DNP

Digital Photo Printer

Mac Printer Driver for OS X

Printer Driver Instruction Manual v5.2

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PN: DOC-U-DNP-V02-GA-52-MAC
REV: 8.22.2022

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Before You Begin

Use the information in this chapter to better understand this document and any standard procedures or warnings that may come with your product.

Documentation Conventions

When using this document, several text elements and treatments are repeated throughout. The following is an explanation of these symbols and headings:

Text Elements

This denotes important information concerning safety when working with the equipment. Failure to comply with an Attention statement can cause you injury or harm or cause damage to the system.

This signifies convenient or useful instructions.

Used to denote a procedure that requires two people to lift a heavy item.

Warns of a time-sensitive step. Be sure to read the surrounding instructions completely before performing this operation.

Signifies an item that needs to be entered on the specified form.

Text Treatments

Bold Text – Indicates items you can select, such as buttons and menu entries.

Italic Text – Indicates variable text or placeholders for information, such as user names and directory paths. When entering directory paths and so forth, the word in italics should not be typed, but should be replaced by the appropriate text. Italic text also introduces new words and is occasionally used for emphasis in text.

`Monospace`– Distinguishes information that is displayed on the screen, as well as the text that you should enter.

Important Safety Instructions

Safety is paramount when installing and operating the system. These safety instructions are to protect you and the customer and the overall public. The following bullet points apply to the safety instructions in this manual:

- Read all of these instructions before setting up, installing, and operating your system.
- Follow all warnings, safety precautions, and notices for all procedures in this manual.
- When in doubt, stop what you are doing and reassess the safety of the situation or procedure. Never continue with a step or procedure when there is the slightest doubt regarding safety.
- Save these instructions for future reference.

General Safety Precautions

- Never install or setup the system near water.
- Never place the system on an unstable platform.
- Never place the system near a heat source, such as a heater or furnace.
- Never perform any of these steps while wearing jewelry (rings, loose necklaces, bracelets, etc.), neckties, or other clothing that could get caught in the equipment. These items can get caught in the equipment or may conduct electricity and cause injury.
- Never insert any foreign object into the system unit without powering the system OFF first.
- Never block ventilation ports; allow plenty of room around the system for ventilation.
- Never use water or liquid to extinguish a fire on the system unit.
- Always protect the power cord from accidental kinks, cuts, and foot traffic.
- Always operate this system from the correct type of grounded power source.
- Always clean and maintain the system in the prescribed manner as instructed in this manual.
- Always use this equipment in the specified manner as recommended by the manufacturer.
- Failure to observe safety precautions voids your warranty and may cause damage to the unit and could result in personal injury or death.

Contact DNP Imagingcomm America Corporation immediately if:

- The system is damaged due to fire or flood; or is otherwise unsafe to operate.
- Any part of the system is dropped, cracked, or is not operating properly after performing cleaning and maintenance.
- You have any questions not answered in this manual.

Contact Us

Need help? Contact DNP Imagingcomm America Corporation technical support at:

Phone United States & Canada: 1-855-367-7604 or 1-980-777-1178

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For hours of operation, see our website: www.dnpphoto.com

INTRODUCTION

Use the book to install and learn about your DNP Imagingcomm America Corporation Mac Printer Driver for OS X. The printer driver can be used with any DNP printer.

System Requirements

The DNP printer driver for Mac OS-X can be used with any DNP photo printer.

Use this guide to install and learn about your Mac Printer Driver.

The following OS versions and processor architectures are supported:

- Mac OS 10.12 (Monterey)
- Mac OS 10.11 (Big Sur)
- Mac OS 10.10.15 (Catalina)

The Mac driver may work with older Mac OS versions with some limited functionality, but are not supported by DNP.

Supported DNP Photo Printer Models

Current Printer Models

- DS620A
- DS820A
- RX1HS
- QW410

Legacy Printer Models

- DS40
- DS80
- DS80DX

Legacy printers may lack certain functionality.

Note on Supported Media Sizes

Certain media sizes are not sold or supported in all global sales regions. When using media sizes from other regions , e.g. 6x9" and A4 that are unsupported by this US version of the Mac OS printer driver, the international version of the Mac OS driver can be downloaded from DNP Europe. An alternate printing tool is also available. The DNP Hot Folder Print Utility for Mac OS-X can also be used to print image files with all DNP media sizes.

What's New in v5.2?

Added print cut sizes for QW410:

- 4x3"
- 4x4.5"
- 4.5x3"
- 4.5x4"

Full list of supported sizes for QW410:

- 4x3"
- 4x4"
- 4x4.5"
- 4x6"
- 4.5x3"
- 4.5x4"
- 4.5x4.5"
- 4.5x6"
- 4.5x8"

The QW410 v1.10 firmware must be installed in the printer in order to use the new cuts sizes of the v5.2 driver which are listed above.

In addition to the above print sizes, the QW410 also supports 2-inch cut mode operation as a special feature.

