

How to perform a firmware update on the epMotion® 96

Hanaë A. Henke, Eppendorf AG, Hamburg, Germany

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 improve-

ments 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 insure 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.

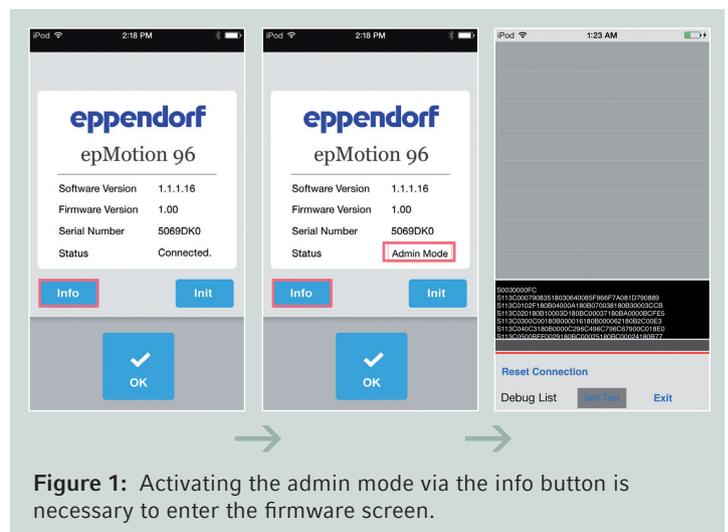


Figure 1: Activating the admin mode via the info button is necessary to enter the firmware screen.

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.

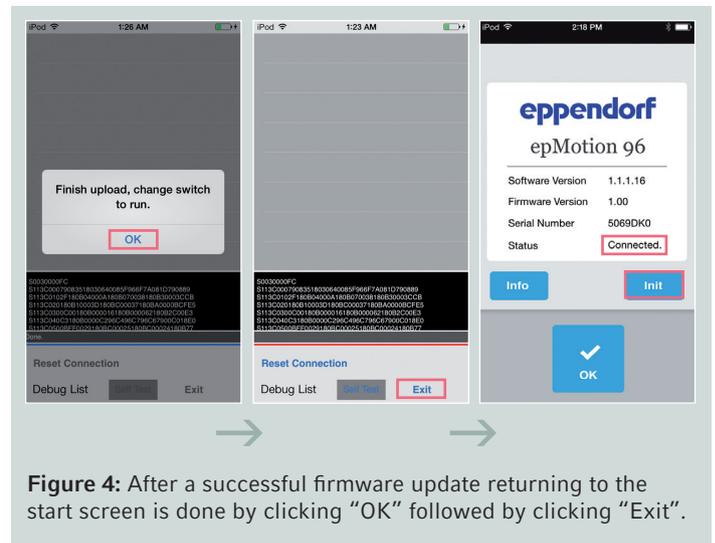


Figure 4: After a successful firmware update returning to the start screen is done by clicking “OK” followed by clicking “Exit”.

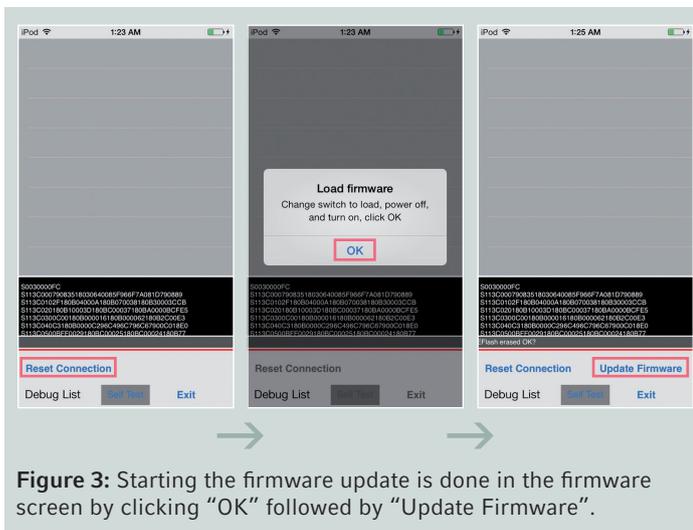


Figure 3: Starting the firmware update is done in the firmware screen by clicking “OK” followed by “Update Firmware”.

Literature

[1] Operating Manual Eppendorf *epMotion*[®] 96. Version 5069 900.056-01/102016
www.eppendorf.com

Ordering information

Description	Order no. international	Order no. North America
epMotion[®] 96 , semi-automated electronic pipette for parallel 96 channel microplate processing, (without iPod [®] controller), 100 - 240 V \pm 10%/50 - 60 Hz \pm 5%, 0.5 - 300 μ L	5069 000.012	5069000012
epMotion[®] 96 with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing, (without iPod [®] controller), 100 - 240 V \pm 10%/50 - 60 Hz \pm 5%, 0.5 - 300 μ L	5069 000.101	5069000101
Upgrade kit 2-position slider	5069 074.008	5069074008

Your local distributor: www.eppendorf.com/contact
 Eppendorf AG · 22331 Hamburg · Germany
eppendorf@eppendorf.com · www.eppendorf.com

www.eppendorf.com

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