

# DIGITAL PHOTO PRINTER DS-RX1HS DS-RX1

# **Printer Driver Instruction Manual**

For Windows 7, 8, and 10

#### •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 DS-RX1 printers or the contents of the DS-RX1 printer drivers and the CD.

#### Copyright

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Microsoft and Windows are registered trademarks of Microsoft Corporation valid in the USA and other countries. LEADTOOLS Copyright (C) 2008 LEAD Technologies, Inc. The ICC profile is prepared by the technology of X-Rite.

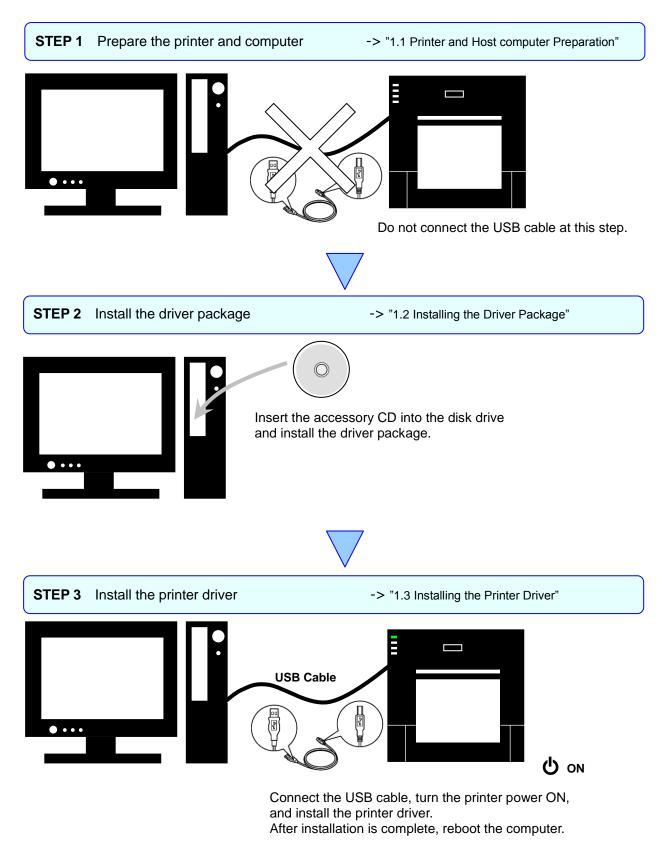
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# Chapter 1 Install

#### **Installation Flow**

Installation is done in the following 3 steps. Details of each step are shown in a subsequent page.



1

# 1.1 Printer and Host computer Preparation

Check that the power for the DS-RX1 printer is OFF.

Have a USB cable ready. But do not connect the printer to the computer with the USB cable at this point.

In order to install the driver, login with administrator right. The following explanations are given on the assumption of use with administrator rights.

#### 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 Installing the Driver Package

Insert the accessory CD into the disk drive.

Start Explorer, and click on the corresponding drive.

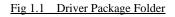
(If the AutoPlay function is on, select "Open folder to view files - using Windows Explorer".)

(In Windows 8 and 10 if the AutoPlay function is on, click on the message of "Tap to choose what happens with this disc.", then select "Open folder to view files File Explorer".)

Select the following folders from the accessory CD. \*Be sure to select the folder that matches your environment.

Windows 7 ... Drive of CD:\DS-RX1\_Driver\English\7 Windows 8 ... Drive of CD:\DS-RX1\_Driver\English\8 Windows 10 ... Drive of CD:\DS-RX1\_Driver\English\10

	•	👻 🐓 Sear	rch 7 🔎
Organize 🔻 Burn to disc Erase this disc			:= - 1 🔞
4 💿 DVD RW Drive (D:) DS-RX1_Driver	*	Name	Date modified
<ul> <li>DS-RX1_Driver</li> <li>English</li> </ul>		<ul> <li>Files Currently on the Disc (3)</li> </ul>	
Þ 🍌 7		퉬 DriverPackage	2016/06/15 11:16
Þ 🍌 8		OriverInstall.CMD	2014/10/09 8:03
Þ 퉲 10	_	📳 ReadMe_Install.txt	2014/10/09 8:03
Þ 🌗 Vista			
D 🍌 XP	Ξ		
🛛 鷆 Japanese			
Þ 퉲 7			
⊳ 퉲 8			
▷ 🍌 10			
🛛 🔟 Vista			
D 🍌 XP	Ŧ	<	4
3 items			



In the selected folder, double click on the file "DriverInstall.CMD". (Depending on your operating environment, the .CMD extension may not be shown.)

The best Driver Package Installer for your operating system (32 or 64 bit) will automatically be selected.

C C C C C C C C C C C C C C C C C C C			rch 7 🔎
Organize 🔻 Burn to disc Erase this disc			1 🕂 🖬 🔞
DVD RW Drive (D:) DS-RX1_Driver	*	Name	Date modified
DS-RX1_Driver Briglish		Files Currently on the Disc (3)	
1 7		🌗 DriverPackage	2016/06/15 11:16
3		Contraction DriverInstall.CMD	2014/10/09 8:03
10		PreadMe_Install.txt	2014/10/09 8:03
🔰 Vista			
🔉 XP	Ξ		
🌗 Japanese			
<b>1</b> 7			
3			
10			
🐌 Vista			
\mu XP	-	•	4
		2014/10/09 8:03 Date created: 2014/10 526 bytes	)/09 8:03

Fig 1.2 Install File

If the User Account Control dialog appears, click on "Yes".