Features from Previous Release

The following is a list of the new features in this release:

- **Decurl functionality.**
  - For the QW410 printer, you can select the **DeCurl** option from the **Printer Properties** screen to decurl your images as they are printed.
- **New print sizes for the QW410 printer.**
  - 4.4"
  - 4.6"
  - 4.5x4.5"
  - 4.5x8"

INSTALLING THE MAC PRINTER DRIVER FOR OS X

Getting Started

Before you install your printer drivers, be sure you have done the following:

1. Installed paper and ribbon in your DNP IAM printer.
2. Turned your printer ON.
3. Verified that there are no error lights on your printer.
4. Verified that your printer is NOT connected to your Mac with a USB cable at this time. You can disconnect the USB cable from the Mac only - you do not need to disconnect the cable from both the printer and the Mac.
5. If you have previously had a DNP printer installed on your Mac, go to **System Preferences > Print & Fax**. If a DNP DS/RX series printer is listed, delete that printer from the list.

Installing the Driver

Installation is simple. Preparation for the driver installation is simple. First Step - disconnect the printer from the Mac computer. With the the printer disconnected from the Mac, install the driver. Then connect the printer. Step-by-step instructions follow:

If the DS/RX printer is connected to your Mac, unplug the USB cable from your Mac device. Do not proceed until your printer is disconnected from your Mac.

1. From your browser, navigate to the following site: http://dnpphoto.com/Support/Downloads/Drivers-Tools
2. Under the **Printer Drivers for Mac** section, download the **Mac OS-X Driver for DS620A/DS820A/RX1HS/QW410/ DS40/DS80//DS80DX** file.

   The Mac pinter driver supports all DNP pinter models in one driver, (unlike the Windows drivers that have a separate driver for each print model.)

3. Navigate to the location where you downloaded the file. Double-click the **DNP Install.dmg** file.

4. In the next window, double-click the **DNP DS Printer Drivers** icon.

5. The installer opens. Click **Continue** to begin.

6. Read the important information on the screen. When you are done, click **Continue**.

7. Read the through the Software License Agreement. When you are done, click **Continue**.

8. When prompted, accept the license agreement terms by clicking **Agree**.

9. At the next screen, click **Install**.

10. If your Mac operating system is password protected, enter your password when prompted. Click **OK**.

The installation process begins.

11. When the installation is complete, you receive the message *Install Succeeded*. Click **Close**.

When installing the new drivers, the default DNP ICC profiles are also installed. To change the ICC profiles, please see “Changing the ICC Profile” on page 35.

Turning ON the Printer

1. If it isn't already, turn the printer ON.
2. Plug the DNP printer USB cord into your Mac.
3. The printer should be added as a device automatically in about 1 minute.

Do NOT use the **+** sign to add the printer. If you see a **+** sign, you may already have another instance of the Mac printer driver installed on your system. If so, follow the instructions in step 5 in "Getting Started" on page 11, to remove the printer, then repeat the steps in this procedure.

Uninstalling the Driver

Follow this procedure to uninstall the printer drivers for DS/RX printers on Mac OS X.

1. Navigate to where you downloaded the **Mac OS-X Driver for DS40/DS80/RX1/DS620A/ DS80DX** file.

   If you no longer have the above mentioned file, please follow steps 1 - 4 in the "Installing the Driver" on page 11.

2. Copy the **Driver Package** file and **Driver Uninstaller** file to your desktop or a local folder on your Mac.
3. Double-click the **DNP Install.dmg** file.
4. In the next window, double-click the **DNP Uninstaller** icon.
5. The uninstall process begins.
6. Navigate through any subsequent windows that are displayed.

   Uninstalling the driver only uninstalls the current version. If you have multiple versions of the driver, you need to run the uninstall for each driver version.

Troubleshooting

❖ Make sure the printer is connected with a USB cable and powered ON. The lights on the printer should indicate a "Ready" status. (For more information on status lights, consult the DS/RX Printer User Manual.)

❖ If the printer is added, but you cannot print:

   1. Turn the printer OFF. Go to **System Preferences > Print & Fax** and delete any DS/RX Printers listed.
   2. Turn the printer ON and wait for the printer to add itself as a device.

   If the printer does not automatically add itself to the printer list, use the **+** sign to add it in the **System Preferences > Print & Fax** dialog box.

USING THE MAC PRINTER DRIVER FOR OS X

After installing your driver, you can use the DS or RX printers to print from your Mac. Use the procedures in this chapter to explore and use all of the features available with the Mac Printer Driver for OS X.

The printer options screen may change slightly depending on the program from which you are printing. Graphic design programs like *Photoshop* or *Illustrator* may have extra settings which are not included in the examples below.

The DS620A, DS820A,RX1HS, QW410 and legacy DS40 and DS80 printer control panels are all similar, but will present different sets of paper sizes for each respective printer. Always select the paper size, or store a preset with the appropriate paper size. The Mac OS auto-assigns letter size paper as the default, which will not print to the DNP printers.

Opening the Printer Preferences Window

The printer preferences window allows you to make changes to your printer settings. Use this window to change the DNP printer preferences as needed.

1. Open an image using a software application that does not alter the printer preferences window. An example of this type of software is the iPhoto software.
2. Click the **Print** button.
3. The printer preferences window opens.

Exploring the Standard Printer Options

The DNP printer features are located at the bottom portion of the overall printer options window.

