

DIGITAL PHOTO PRINTER DP-QV410 Version 1.0.1.2

Printer Driver Instruction Manual

Supported OS: Windows 7 and 10

• Safety precautions

Before you use the printer, carefully read the User Guide to ensure that you use the printer correctly. Be aware that the content complies with the standards at the time the User Guide section related to safety, including usage and safety precautions, was created.

Modifications

To ensure product safety, modification of the DP-QW410 printer and DP-QW410 printer driver is prohibited.

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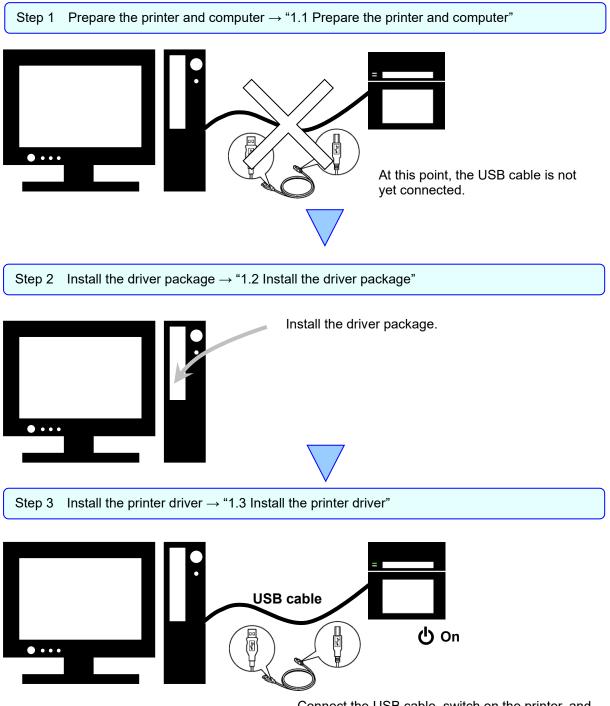
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Chapter 1 Installation

Installation procedure

The installation procedure is made up of three steps. The details of each step are explained below.



Connect the USB cable, switch on the printer, and then install the printer driver. After installation is complete, restart the computer.

1.1 Prepare the printer and computer

Make sure that the printer power is off.

Prepare a USB cable. However, do not use the USB cable to connect the printer and computer at this time.

Log in to Windows as an administrator. The following explanation presumes that the operations are carried out with administrator privileges.

CAUTION:

The display settings of the computer must be set as follows. If the settings differ from the following, the printing preferences screen and other items may not fit in the display area.

- · Resolution: At least 1280x800
- · Size of text and other items (DPI): 100%

1.2 Install the driver package

Open Windows Explorer, and then click the corresponding drive.

Select the following installation folder.

Driver package folder¥DP-QW410_Driver

🛔 🛛 🏹 🔜 🗢 🛛 DP-QW410_Driver			- 🗆	×
File Home Share View				~ (
← → × ↑ 📙 « Driver > DP-QW	410_Driver	ע ט Search DF	P-QW410_Driver	Q
Name	Date modified	Туре	Size	
Doc	3/27/2019 7:08 PM	File folder		
	4/19/2019 5:47 PM	File folder		
DriverInstall.CMD	9/14/2016 11:31 AM	Windows Comma	1 KB	
ReadMe_Install_English.txt	4/9/2019 8:17 PM	Text Document	1 KB	
ReadMe_Install_Japanese.txt	4/9/2019 8:17 PM	Text Document	1 KB	

Figure 1.2.1 Driver Package folder

In the selected folder, double click the following file: DriverInstall.CMD. (Depending on your usage environment, the .CMD extension may not be displayed.) The driver package installer appropriate for your operating system (32-bit or 64-bit) is selected automatically.

File Home Share View				\sim
+ -> -> 🛧 📙 « Driver > DP-Q	W410_Driver	マ O Search D	P-QW410_Driver	ې
Name	Date modified	Туре	Size	
Doc	3/27/2019 7:08 PM	File folder		
DriverPackage	4/19/2019 5:47 PM	File folder		
DriverInstall.CMD	9/14/2016 11:31 AM	Windows Comma	1 KB	
ReadMe_Install_English.txt	4/9/2019 8:17 PM	Text Document	1 KB	
ReadMe_Install_Japanese.txt	4/9/2019 8:17 PM	Text Document	1 KB	

Figure 1.2.2 Installation file

When you start the installer, a window appears for selecting the language that will be used during the installation. After you select the language to use, click "OK".

Dai Nip	pon Printing DP-QW410 - InstallShield Wizard	×
ځ	Select the language for the installation from the choices below.	
	English (United States)	~
	<u>O</u> K Cancel	
Fig	gure 1.2.3 Language selection screen	

Click "Next >" when the Installation Wizard screen appears.



Figure 1.2.4 Installation Wizard start screen

Click "Install" when the installation is ready.

🕞 Dai Nippon Printing DP-QW410 - Inst	tallShield Wiza	ırd	×
Ready to Install the Program			
The wizard is ready to begin installation	·		
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation	n settings, <mark>cl</mark> ick Back. C	lick Cancel to
InstallShield			
	< <u>B</u> ack	Install	Cancel

Figure 1.2.5 Installation start confirmation screen

When the installation starts, a screen appears that shows the installation status.

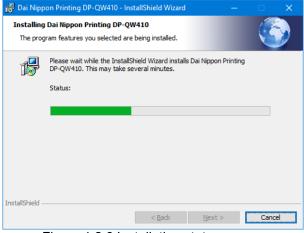


Figure 1.2.6 Installation status screen

When a User Account Control dialog box appears, click "Yes".

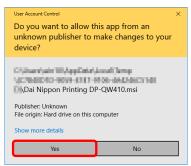


Figure 1.2.7 User Account Control

Click "Install" when the Windows Security confirmation display appears.

Windows Security X
Would you like to install this device software?
Name: DP-QW410 Publisher: Dai Nippon Printing Co., Ltd.
Always trust software from "Dai Nippon Printing Install Don't Install Co., Ltd."
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

Figure 1.2.8 Windows Security confirmation

Installation of the driver package starts. Wait until installation finishes. Click "Finish" when the Installation Wizard completion screen appears.

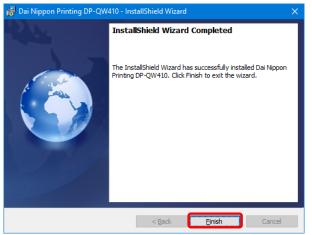


Figure 1.2.9 Finish of Installation Wizard

1.3 Install the printer driver

Use the USB cable to connect the printer and computer, and then switch on the power of the DP-QW410 printer. After the printer is recognized, installation of the driver starts. *For information on the connection, refer to the User Guide of the printer.

