Driver Version info:
DNP printer driver for Mac OS-X release v5.2.7 (build 669)
Release – 2023-08

See the Revision History section for a list of the driver feature enhancements.

Supported Mac OS:
This release is intended to support printing from Mac OS-X 13, OS-12, OS-11
This driver has not been tested for operation on earlier OS X versions, it may operate with some limitations.

Key Update Feature in the release:
2023-07
- DNP Driver UNINSTALLER App – digital signing updated for Mac OS13.

v5.2.7 (669) 2023-03
- Driver digital signing updated for Mac OS13.
- No functional improvements.

v5.2.6 (662) 2022-10
- Corrects and allows image adjustment function (DNP Printer Features) applied to all image copies.
- DNP Printer Features - Image Quality controls now selectable when appropriate by printer model

v5.2.3 2022-08
Adds print sizes for QW410 with firmware v1.10, the print sizes added: 4x4.5”, 4.5x3”, and 4.5x4”
Corrects image overlap for 8x12 media 8x6” and 8x5” cut sizes.

v5.1.9 2020-09
- Add improved support for DNP QW410 printer features.
- Add optional ICC color profiles for easy access and to support improved color rendering for certain conditions, these are accessed using Color Sync Utility
- Add optional ICC color profiles for improved color output with DNP Luxury print media; Pearl and Metallic, these are accessed using Color Sync Utility.
- For a list of past improvement, see below Revision History.

Overview:
This DNP printer driver release is a General Release for all the DNP current photo Printers DP-QW410, DS-620, DS-620A, DS-820, DS-820A, DS40*, DS80*, DS80DX*, RX1*, and RX1HS printers.

It is a qualified full release for the QW410, DS620, DS620A & DS820, DS820A, and RX1HS only when these models have iSerial and it's enabled OR are updated to a firmware version that supports iSerial functionality and iSerial is enabled. This remains a Beta and function limited release for all older non-iSerial enabled DNP printers that are support limited and do not support iSerial functionality: DS40, DS80, DS80DX, and older RX1, and the initial production of the DS620 and DS620A printers, see detail noted below.

Note: The older vintage DS-620 DS-620A and RX1 printers must have the firmware updated or already capable of iSerial support and the iSerial support must be enabled for proper operation with multiple

printers on a Mac computer. Use the DNP iSerial utility program to enable it iSerial on your printer. See below for further details. When using DNP printer that does not have iSerial support, only one DNP printer can be connected to the Mac.

Supported Printers of the Mac driver:
The Mac driver package supports the following DNP photo printer models:
Newly supported in the v5.2.x release, QW410 4.5 inch printer.
DS-620A, DS-620, DS-RX1, DS-RX1HS and DS-40; these are 6 inch printers.
DS-820 and DS-820A, and DS-80, are 8 inch printers.
DS-80DX (DS-80D + TU-80). The so-called Duplex is an 8 inch printer capable to print on single-sided media using roll media, and double-sided photo pages using cut-sheet media sets.

Licensing:
By installing this driver, you agree to DNP Imagingcomm America limitation of liability as stated in the End User License Agreement (EULA) and further acknowledge this is beta software in certain aspects except as noted herein.

Refer to the User Guide for complete instructions.

Installation Steps for the Driver:
1 – If necessary, run the provided uninstaller to remove any previous versions of the driver. See steps below.
Note: Uninstall the previous v5.xx version driver is recommended but not required prior to installing this newer v5.xx driver if the previous was properly working.
Uninstall is required for any installed DNP driver version older than v5.xx or any DNP driver that is misbehaving.

2 - Disconnect the Printer from the USB port.

3 – Download the Driver package form the DNP website to your desktop or Download folder.

4 – Double-click the DNP Mac Printer Driver DMG or Zip file-set package to access the compressed files.

5 – Double Click the DNP Printer Driver PKG file to begin the driver installation. This will run the new driver installer. Follow the screen instructions to complete installing the driver.

After Driver Installation:

1. Plug the printer into the USB port and turn it on.

2. Wait.
   The printer should be added automatically in about a minute.
Do NOT use the '+' sign to add the printer. In this case, you may have another instance of the DNP printer in your printer list.

IMPORTANT OPERATION NOTE: the print output size must be set for you printer media combination. The OS default print size is Letter size and may not print unless paper size is properly set.

4. The driver install script will setup the default DNP ICC color profiles.
If desired, Change the ICC profile to another to suit your taste in color output using the OS ColorSync app.

Un-Installing the driver:

Should you choose to completely remove the DNP printer driver from the computer, perform the following steps:
1.. Disconnect the printer from the computer.
2.. Run the UN-Install program provided in the driver package. Follow the screen instructions.
Note: The uninstall program included in the package will remove all DNP printers and driver files for all users of the Mac.
Operation Note: Individual DNP printers can be removed without disturbing the others by using the Apple System Preferences: Printers & Scanners settings page of the OS.

Revision History details for DNP Mac Printer Driver:

** Added driver features for v 5.2.7 – March 2023:
- Operation improvements - None
- Digital Signature updated for Mac OS security.