1. The top portion of the printer options window remains the same for your selected printer. For the purposes of this manual, the top portion of the window is called the standard printer options.

2. Use the following table to identify the standard printer options in the top portion of the window.

Printer Option	Description
Printer*	Displays the selected printer. You can use the drop-down list to switch between printers.
Presets	Shows your preset options. This is usually set to “default” unless you have already set up presets on your system.
Copies	Displays the number of copies for each image in the print job.
Duplex (Two-Sided Setting++	Duplex only option. Allows you to toggle between single sided and double sided printing.
Pages	Displays the pages you are printing. Can be set to all pages or specifying a certain page range.
Paper Size*	Lists all available print sizes for the selected printer (1).
Orientation	Toggles between landscape and portrait orientations.
Printer Settings List	Drop-down list to select your specific printer preferences. See the following sections for more information.

*Selecting a different printer, such as the DS80, DS80DX or RX1, changes some of the options (paper size).

++Only available with duplex printers.

About Paper Size

Use the paper size option to set your print size for your print job. The system automatically displays the available print sizes for your given paper size. If a print size cannot be found, the system uses the default paper size of 8.5” x 11”.

Setting your paper size ensures that your image is printed correctly.

About Orientation

When printing images, orientation is not always as straight forward as expected. Due to default settings when printing images, sometimes the portrait and landscape orientations appear to be reversed.

The default image orientation depends on the paper you have loaded in your printer. 5" and 8" paper automatically flip images to portrait mode while 6" paper automatically flips images to landscape mode. These automatic adjustments allow for the largest image possible within the selected print size.This can be confusing when starting with different image orientations. Adding to this, image EXIF and meta data can also impact orientation when printing.

For best results, always set the paper size first, and then set your image scaling (using the preview panel). Also, always leave the automation rotation set to ON (checked). By doing these actions, your system will automatically adjust your image to the correct orientation for your printer paper and scale the image to fit within the print size.

If you are having issues with incorrect orientations and you have checked your print size, scaling, and automation rotation, use the portrait and landscape options to adjust your image orientation. However, if you have properly set your other print actions, this step should not be necessary. Keep in mind that forcing an image orientation can cause severe cropping of an image. Images are set to certain aspect ratios, and forcing an orientation change will cause the image to be cropped severely.

Exploring the Preview Print Options

The preview print options appear below the standard print options when you change the **Printer Settings** drop-down menu to **Preview**.

The preview print options are most commonly used to set your print orientation (rotation), scaling, and copy options. To learn more about the standard printer options, see "Exploring the Standard Printer Options" on page 18.

Printer Option	Description
Preview Window	Thumbnail shown to the left of the screen. Shows a preview of your image as it will be printed.
Auto Rotate	Do not change this option unless you are having issues with image orientation when printing. This setting automatically rotates the image to the proper orientation when printing to photo paper.
Scale	Sets percentage for scaling the image.
Duplex (Two-Sided Setting++	Duplex only option. Allows you to toggle between single sided and double sided printing.
Scale to Fit	Automatically scales the image to either Print the entire image on the Paper, leaving white edges, or Filling the entire page (center-cropping the image.)
Copies per page	Set the number of copies for all of the images within your print jobs.

For more information about preview settings, see your Mac documentation.

Exploring the Layout Options

The layout print options appear below the standard print options when you change the **Printer Settings** drop-down menu to **Layout**.

The layout print options are most commonly used to update your settings when printing multiple images on the same page. To learn more about the standard printer options, see “Exploring the Standard Printer Options” on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed.
Pages per Sheet	Changes the number of images that will print per sheet of media.
Layout Directions	Selects how you want multiple images printed on each sheet.
Border	Duplex only option. Allows you to toggle between single sided and double sided printing.
Two Sided	Duplex option only. Sets or removes duplex printing capabilities.
Reverse page orientation	Prints the image upside down.
Flip horizontally	Toggles between landscape and portrait orientations.

For more information about layout settings, see your Mac documentation.

Exploring the Paper Handling Options

The paper handling options appear below the standard print options when you change the **Printer Settings** drop-down menu to **Paper Handling**.

The paper handling options are most commonly used to change the collation, pages to print, and other common paper/sheet options. To learn more about the standard printer options, see "Exploring the Standard Printer Options" on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed.
Collate Pages	Prints pages collated (1,2,3, 1,2,3) or chronologically (1,1, 2, 2, 3, 3).
Pages to Prints	Selects either all pages, or a subset of pages to print (odd, even, specific page range, etc.).
Page Order	Switches the print job order.
Scale to fit paper size	Scales the image to fit on the selected paper size.
Destination Paper Size	Displays the default paper size for your printer.
Scale down only	Limits scaling to less than 100%.

For more information about paper handling settings, see your Mac documentation.

Exploring the Multi-Cut Functionality for DS80 and DS820

You now have the ability to use the multi-cut functionality with your DS80 and DS820 printers.