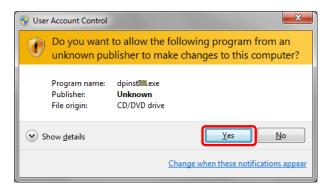


Fig 1.3 User Account Control

When the "Welcome to the Device Driver Installation Wizard!" window appears, click on "Next>".



Fig 1.4 Starting of Installation Wizard

If the Windows Security confirmation window appears, click on "Install".

+- Windows Security	<b>X</b>
Would you like to install this device software?	
Name: DS-RX1 Publisher: Dai Nippon Printing Co., Ltd.	
Always trust software from "Dai Nippon Printing Co., Ltd.",	all Don't Install
You should only install driver software from publishers you trust. <u>How device software is safe to install?</u>	can I decide which

Fig 1.5 Windows Security confirmation

This starts the Driver Package installation. Please wait until it is complete. When the "Completing the Device Driver Installation Wizard" window appears, click on "Finish".



Fig 1.6 Completion of the Installation Wizard

## **1.3** Installing the Printer Driver

Connect the printer to the computer with the USB cable, and turn the printer power ON.

- The printer will be recognized, and the driver installation should begin.
- \* Please refer to the manual for the DS-RX1 printer for connection if needed.

When driver installation begins, the message "Installing device driver software" will appear above the task bar. The message will not appear in Windows 8 and 10. Please turn to page 7.



Fig 1.7 Driver Installation message

By clicking on this message, the "Driver Software Installation" window will be opened, and the driver installation status will be shown. Click on "Close" to close the window.

Driver Software Installation	<b>×</b>
Installing device driver software	
USB Printing Support Dai Nippon Printing DS-RX1	Ready to use Searching Windows Update
Obtaining device driver software from Wir Skip obtaining driver software from Winde	1 2
	Close

Fig 1.8 Driver Software Installation

\* About "Skip obtaining driver software from Windows Update"

If the operating system setting is such that it will get the driver software from Windows Update, it will first search for the driver through Windows Update, so it will take more time to complete the installation. If you skip getting the driver software through Windows Update, the time to complete the installation will be decreased (Depending on the environment, it may take some time to complete the installation).

Click on "Skip obtaining driver software from Windows Update" in the "Driver Software Installation" window.

Driver Software Installation		×
Installing device driver software		
USB Printing Support Dai Nippon Printing DS-RX1	Ready to use Searching Windows Update	
Obtaining device driver software from Windo Skip obtaining driver software from Window		
		Close

Fig 1.9 Skip obtaining driver software from Window Update

When the confirmation window appears, click on "Yes".



Fig 1.10 Skip getting the driver software from Windows Update

From a beginning of installation after a while, the message "Your device is ready to use" will appear above the task bar, and the printer driver installation will be complete.

Yc De	our device is ready to us vice driver software installed su	e 🄌 🗙 ccessfully.	)
		,	No 🔁 🌗
Fig 1.11	Driver Installation Comp	ete messas	ge

By clicking on this message, the "Driver Software Installation" window will be opened, and "Your device is ready to use" will be shown. Click on "Close" to close the window.

(If the "Driver Software Installation" window is shown from the start of installation, the message above will not be shown.)

Driver Software Installation		<b></b>
Your device is ready to use		
USB Printing Support DS-RX1	Ready to use Ready to use	
		Close

Fig 1.12 Driver Software installation complete

Select "Start", then "Control Panel", and open the control panel. In Windows 8, right click the Start screen, select right-under the "All apps" and select the control panel. In Windows 10, right click the Start. and then click "Control Panel" to open the Control Panel. Click on "View devices and printers" in the control panel.

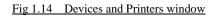
Control Panel	,		- 4 Search Control Panel	<u>م</u>
Adjust	your computer's settings		View by: Category 🔻	
	System and Security Review your computer's status Back up your computer Find and fix problems Network and Internet View network status and tasks Choose homegroup and sharing options Hardware and Sound View devices and printers Add a device Programs Uninstall a program	&& >>> &>>> &>>>	User Accounts and Family Safety Add or remove user accounts Set up parental controls for any user Appearance and Personalization Change the theme Change desktop background Adjust screen resolution Clock, Language, and Region Change keyboards or other input methods Change display language Ease of Access Let Windows suggest settings Optimize visual display	

Fig 1.13 Control Panel

Check that the DS-RX1 is shown in the Devices and Printers window.

Note: In Windows 8 and 10, DS-RX1 icon does not appear if the printer is offline (if the printer with the power on is not connected). Now, installation of the DS-RX1 printer driver is complete.

Search Devices and Printers	rs	٩
Add a device Add a printer See what's printing Print server properties Remove device		• 🕡
<ul> <li>Devices (3)</li> <li>Printers and Faxes (3)</li> <li>Fax</li> <li>Microsoft XPS Document Writer</li> </ul>		
DS-RX1 State: O Default Status: 0 document(s) in queue Model: DS-RX1 Category: Printer		



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

If the DS-RX1 printer driver installation was unsuccessful, the message "Device driver software was not successfully installed" will appear above the task bar.