In Windows 7, if driver installation starts, the following message appears in the taskbar: "Installing device driver software".

In Windows 10, this message does not appear. Proceed to page 8.

	ng device for status	softv	vare 🌂	×			
			^	L	8	Þ	())

Figure 1.3.1 Driver installation message

If you click on this message, the "Driver Software Installation" screen appears and displays the installation status of the driver. If "Close" is clicked, this screen closes.

Driver Software Installation	
Installing device driver s	software
Photo Printer	Searching Windows Update
Obtaining device driver softwar Skip obtaining driver software f	re from Windows Update might take a while. rom Windows Update

Figure 1.3.2 Installing the driver software

*About the "Skip obtaining driver software from Windows Update" option

If your operating system is configured to obtain driver software from Windows Update, it may take time for installation to complete because the process searches for drivers from Windows Update first. You can reduce the time until the completion of installation by choosing to skip obtaining driver software from Windows Update. (Depending on your operating system, it may take some time until installation is complete.)

From the "Driver Software Installation" dialog box, click "Skip obtaining driver software from Windows Update".

📜 Driver Software Installation		
Installing device driver	software	
Photo Printer	🚫 Searching Windows Update	
	are from Windows Undate might take a while.	
Obtaining device driver software Skip obtaining driver software		

Figure 1.3.3 Option to skip obtaining driver software from Windows Update

A confirmation dialog box appears. Click "Yes".

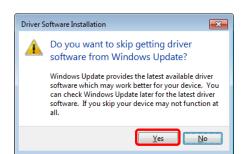


Figure 1.3.4 Confirmation to skip getting driver software from Windows Update

After the installation is complete, the message "Your device is ready to use" is displayed in a pop-up on the taskbar.



Figure 1.3.5 Installation complete message

If you click on the message, the "Driver Software Installation" dialog appears, and the "Your device is ready to use" message appears. Click "Close".

(If the "Driver Software Installation" screen is open when installation starts, the abovementioned taskbar message is not displayed.)

測 Driver Software Installation		
Your device is ready to use		
USB Printing Support DP-QW410	Ready to use Ready to use	
		Close

Figure 1.3.6 Completion of driver software installation

Click "Start", and then click "Windows System" -> "Control Panel" to open the Control Panel. In Windows 7, click "Start", and then click "Control Panel" to open the Control Panel. In Control Panel, click "View devices and printers".

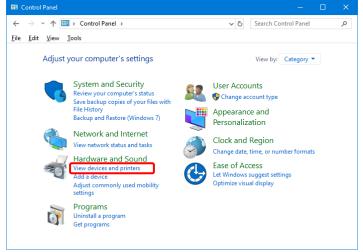


Figure 1.3.7 Control Panel

In Devices and Printers, make sure that "DP-QW410" is present.

Note: In Windows 10, when the printer is offline (the printer is not on and connected), the DP-QW410 icon is not displayed.

This completes installation of the printer driver.

To Devices and Printers			– 🗆 X
\leftarrow \rightarrow \checkmark \Uparrow ardware and	Sound > Devices and Printers	✓ ট Search Dev	ices and Printers 🛛 🔎
<u>File E</u> dit <u>V</u> iew <u>T</u> ools			
Add a device Add a printer S	See what's printing Print serve	r properties Remove of	device 📧 🔻 🕜
DP-QW410 Fax			^
			~
Category:	DP-QW410 Printer 0 document(s) in queue		

Figure 1.3.8 Devices and Printers screen

After the installation of the printer driver is complete, always restart the computer.

In Windows 7, when the DP-QW410 printer driver could not be installed correctly, the following message appears in the taskbar: "Device driver software was not successfully installed".



Figure 1.3.9 Message indicating that the driver was not installed

If you click on this message, the "Driver Software Installation" screen appears and displays the message "Device driver software was not successfully installed". Click "Close". (If the "Driver Software Installation" screen is open when installation starts, the abovementioned taskbar message is not displayed.)

When the driver could not be installed correctly, see the next section, "1.4 Install drivers for unspecified

devices", and then install the printer driver.

Driver Software Installation		×
Device driver software was not	t successfully installed	
USB Printing Support Dai Nippon Printing DP-QW410	Ready to use	
What can I do if my device did not instal	ll properly?	
		Close

Figure 1.3.10 When the driver was not installed correctly

1.4 Install drivers for unspecified devices

If you connect a printer that is on to the computer before installing the driver package, a device is created under "Unspecified" in "Devices and Printers".

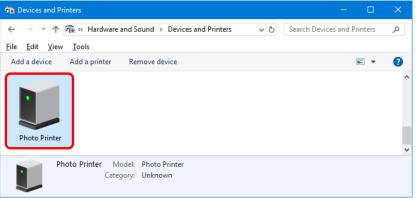


Figure 1.4.1 Photo Printer under Unspecified

In such a case, use the following method to install the printer driver.

Furthermore, use the following method to install the printer driver if you use the standard installation procedure (install the driver package, connect the printer, and then install the printer driver), but the driver is not installed correctly, and a device is created under "Unspecified".

1. Install the driver package

When the driver package has not yet been installed, install it by following the procedure in "1.2 Install the driver package".

If you install the driver package, installation of the printer driver for the unspecified device completes it automatically.

2. Installing a driver for an unspecified device

After installing the driver package, the driver installation procedure for an "Unspecified" device is different for Windows 7 and Windows 10. For Windows 10, refer to page 11.

For Windows 7, refer to page 12.

In Windows 10:

1. Right-click "Photo Printer" of the "Unspecified" device in "Devices and Printers", and click "Remove device" from the pull-down menu.

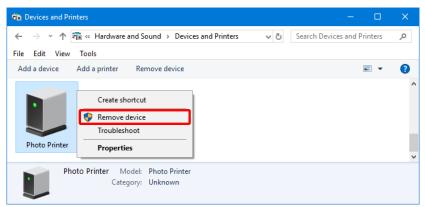


Figure 1.4.2 Delete "Photo Printer"

- 2. Disconnect the USB cable connected to the printer.
- 3. Restart your computer.
- 4. After starting up the computer, connect the USB cable again and turn on the printer.

In Devices and Printers, make sure that "DP-QW410" is present.

Note: When the printer is offline (the printer is not on and connected), the DP-QW410 icon is not displayed.

This completes installation of the printer driver.