Here are the applicable size:

Multi-Cut-Combo	Media Size 8x10	Media Size 8x12
(8x5) + (8x4)	✓	✓
(8x6) + (8x4)	✓	✓
(8x6) + (8x5)	-	✓
(8x8) + (8x4)	-	✓
(8x4) x 3	-	✓

✓ = Multi-Cut Printing Possible

As an example, if you have 8x12 media installed in your printer and you select **Multi - (8x8) + (8x4)** from the **Paper Size** drop-down menu, the printer cuts your images as follows:

For 8x10 and 8x12 multi-cuts, you need to use a photo editing application to manipulate your image in order to fill the entire canvas. For example, if you select **Multi - (8x4) x 3** from the **Paper Size** drop-down menu, and you do NOT manipulate your images to fill the canvas, your image is cut as follows:

If you arrange your images properly using your photo editing application, your image is cut as follows:

INFO:

The Multi-cut operation uses a double-cut between the image panels. this will help avoid image over-bleed which can occur from one panel to the neighboring panel.

Exploring the QW410 Printer

The QW410 printer allows you to print a variety of print sizes (see list below.) This printer is also equipped with a mechanism that reduces the curl of the print.

Activating the Decurling functionality

1. From the **Print Properties** screen, select **DNP DP-QW410** from the **Printer** drop-down menu.

The Decurl function will flatten the paper after it is printed, reducing the curl of the small paper rolls. It is set to On by default, and can be turned off by deselecting the checkbox.

2. Select your **Presets**, **Copies**, and **Paper Size**.
3. Under the **Cut Operation** section, select the **Decurl** checkbox.

4. Set your **Image** and **Color** properties as needed.

5. Click the **Print** button.

2-inch print cut mode

The 2 inch cut function of the QW410 printer differs from the DS printers because of the printer paper orientation. The QW410 prints along the long axis. As a result the 2 inch cut for the 4x6 media of a QW410 will result in three strips of 2x3" and when using the 4x5x8" media, will result in four 2x4x5"strips. The image layout must be performed by the application software when using the 2 inch cut function.

Tech Tip; To achieve traditional 2x6" photo strips with the QW410 (e.g. photobooth operations), use DNP 4x6 center perforated media kits.

QW410 Print Sizes

You can print your images in the following sizes:

- 4x3"
- 4x4"
- 4x4.5"
- 4x6"
- 4.5x3"
- 4.5x4"
- 4.5x4.5"
- 4.5x6"
- 4.5x8"

Exploring the Supply Level Options

Change the **Printer Settings** drop-down menu to **Supply Levels** to check how many ribbon panels are left on the currently selected printer. The Supply Level indication will also show the media type PP or SD when applicable.

To learn more about the standard printer options, see “Exploring the Standard Printer Options” on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed.
Image Remaining	Displays the number of remaining images..

For more information about the supply level options, see your Mac user documentation.

Opening the DNP Printer Options

1. If you haven't already, open the printer options window.
2. From the **Printer Settings** drop-down menu, select the **DNP Printer Features** option. This opens the DNP Printer Features panels.
3. By clicking the **Image, Color**, **or Advanced** buttons, you can toggle between the **Image, Color**, **or Advanced** panels.
4. Use the following procedures to learn more about each of the option panels.

The **PRINT** button may be obscured by the **DOCK** icon tray. If this occurs you can either: switch back to another print window tab such as preview, or relocate the DOCK to the side for the screen display, or move the print window to the side.

Changing the Image Settings

Use the table below to identify the settings available on the DNP Printer Features Image panel.

1. Make sure the **Images** button is highlighted to view the image panel options.

To learn more about the standard printer options, see “Exploring the Standard Printer Options” on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed.
Overcoat type: Glossy/Matte	Switch between glossy or matte print finishes.
Print Quality	Switch between high speed prints or high quality prints.
Cut Operation*	Switches between sheet or rolled paper inputs (duplex printer). Also allows for 2” cuts on printers where that option is supported.
Brightness	Adjusts the brightness of the image.
Contrast	Adjusts the contrast of the image.
Gamma	Adjusts the gamma settings.
Sharpness	Adjusts the image sharpness settings.
Overcoat Duplex Settings++	Duplex only option. Applies the glossy or matte print finish to duplex prints.
Enable Adjustments	Allows for image panel images.

*Selecting a different printer, such as the DS80 or DS80D or RX1, changes some of the options (paper size).

++Only available with duplex printers.

Changing the Color Settings

Use the settings on the DNP Printer Features **Color** panel to change color attributes of your images. Any changes you make are applied to all images that are printed during that print session. Changes are saved between sessions and can be altered at any time.

To learn more about the standard printer options, see "Exploring the Standard Printer Options" on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed. It is used for sizing only; the preview window cannot show any color changes made in the print window.
Overcoat type: Glossy/Matte	Switch between glossy or matte print finishes.
Print Quality	Do not change this option. Prints the image at 300x300 DPI.
Cut Operation*	Switches between sheet or rolled paper inputs (duplex printer). Also allows for 2" cuts on printers where that option is supported.
Enable Adjustments	Allows for image panel changes to be made by the printer using the print window controls.
Overcoat Duplex Settings++	Duplex only option. Applies the glossy or matte print finish to duplex prints.
Saturation Levels	Adjusts the image saturation levels.
Color Contol (Red/Green/Blue)	Adjusts the color settings for all images you are printing.

