README DNP DS620 Printer v4.31 Firmware Update Utility
2022-11

General Information:
This firmware update utility will install v4.31 firmware onto the DS-620
or DS-620A photo printer. Installing this firmware will add certain
functionality to the printer. See the list of feature improvements
listed below under firmware revision history.

Installing the most current firmware version will include all
improvements of the previous firmware updates. Installing each of the
incremental updates are not necessary.

Important Note:
The v4.xx firmware for DS620 is backwards compatible. It is supported in
all current and older gen DS620 printers. However, the new v4 generation
DS620 printers starting in late 2022 cannot accept older v1.xx firmware
versions, these are identified by Serial Number prefix "DA6C"xxxxxxxx.
The previous gen DS620 printers up to late 2022 have a SN prefix
"DS6C"xxxxxxxx and can accept the v4.xx firmware or the older v1.xx
firmware.

The firmware update utility for Mac supports versions Mac OS-13 Ventura,
OS-12 Monterey and OS-11 Catalina. It may operate on previous Mac OS, but
older OS is not supported.

Brief Operation Information for the Update Utility:
To use this firmware update, please review the detailed install
instructions that accompany the update utility or download it from the
DNP web site.

Ensure the printer is Idle and has print media loaded.
After unzipping (ZIP) the files save the contents to your computer
desktop or folder.
Review the update installation information, then run the update
application file.

Summary of directions:
1- Confirm your DS620A printer is connected and powered on.
3- Select the folder with the correct version of the update tool, double
click correct folder.
4- Double click the Firmware Update file DS620_v431…
5- Follow the directions of the application as prompted.

NOTE: The LEDs on the printer will flash while the firmware is being
updated.
The printer will "beep" several times during this process.

Wait until the process has completed. There are two parts of the update
that will occur automatically.

DO NOT interrupt the process.

A Dialog box will appear indicating completion.

-The entire process will take about a minute to complete.

When the update begins, a NOTICE window will appear, informing you of certain criteria concerning the installation of the firmware onto the target printer. In particular, the notice points out the one-way nature of the update.

NOTE: The LEDs on the printer will flash while the firmware is being updated.
The printer will "beep" several times during this process.

IMPORTANT CAUTION NOTE:
DO NOT interrupt the firmware update process once it starts; doing so could damage the printer.

DO NOT turn off or disconnect the printer or PC during this process. DO NOT unplug the data cable, or open the printer front door, or interrupt the update process in any way. The printer may be permanently damaged requiring costly repair.

NOTICE:
This firmware installation CAN NOT be reversed or uninstalled.

The firmware may be installed onto a DS-DS-620 or DS-620A printer that is less than or equal to the firmware version in the update utility. Once updated with this firmware update package, a lower version firmware cannot be installed.

The DS620 mainboard will transition to a new FPGA in late 2022 and will us FW version 4xx going forward. The predecessor DS620 tup to this transition can accept v1.x firmware and the new v4.x firmware. The newer ones cannot be The v4.31 firmware will support both the current

DS-620 Firmware Revision History
Feature Functionality Improvements:

DS-620 v4.31 release 2022-10
   - Provides backwards compatibility. Supports both new and old design
     printer mainboard chip sets.
   - Optimizes the printer initialization routine to minimize media
     consumption at print pack reloading.
   - Maintains the compatibility of the previous vintage DS620 printers
     with newer generation DS620 printers.

DS-620 v1.62 updated release 2020-09
Update security descriptors of DS40 Firmware Utility for Mac OS 10.15
- The firmware version is unchanged.

- Improves ribbon panel detection for aging printers. Renews the sensor data during paper initialization.

DS-620 v1.52 release 2017-07
- Added support for additional overcoat surface finish Fine Matte*.
- 300dpi throughput improvement for Matte finish printing.
- Printing throughput improvement for Partial Matte print mode.
- Implemented a countermeasure for scrap cut misalignment for L-2 layout printing. **

DS-620 v1.41 release 2016-11
- Added support for Continuous Panorama Printing**.
- Add partial matte function**.
- Implemented a countermeasure for rare unexpected reboot.

DS-620 v1.34 release 2016-04
- Added support for additional surface finish Luster Matte*.
- Implemented a counter measure for rare head position error.

DS-620 v1.21 release 2015-06
- Added Support for iSERIAL USB functionality*.
- Implemented a counter measure for rare ribbon rewinding error.

DS-620 v1.10 release 2015-04
- Added support for 6x9 print media, and related printout sizes**.

Notes:
* Some new features and print sizes require the complementary printer driver update to enable the function.
** Print media pack sizes are limited to certain sales regions, check with your local reseller.

Release Notes for iSerial USB functionality:
Operational and usability improvements of the printer on Windows and Mac platform computers can be achieved with the addition of iSerial USB functionality. After the firmware is installed, the iSerial function must be enabled using a separate utility available from the DNP web site.

With iSerial Function Enabled the following improvements occur:

- For Windows, with iSerial enabled the driver iteration DS-620 Copy 1, DS-620 Copy 2, etc are eliminated when the printer is reconnected to a different USB port. After the first reconnect after the FW update, it will automatically reconnect to any USB port on the PC the DS-620 was previously connected without creating another driver copy iteration.

- For the Mac Platform, with iSerial enabled this printer feature will allow multiple DS-620 printers to be connected to the Mac. All connected DNP DS printers must have iSerial enabled for proper operation in a multi printer environment.

NOTICE: The separate iSerial Enable Tool must be run to turn on, enabling
the iSerial functionality for all DS-620 printers and DS-620A printers
produced prior to 2016-01. All DS-620 and DS-620A printers are factory
enabled onward from SN: DS6X59007831.

Other Resources:
To find the firmware version of the DS-620 printer, check the Printer
Info Tab of the DNP printer driver preferences. Or download the DNP
Printer Info Tool app that support all DNP photo printers from the DNP
website: http://www.dnpphoto.com/Support/Downloads

Windows and Mac Print Center Drivers, Printer and Driver Documentation,
as well as product literature may also be downloaded from the DNP
website.

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