Devices and Printers	- 🗆 X
\leftarrow \rightarrow \checkmark \Uparrow 🖓 « Hardware and Sound » Devices and	Printers → ⑦ Search Devices and Printers
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools	
Add a device Add a printer See what's printing	Print server properties Remove device 📧 👻 ?
	^
DP-QW410 Fax	
	×
DP-QW410 Model: DP-QW410	
Category: Printer	
Status: 0 document(s) in que	ue
Figure 4.4.2 Devices	and Drintora coroon

Figure 1.4.3 Devices and Printers screen

After the installation of the printer driver is complete, always restart the computer.

In Windows 7:

In "Devices and Printers", under Unspecified, right click on "Photo Printer". From the menu, click "Troubleshoot".

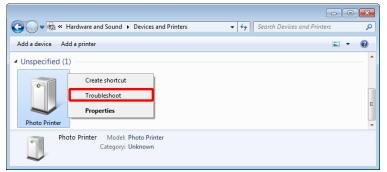


Figure 1.4.4 Photo Printer under Unspecified

The "Install a driver for this device" screen appears. Click "Apply this fix". The computer searches for a driver automatically, and then installs it.

	all a driver for this device driver for Dai Nippon Printing DP-QW410 is not installed. Install the latest driver for the
devid	ie.
	Apply this fix Skip this fix
1	SKIP UTIS TIX Continue troubleshooting without applying this fix.

Figure 1.4.5 Applying a fix

If the driver is installed, the message "Troubleshooting has completed" appears. Click "Close the troubleshooter" to close the troubleshooting window.

) 📧 Devices and Printers		
Troubleshooting has completed		
The troubleshooter made some changes to your system. Try at to do before.	tempting the task yo	u were tryin
Problems found		
Dai Nippon Printing DP-QW410 doesn't have a driver	Fixed	
Close the troubleshooter		
Explore additional options		
View detailed information		
View detailed information		Close

Figure 1.4.6 Completing troubleshooting

In Devices and Printers, make sure that "DP-QW410" is present. This completes installation of the printer driver.

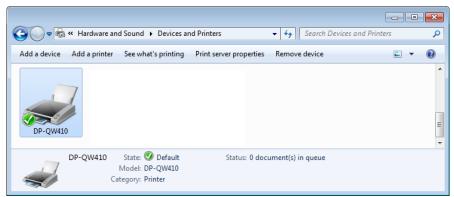


Figure 1.4.7 Devices and Printers screen

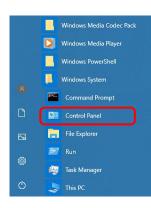
After the installation of the printer driver is complete, always restart the computer.

Chapter 2 Properties

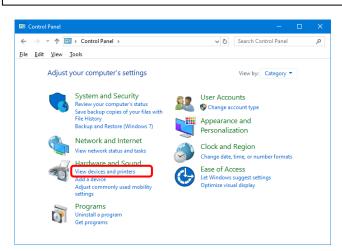
You can configure various printer settings from the Properties of the driver. Make sure you understand the contents well before changing settings. To use the properties, log in as an administrator. Depending on the application you are using, you must perform this operation from the print settings of the application.

2.1 Open the printer properties

1. Click "Start", and then "Windows System"--> "Control Panel" --> start Control Panel In Windows 7, click "Start" --> "Control Panel" --> start Control Panel



2. From the Control Panel, click "View devices and printers" to open the Devices and Printers



3. Right click "DP-QW410" icon. From the menu, click "Printer Properties" to open the Properties dialog box.

Note: In Windows 10, when the printer is offline (the printer is not on and connected), the DP-QW410 icon is not displayed.

The Devices and Prin	nters		-		×
← → ~ ↑ ₽	🐻 « Hardware and Sound > Devices a	nd Printers v さ	Search Devices and	Printers	Q
File Edit View	Tools				
Add a device	Add a printer See what's printing	Print server properties	Remove device	► ▼	?
		_			^
	See what's printing				
	Set as default printer				
	Printing preferences				
DP-QW410	Printer properties				
	Create shortcut				
	Remove device				
	Troubleshoot				
	Properties				
	Topeneo				~
DP	-QW410 Model: DP-QW410				
	Category: Printer				
	Status: 0 document(s) in qu	eue			

4. The DP-QW410 Properties screen appears.

neral	Sharing	Ports	Advanced	Color Mana		Security
	Sugar	Ford	Advanced	COIOF Maira	ilement.	Security
		DP-QW	1110			
		DP-QW	/410			
Locati	on:					
Comn	nent:					
M <u>o</u> del		DP-QW	410			
			410			
Feat	ures		410			
	ures or: Yes		410	Pape	er availa	ble:
Col		d: No	410	Pape		ble:
Cole	or: Yes	d: No	410			
Cole Dou Stap	or: Yes Ible-side		410			
Cole Dou Stap Spe	or: Yes Ible-side ole: No ed: Unkn	iown	n: 300 dpi			
Cole Dou Stap Spe	or: Yes Ible-side ole: No ed: Unkn	iown				^

2.2 Print settings functions

If you select the basic settings from the Properties screen, you can change various print settings.

2.2.1 Layout

	QW410 Printin								
Layout	Paper/Quality	Option	Color Adjus	tment	Printer Info				
<u>Orier</u>	itation:								
A	Portrait		~						
Page	Order:								
From	nt to Back		~						
Pag	e Format					_	1		
Pag	les per Sheet	1	~				_		
	Dra <u>w</u> Borders						E		
	_					=			
							_		
								Advance	d

Figure 2.2.1 Layout tab

Orientation

Set the print orientation to "Portrait" or "Landscape". For details, refer to "2.6 Orientation".

Page Order

In the application, specify the order when multiple copies of an image are printed.

Example) Print order

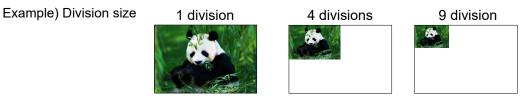
 No.1
 No.2
 No.3

 Front to Back
 Image: Second s

Page Format

Pages per Sheet

Set printing of the specified division size. In most situations, set "1".

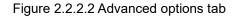


2.2.2 Advanced options

If you select "Advanced..." on the Layout tab, you can configure various advanced options.