*Selecting a different printer, such as the DS40, changes some of the options (paper size, duplex) accordingly.

++Only available with duplex printers

Using the Advanced Settings

By clicking the **Advanced** button, you can turn on a feature to re-print the last photo if the media runs out during printing. (Available only with printer firmware version 1.30 or higher.) You can also view the printer driver firmware version.

To learn more about the standard printer options, see “Exploring the Standard Printer Options” on page 18.

Printer Option	Description
Preview Window	Shows a preview of your image as it will be printed.
Overcoat type: Glossy/Matte	Switch between glossy or matte print finishes.
Print Quality	Do not change this option. Prints the image at 300x300 DPI.
Cut Operation*	Switches between sheet or rolled paper inputs (duplex printer). Also allows for 2” cuts on printers where that option is supported.
Enable Adjustments	Allows for image panel.
Overcoat Duplex Settings++	Duplex only option. Applies the glossy or matte print finish to duplex prints.
Retry printing after recoverable error	Reprints the images that are still in the printer buffer if the printer enters an error state.
Firmware version	Displayes the firmware version.

*Selecting a different printer, such as the DS40, changes some of the options (paper size, duplex) accordingly.

++Only available with duplex printers

About Retry Printing

Retry printing allows you to reprint the images that are still in the printer buffer if the printer enters an error state. While not all errors can trigger a reprint, if the error state is considered recoverable, the printer buffer is reprinted once the printer returns to the ready state. If the feature is not enabled, the printer buffer is cleared when an error occurs. Use the table below for reviewing additional information regarding printer error conditions.

Printer Error	If Retry Printings is Disabled	If Retry Printing is Enabled
Paper End Ribbon End Cover Open Paper Jam Ribbon Error Paper Definition Error Scrap Box Error	Images in the printer buffer are not reprinted.	Images in the printer buffer are reprinted once the error condition is cleared.
Data Error Head Voltage Error Head Position Error Power Supply Fan Stop Cutter Error Abnormal Head Temp. Abnormal Media Temp. Ribbon Tension Error RFID Module Error Abnormal Motor Temp. System Error	Error requires a printer reboot, which clears the print buffer. Images must be resent to the printer.	Error requires a printer reboot, which clears the print buffer. Images must be resent to the printer.

Viewing the Printers and Scanners Preferences

If you are viewing the printer preferences, use the options below.

Number	Description
1	Opens the print queue.
2	Opens a new window with supply level information and driver information.

1. Pressing the **Options & Supplies** button opens the printer preferences window.

2. You can use the **Supply Levels** panel to view the approximate remaining ribbon amounts.
3. Use the **General** panel to view the current firmware version.

Changing Default Printer Settings

If you want to change any of your default printer settings such as your default print size (4x6 or 2" cuts), default print finish (matte/glossy), or any of your color settings, you must do so using CUPS, or *Common UNIX Printer Service*. CUPS is a web-based application that simplifies the printer management interface. CUPS is part of OS X. For more information on changing your default printer settings, please consult your Mac user documentation or the Apple support website.

Changing the ICC Profile

Use the following procedure to change the ICC profile assigned to your printer.

1. From Finder, select **Applications** and then select **Utilities**.
2. Select **ColorSync Utility**.
3. Click the **Devices** header.
4. Select the **DNP** printer for which you wish to change the ICC profile.
5. From the **Current Profile** drop-down menu, select **Other**.

6. Select the desired ICM file. Optional ICC profiles are stored in folders listed by Print Model Name. Select a profile for the printer that you are using.
7. Click **Open**.
8. The new ICC profile is now displayed.

Supported Print Sizes

Use the following table to view available print sizes for each printer and media type.Mac Printer Driver for OS X only displays the available print sizes for the loaded media, i.e., for a 6″ printer that has 4″x6″ media loaded, only 4″x6″ and 3.5″x5″ sizes are displayed.

S	M	ST	MT
Single Cut	Multi-Cut	Single Cut, req trimming	Multi-cut, req trimming

	DS620A			DS40			RX1-HS		
	Media Size						Media Size		
Print Size	4x6	5x7	6x8	4x6	5x7	6x8	4x6	5x7	6x8
2" cuts*	2	-	4	2	-	4	2	-	4
3.5x5	ST	M	MT	ST	M	ST	ST	M	ST
4x6	S	-	M	S	-	M	S	-	S
5x5	-	S	ST	-	-		-	-	ST
5x7	-	S	ST	-	S	ST	-	S	ST
6x6	-	-	S	-	-	S	-	-	S
6x8	-	-	S	-	-	S	-	-	S

	QW410	
	Media Size	
Print Size	4x6	4.5x8
2" cuts*	3	4
4x3	M	MT
4x4	S	MT
4x4.5	S	ST
4x6	S	ST
4.5x3	-	M
4.5x4	-	M
4.5x4.5	-	S
4.5x6	-	S
4.5x8	-	S

Print Size Chart for 6" Printers: DS40, DS620A, RX1HS, and also 4.5" QW410. Print Media sizes may not be available in all sales regions.

