JDC2 IP

V2.0.0 - Firmware Update Guide

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GLP® JDC2 IP V2.0.1 Firmware Update Guide

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1. General Information

1.1. Introduction

With firmware version 2.0.1 or higher for the GLP JDC2 IP, GLP has been offering a revised firmware version since May 2026 that significantly simplifies the configuration and setup process of the devices. This update greatly facilitates device positioning and significantly optimizes the handling of DigiFX and NDI content. The introduction of a definable canvas area in V2.0.1 now allows for pixel-precise work and positionally accurate switching between NDI and DigiFX.

Due to the significant functional optimizations in firmware V2.0.1 or higher, a revision and change to the DMX channels and the DMX layout were necessary. Please note that the new firmware V2.0.1 or higher is not show- and patch-compatible with previous versions.

Please ensure the correct firmware version is installed on the devices during planning, pre-programming, and show execution!

The new firmware version V2.0.1 or higher mainly differs by the addition of further DMX channels (DMX channel quantity) and by a revised control method for the DigiFX on the plate module. The standard base functions as well as the individual segment control of the Beam and Plate modules have not been significantly changed.

Therefore, a show file created on previous firmware can be adapted relatively easily for use with JDC2 V2.0.1 or higher.

To do this, the fixture patch must first be adjusted to match the increased DMX channel count. In the second step, the fixture itself must be replaced. Since the base channels (excluding DigiFX) retain the same functionality, a professional DMX console should automatically translate the channels correctly during the fixture replacement process. If DigiFX/NDI functions were used in the original show file, these will need to be reconfigured and adjusted accordingly.

This guide provides users with additional help for updating the device firmware. It is strongly advised to read the official "GLP Firmware Change Log" carefully before the update process. The GLP Firmware Change Log file can be found in the Firmware download portal.

1.2. Required equipment for update:

- **GLP iQ.Tool -** *running iQ.Mesh version Fw: 6.0.33 or higher*
- **Smart Mobile Device (iOS)**
  running the GLP iQ.Service App V2.7.3 or higher
- **DMX Cable**
  for the bootloader update the fixtures need to be connected (via DMX cable) to a GLP iQ.Tool.
- **Ethernet Adapter & Ethernet Cable**
  For the main firmware update the fixtures need to be connected (via DMX cable) to an iQ.Tool AND via ethernet cable and ethernet adapter to a smart mobile device (iOS).

1.3. Update Process Information

For fully updating the JDC2 from version 0.6.1. or higher to version 2.0.1 or higher it is necessary to update in **two mandatory** and **one recommended step** to be done in sequence.

I. Bootloader Update to V3.4.1 (mandatory)

For the bootloader update the fixtures need to be connected via DMX to an iQ.Tool. Use the GLP iQ.Service App in combination with a GLP iQ.Tool to set up a DMX/XLR RS485 connection with the device. You can daisy chain fixtures via DMX/XLR for this.

II. Firmware update to V2.0.1 (mandatory)

For the main firmware update the fixtures need to be connected via DMX Link with an iQ.Tool **AND** via Ethernet to an Smart Mobile Device (iOS)**.**
(For update via Windows PC contact GLP Service).

III. GLP iQ.Mesh update (recommended)

It is most likely that an iQ.Mesh software update is suggested as well.
Please perform this after the bootloader and main firmware update.

Depending on the production lot the iQ.Mesh update will not work on all fixtures. If the update does not work, please contact your local distributor.

This update must be performed then in GLP headquarters. The regular function and work via DMX and Ethernet are not affected, only the iQ.Mesh will not work.

1.4. IMPORTANT INFORMATION

This version will change DigiFX and other internal effects and timings which can be critical for pre-programming or running shows programmed on previews firmware versions.

This guide is for JDC2 running version 0.6.1. or higher.
Please check this on the top left corner of the unit's display.
Do not proceed if the unit is running another software Version.

After the firmware update, the DMX Address, DMX Mode and Fixture Settings could be set to default values.