Fig 1.15 Driver Not Installed message

By clicking on this message, the "Driver Software Installation" window will be opened, and the message "Device driver software was not successfully installed" will appear. Click on the "Close" button.

(If the "Driver Software Installation" window is shown from the start of installation, the message above will not be shown.) If the driver insallation was unsuccessful, refer to the next section "1.4 Installing a Driver for an Unspecified Device" and install the printer driver.

Driver Software Installation	
Device driver software was no	ot successfully installed
Please consult with your device manu	facturer for assistance getting this device installed.
USB Printing Support Dai Nippon Printing DS-RX1	Ready to use
What can I do if my device did not inst	all properly?

Fig 1.16 If the Driver is not installed successfully

# 1.4 Installing a Driver for an Unspecified Device

Before installing the driver package, connect the printer (with power ON) to the computer, to create an "Unspecified" device in the "Devices and Printers" window. Using this method, the printer driver can be installed as follows. Also, when a driver is not installed correctly but the "Unspecified" device is created by the method of connecting a printer after installing the driver package of usual printer driver installation procedure, you can install the driver using the following method.

#### **1. Installing the Driver Package**

If the driver package has not been installed yet, follow the procedure shown in "1.2 Installing the Driver Package". When the driver package has been installed, installation of the printer driver for the Unspecified device may be completed automatically.

#### 2. Installing a driver for an Unspecified device

In the "Unspecified" device of the "Devices and Printers" window, do the right click of the "Photo Printer", and click on the "Troubleshoot" from pull-down menu.

			x
Control Panel + Hardware and Sound + Devices and Printers - 47	Search Devices	and Printers	٩
Add a device Add a printer		<b>•</b>	?
> Devices (3)			
Printers and Faxes (2)			
Microsoft XPS Document Writer			
Unspecified (1)  Create shortcut  Troubleshoot  Photo Printer  Properties			
Photo Printer Model: Photo Printer Category: Unknown			

#### Fig 1.17 Photo Printer as an unspecified device

When the "Install a driver for this device" window appears, click on "Apply this fix". It will automatically search for the driver and installation is started.

Devices and Printers	x
Install a driver for this device The driver for Dai Nippon Printing DS-RX1 is not installed. Install the latest driver for the device	
<ul> <li>Apply this fix</li> <li>Skip this fix Continue troubleshooting without applying this fix.</li> </ul>	
Canc	el

Fig 1.18 Applying the Fix

When the driver has been installed, "Troubleshooting has completed" will appear. Click on "Close the troubleshooter" to end the troubleshooting.

		×
OP Devices and Printers		
Troubleshooting has completed		
The troubleshooter made some changes to your system. Try at to do before.	ttempting the task you	were trying
Problems found		
Dai Nippon Printing DS-RX1 doesn't have a driver	Fixed	Image: A start of the start
<ul> <li>Close the troubleshooter</li> </ul>		
Explore additional options		
View detailed information		
		Close

Fig 1.19 Completion of Troubleshooting

#### Check that the DS-RX1 is displayed in the "Devices and Printers" window. Note: In Windows 8 and 10, DS-RX1 icon does not appear if the printer is offline (if the printer with the power on is not connected). Now, the DS-RX1 Printer Driver installation is complete.

Search Devices and Printers
Add a device Add a printer See what's printing Print server properties Remove device 🗈 🔻 🔞
> Devices (3)
Printers and Faxes (3)
Fax       Microsoft XPS         Document Writer
DS-RX1 State: O Default Status: 0 document(s) in queue Model: DS-RX1 Category: Printer

Fig 1.20 Devices and Printers

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 DS-RX1 Driver properties. Before operation, be sure to have a good understanding of the contents. Login by administrator authority is required for operation. Depending on application of the use, operation from print setting of the application is necessary.

# 2.1 **Opening Printer Properties**

Click Start => Control Panel => open the control panel
 In Windows 8, Right click on the Start screen => All apps => Control Panel => open the control panel
 In Windows 10, right click the Start, and then click "Control Panel" to open the Control Panel.

	octang otarica .	
8	Windows Media Center	Documents
8	Calculator	Pictures
	Sticky Notes	Music
	Snipping Tool	Games
	Notepad •	Computer
		Control Panel
-00	Remote Desktop Connection	Devices and Printers
	Magnifier	Default Programs
0:1-	Command Prompt	Help and Support
•	All Programs	Theip and Support
Sea	rch programs and files 👂	Shut down 🕨

2. In the control panel, select View devices and printers => open the Devices and Printers window

Control Panel >			✓ 4 Search Control Panel	
Control Panel P			Search Control Parter	~
Adjust yo	our computer's settings		View by: Category 🔻	
<ul> <li>€</li> </ul>	System and Security Review your computer's status Back up your computer Find and fix problems Network and Internet View network status and tasks Choose homegroup and sharing options Hardware and Sound View devices and printers Add a device Programs Uninstall a program	\$8. \$\$ \$\$ \$\$	User Accounts and Family Safety Add or remove user accounts Set up parental controls for any user Appearance and Personalization Change the theme Change desktop background Adjust screen resolution Clock, Language, and Region Change keyboards or other input methods Change display language Ease of Access Let Windows suggest settings Optimize visual display	

 Right click on the DS-RX1 icon, and from the pull-down menu select Printer properties => open the Properties window Note: In Windows 8 and 10, DS-RX1 icon does not appear if the printer is offline (if the printer with the power on is not connected).

