lay out on 1 image	
	image 6		image 7		
Odd number of prints (remainder of 1 print)	image 5		image 6	Back data lay out on 1 image	
	image 6		blank		

In cases as above where there is a remainder from 1 or 2 prints, if you don't want to output blank images from the printer, then you can use the application to change the multi-layout media size as shown below, and send the image data as a separate job.

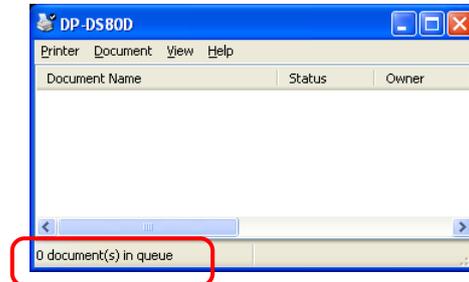
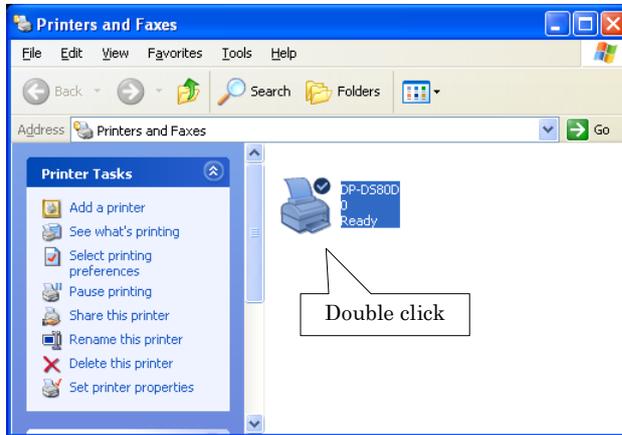
8x4x2 8x5x2 8x6x2	Even number of prints	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 1</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 2</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Send on 1 job</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 1</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 3</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Front data lay out on 1 image</div>
		<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 3</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 4</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Send on other job</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 2</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 4</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Back data lay out on 1 image</div>
Paper size change  8x4 8x5 8x6	Odd number of prints (remainder of 1 print)	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 5</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Send on other job</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 5</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">blank</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Front data lay out on 1 image</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Back data is blank</div>
	Even number of prints (remainder of 2 prints)	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 5</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 6</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Send on other job</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 5</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Image 6</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Front data lay out on 1 image</div> <div style="border: 1px solid black; padding: 5px; width: 60px; margin: 5px;">Back data lay out on 1 image</div>

## Chapter 3 Updating the Driver

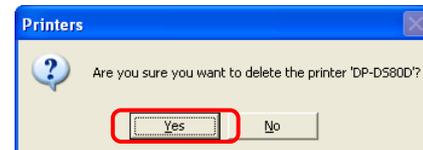
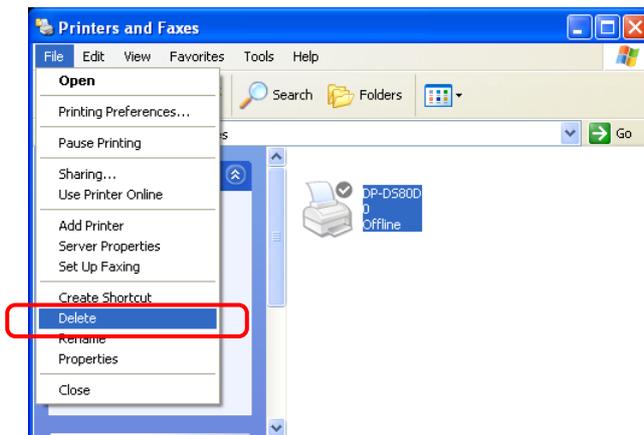
In order to update the printer-driver, follow the steps shown below.