Please make sure your mobile device for update has an internet connection during the whole process

Precaution / before the update:

Please connect your fixtures via DMX AND Ethernet.
Make sure your Ethernet adapter and fixtures are on the same network settings and check if you see the fixtures via the iQ.Service App.

You just may use the default DHCP and have your fixtures for example at 169.254.x.x/16 DHCP and your USB-C to ethernet adapter on 169.254.0.2 / 255.255.0.0

This can be set in the iOS settings on your iPhone as soon as an adapter is connected.

This guide provides users with additional help for updating the device firmware. It is strongly advised to read the official "GLP Firmware Change Log" carefully before the update process. The GLP Firmware Change Log file can be found in the Firmware download portal.

2. How to Update the JDC2 device

I. Bootloader Update to V3.4.1 (mandatory)

a.) Connect your JDC2 devices to power.
Connect your JDC2 devices via DMX link to a GLP iQ.Tool.
Ensure that all the JDC2 relates to stabile power supply and DMX link.

Note: For update multiple fixtures in one step you can daisy chain fixtures via DMX/XLR for this.

b.) Open the "***GLP iQ.Service App***" on your mobile device.

"***Swipe down***" for discovery devices
(will scan to discover wireless available iQ.Mesh devices)

➔ *You should now see the GLP iQ.Tool which is connected to the JDC2 devices you want to update.*

c.) Select the wireless discovered "***GLP iQ.Tool***".

Click "***Fixture Discovery***"
(will scan to discover physical connected devices)

➔ *You should now see all the JDC2 devices connected to your GLP iQ.Tool*

d.) Choose from the upper right toolbox ***"Fixture Update".***

Select "***Bootloader Updates***" then "***JDC2 IP***" *and Version "****3.4.1****"*

Click ***"UPDATE"*** *to start the update process.*

<u>The display will go off and could stay off.</u>

If you are coming from V0.7.1.7, the display will turn ON again.

Please wait for the 5-minute timer running in the app in any case for the internal firmware distribution, until the app asks you to proceed with step 2.

II. Firmware update for main version to V2.0.1 (mandatory)

After the timer has finished, the app will automatically suggest the main firmware update.

a.) Confirm the warning with „OK“ and select the main firmware 2.0.1

b.) Choose the correct ethernet adapter
(if not listed, go to ethernet adapter configuration in your mobile device and set the adapter to the same IP range as the JDC2s are.)

c.) *Click **“UPDATE”** to start the update process.*

The transfer of the main firmware V 2.0.1 needs about 45 seconds. After the transfer, the internal software distribution will take about two more minutes.

During this time the display will show also a red error screen.
Please wait for the internal firmware distribution.

After the update, your fixtures will be on factory settings and network settings will be reset.

III. GLP iQ.Mesh update (recommended)

Please perform this GLP iQ.Mesh Module Update after the main firmware update.

a.) Set all GLP JDC2 fixture to iQ.Mesh.
In the "***Main Menu***" go to "***Protocol Setup***", then "***Data In (DMX***)" and set the fixture to "***iQ.Mesh***"

b.) Open the "***GLP iQ.Service App***" on your mobile device.
"***Swipe down***" for discovery devices *(will scan to discover wireless available iQ.Mesh devices)*

➔ *You should now see the GLP JDC2 with Serial Number (example Sn 123456789) and Firmware Versions (Example: Fw 6.0.31 / 2.0.1).*

If the first part of the firmware version is colored red, it is advised to perform an iQ.Mesh Update.

c.) Choose from the upper right toolbox **"iQ.Mesh Update".**
Select "***iQ.Mesh Updates***" and "***iQ.Mesh***"

d.) *Click **"UPDATE"** to start the update process.*

Depending on the production lot, the iQ.Mesh update will not work on any fixtures.

If the update does not work, please contact your local distributor. This update must be performed then at GLP Service.

The regular function and work via DMX and Ethernet are not affected, only the iQ.Mesh will not work.

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