OO - 🗟 « Hardware and Sound > Devices and Printers	<ul> <li>✓ </li> <li></li></ul>
Add a device       Add a printer       See what's printing       P         Devices (3)       Printers and Faxes (3)       Image: Comparison of the printer of t	rint server properties Remove device
DS-RX1 State: O Default Sta Model: DS-RX1 Category: Printer	Troubleshoot Remove device Properties atus: 0 document(s) in queue

4. The DS-RX1 Properties window will appear.

ds-RX1	L Propert	ties						<b>_</b> x	3
General	Sharing	Ports	Advanced	Colo	or Management	Security	Device	Settings	L
	[	DS-RX1							
Locatio	on:								
Comm	ent:								
M <u>o</u> del:		DS-RX1							
	ires or: Yes				Paper availabl	e:			
	ble-sideo	l: No			(6x4)			*	
	le: No :d: Unkno	own							
			: 600 dpi					-	
			Pr	<u>e</u> fere	nces	Print	<u>T</u> est Pag	ge	
					ОК	Cancel		<u>A</u> pply	

# 2.2 Explanation of Print Setting Functions

From the Properties window, by selecting Preferences you can make various print settings.

#### 2.2.1 Layout

DS-RX1 Printing Prefe Layout Paper/Quality Orientation:		
Page Order:		
Front to Back	-	
Page Format Pages per Sheet Draw Borders	1	
		Advanced



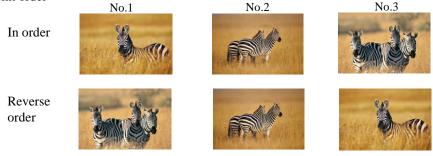
#### Orientation

Assign print orientation as Landscape or Portrait. Refer to <u>2.6 Print direction</u>.

#### 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. Normally you should specify a value of 1. (If you want to specify other than 1, please use the Print Quality settings to 300x300dpi or 600x600dpi)

Ex.) Fractional size

#### 1 (Whole)



4 (Quarter-size)



9 (One-ninth size)



#### 2.2.2 Advanced Options

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

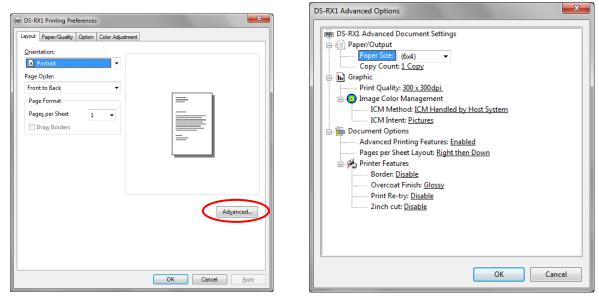


Fig 2.2.2.1 Advanced Settings

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

#### **Copy Count**

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

#### **Print Quality**

You can designate the print quality.

Print Quality	Function		
300 x 300dpi	Printing in the high-speed mode		
300 x 600dpi	Printing in the high-quality mode		
	* If the application can not set an asymmetric aspect resolution, please set the 600x600dpi.		
	*When you execute the "Print Test Page" in printer properties in Windows 8 and 10, depending on the specifications		
	of the OS, is printed the aspect ratio of the printer mark is different.		
600 x 600dpi	Printing in the high-quality mode		
	(Printer driver converts to 300x600dpi data, and sends it to the printer.)		

#### **ICM Method**

ICM Method	Function	
ICM Disabled	2.2.4 Synchronous with "Color Management: None" in paper option.	
ICM Handled by Host System	2.2.4 Synchronous with "Color Management: ICM" in paper option.	
	Performs color management with the driver.	
ICM Handled by Printer	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 DS-RX1 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.

#### Pages per Sheet Layout

The layout direction of a picture is specified, when Pages per Sheet setting is multiple pages per sheet.

#### 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
Glossy	This finishes the print with a glossy surface.
Matte	This finishes the print with a matte (non-glossy) surface.

#### **Print Re-try**

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
Disable	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.
Enable	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.

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.

Contents of an error	Print Re-try setup is "Disable"	Print Re-try setup is "Enable"
Paper End		Printing processing is resumed from data
Ribbon End		currently held in a printer buffer after
Cover Open	Please resend picture data not printed	error recovery.
Paper Jam (*1)	after error recovery.	When paper initialization operation is
Ribbon Error (*1)		performed, it is printed after paper
Paper Definition Error		initialization operation.
Data Error		
Head Position Error	For error recovery, the power supply of a	For error recovery, the power supply of a
Power Supply Fan Stop	printer once needs to be turned OFF.	printer once needs to be turned OFF.
Cutter Error	Therefore, print data in a printer buffer is	Therefore, print data in a printer buffer is
Head Voltage Error	cleared by power-supply OFF of a	cleared by printer power-supply OFF
Abnormal Head Temp.	printer regardless of a setup of the Print Re-try function.	even if the Print Re-try function is set to "Enable".
Abnormal Media Temp.	Ke-try function.	Enable .
Ribbon Tension Error	Please resend picture data not printed	Please resend picture data not printed
RFID Module Error	after printer re-starting.	after printer re-starting.
System Error	and printer to starting.	atter printer to starting.