** Added driver features for v 5.2.6 – October 2022:
- None - Bug fix only.
- Corrects and allows image adjustment function (DNP Printer Features) to apply on all image copies, e.g. a second image copy and additional even number copies 2,4,6, etc.
- DNP Printer Features - Image Quality controls are now selectable when appropriate by printer model.

** Added driver features for v 5.2.3 – August 2022:
- Add QW410 print size support
      - The QW410 with v1.10 firmware now also supports additional sizes.
      - Print sizes added: 4x4.5", 4.5x3", and 4.5x4"
      - Full list of print sizes supported by QW410: 4x3", 4x4", 4x4.5", 4x6", 4.5x3", 4.5x4", 4.5x4.5", 4.5x6", and 4.5x8"
      - The 2" cut mode delivers 3 ea 2x4" strips using 4x6 media, and 4 ea 2x4.5" strips using 4.5x8" media
- Driver issues resolved include:
      - multi-cut, multi-image printing error corrected for DS80/DS820 8x6"and 8x5" images.
      - custom color adjustments were effective only on first printout of a multi-print job, has been correct to affect all print in the print job.
      - new and improved ICC profiles are included in the build for QW410. These are user selectable using Mac Color Sync utility.

- The metric A4 print sizes and 6x9" print sizes are removed from US Mac driver package. (Use the global Mac driver when using these print media sizes where available in other global regions.)

** Added driver features for v 5.1.9 – September 2020:
   – Add new OS-X 10.15 security descriptor for install package from authorized developer.

- For QW410 printer
   – Improve the Decurl control to add Auto decurl to On and Off.
      o Default is Auto Decurl.
      o The Auto Decurl function also supports date driven intelligent decurl operation based on media age.
   – Add support for Automatic ICC profile assignment for SD and PD media types at first connection. Other color profiles are also resident for users to select. Limitations: The default profile assignment will occur only at initial printer connection with the driver.
   – Prevent job from sending to printer when selecting 4.5x8 size on smaller physical media 4x6.
   – Gray-out (hide/disable) High Density mode in GUI for QW410 but allow High Density mode for 820.
   – Added Low Speed mode check box QW410 GUI. Gray-out for other printer models.
   – Driver install security warning. If this happens right click to override and install the driver.
   – Color profiles are added for various color tones and color reproduction qualities
   – Color profiles are added for the DNP Luxury Media profiles in the resident profile Color Sync collection.

- For DS820 printer
   – Add support for Automatic ICC profile assignment for SD and PP media types. Similar to QW410 functionality and limitation of auto assignment at first printer connection with the driver.
      The driver also delivers other color profiles for users to select.
   – Color profiles are added for various color tones and color reproduction qualities
   – Color profiles are added for the DNP Luxury Media profiles in the resident profile Color Sync collection.

** Added driver features for v 5.1.2 – January 2020:
- Add QW410 printer support
      - The QW410 supports Decurl function control

** Added driver features for v 5.0.14 – April 2018:
- For DS-620 – Fine Matte finish is added to the standard Glossy, Matte, and Luster finish selections.
      Note: Printer firmware version v 1.52 required.
- For RX1HS Print cut sizes are added, v2.06 firmware required
      6x6 for 6x8 print media
      5x5 for 5x7 print media
- For DS-40 Print cut sizes are added, v1.61 firmware required
      6x6 for 6x8 print media
- Mac OS supported 10.13, 10.12, and 10.11
- The Mac driver Uninstaller has been updated and signed for use with Mac OS-X thru 10.13 High Sierra

** Added driver features for v 5.0.4x – Nov 2016:
- Support for the DS-820 printers
- Hi-Density Printing function, provided higher D-max
- Print Pack media selections for DS-820:
    o Pure Premium and
    o Standard Density
- New Additional Surface Finish types are added:
  o For DS-620 and DS620A
  – Luster finish is added to Glossy and Matte finish selection.
  o For DS-820 and DS820A
  – Luster and Fine Matte finish are added to Glossy and Matte finish.
- Support for the new Print Media Size print pack: A4
- New Print Pack Media Size A4 (Far East area)
- Printer Error Retry Control; On / Off
- Printer Status Information
  o Printer Model Name
  o Printer Firmware version
  o Media Type loaded, both size and grade

** Added driver features for v 5.0.26 - Oct 2015:
- Multi Language support message support
- Metric and Imperial print sizes - auto selected by Mac settings
- Additional Cuts and Templates are available for certain printers.
- The driver fully supports iSerial printer identification functions; enabling the iSerial function in DNP printers supporting the function may be necessary using the separate DNP app.
- Printers where iSerial can be enabled are the DS620 after update to firmware v1.21 or greater; and the RX1 updated with firmware v 2.x04 or greater. Newer printers may have this firmware factory installed and iSerial already enabled.
- The 2" cut modes are available for all printers on supported media sizes.
- Some functions and media sizes are available in only in certain regions.
Support for 6x9 media is added for the DS620 printer (only available in Eastern Hemisphere sales regions)
Support for Ribbon Rewind function for DS620 and DS820; (only available in Eastern Hemisphere sales regions)
- Local Language support is added for select areas.