🖶 DP-QW410 Printing Preferences X	DP-QW410 Advanced Options
Larout Paper/Oually Option Oxfor Adustment Printer Into Qrientation: Page Option: Front to Back Page format Page Sheet 1 Drag Bonders Adyanced	DP-QW410 Advanced Document Settings Paper Stee Copy Count <u>Copy</u> Graphic Copy Count <u>Copy</u> Commer Continues CM Method: <u>CM Handled by Host System</u> CM Intent: <u>Fictures</u> Document Options Advanced Printing Features: <u>Enabled</u> Pages per Sheet Layout <u>Right then Down</u> Sprinter Features Border: <u>Disable</u> Overcoat Finish: <u>Glossy</u> Printe R-try: <u>Enables</u> Zinch cut: <u>Disable</u> Decurling action: <u>Auto</u>
OK Dancel Annhr	

Figure 2.2.2.1 Advanced settings



Paper/Output

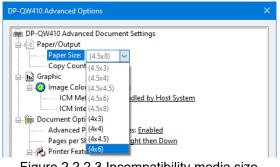
Paper Size

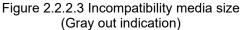
Specify the paper size. The paper size that can be specified depends on the media size that is loaded in the printer. If the printer is offline, the loaded media size is assumed to be 4x6.

Loaded media size	Specifiable paper size	Multiple layout
4×6	4x3	Enable
4x6 _(*1)	4x4, 4x4.5, [4x6]	Disable
4.5×6	4x3, 4.5x3	Enable
4.5x6(*1) (*2)	4x4, 4x4.5, 4x6, 4.5x4, 4.5x4.5, [4.5x6]	Disable
4 5 2 9	4x3, 4.5x3, 4.5x4	Enable
4.5x8(*2)	4x4, 4x4.5, 4x6, 4.5x4.5, 4.5x6, [4.5x8]	Disable

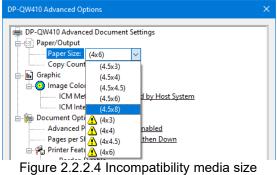
The paper size in square brackets [] is the default paper size for the loaded media.

*1: Paper sizes that cannot be used for printing are grayed out.





*2: For paper sizes that can create margins on the sides of the output results, a warning appears.



(Warning indication)

Copy Count

You can specify the number of copies to be published for images.

Graphic

ICM Method

ICM Method	Function
ICM Disabled	Synchronized with "Color Adjustment Disabled" in the 2.2.4
	Option.
ICM Handled by Host System	Synchronized with "Color Adjustment ICM" in the 2.2.4
	Option.
	Manage colors using the driver.
ICM Handled by Printer	When this item has been selected, operation is the same as
	"ICM Handled by Host System".

ICM Intent

Set the rendering method when using ICM. For the ICC profile, always set to "Pictures". Do not use other settings.

Document Options

Advanced Printing Features

Always set "Enabled". Do not use other settings.

Pages per Sheet Layout

Set the layout direction of an image when the Pages per Sheet setting is set for multiple divisions.

Printer Features

Border

Synchronized with Border in the Option.

Overcoat Finish

Set the overcoat finish method for the surface of printed items from the following two types.

Overcoat Finish	Function
Glossy	Create an item with a glossy finish.
Matte	Create an item with a matte finish.

Print Re-try Specify whether to print data in the printer buffer after a printer error has been cleared.		
Print Re-try	Function	
Disable	Clear the print data in the printer buffer when a printer error occurs. You must send the cleared print data again after the error is cleared. When you use an application with an error recovery function, select this option.	
Enable	Save print data in the printer buffer when an error occurs. The printing process is restarted from the saved data after the error is cleared. Note that if the power is switched off, the data is not saved.	

Depending on the printer error, print data in the print buffer will be cleared, regardless of the Print Re-try setting.

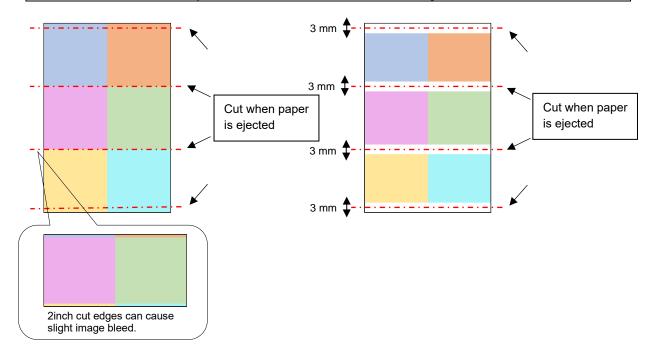
The following section shows the operation for each Print Re-try setting by error.

Error content	When Print Re-try is disabled	When Print Re-try is enabled
Paper end	You must send the unprinted	The printing process is restarted
Ribbon end	image data again after the error	from the data saved in the printer
	is cleared.	buffer after the error is cleared. When the paper initialization
Top Door open		operation is to be carried out,
No trash box		printing occurs afterwards.
Paper jam	To prevent the occurrence of an er	ror, printing will not be restarted,
Ribbon error	regardless of the Print Re-try funct After the printer stops due to an er	
Paper size setting error	printer to eliminate the cause of the You must send the unprinted image cleared.	e paper or ribbon error. e data again after the error is
System error		ned on and off to clear the error, the
·Data error	print data in the printer buffer is cle setting.	eared regardless of the Print Re-try
·Head voltage error		
·Head position error	After the printer has restarted, you data again.	must send the unprinted image
·Cutter error		
·Head temperature error		
·Media temperature error		
·RFID module error		
·USB power supply voltage error		

2inch cut

Specify whether to cut paper into multiple sheets with a 2-inch length when you use a specified paper size.

2inch cut	Function
Disable	Cut at the normal size.
Enable	Cut at 2-inch lengths so that the 4x4 size becomes two sheets,
	the 4x6, 4.5x6 size becomes three sheets and the 4.5x8 size becomes four sheets.
	In the case of 2inch cut, due to mechanical limitations, its edges can cause slight image bleed.
	It can be prevented by making the space between the images a single
	color of about 3 mm as shown in the figure.



High quality mode

Enables or disables high quality mode.

	High quality mode	Function		
	Disable	Prints with normal quality.		
	Enable	Prints with high quality.(*1)		
*	* 1. Printing time takes longer then printing with normal quality			

1: Printing time takes longer than printing with normal quality.

Decurling action

Set the decurling action.

Decurling action	Function	
Disable	Does not execute the decurling action.	
Enable	The decurling action is performed.	
Auto	The printer automatically controls the decurling action depending o	
	the media status.	

Be careful as paper may get caught under the lower part of the front surface of the printer when the decurling action is disable.

< Multiple layout >

You can enable multiple layout settings by setting the paper size of the printer driver. If it sends multiple images from the application, the printer driver allocate them automatically as the multiple layout.

The following section shows the image sizes.