\*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.

**2inch cut** (Depending on the version of printer firmware being used, "Disable" may be the only option.) In the case of the specific paper size, it sets up whether it cuts into two or more sheets by the length of 2 inches.

2inch cut	Function
Disable	It cuts in usual size.
Enable	By the length of 2 inches, in the case of (6x4) and PR(4x6) size, it cuts to two sheets,
	and, in the case of (6x8) size, it cuts to four sheets.

#### <Multiple layout>

When the DS-RX1 is using 6x8 size media, 2 image layout is possible.

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

Layout	desig	nation
Luyout	acong	nation

Driver paper setting	Paper	Image size width x height	Using media
(layout)	Orientation	(mm)	
(6x4) x 2	Portrait	(156.1x105.0) x 2	6x8
	Landscape	(105.0x156.1) x 2	
PR(4x6) x 2	Portrait	(105.0x156.1) x 2	6x8
	Landscape	(156.1x105.0) x 2	
Image layout median size		2.54	

Multiple layout is possible under the following conditions.

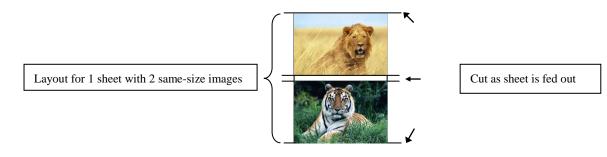
- 1. The printer is using 6x8 size media.
- 2. The printer driver paper size is set to one of the above sizes.

3.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 images in one operation, and the paper is cut as it is fed out.

#### <Multi-image layout patterns>

The following is possible for the multi-image layout pattern.



#### <Example of Application Use>

This is an example using Windows Explorer

Step 1. Select 2 or more images=>Click "Print".

())- <b>                                   </b>	mage		- 47	Search image			×
Organize 🔻 [	Preview	Share with 🔻 Slide s	how Print	New folder			0
Favorites E Desktop Downloads Recent Place Libraries Documents Music Pictures Videos	25 E	52103.JPG           JPG image           4.7.0 MB           PEG image           7.05 MB           S2103.JPG           JPEG image           7.05 MB           JPEG image           2.79 MB	Sel	ect 2 or mo	ore imaş	ges	
2 i	items selec	ted Date taken: Specify date Tags: Add a tag	taken	Rating: ☆☆	* * *		

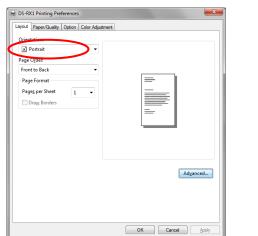
Step 2. Check "Fit picture to frame" and click "Options".

Printeg	Pa	iper size:	Quality:		Paper type:		
DS-RX1		ix4)	▼ 300 x 300dpi	•	Plain Paper	-	(
	2 of 2 pag					Full pag	photo

Step 3. Click on "Printer Properties".

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

Step 4. From the "Orientation" pull-down menu, select "Portrait".



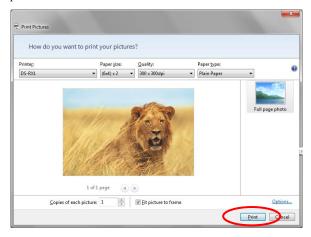
Step 5. Click on "Advanced".

A Portrait	•	
Page O <u>r</u> der: Front to Back		
Pront to Back Page Format	•	
Pages per Sheet	1 •	
Draw Borders		
		=-
		Ad <u>v</u> anced

Step 6. Set the Paper Size to "(6x4)x2". Then click "OK" on the windows from steps 6=>5, returning to the window displayed in Step 2.

DS-RX1 Advanced Options
DS-RXI Advanced Document Settings Paper Size (6x4) x 2 - Copy Count <u>1 Copy</u> Graphic Print Quality: <u>300 x 300dpi</u> Graphic Print Quality: <u>300 x 300dpi</u> Graphic Print Quality: <u>300 x 300dpi</u> ICM Method: <u>ICM Handled by Host System</u> ICM Intent <u>Pictures</u> Document Options Advanced Printing Features: <u>Enabled</u> Pages per Sheet Layout: <u>Right then Down</u> Printe Features Border: <u>Disable</u> Overcoat Finish: <u>Glossy</u> Print Re-try: <u>Disable</u> Zinch cut: <u>Disable</u>
OK Cancel

Step 7. Click on "Print".



#### 2.2.3 Paper/Quality

DS-RX1 Printing Preferences	×
Layout Paper/Quality Option Color Adjustment	
Color	
Black & White	• Cglor
	Ad <u>v</u> anced
	OK Cancel Apply

Fig 2.2.3 Paper/Quality tab

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

#### Option 2.2.4

Layout Paper/Quality Option Color Adjustment	Layout Paper/Guality Option Color Adjustment
Border	Border
Sharpness(H): 0 (Default) -	Sharpness( <u>H</u> ): 0 (Default) -
Color Adjustment	Color Adjustm -2 (Blur More) -1 (Blur)
None (N) Handled by Driver (J) O ICM (J)	Color Adjuster - [ (Bur - [ (Bur) - [ (Sut) - [ (Sut) - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
ICM & Driver (M)	○ ICM & Dri +2 +4 (Normal)
	+5 +6
About (B)	About (B) +7 +8 (Hard)
OK Cancel Apply	OK Can

Fig 2.2.4.1 Paper option tab

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 <u>2.2.4 Option</u>, the respective color adjustment values in the Color Adjustment tab are reflected in the image.