Note on Full-Bleed: DNP Printers can print full-bleed images on the page, (No borders). To print full-bleed images, the image must either be properly sized, or the *Scale* to *Fill Entire Paper* function is used in the print window.

The Fill Entire Paper function will perform center cropping. Use when the image aspect ratio is different than the print size.

Print Size and Print Media Function Chart

S = Single image prints on the page, e.g. 4x6" image printed on 4x6" page panel or canvas.

M = Multiple images can be printed on the same page canvas and the printer cuts them apart. e.g. two 4x6" images can print on one 6x8" media page panel and printer automatically cuts to size, user selects Copies 2.

ST = Single image prints on the page, and it must be Trimmed down to the size. e.g. a 5x7" image is printed on 6x8" page canvas, leaving white border to manually trim.

MT = Multiple images can be printed on the same page , and must be Trimmed to size. e.g. two 4x4" images can print on a 4.5x8" page leaving white borders to manually trim.

*** 2-inch cut mode** is activated via the check-box on the DNP Printer Features tab of the Mac print window. When used, the 2" cut operation splits the image canvas at 2" intervals, e.g. two 2x6" photo strips when using 4x6" media. The QW410 prints on the long axis, the photo strips are (2x4") x3 using 4x6 media. Strip per page is noted in the chart above. An imaging program must perform the necessary image layouts before printing through the driver.

Note: Use "Copies" option in the print window to print multiple pages of the image. Using the "Copies per Page" option in the print window will result in multiple images on each cut sheet.

S	M	ST	MT
Single Cut	Multi-Cut	Single Cut, req trimming	Multi-cut, req trimming

	DS820A		DS80	
	Media Size		Media Size	
Print Size	8x10	8x12	8x10	8x12
8x4	M	M	M	M
8x5	M	M	M	M
8x6	S	M	S	M
8x7	S	S		
8x8	S	S	S	S
8x9	S	S		
8x10	S	S	S	S
8x11.7 *		S		S
8x12		S		S

DS80DX	
Media Size Roll	
8x10	8x12
M	M
M	M
S	M
S	S
S	S
	S
	S
Single Sided Roll Paper	

DS80DX		
Media Size Cut Sheet		
8x10	8x12	Print Size
M	M	8x4
M	M	8x5
S	M	8x6
		8x7
S	S	8x8
		8x9
S	S	8x10
		8x10.5
	S	8x10.75
	S	8x11.7 *
	S	8x12
Double Sided Paper		

* DS80 8x11.7" closely approximates A4 page size.

Print Media sizes may not be available in all sales regions.

S	M	ST	MT
Single Cut	Multi-Cut	Single Cut, req trimming	Multi-cut, req trimming

	DS80/DS80DX		DS820A	
Multi Combo	Media Size		Media Size	
Print Size	8x10	8x12	8x10	8x12
(8x4) + (8x4)"	M	M	M	M
(8x5) + (8x5)"	M	M	M	M
(8x6) + (8x6)"	-	M	-	M
(8x5) + (8x4)"	M	M	M	M
(8x6) + (8x4)"	M	M	M	M
(8x6) + (8x5)"	-	M	-	M
(8x8) + (8x4)"	-	M	-	M
(8x4)" x3	-	M	-	M

* DS80D Roll Paper

NOTE: An imaging program must perform the necessary image layouts for the combo multi-cut before printing the image through the driver.

Print and Image Size

DNP photo printers have a print area that is larger then the paper size. The pixel sizes of the print area or canvas size are listed below. These differ slightly from one printer model to another. The auto-resize (scaling) function of the printer will adjust for the images sizes that are not exact size or aspect ratio.

The print area of DNP photo printers have an over-bleed area of the print canvas that extends past the paper size edges. This allows for edge-to-edge printing without any white edges on the printout, but with the loss of a tiny bit from edges of the image in the over-bleed area. This over-bleed area is typically 1.5 mm top-to-bottom and 2.5mm side-to-side.

When using 2" cut or multi-cut operation, the cut, or double-cut will trim a scrap of paper from between the image sections. This avoids image bleeding from one image section to the other on the cut page. Exception is QW410, it uses single-cut when using 2" cuts or multi image print mode sizes.

DS620A Print and Image Size Chart

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

	Image Canvas Size (width x height)		Number of Image Dots (width x height)	
Print Size	(inch)	(mm)	High Speed (300x300 dpi)	High Quality (300x600 dpi)
(5x3.5)	5.16" x 3.63"	131.1 x 92.1	1548 x 1088	1548 x 2176
(5x5)	5.16" x 5.13"	131.1 x 130.4	1548 x 1540	1548 x 3080
(5x7)	5.16" x 7.13"	131.1 x 181.0	1548 x 2138	1548 x 4276
(6x4)	6.15" x 4.13"	156.1 x 105.0	1844 x 1240	1844 x 2480
(6x4.5)	6.15" x 4.62"	156.1 x 117.3	1844 x 1386	1844 x 2772
(6x6)	6.15" x 6.12"	156.1 x 155.4	1844 x 1836	1844 x 3672
(6x8)	6.15" x 8.12"	156.1 x 206.2	1844 x 2436	1844 x 4872

*1: Convert to 300 x 600 dpi size within the driver, and then send to the printer.

