



Optogenetics TTL Pulse Generator

Firmware Update Guide

Version 1.2.0

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Firmware Installation

1.1 Procedure

Important Note: Microsoft Windows 8 users should contact Doric Lenses technical support before proceeding to firmware upgrade. If possible, we recommend to perform firmware upgrade with a computer working under Microsoft Windows 7 or 10.

1. Connect the USB cable to the USB-B port on the OTPG.
2. Connect the USB cable to the computer.
3. Make sure your software is updated. Go to our [website](#) to download the latest version.
4. Start the software *Doric Neuroscience Studio*.
5. In the software, click on **Hardware**. A drop-down menu is shown.
6. Click on **Device Manager**. This will show the connected device, and allow you to verify the firmware version installed on your device (Fig. 1.1). Verify that the versions you have to install are higher versions than the ones already installed.

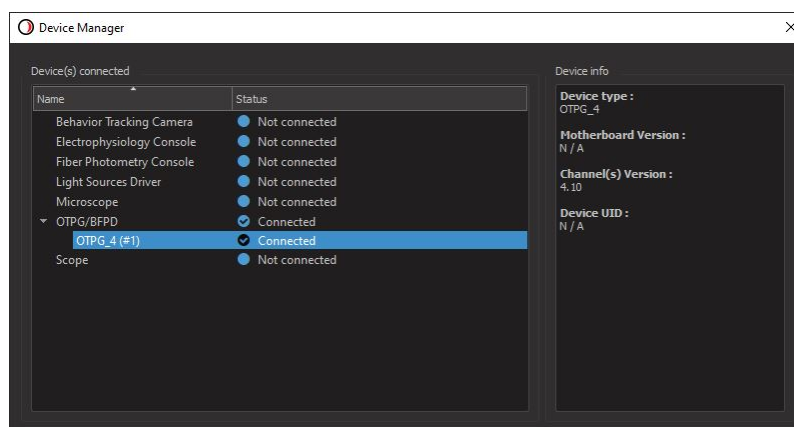


Figure 1.1: Device Manager

7. Leave the **Device Manager** and return to the Hardware drop-down menu. Click **Update OTPG_4 / OTPG_8 / BFPD**. This will open the **OTPG/BFPD Firmware Updater** (Fig. 1.2), and will also shut down the normal connection between the device and the software.