Sample Picture	ion Color Adjustment	4
Gamma	Brightness	Contrast
R 🕂 0 💌	R 🗍 🕞	R 0 🚖
G	G 🗍 🕞	G 🕕 🛛 🔹
в — () — () — 🐳	в —— ) —   (т. 🐳	в — () — (о — 👾
	Sync	Sync
Sync		
V Sync		Default( <u>D</u> )
📝 Sync	0	Default( <u>D</u> ) Load( <u>L</u> )

Fig 2.2.5 Color Adjustment tab

Setting ranges in the Color Adjustment tab are as follows:

Adjustment Item	Adjustment Value
Gamma	$-100(dark) \sim 100(light)$ (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
Brightness	<ul> <li>-100(dark) ~ 100(light) (0 means no adjustment)</li> <li>Adjusts the brightness of the image. The larger the value, the greater the overall brightness of the image.</li> <li>Synchronous check box</li> <li>ON :Sets RGB at the same value</li> <li>OFF:Sets RGB at a different value</li> </ul>
Contrast	<ul> <li>-100(weak) ~ 100(strong) (0 means no adjustment)</li> <li>Adjusts the contrast of the image. The larger the value, the greater the contrast.</li> <li>Synchronous check box</li> <li>ON : Sets RGB at the same value</li> <li>OFF: Sets RGB at a different value</li> </ul>
Chroma	-100(weak) ~ 100(strong) (0 means no adjustment) Adjusts the color saturation of the image.

# 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	
	Orientation			Portrait	
Layout	Page Order			Front to Back	
	Pages Per Sheet	t		1	
Paper/Quality	Color			Color	
	Border			Disable	
Option	Sharpness			0 (Default)	
	Color Adjustme	nt		ICM	
	Gamma			0	
Color	Brightness			0	
Adjustment	Contrast			0	
	Chroma	0			
	Domon/Outmut	Paper Size		(6 x 4)	
	Paper/Output	Copy Count	1		
	Graphic	Print Quality	300 x 300dpi		
		Image Color Management	ICM Method	ICM Handled by Host System	
Advanced			ICM Intent	Pictures	
(Click [Advanced]		Advanced Printing Fe	eatures	Enable	
button of Layout tab)		Pages per Sheet Layout		Right then Down	
	Document		Border	Disable	
	Option		Overcoat Finsh	Glossy	
		Printer Features	Print Re-try	Disable	
			2inch cut	Disable	

Chart 2.3 Print Setting Default Values

### 2.4 Color Management

In [Color Management], this designates the color profile. Default at installation associates [RX1\_xxxx.icc]. xxxx indicates the version.

Step 1. Select "Color Management" tab in "Printer Properties", and click on "Color Management" button.

Ę	DS-RX1	L Properties					×
l	General	Sharing Ports	Advanced	Color Management	Security	Device Se	ttings
	5	To adjust color	management	settings, click Color M	anagemeni	t.	
	<b>U</b> 5	Cole	or Managemer	nt			
				ОК	Cancel		ply

#### Step 2. Choose printer: DS-RX1 from a device.

All Profiles   Au	vanced		
Device: 🥌	Printer: DS-RX1		
	Use my settings for this device		Identify monitors
Profile selection:	Automatic (Recommended)		
Profiles associated wi	ith this device:		
Name		File name	
ICC Profiles RX1		RX1	icc
The inst	aller associated this file		
Add	Remove		Set as Default Profile
	Remove		Set as Default Profile
	Remove		<u>S</u> et as Default Profile Pr <u>o</u> files

