

## 8 Software

### 8.1 Updating the device software

#### Prerequisites

- USB stick with at least 1 GB of memory
- Computer with Windows XP or Windows 7 operating system
- Internet access

#### Downloading the software

1. Create a new folder on the computer and name it as desired.
2. Download the "support.zip" folder from the webpage [www.eppendorf-support.com](http://www.eppendorf-support.com) on to the computer. Save the "support.zip" folder in the folder that was created in the computer.

#### Extracting software to the USB stick

3. Insert the USB stick in the computer.
4. Open the "support.zip" folder using the WinRAR program.

#### The folder contains the following files:

- "Eppendorf" folder
  - "Kernel.img" file
5. Copy both files to the root directory of the USB stick.
  6. If files with the same name already exist on the USB stick, these files will be deleted.
  7. Remove the USB from the computer.

#### Updating software on the Mastercycler nexus

##### Prerequisites

The Mastercycler nexus is switched off.

8. Insert the USB stick in the Mastercycler nexus.
9. Switch on the Mastercycler nexus.

The Mastercycler nexus starts via the USB stick.

A window for entering the password appears.

10. Enter the service PIN.
11. Press the **OK** softkey to confirm the PIN.  
The display shows the software version installed on the device and the software version on the USB stick.
12. Press the **Start** softkey to start the update.  
The software installed on the device is replaced by the software from the USB stick.  
"Update finished" is displayed after the update is complete.

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### Synchronizing the PCB main board and PCB control panel

13. Open the *System* node.
14. Open the *Update* node.
15. Press the *Cycler* softkey.
16. Press the **next** key to go to the *Mastercycler nexus gradient* field.
17. Press the **enter** key.

The drop-down menu displays the connected Cyclers.

18. Select the Mastercycler nexus using the arrow keys.
19. Press the **Enter** key to confirm your selection.
20. Press the *Start* softkey.

A question appears in the display on whether the synchronization should be started.
21. Press the *Yes* softkey to start the synchronization.

The PCB main board and PCB control panel on the Mastercycler nexus will be synchronized. If the Mastercycler nexus eco 1 and 2 are connected to the Mastercycler nexus, the PCB main board of these devices will also be synchronized.

22. Switch the Mastercycler nexus and Mastercycler nexus eco 1 and 2 off and back on.

If the devices are not restarted, undefined errors have occurred.

### Completing the update

23. Switch off the Mastercycler nexus.
24. Remove the USB stick from the Mastercycler nexus.
25. Switch on the Mastercycler nexus.