### 1. Driver Removal

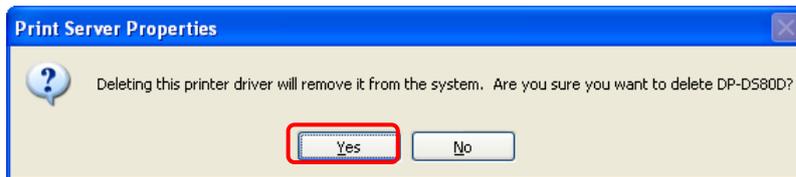
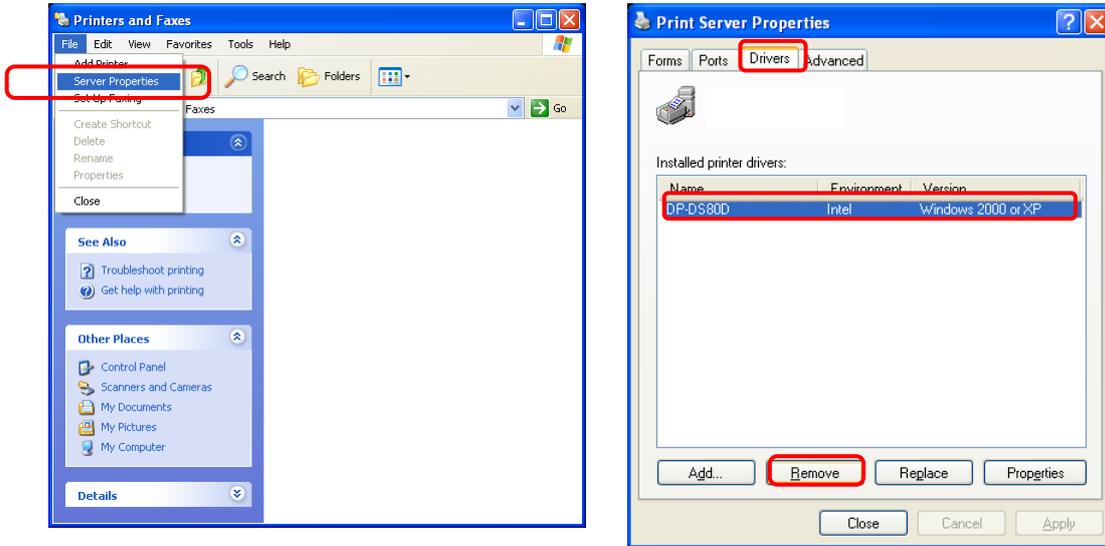
- (1) Before removing the printer-driver, shut down all other applications. Also, double click the icon for the printer to be removed, and make sure there are no documents in the queue before you begin removal of the driver.



- (2) From the [Printers and Faxes] window, select the DP-DS80D printer. Select [Delete this printer]. Are you sure you want to delete the printer "DP-DS80D"? → select "Yes" to remove the printer.



(3) After the DP-DS80D printer has been removed, in the same way select File → Server Properties  
 The Print Server Properties dialog box should appear. Select the Drivers tab. After selecting driver “DP-DS80D”, click “Remove(R)”. The confirmation box will appear. By clicking “Yes”, the driver will be removed.

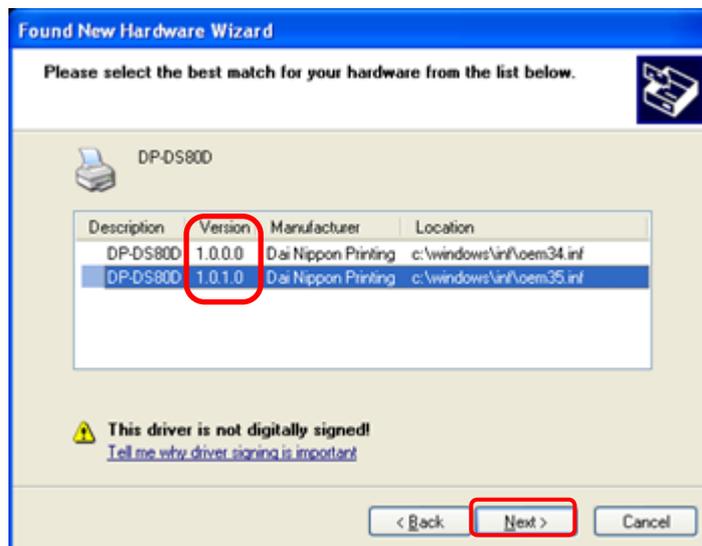


Note) Before removing the printer-driver, if the following error message appears, please reboot the computer. After the computer has been rebooted, repeat the steps to remove the printer-driver.



## 2. Installing the printer-driver upgrade

After removing the printer and printer-driver, install the new printer-driver. For installation steps, please refer to Chapter 1 “Install”. If the following window appears during installation, check the “Version” section, select the newest version, and click the “Next” button.



## 3. Rebooting the computer

After installation of the printer-driver is complete, be sure to reboot the computer.  
 ( Do not print immediately after installation. First reboot the computer. )

## Chapter 4 Driver Removal

For steps to remove the printer-driver, refer to Chapter3 “1.Driver Removal”.

**Dai Nippon Printing Co., Ltd.**