Fig 2.4 Color Management

# 2.5 Print Area

Paper	Paper	Image size (w	idth × height)	Image pi	xel amount (width	x height)
	Orientation	(inch)	(mm)	300 x 300 DPI	300 x 600 DPI	600x600 DPI
(5x3.5)	Portrait	5"x 3.5"	131.1 x 92.1	1548 x 1088	1548 x 2176	3096 x 2176
	Landscape	3.5"x 5"	92.1 x 131.1	1088 x 1548	2176 x 1548	2176 x 3096
(5x5)	Portrait	5"x 5"	131.1 x 130.4	1548 x 1540	1548 x 3080	3096 x 3080
	Landscape	5"x 5"	130.4 x 131.1	1540 x 1548	3080 x 1548	3080 x 3096
(6x4)	Portrait	6"x 4"	156.1 x 105.0	1844 x 1240	1844 x 2480	3688 x 2480
(6x4) x 2	Landscape	4"x 6"	105.0 x 156.1	1240 x 1844	2480 x 1844	2480 x 3688
(5x7)	Portrait	5"x 7"	131.1 x 181.0	1548 x 2138	1548 x 4276	3096 x 4276
	Landscape	7"x 5"	181.0 x 131.1	2138 x 1548	4276 x 1548	4276 x 3096
(6x6)	Portrait	6"x 6"	156.1 x 155.4	1844 x 1836	1844 x 3672	3688 x 3672
	Landscape	6"x 6"	155.4 x 156.1	1836 x 1844	3672 x 1844	3672 x 3688
(6x8)	Portrait	6"x 8"	156.1 x 206.2	1844 x 2436	1844 x 4872	3688 x 4872
	Landscape	8"x 6"	206.2 x 156.1	2436 x 1844	4872 x 1844	4872 x 3688
PR (3.5x5)	Portrait	3.5"x 5"	92.1 x 131.1	1088 x 1548	2176 x 1548	2176 x 3096
	Landscape	5"x 3.5"	131.1 x 92.1	1548 x 1088	1548 x 2176	3096 x 2176
PR (4x6)	Portrait	4"x 6"	105.0 x 156.1	1240 x 1844	2480 x 1844	2480 x 3688
PR (4x6) x 2	Landscape	6"x 4"	156.1 x 105.0	1844 x 1240	1844 x 2480	3688 x 2480

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

# 2.6 Print Direction

Regarding the print direction setting, the relationship between the application-generated image and the print (feed direction) is as shown in the following chart. The generated image is the image generated through enlargement/reduction to fit the size shown in 2.5 Print Area, without having the application rotate the original image.

Original	Driver setting						
Image	Orientation	Paper setting				-	
	setting	(5x3.5)		PR (3.5x5)		(5x7)	
		(5x5)		PR (4x6)		(6x8)	
		(6x4)		PR (4x6) x2			
		(6x4)x2					
		(6x6)					
		Generation	Output image	Generation	Output image	Generation	Output image
		image	$(\text{direction }\downarrow)$	image	$(\text{direction }\downarrow)$	image	$(\text{direction }\downarrow)$
	Portrait	<b>S</b>					
	Landscape	R		R	R	R	
	Portrait				A BUCK		
	Landscape						

# 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, in the "Devices and Printers" window, select the printer icon of the printer you want to remove, check the bottom of the window that there are no documents in queue, and start removal of the driver.

Note: In Windows 8 and 10, DS-RX1 icon does not appear if the printer is offline (if the printer with the power on is not connected).

If you can not connect to the printer with the power on, remove the device in the procedure on the next page.

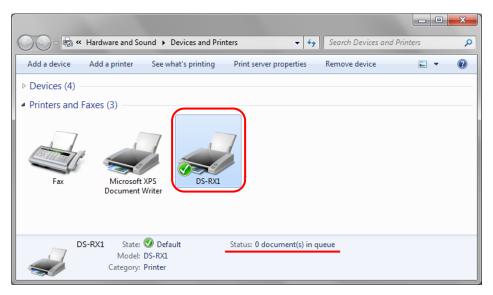


Fig 3.1 "Devices and Printers" window with the DS-RX1 icon clicked

(2) Select "Start"-"Control Panel", and click on "View devices and printers" in the control panel.

In Windows 8, right click on the Start screen, select the right-under "All apps", select "Control Panel", click on "View devices and printers" in the Control Panel.

In Windows 10, right click the Start. In the bottom right area, select "All Apps", and then select "Control Panel". In the Control Panel, click "Devices and Printers".

From the "Devices and Printers" window, select the DS-RX1 printer, display the pull-down menu with the right click, and click on "Remove device".

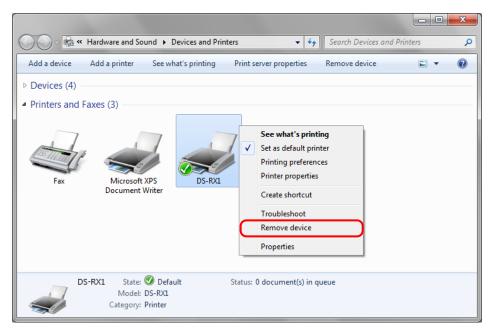
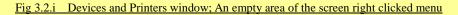


Fig 3.2 Devices and Printers window; DS-RX1 right clicked menu

In Windows 8 and 10, DS-RX1 icon does not appear if the printer is offline (if the printer with the power on is not connected). If you can not connect to the printer with the power on, remove the device in the following procedure.

(i) Right click an empty area of the "Devices and Printers" window, select the "Device Manager".

۲	Device Manager	
	Add devices and printers	
	Paste shortcut	
	Paste	
	Refresh	
	Group by	
	Sort by	•
	View	•

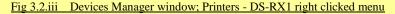


(ii) Click on the check "Show hidden devices" in the menu "View".



(iii) Right click on the "DS-RX1" of "Printers", select "Uninstall".

🛃 Device Manager 🗕 🗆	x
File Action View Help	
🗢 🔿 🖬 📓 📓 🖬 🥀 🎼	
Printers     DS-RX1	^
Update Driver Software	
Uninstall	
Scan for hardware changes	1



(iv) When the "Confirm Device Uninstall" window appears, click on "OK".

Confirm Device Uninstall
DS-RX1
Warning: You are about to uninstall this device from your system.
Delete the driver software for this device.
OK Cancel

Fig 3.2.iv Confirm Device Uninstall window

(3) When "Are you sure you want to remove this device?" appears, click on "Yes".