Lav	/out	settings
La	Juai	30tung3

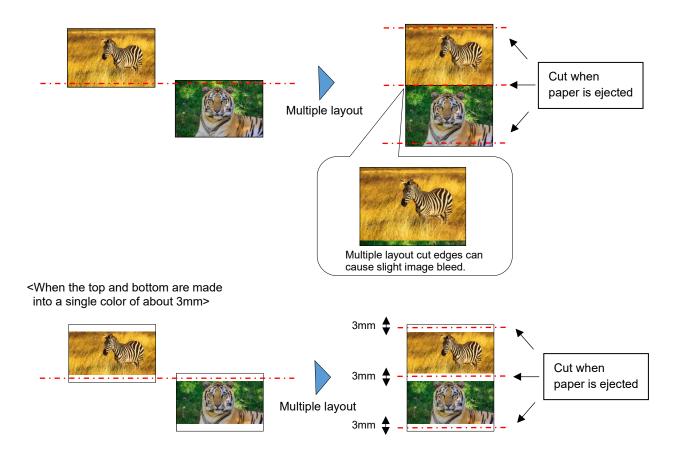
Driver paper size setting	Paper direction	Paper size length x height (mm)	Media used
(4x3)	Portrait	(107.2 x 79.3)	4x6, 4.5x6, 4.5x8
(4x3)	Landscape	(79.3 x 107.2)	
(4.5x2)	Portrait	(119.3 x 79.3)	4.5x6, 4.5x8
(4.5x3)	Landscape	(79.3 x 119.3)	
(4.5×4)	Portrait	(119.3 x 104.7)	4.5x8
(4.5x4)	Landscape	(104.7 x 119.3)	

Note) Because they are carried out by the print job, multiple layout are carried out when there are multiple images in a single job.

If you want to layout the same image, send the same number of images as the numberof-sheets setting.

The printer handles two pictures at one time and cuts the paper after it is ejected. In the case of Multiple layout,due to mechanical limitations, its edges can cause slight image bleed.

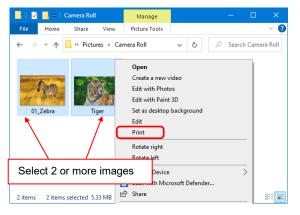
It can be prevented by making the space between the images a single color of about 3 mm as shown in the figure, or by printing with borders.



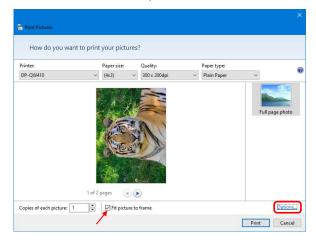
< Application usage example >

This usage example uses Windows Explorer.

Step 1. In Windows Explorer, select two or more pictures. Next, click "Print".



Step 2. Select "Fit picture to frame" check box, and then click "Options...".



Step 3. Click "Printer Properties...".

Print Settings	×
☑ Sharpen for printing	
Only show options that are compatible with my printer Certain combinations of paper type, paper size, and print quality ma not print well or be available with all printers. Limiting your options only those that are compatible will give you the best results.	
Color Management Printer Properties	
<u>O</u> K <u>C</u> ancel	

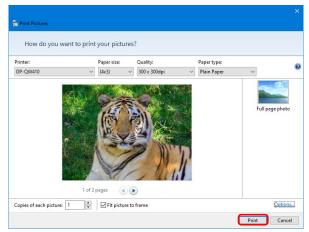
Step 4. Set the Orientation to "Portrait", and click "Advanced...".

Orientation:		~)		
Page O <u>r</u> der:				
Front to Back		~		1
Page Format Pages per Sheet	1	~	_	
Draw Borders		~		
			=	
				Advanced.

Step 5. Set the paper size to the setting of the multiple layout. Click "OK" twice to close the dialog boxes in Step 5 and 4 and return to the display in Step 2.

Paper/Output		_	
Paper Size:		~	
Copy Count			
	(4.5x4)		
🖃 🧿 Image Color			
ICM Met		idled by Host System	
ICM Inte			
Document Opti Advanced P		and the second second	
Pages per Si		es: <u>Enabled</u> ght then Down	
Pages per Sr		gnt then Down	
Border: [
Overcoa			
Print Re-		<u>155¥</u>	
2inch cu			
High qu		Disable	
Decurlin			
becanin	9		

Step 6. Click the "Print" button.



[DP-QW410 Printer Driver] Instruction Manual (For Windows 7 and 10)

2.2.3 Paper/Quality

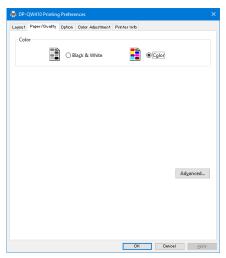


Figure 2.2.3 Paper/Quality tab

Color

Set Color. Do not use black and white.

2.2.4 Option

ayout Paper/Quality	Option Color Adjustment Printer Info		Layout Paper/Quality Option Color Adjustment Printer Info	
agot Papr/duaty Sharpness(E) : Color Adjustment ○ None(E) ④ (CM() Language(L) : About(B)	O (Default) O (Default) O (Default) O (Handled by Driver(2) O (CM & Driver(2) English V		Legol Page/David Office Cale Adjustment Preterins Border Sharpness(H): Office (Blur) Offerein) Offerein) Offerein) Offerein) Sharpness(H): Offerein) Offere	
	Defaul OK Dancel	ht@) Asply	OK C	Default(D)

Figure 2.2.4.1 Option tab



Border

Specify a border for printing. (Select the check box for a border.) Synchronized with Border Enable/Disable in the Advanced settings.

Sharpness

Process sharpness using one of the 11 stages (Figure 2.2.4.2). If the setting is "0 (Default)", sharpness is not processed. Moving to the minus (-) side blurs the image and moving to the plus (+) side sharpens the image.

Color Adjustment

None

Synchronized with the ICM Method in the Advanced settings. If this check box is selected, ICM is disabled, the Color adjustment tab is also disabled, and the printer driver does not carry out color adjustment.

Handled by Driver

If this check box is selected, ICM is disabled, and the 2.2.5 Color Adjustment is enabled. The result is applied to the adjustment values of the following items: Gamma, Brightness, Contrast, and Chroma.

ICM

Synchronized with the ICM Method of the Advanced settings (ICM Handled by Host System). If this check box is selected, the driver manages colors.

ICM & Driver

If this check box is selected, ICM (color management) and the 2.2.5 Color Adjustment are enabled.

Language

Change the display language for the following items: "Option", "Color Adjustment", and "Printer Info". The selected language is enabled the next time the print settings are displayed.

[Available languages]

- · Japanese
- · English (US)
- · French (France)
- · German (Germany)
- · Russian (Russia)
- · Spanish (Spain)
- · Korean
- · Chinese (People's Republic of China)
- · Chinese (Taiwan)
- When your operating system environment corresponds with one of the above settings, the default display language is the language of the corresponding country. Furthermore, when your operating system environment does not correspond with one of the above settings, the default display language is English.
- To use a language different from that of your operating system, you must install the following font for the corresponding language.