Note: The Image Dots indicate the full canvas size, including the overbleed area.

Print Media sizes may not be available in all sales regions.

DS820A Print and Image Size Chart

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

Print Size	mage Canvas Size (width x height		Number of Image Dots	
	(inch)	(mm)	High Speed (300x300 dpi)	High Quality (300x600 dpi)
(8 x 4)	8.16" x 4.12"	207.3 x 104.6	2448 x 1236	2448 x 2472
(8 x 5)	8.16" x 5.12"	207.3 x 130.0	2448 x 1536	2448 x 3072
(8 x 6)	8.16" x 6.12"	207.3 x 155.4	2448 x 1836	2448 x 3672
(8 x 7)	8.16" x 7.13"	207.3 x 181.0	2448 x 2136	2448 x 4272
(8 x 8)	8.16" x 8.12"	207.3 x 206.2	2448 x 2436	2448 x 4872
(8 x 9)	8.16" x 9.13"	207.3 x 232.0	2448 x 2736	2448 x 5472
(8 x 10)	8.16" x 10.12"	207.3 x 257.0	2448 x 3036	2448 x 6072
(8 x 11.7) (A4	8.16" x 11.81"	207.3 x 300.0	2448 x 3544	2448 x 7088
(8 x 12)	8.16" x 12.12"	207.3 x 307.8	2448 x 3636	2448 x 7272

*1: Convert to 300 x 600 dpi size within the driver, and then send to the printer.

* DS80 8x11.7" closely approximates A4 page size.

Note: The Image Dots indicate the full canvas size, including the overbleed area.

DSRX1 Print and Image Size Chart

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

	Image Canvas Size (width x height)		Number of Image Dots (width x height)	
Print Size	(inch)	(mm)	High Speed (300x300 dpi)	High Quality (300 x 600 dpi)
(5x3.5)	5.16" x 3.63"	131.1 x 92.1	1548 x 1088	1548 x 2176
(5x5)	5.16" x 5.13"	131.1 x 130.4	1548 x 1540	1548 x 3080
(5x7)	5.16" x 7.13"	131.1 x 181.0	1548 x 2138	1548 x 4276
(6x4)	6.15" x 4.13"	156.1 x 105.0	1844 x 1240	1844 x 2480
(6x6)	6.15" x 6.12"	156.1 x 155.4	1844 x 1836	1844 x 3672
(6x8)	6.15" x 8.12"	156.1 x 206.2	1844 x 2436	1844 x 4872

Note: The Image Dots indicate the full canvas size, including the overbleed area.

QW410 Print and Image Size Chart

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

	Image Canvas Size (width x height)		Number of Image Dots (width x height)
Print Size	(inch)	(mm)	High Speed (300x300 dpi)
(4x3)	4.22" x 3.12"	107.2 x 79.3	1266 x 936
(4x 4)	4.22" x 4.12"	107.2 x 104.7	1266 x 1236
(4x4.5)	4.22" x 4.62"	107.2 x 117.4	1266 x 1386
(4x6)	4.22" x 6.12"	107.2 x 155.5	1266 x 1836
(4.5x3)	4.69" x 3.12"	119.3 x 79.3	1408 x 936
(4.5x4)	4.69" x 4.12"	119.3 x 104.7	1408 x 1236
(4.5x4.5)	4.69" x 4.62"	119.3 x 117.4	1408 x 1386
(4.5x6)	4.69" x 6.12"	119.3 x 155.5	1408 x 1836
(4.5x8)	4.69" x 8.12"	119.3 x 206.3	1408 x 2436

Includes print sizes supported by Printer Firmware v1.10.

Note: The Image Dots indicate the full canvas size, including the overbleed area.

DS40 & DS80 Print and Image Size Chart

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

		Image Canvas Size (width x height)		Number of Image Dots (width x height)	
Model	Print Size	Size (inch)	Print Area (mm)	High Speed (300x300 dpi)	High Quality (300x600 dpi)
DS40	(5x3.5)	5.16" x 3.63"	131.1 x 92.1	1548 x 1088	1548 x 2176
	(5x7)	5.16" x 7.13"	131.1 x 181.0	1548 x 2138	1548 x 4276
	(6x4)	6.15" x 4.13"	156.1 x 105.0	1844 x 1240	1844 x 2480
	(6x6)	6.15" x 6.12"	156.1 x 155.4	1844 x 1836	1844 x 3672
	(6x8)	6.15" x 8.12"	156.1 x 206.2	1844 x 2436	1844 x 4872

		Image Canvas Size (width x height)		Number of Image Dots (width x height)	
Model	Print Size	Size (inch)	Print Area (mm)	High Speed (300x300 dpi)	High Quality (300x600 dpi)
DS80	(8x4)	8.16" x 4.12"	207.3 x 104.6	2448 x 1236	2448 x 2472
	(8x5)	8.16" x 5.12"	207.3 x 130.0	2448 x 1536	2448 x 3072
	(8x6)	8.16" x 6.12"	207.3 x 155.4	2448 x 1836	2448 x 3672
	(8x8)	8.16" x 8.12"	207.3 x 206.0	2448 x 2436	2448 x 4872
	(8x10)	8.16" x 10.12"	207.3 x 257.0	2448 x 3036	2448 x 6072
	A4 Length *	8.16" x 11.81"	207.3 x 297.0	2448 x 3544	2448 x 7088
	(8x12)	8.16" x 12.12"	207.3 x 307.8	2448 x 3636	2448 x 7272

* DS80 8x11.7" closely approximates A4 page size.