Fig 3.3 Remove device confirmation window

(4) After the DS-RX1 printer has been removed, select another printer (for example: Fax), and click on "Print server properties" in the menu bar.

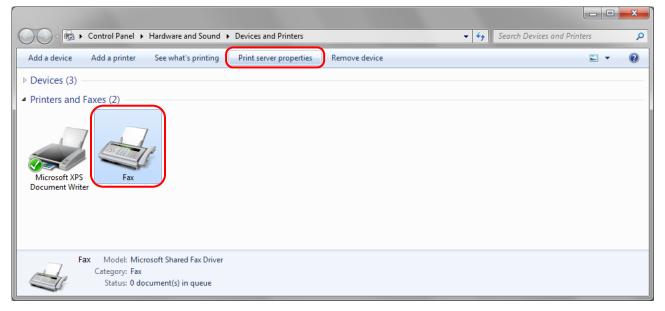


Fig 3.4 "Devices and Printers" window, showing the "Print server properties" menu

(5) When the Print Server Properties window appears, click on the Drivers tab. From the list of installed printer drivers, select "DS-RX1", and click the "Remove" button.

Print Server Properties			x
Forms Ports Drivers Security	Advanced		
Installed <u>printer</u> drivers:			
Name	Processor	Туре	
DS-RX1	x	Type 3 - User Mode	DI
Microsoft XPS Document	x	Type 3 - User Mode	
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties	
Change Driver Setting	s	_	
	ОК	Cancel Apply	

Fig 3.5 Print Server Properties window

(6) When the Remove Driver and Package window appears, select "Remove driver only", and click on the "OK" button. Removal of the driver package takes place in the next section "2. Uninstalling a Driver Package".

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>
Remove driver and driver package.
OK Cancel

Fig 3.6 Remove Driver and Package window

(7) When the Print Server Properties confirmation window appears, click on the "Yes" button.

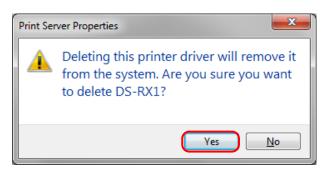


Fig 3.7 Print Server Properties confirmation window

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.

8	Unable to remove DS-RX1, x86, Type 3 - User Mode driver. The specified printer driver is currently in use.
	ОК

(8) Using the Print Server Properties window, confirm that "DS-RX1" has been removed, and click on the "Close" button. After removing the printer driver, uninstall the driver package.

Print Server Properties			×		
Forms Ports Drivers Securi	y Advanced				
1 TELEVIS					
Installed printer drivers:					
Name	Processor	Туре			
Microsoft XPS Document	x	Type 3 - User Mode			
			5		
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties			
😵 Change Driver Settings					
	Close	Cancel Ar	pply		

Fig 3.8 Print Server Properties window

#### 2. Uninstalling a Driver Package

 Select "Start", then "Control Panel", and open the control panel. Click on "Uninstall a program" in the control panel. In Windows 8, right click on the Start screen, select the right-under "All apps", select "Control Panel", click on "Uninstall a program" in the Control Panel.

In Windows 10, right click the Start., and then click "Control Panel". In the Control Panel, click "Uninstall a program".

~				
Control Panel	<b>&gt;</b>		← ← Search Control Panel	م
Adjust	your computer's settings		View by: Category 🔻	
<b>R</b>	System and Security Review your computer's status Back up your computer Find and fix problems	<u></u>	User Accounts and Family Safety Ø Add or remove user accounts Ø Set up parental controls for any user	
	Network and Internet View network status and tasks Choose homegroup and sharing options	<b>%</b>	Appearance and Personalization Change the theme Change desktop background Adjust screen resolution	
-0	Hardware and Sound View devices and printers Add a device	Ð	Clock, Language, and Region Change keyboards or other input methods Change display language	
	Programs Uninstall a program	G	Ease of Access Let Windows suggest settings Optimize visual display	

Fig 3.9 Control Panel

(2) When the "Uninstall or change a program" window appears, double-click on "Windows Driver Package – Dai Nippon Printing DS-RX1 (mm/dd/yyyy x.x.x.x)" (mm/dd/yyyy = the date, x.x.x.x = the version).

Control Panel	Programs      Programs and Features	d Features		
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.			
off	Organize 👻	BEE 🔻 🔞		
	Windows Driver Package - Dai Nippon Printing DS-RX1 (12/20/2010 1.0.0.0)	Dai Nippon Printing		
	Currently installed programs Total size: 0 bytes     1 programs installed	4		

Fig 3.10 Uninstall a program

(3) When the "Uninstall Driver Package" window appears, click on "Yes". The Uninstall will be completed.

After finished with uninstalling the driver package, reboot the computer.

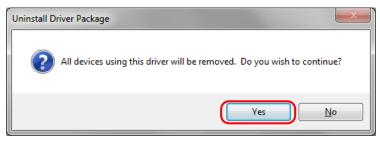


Fig 3.11 Uninstall confirmation window

#### 3. 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".

#### 4. 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 Chapter 3 "1. Driver Removal" and "2. Uninstalling a Driver Package".

Dai Nippon Printing Co., Ltd.