Language	Font
Japanese	Meiryo / Yu Gothic UI <windows10></windows10>
English (US)	Segoe UI
French (France)	Segoe UI
German (Germany)	Segoe UI
Russian (Russia)	Segoe UI
Spanish (Spain)	Segoe UI
Korean	Malgun Gothic
Chinese (People's Republic of China)	Microsoft YaHei
Chinese (Taiwan)	Microsoft JhengHei

About

Show the driver version.

2.2.5 Color Adjustment

If the Handled by Driver check box is selected in the 2.2.4 Option, the adjustment values of the Color Adjustment tab are applied to the image.

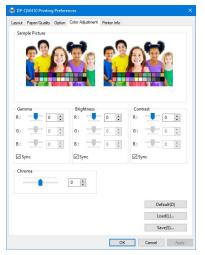


Figure 2.2.5 Color Adjustment tab

The following section shows the setting ranges on the Color Adjustment tab.

Adjustment item	Adjustment value
Gamma	 -100 (dark) to 100 (bright) ("0" results in no adjustment, γ2.0 to 0.5) Adjust the density of the half-tone section of the image. Increasing the gamma value brightens the half-tone section. Sync check box ON: Set RGB to same value. OFF: Set RGB to different value.
Brightness	-100 (dark) to 100 (bright) ("0" results in no adjustment) Adjust the brightness of the image. Increasing the brightness value brightens the entire image. Sync check box ON: Set RGB to same value. OFF: Set RGB to different value.
Contrast	 -100 (weak) to 100 (strong) ("0" results in no adjustment) Adjust the contrast of the image. Increasing the contrast value increases the difference of brightness and darkness. Sync check box ON: Set RGB to same value. OFF: Set RGB to different value.
Chroma	-100 (weak) to 100 (strong) ("0" results in no adjustment) Adjust the chroma of the image.

2.2.6 Printer information

View the printer information.

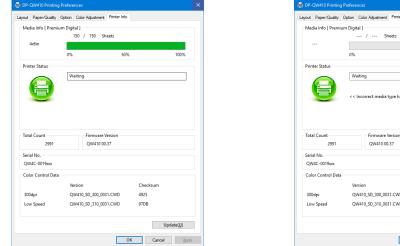


Figure 2.2.6.1 Printer Information tab

yout Paper/Quality	Option Color Adjustment	Printer Info		
Media Info [Premiu	um Digital]			
	/ S	heets		
	0%	50%		100%
Printer Status				
	Waiting			
	<< Incorrect media	type has been lo	aded. >>	
Total Count	Firmware	Version		
2991	QW410 0	0.37		
Serial No.				
QW4C-0019xxx				
QW4C-0019xxx	Version		Checksum	
QW4C-0019xxx	Version QW410_SD_300_00	131.CWD	Checksum 4925	
QW4C-0019xxx				
QW4C-0019xx Color Control Data 300dpi	QW410_SD_300_00		4925	
QW4C-0019xxx Color Control Data 300dpi	QW410_SD_300_00		4925	Update(U)
QW4C-0019xxx Color Control Data 300dpi	QW410_SD_300_00		4925	Update(<u>U</u>)

Figure 2.2.6.2 Display when incorrect media is loaded

The following section	shows the information displayed in the Printer Info tab.
Display item	Display details
Media Info	This area shows for example the class the size and the remains

Display item		Display details						
Media Info			ne class, the size, and the remaining number					
			n media in the printer.					
	* Media inform	* Media information is not displayed when a media type not supported by the						
	printer has be	en loaded. (Figu	re 2.2.6.2)					
Printer Status	Displays the s	tatus of the printer	using icons and characters.					
	Display icon (Color)	Display characters	Status/Response					
		Waiting	Printing is possible.					
	(Green)							
		Printing	The printer is printing.					
	(Blue)							
		Top door open	Top door is open. Close the top door.					
	(Yellow)							
	(Yellow)	Ribbon end	No ribbon remains. Load new media. (Replace the paper and ribbon as a set.)					
	(Yellow)	Paper end	No paper remains. Load new media. (Replace the paper and ribbon as a set.)					

Display item	Display details	6	
Printer Status			
	Display icon (Color)	Display characters	Status/Response
		Offline	The printer cannot be recognized. Connect the printer and computer, and then turn on the power.
	(Gray)	Cooling head	The head is being cooled. Please wait a while. Printing will resume automatically.
	(Purple)	Ribbon error	The ribbon is not set correctly. Reload the ribbon properly.
	(Orange)	Paper size setting error	The printer settings and size of the installed ribbon do not match. Check the paper size setting and ribbon size
	(Orange)	Paper jam	A paper jam was detected. Remove the paper and reload it properly.
	(Orange)	No trash box	The trash box is being detached. Attach the trash box.
		System error	System error. Restart the printer and computer. If the printer does not recover after the restart, contact the service center.
	(Red) * A warning m printer has be	essage is display en loaded.(Figur	yed when a media type not supported by th e 2.2.6.2)
Total Count	Total count of	printed sheets.	
Firmware Version		control program	of the printer. xx.xx indicates the version
Serial No.	Serial number	of the printer.	

2.3 Default values for settings

The following section shows the default values of the settings (at installation). If the settings have been changed, and the printer driver no longer operates normally, return to the default values shown below.

Note) Depending on the service pack of your operating system or your usage environment, the default values at installation may differ from those in the chart below.

Tab		Setting		Value
	Orientation	Orientation Por		Portrait
Layout	Page Order	Page Order		
	Pages Per Shee	t		1
Paper/Quality	Color			Color
	Border			Disable
Option	Sharpness		0 (Default)	
Option	Color Adjustmen			ICM
	Language setting			English
	Gamma			0
Color	Brightness			0
Adjustment	Contrast			0
	Chroma			0 Depends on printer
	Paper/Output		Paper Size	
		Copy Count		1 Copy
	Graphic	Image Color	ICM Method	ICM Handled by Host System
Advanced		Management	ICM Intent	Pictures
settings		Advanced Printin	g Features	Enabled
(In the Layout		Pages per Sheet	Layout	Right then Down
tab, click			Border	Disable
"Advanced")	Document		Overcoat Finish	Glossy
	options	Printer function	Print Re-try	Enable
		Finiter function	2inch cut	Disable
			High quality mode	Disable
			Decurling Action	Auto

Chart 2.3 Default print settings

*1: For the initial values of paper sizes, see "2.2.2 Advanced options".

2.4 Color management

Use Color management to specify the color profile. The installer associates "SD_QW410-xxxx.icc" and "PD_QW410-xxxx.icc" by default.