		Image Canvas Size (width x height)		Number of Image Dots (width x height)	
Model	Print Size	Size (inch)	Print Area (mm)	High Speed (300x300 dpi)	High Quality (300x600 dpi)
DS80DX	(8x4)	8.16" x 4.12"	207.3 x 104.6	2448 x 1236	2448 x 2472
	(8x5)	8.16" x 5.12"	207.3 x 130.0	2448 x 1536	2448 x 3072
	(8x6)	8.16" x 6.12"	207.3 x 155.4	2448 x 1836	2448 x 3672
	(8x8)	8.16" x 8.12"	207.3 x 206.0	2448 x 2436	2448 x 4872
	(8x10)	8.16" x 10.12"	207.3 x 257.0	2448 x 3036	2448 x 6072
	(8x10.5) *1	8.16" x 10.62"	207.3 x 269.7	2448 x 3186	2448 x 6372
	(8x10.75) *1	8.16" x 10.62"	207.3 x 269.7	2448 x 3186	2448 x 6372
	(8x11.7) A4 *2	8.16" x 11.81"	207.3 x 297.0	2448 x 3544	2448 x 7088
	(8x12)	8.16" x 12.12"	207.3 x 307.8	2448 x 3636	2448 x 7272

*With the DS80 printer, the paper size (output size) can be designated as less than 8 inches, but the media used will be the DS80 8 inch width media.

Note: The Image Dots indicate the full canvas size, including the overbleed area.

iSerial Tool

This tool is meant to be used on the older, vintage DS620/620A and RX-series printers only. No other DNP printers require this update. (Newer DS620 and RX1HS, and all DS820/820A and QW410 printers, already have the correct iSerial firmware installed from the factory.) The DS40 and DS80 series do not support iSerial functionality. Installing this tool for use with any other printer can cause driver malfunctions and void your warranty. The iSerial Tool is considered to be in beta release.

About the iSerial Tool

The DNP iSerial Tool is used to enable the iSerial functionality within the printer firmware. This facilitates proper functionality with the Mac driver for OS X 10.9.4 and later. The DNP dye sublimation printers used on Mac OS 10.9.4 and later may experience the following known issues when using the DNP IAM printer driver:

- A single attached printer will not reflect an accurate status in the driver.
- When two printers of like configuration (same media loaded) are attached, the driver will recognize the first printer attached. The other printer will show offline.

This is due to the fact that the printer cannot report its serial number to the operating system. The printer has the ability to report its serial number; however, it is shipped from the factory with this option disabled in the firmware. The iSerial Enable Tool is used to enable the iSerial functionality within the printer firmware. This facilitates proper functionality with the Mac driver for OS-X 10.9.4 and later, correcting the issues listed above.

The tool can be downloaded from the DNP Photo website at http://www.dnpphoto.com/Support/Downloads/DriversTools.aspx. It is located in the Printer Drivers for Mac section. One the file is downloaded, extract the compressed files before use. Installation instructions are included in the downloaded file and are shown below.

DNP printer firmware update tools for Mac OS now include iSerial status.

Enabling iSerial Functionality

To enable the iSerial functionality with your printers:

1. Connect and turn your printer(s) on.

   Your printer(s) must be powered on for the tool to recognize/update them. The iSerial Enable Tool can recognize up to five (5) DNP printers simultaneously. You may use the DNP iSerial Tool with or without having the Mac driver installed.

2. Unzip the DNP iSerial Tool.

3. Once unzipped, double-click the tool's icon.

4. Upon opening, the tool is populated with information associated with your printers, including the USB Serial Number of your printer(s) and whether the iSerial functionality is enabled/disabled. The USB Serial Number will not appear if the iSerial functionality is not enabled.

5. To enable your printers, select the **iSerial Enabled** checkbox for each printer.

Before selecting the **iSerial Enabled** checkbox, your printer(s) must be available, i.e. not printing images, etc. To verify that your printer is available, check the **Status** column in the iSerial Enable Tool.

6. Upon selecting the **iSerial Enabled** checkbox, you are prompted to reboot your printer(s). Turn your printer off, and then turn it back on. Then click **OK** on the dialog box.

7. Repeat steps 5 and 6 for each printer.

If you deselect the **iSerial Enabled** checkbox, the iSerial functionality is disabled for the associated printer.

8. Once the appropriate changes have been made, close the iSerial Enable Tool before sending images to the printers.

Changing Languages

The DNP Mac driver and utility app supports several international languages. To change the language displayed in the DNP iSerial Tool, you need to do so from the **Language & Region** screen, which is accessed through the OS-X **System Preferences** screen on your Mac PC.

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