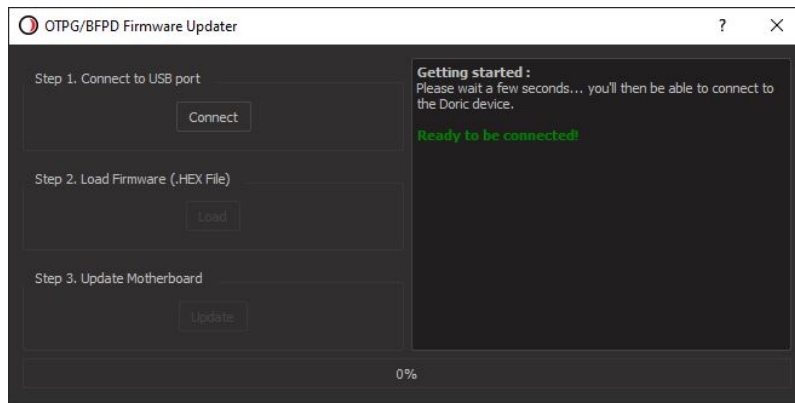


Figure 1.2: Firmware Updater Window

8. Click the **Connect** button, which will connect the updater to the device (Fig. 1.3).

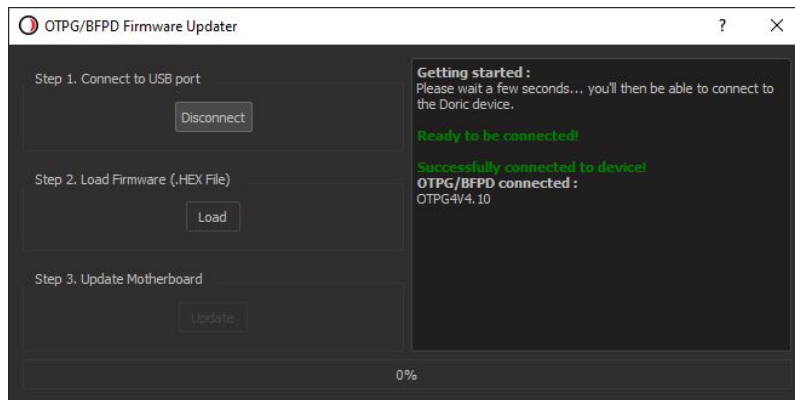


Figure 1.3: Firmware Updater, Connection

9. Click on **Load** and select the file with the name **OTPG(X).V(Y).(Z).production.hex**, where (X) is the number of channels and (Y).(Z) is the version of the firmware.
10. After **Hex File Loaded Successfully** appears, Click on **Update** (Fig. 1.4) to begin the update process. The **Progression Bar** will show the advancement of the update in %.

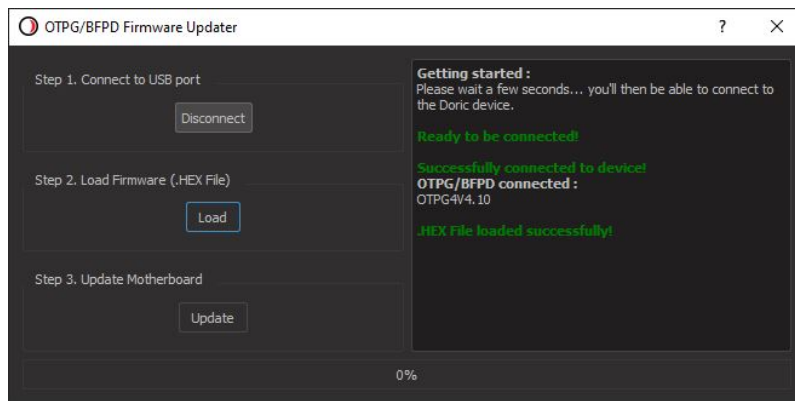


Figure 1.4: Firmware Updater, Update Firmware

11. Once the update is complete, the text box will say **Firmware update successfully done!** (Fig. 1.5).

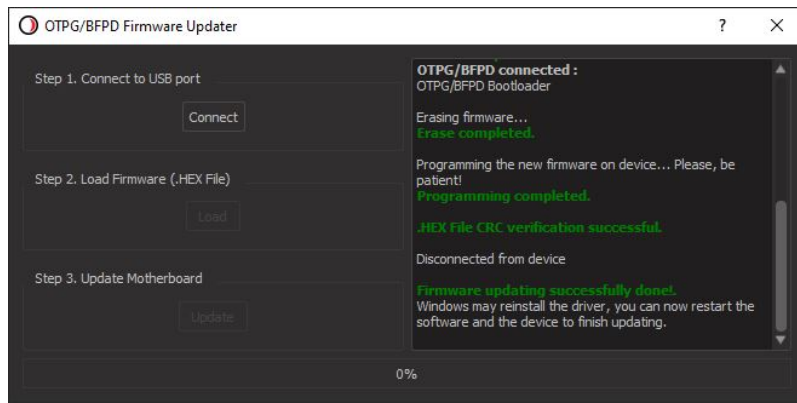


Figure 1.5: *Firmware Updater, Successful Update*

12. Restart the software.
13. Once the software is restarted, return to the **Device Manager**. The updated device should show new versions for the software. In the current example, only the motherboard software was updated to a new version.

Support

2.1 Contact us

For any questions or comments, do not hesitate to contact us by:

Phone 1-418-877-5600

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