This printer driver automatically changes the printer color profile in accordance with the media that is loaded in the printer.

To use an ICC profile other than the default profile, overwrite the ICC profile that has been registered as the default.

For the ICC profile to overwrite, prefix "SD_" to the profile name for Digital media and prefix "PD_" to the profile name for Premium Digital media.

Example: Overwritten profile name

- For Digital : SD_xxxxxxx.icc
- For Premium Digital : PD_xxxxxxx.icc

Step 1. From the Printer Properties, select the Color Management tab, and then click "Color Management...".

p op-c	W410 Pr	openies				×
Seneral	Sharing	Ports	Advanced	Color Management	Security	
5	To edju	st color	management	settings, aliak Color I	Vanagement.	
<u>-</u>		Col	or Manazema	ent		
				OK	Cancel	Apply

Devic	All Profiles	Printer: DP-QW410			
Devic		Use my settings fo	r this device		Identify monito
Profil	e selection:	Automatic (Recomm	rended)		
Pro <u>f</u> il	es associate	d with this device:			
Nan	ne			File name	
	C Profiles —				
	QW410_			SD_QW410_	
	QW410			PD_QW410_	icc
		dvanced Color)		1	
	QW410_		/		licc
PD_	QW410_			V410_	licc
				/	
Т	he ii	nstaller as	sociated this	tile	
					Default Profile

Step 2. From Device, select DP-QW410.

Figure 2.4.1 Color Management Tab

Figure 2.4.2 Color Management Window

Close

2.5 Print Area

The following section shows the image sizes and numbers of dots generated by the paper size setting of the driver.

Paper size	Print		ge size x height)	Number of image dots (width x height)
	direction	(inch)	(mm)	300x300dpi
(4,2)	Portrait	4"x 3"	107.2 x 79.3	1266 x 936
(4x3)	Landscape	3"x 4"	79.3 x 107.2	936 x 1266
(4×4)	Portrait	4"x 4"	107.2 x 104.7	1266 x 1236
(4x4)	Landscape	4"x 4"	104.7 x 107.2	1236 x 1266
$(A \times A \in \mathbf{E})$	Portrait	4"x 4.5"	107.2 x 117.4	1266 x 1386
(4x4.5)	Landscape	4.5"x 4"	117.4 x 107.2	1386 x 1266
(4×6)	Portrait	4"x 6"	107.2 x 155.5	1266 x 1836
(4x6)	Landscape	6"x 4"	155.5 x 107.2	1836 x 1266
$(A = 5x^2)$	Portrait	4.5"x 3"	119.3 x 79.3	1408 x 936
(4.5x3)	Landscape	3"x 4.5"	79.3 x 119.3	936 x 1408
$(A \in \mathcal{N}A)$	Portrait	4.5"x 4"	119.3 x 104.7	1408 x 1236
(4.5x4)	Landscape	4"x 4.5"	104.7 x 119.3	1236 x 1408
$(A \in XA \in XA)$	Portrait	4.5"x 4.5"	119.3 x 117.4	1408 x 1386
(4.5x4.5)	Landscape	4.5"x 4.5"	117.4 x 119.3	1386 x 1408
(4.5×6)	Portrait	4.5"x 6"	119.3 x 155.5	1408 x 1836
(4.5x6)	Landscape	6 "x 4.5"	155.5 x 119.3	1836 x 1408
(4.5×9)	Portrait	4.5" x 8"	119.3 x 206.3	1408 x 2436
(4.5x8)	Landscape	8" x 4.5"	206.3 x 119.3	2436 x 1408

2.6 Orientation

The following chart shows the relationship of images generated by an application and printed items (output direction) according to the orientation setting. Generated images are not the original image rotated by the application but are zoomed to fit within the sizes is shown in "2.5 Print Area".

			Driver setting		
			Paper s	setting	
Original image	Orientation	(4x3), (4.5x3), (4.5x4)		(4x4), (4x4.5), (4x6), (4.5x4.5), (4.5x6), (4.5x8)	
		Generated	Printed item	Generated	Printed item
		image (Output orientation ↓)		image	(Output orientation \downarrow)
	Portrait				
	Landscape				
	Portrait				
	Landscape				

Chapter 3 Update the driver

As when performing the installation, log in as an administrator before carrying out this operation.

1. Check the job

- 1) Before updating the printer driver, close all applications. Furthermore, click on the icon of the printer to be updated in the Devices and Printers screen. At the bottom area of the screen, confirm that there are no documents in the queue, and then start update of the driver.
 - Note: In Windows 10, when the printer is offline (the printer is not on and connected), the DP-QW410 icon is not displayed. Always connect the printer with the power turned on and check that there are no documents in the queue.

Devices and P	rinters			-		×
\leftrightarrow \rightarrow \checkmark \uparrow	💼 « Hardware a	nd Sound > Devices an	d Printers 🗸 🗸	Search Devices and	l Printers	P
<u>F</u> ile <u>E</u> dit <u>V</u> iew	/ <u>T</u> ools					
Add a device	Add a printer	See what's printing	Print server properties	Remove device	-	?
DP-QW410	Fax	•				^
						Ŷ
S	Categor	el: DP-QW410 y: Printer s: <mark>0 document(s) in qu</mark>	eue			

Figure 3.1 Clicking the DP-QW410 icon at the Devices and Printers screen

2. Uninstall the driver package

1)Click "Start", and then click "Windows System" -> "Control Panel". In the Control Panel, click "Uninstall a program".

In Windows 7, click "Start", and then click "Control Panel". In the Control Panel, click "Uninstall a program".

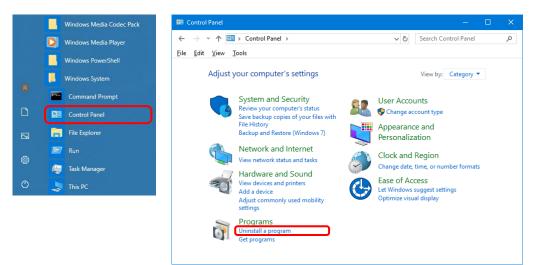
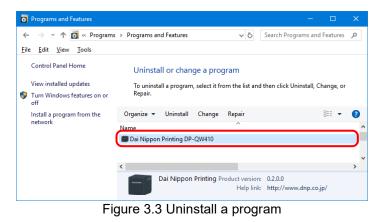


Figure 3.2 Control Panel

2) The "Uninstall or change a program" screen appears. In the list, double click "Dai Nippon PrintingDP-QW410".



3) Click "Yes" when the Dai Nippon Printing DP-QW410 uninstall confirmation windows appears. Uninstalling the driver is complete. After uninstalling the printer package, restart the computer.