-- Version specific operation items:
For DS-40
- The 2" cut strips feature is available from firmware version 1.4 and above, hardware mod may be required for reliable operation of the cutter mechanism.
- Print Retry from recoverable error support available for firmware 1.3 and above

For DS-620:

- Support of 6x9 media is available with firmware version 1.10 and above.
- DS-620 updated from v1.0 to v1.34 or later require the iSerial to be enabled using the separate utility app. Download it from the DNP website.

For RX1HS
- Support for iSerial available on RX1HS Fw v 2.04 and above.
- RX1 updated from v1.x to v2.x firmware and older RX1HS printers require the iSerial to be enabled using the separate utility app. Download it from the DNP website.

KNOWN OPERATIONAL ISSUES:
Printing presets may not save all the setting. Check the settings for each print job.

White borders function of the Mac print command is not functional for most print sizes in this version. The Hairline border occurs out in the over bleed area of the print. Use a photo editing app to create white borders in the image if desired.

The Test Print function of the Mac print spooler does not function for several printer models, all printers will print digital images.

Printer pooling is not supported from OS 10.9.4 unless iSerial is enabled in the printer.

Cut sizes produced with the DS-80 Duplex may end with an error condition; power cycle the printer twice to clear the error.

iSerial USB support in DNP Printers iSerial Utility:
For proper operation of DNP photo printers on the Mac OS-X platform the iSerial functions of the printer should be enabled. DNP offers a software utility app to enable the iSerial function of the DNP printer. The app is used to verify and change the state of iSerial function and can set on or off as desired. This tool is available for download on the DNP website; it currently supports the DS-620 and DS-620A printers with firmware v 1.10 or greater, and RX1 when updated with firmware v2.04 or greater.

NOTE: Newer production builds of the DNP DS-620A and DS-620 and RX1HS printers provide support the iSerial function from the factory. Older vintage printers of these model types can have their firmware updated to support iSerial functionality. DNP may release updated printer firmware with iSerial support for other DNP photo printer models in the future.

Operation Note: Printers with iSerial disabled or printers that do not have iSerial functionality and therefore not enabled may experience some mis-operation, most notably only one DNP printer can be connected at a time to a Mac. This is detailed elsewhere in this file.
Other known limitations and issues noted below.

iSerial Function Info:

The Mac system will exhibit certain operation anomalies with Mac OS 10.9.4 and above OS when the iSerial function is not enabled or not available in the DNP printer. Enabling the iSerial function of the DNP printer will correct these known issues. The issues which may be exhibited are as follows:

1. Printer may show as offline but it is still functional.
Your printer may show as 'Offline' in Mac OS. However, even though Mac OS reports that the printer is offline, as long as there aren't any error lights on the printer, the user is still able to print. Simply print from the Print dialog like normal and your images will be printed. Enable the iSerial function to correct this condition.

2. The computer does not support multiple printers of the same make and model. OS-X 10.9.4 and above.
Issue and Fix
For DNP printers without iSerial USB functionality, only connect one printer of a single model to the computer at any time. While multiple printer queues will be created for each attached printer, the system cannot differentiate between two or more printers of the same model and will send all print jobs to only one printer.
Fix - Enable the iSerial function to correct this condition.
With iSerial enabled on all printers, having multiple printers and-or different DNP models connected simultaneously is supported e.g. DS-820(A) and DS620(A) or RX1HS or QW410.

Other Known Limitations:

Due to the design of Mac OS
- The image preview in the printer panel will not reflect any color adjustments you make within the driver.

- The printer will always default to the US Letter system default print size rather than a printer media size. Make sure you confirm the proper paper size before you hit the print button.

- This driver is confirmed to work on OS-12 Monterey, OS-11 Big Sur, and OS-10 Catalina except as noted. The driver may work with some limitations on older OS versions, but basic features should work.

- The 2 inch cut is not supported on 4x6 multi-page operations on 6x8 media.

- If you wish to print 4up 2x6 on a single 6x8 panel, please print as a 6x8 image.

- When using the multi-cut combo size function, the image canvas will be cut to the sizes of the multi-cut. The application software is responsible to perform the image layout on the full canvas size for the multi-cut to be effective.

Certain Mac computers OS have exhibited slow job spooling (>45 seconds for a print job to begin). It has been reported that performing HDD diagnostic scan and repair may correct this condition.

If you have more questions about this driver or using your DNP IAM printers, contact DNP support:

Support contacts for DNP customers in North and South America:
DNP IAM Technical Support
North America 1-855-367-7604 or +1-980-777-1178
Latin America 1-855-367-8008 or +1-980-777-1175
Email: dnpsupport@dnp.imgcomm.com

For support in other areas, contact your local DNP dealer or support agent.

Notes:
* Current DNP printers support iSerial functionality, other older legacy printers do not. iSerial functionality is required when connecting multiple DNP printer to a Mac OS-X.
** Some new features and print sizes require the complementary firmware update and printer driver update to enable the function.
*** Print media pack sizes are limited to certain sales regions, check with your local reseller.

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