How to perform a firmware update on the epMotion® 96

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Introduction

The epMotion® 96 is a 96-channel pipettor controlled via Apple iPod touch® or iPhone®. The control software is called epMotion 96 App and can be downloaded from the Apple® AppStore®. Therefore only an Apple ID® is necessary. Each new software version contains new properties such as new modes, setting options and minor bug fixing. To enable the epMotion 96 to perform all these improvements a firmware update needs to be done after a software update. The firmware is automatically downloaded from the AppStore together with the software and can be easily installed via the Wi-Fi connection between the epMotion 96 and the Apple iPod touch or iPhone [1]. This short protocol shows step-by-step how a firmware update is done.

Material and Methods

For performing a firmware update on the epMotion 96 it is necessary to have:
> The epMotion 96 installed and turned on
> The Apple iPod touch or iPhone either in the docking station or charged next to the epMotion 96
> The newest version of the epMotion 96 App software downloaded and installed on the Apple iPod touch or iPhone

Instructions

a) Activate Admin mode (Fig. 1)
> The epMotion 96 must be turned on and connected to the iPod touch with the epMotion 96 app. Make sure that the iPod connects to the epMotion 96’s wireless network.
> Start the app. Press the “Init” button on the screen to ensure that the epMotion 96 is connected to the iPod.
> Press “Info” until admin mode appears as status (~ 5-10 seconds)
> Press “Info” once again and you will enter the firmware screen.
b) Perform the firmware update (Fig. 3)
> Press „Reset connection“
> Turn switch to the left to „load“ (Fig. 2)
> Turn power off and wait until Wi-Fi connection to the iPod is ended. This is indicated by the ☑ disappearing on the upper left side of the iPod touch or iPhone screen
> Turn power on and wait until Wi-Fi connection is back on
> Press „OK“
> Press „Update Firmware“

c) End the firmware update (Fig. 4)
> Wait until firmware update is finished
> Turn switch to the right to „run“ (behind the tip loading frame underneath the pipetting head)
> Press „OK“
> Press „Exit“
> Press „Init“: the status changes from Admin mode to „connected“
> Troubleshooting: Turn the system off and back on to insure proper connectivity between iPod and epMotion 96. If connection is lost, re-enter admin mode and repeat the process.

Figure 2: Switch for firmware updates can be found behind the tip loading frame below the pipetting head.

Figure 3: Starting the firmware update is done in the firmware screen by clicking „OK“ followed by „Update Firmware“.

Figure 4: After a successful firmware update returning to the start screen is done by clicking „OK“ followed by clicking „Exit“.
Literature

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Ordering information

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<th>Description</th>
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<th>Order no. North America</th>
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<td>epMotion® 96, semi-automated electronic pipette for parallel 96 channel microplate processing, (without iPod® controller), 100 - 240 V ±10%/50 - 60 Hz ±5%, 0.5 - 300 µL</td>
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<td>5069000012</td>
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<td>epMotion® 96 with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing, (without iPod® controller), 100 - 240 V ±10%/50 - 60 Hz ±5%, 0.5 - 300 µL</td>
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