When a User Account Control dialog box appears, click "Yes".

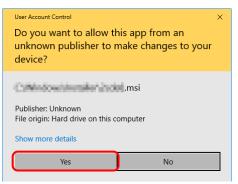


Figure 3.5 User Account Control

3. Install an upgrade for the printer driver

After deleting the printer and the printer driver, install the new printer driver. For the installation procedure, see "Chapter 1 Installation".

4. Restart the computer

After the installation of the printer driver is complete, always restart the computer. (Do not print just after installation. Always restart the computer once.)

Chapter 4 Delete the driver

4.1 Automatic deletion of printer drivers

The printer driver is automatically deleted when uninstalling the driver package. For the steps to uninstall the driver package, see "2. Uninstall the driver package" in Chapter 3.

Note that uninstalling the driver package when the printer driver is in use will display the following message, and the printer driver will not be deleted.

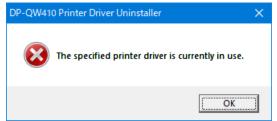


Figure 4.1 Message displayed when the driver is in use

When the above message is displayed, restart the computer and then delete the printer driver using the procedure described in "4.2 Manual deletion of printer drivers".

4.2 Manual deletion of printer drivers

1)Click "Start", and then click "Windows System" -> "Control Panel". In the Control Panel, click "View devices and printers".

In Windows 7, Click "Start", and then click "Control Panel". In the Control Panel, click "View devices and printers".

From the "Devices and Printers" screen, right click the DP-QW410 printer. From the menu, click "Remove device".

To Devices and Printers	- 0	×
\leftarrow \rightarrow \checkmark \uparrow 🖓 Hardware and Sound \Rightarrow Devices and Printers \checkmark \circlearrowright	Search Devices and Printers	Q
File Edit View Tools		
Add a device Add a printer See what's printing Print server properties	Remove device 🛛 📧 🔻	?
See what's printing Set as default printer Printing preferences Printer properties Create shortcut Remove device Troubleshoot		^
Properties		~
DP-QW410 Model: DP-QW410 Category: Printer Status: 0 document(s) in queue		

Figure 4.2.1 Right clicking DP-QW410 in the Devices and Printers screen

In Windows 10, when the printer is offline (the printer is not on and connected), the DP-QW410 icon is not displayed. In such cases, use the following procedure to delete the device.

(i) On an empty area in the Devices and Printers screen, right click, and then select "Device Manager".

	View	\rightarrow
	Sort by	>
	Group by	>
	Refresh	
	Paste	
	Paste shortcut	
	Add devices and printers	
•	Device Manager	

Figure 4.2.2.i Right clicking on an empty area in the Devices and Printers screen

(ii) Click "View", and then select "Show hidden devices".

🐣 Device Manager		
File Action	View	Help
(= =) 📰	• 0	evices by type
✓ ♣ C18S073	C	evices by connection
> 🥪 Batte	0	evices by container
> 🚷 Blue	R	lesources by type
> 💻 Com	R	esources by connection
> 🔐 DVD		how hidden devices
> 990 Fey	× 3	now moden devices
Men	C	lustomize

Figure 4.2.2.ii Displaying the View menu for hidden devices

(iii) Under "Printers", right click "DP-QW410", and then select "Uninstall device".

📕 Device Manager		
File Action View Help		
♦ ⇒ □ □ □ □ □ □ ↓ ×		
 Printers DP-OW410 		
> Security device	Update driver	
> 🔚 Sensors	Uninstall device	
 Sound, video a Storage contro 	Scan for hardware changes	
> 💼 Storage volum	Properties	
Svetem devicer		

Figure 4.2.2.iii Displaying the menu to delete DP-QW410

(iv) At the "Uninstall Device" screen, click "Uninstall".

Uninstall Device	×			
S DP-QW410				
Warning: You are about to uninstall this device from your system.				
Delete the driver software for this device				
Uninstall Cancel				

Figure 4.2.2.iv Uninstall Device screen

2) The printer deletion confirmation dialog box appears. Click "Yes".

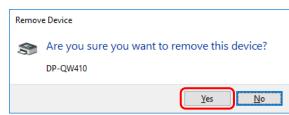


Figure 4.2.3 Printer deletion confirmation dialog box

3) After deleting the DP-QW410 printer, select another printer (for example, Fax), and then click "Print Server Properties" in the menu bar.

The Devices and Pri	inters			—		×
$\leftarrow \ \rightarrow \ \star \ \uparrow$	💼 « Hardware	and Sound → Devices a	nd Printers 🗸 🖑	Search Devices and	l Printers	Q
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Tools					
Add a device	Add a printer	See what's printing	Print server properties	Remove device	► ▼	?
Fax						^
						~
see Fa	Category: Fax	rosoft Shared Fax Driver ocument(s) in queue				

Figure 4.2.4 Displaying the Print Server Properties menu in the Devices and Printers screen

4) The "Print Server Properties" dialog box appears. Click the "Drivers" tab. From the installed printer driver list, select "DP-QW410", and then click "Remove...".

🖶 Print Server Prope	rties	:	×
Forms Ports Driver	rs Security Advanced		
Installed printer driv			
Name	Processor	Туре	
DP-QW410	x64	Type 3 - User Mode	
		_	
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties	
	ОК	Cancel Apply	

Figure 4.2.5 Printer Server Properties dialog box

5) The Remove Driver and Package dialog box appears. Select "Remove driver only", and then click "OK".

Remove Driver And Package			
Do you want to remove the driver(s) only, or remove the driver(s) and driver package(s) from your system?			
<u>Remove driver only.</u>			
O Remove driver and driver package.			
OK Cancel			

Figure 4.2.6 Remove Driver And Package dialog box

6) The Print Server Properties confirmation dialog box appears. Click "Yes".

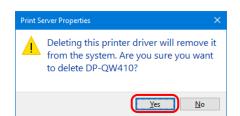
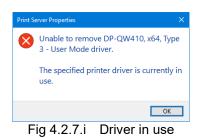


Figure 4.2.7 Driver deletion confirmation dialog box

If the following message appears, the operating system may be using the driver (Print Spooler service) in the background. Disconnect the USB cable and then restart your computer and try deleting the printer driver again.



7) In the Print Server Properties dialog box, confirm that DP-QW410 was deleted, and then click "Close".

🚔 Print Server Properti	es	×
Forms Ports Drivers	Security Advanced	
1130772		
Installed printer driver		
Name	Processor Type	^
		~
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties
	Close	Output to be to be
	Close	Cancel <u>Apply</u>

Figure 4.2.8 Print Server Properties

Dai Nippon Printing Co., Ltd.