

Changing the Firmware for the LV power supplies at the NOVA Far Detector

The LV power supplies at the Far Detector are currently running with the firmware version 2.1.0.24 – except one LV power supply which runs 2.1.0.17. However, this old firmware version does not allow changing the temperature threshold for the supervision control. In order to upgrade the firmware, the following procedures need to be followed.

1. Prepare the Laptop for the driver installation if you use 64-bit Windows

64-bit Windows 7 (and perhaps 64-bit Windows Vista) requires “digitally signed” drivers. However, the driver needed for the power supplies is not “digitally signed”, and cannot be installed unless the check for the digital signature is turned off. **This needs to be done before the first attempt. If not, the plug-and-play installation will give an error message, and any further attempt will fail.**

- Go to the Start menu on the Windows desktop.
- Type cmd.exe (but do not press enter).
- Press ctrl-shift-enter (this starts the terminal with administrator privileges).
- Type
bcdedit.exe /set nointegritychecks on
bcdedit.exe /set testsigning on
- Exit the terminal.
- Reboot the computer.

2. Muse Control (can be skipped if Muse Control is already installed)

- Download the file MUSEcontrolInstall-2.1.1563.0.exe from this doc-db entry.
- Install the MUSEControl Software.

3. Get the firmware

- Download the file MUSE-2.1.0.24.out from this doc-db entry.

4. Install the firmware on the HV power supply

- Turn the HV main frame on.
- Use a Type A-to-Type B USB cable to connect the computer with the LV power supply. This will install a new driver.
- Start MUSEControl.
- An error message “No module found” will appear. Press “Ignore”.
- In the MUSEControl menu, go to System – Firmware update.
- Click on the “Browse” button.
- Select the firmware file MUSE-2.1.0.24.out, which you downloaded in the previous step and press Ok.
- Press Ok in the firmware dialog window.
- The installation of the firmware will take about a minute
- You will be prompted to click the “Cancel” button after the installation is complete.