

Martin M-Touch firmware Installation Guide

Introduction

This document will guide you through the firmware update procedure for a Martin M-Touch control surface.

When is it needed?

It is vital that the firmware is always up to date to the current M-Series software that is running on your console or M-PC. Not every M-Series software upgrade requires an additional firmware update of your M-Touch control surface though. Please do not perform the firmware update during show time, as it stops running services in the software.

Tools needed

You will need a Martin M-Series console or M-PC with at least release version 3.44.604 installed. You will also need your M-Touch, a standard “A-B” USB cable and a wooden toothpick (no metal object).

Anti-Static Precautions

The firmware update does not require you to open up the M-Touch as all upgrades will be performed within the M-Series software and without external tools. But in case you need do need to open up your console, please take note about the precautions below.

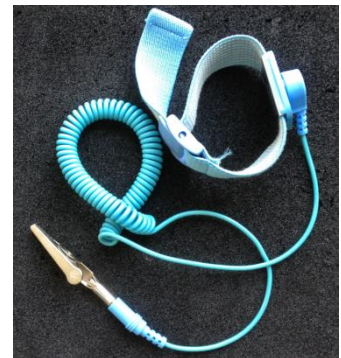
Important! Static electricity can destroy electronic components. Follow these ESD precautions to prevent damage to the product and injury to the user.

Carry out the upgrade at an anti-static workstation.

Wear a grounded anti-static wristband.

Touch a grounded conductor every few minutes to discharge any static buildup.

Hold components by their edges only. Do not touch the surfaces or any of the contacts of the PCB.



Firmware upgrade procedure

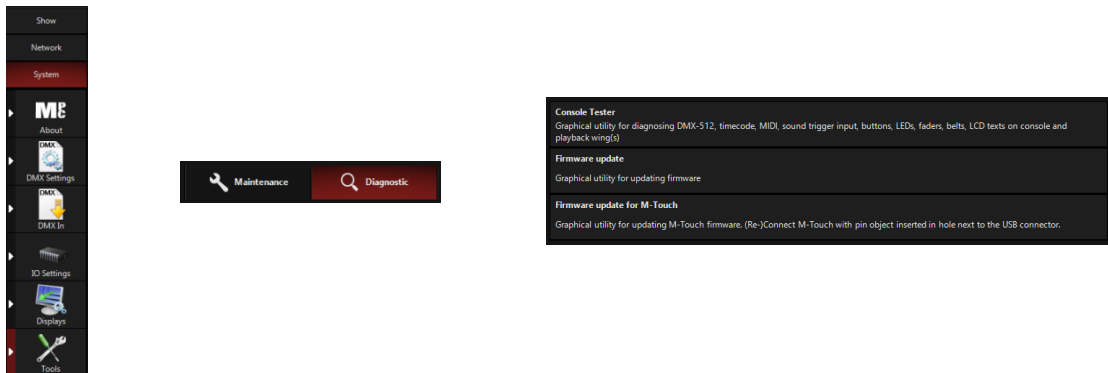
If new firmware is available, it will be copied in a folder on the hard drive or solid state drive on your console (or PC) when the M-series software is being installed.

Installing new firmware will not delete any of your current or backed up show files on the console or PC. Nevertheless, it's always a good idea to have copies of important show files.

You do not need a license key for M-PC if you want to use the **Firmware update** -or **Firmware update for M-Touch** tool. It also runs in 'Free' mode.

Starting up the Firmware Update tool

- Start up your console or M-PC and load/continue a show
- Go into the menu, select the **System** tab and go to the **Tools** section
- In the bottom of the page, select the **Diagnostic** tab
- In the **Tools** section, click on **Firmware update for M-Touch**



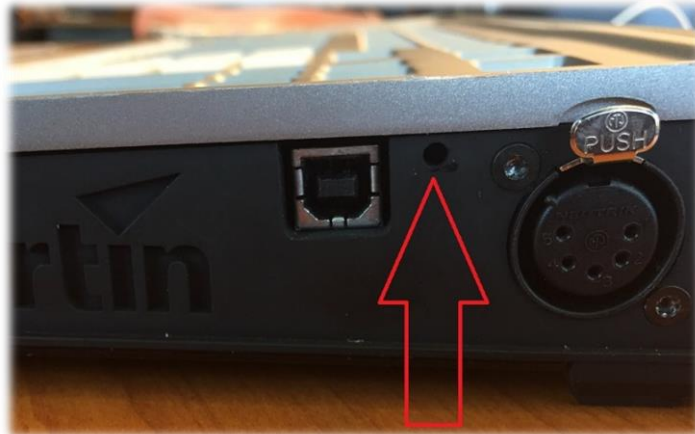
- A popup saying that all services are being stopped, will show up and the **Firmware update for M-Touch** tool is started. A message is shown that the device is not connected.



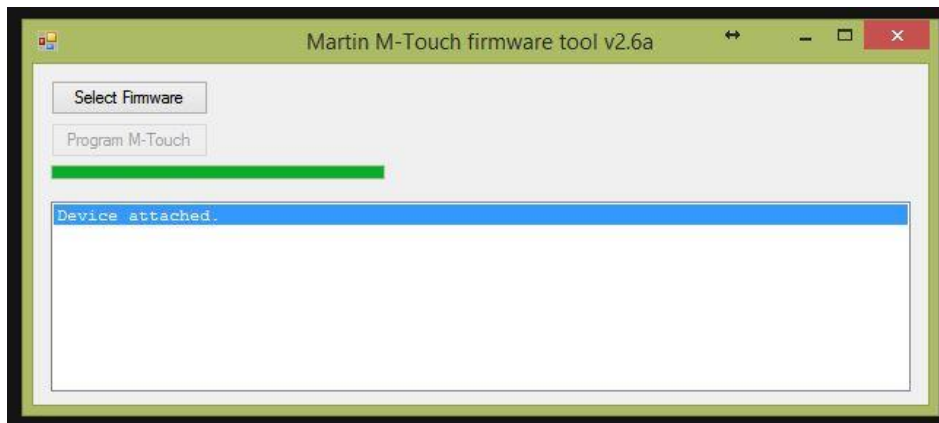
Connecting the M-Touch

To enable a firmware upload to your M-Touch control surface, it needs to be in *bootloader mode*.

- Disconnect the USB cable of the M-Touch from your Martin M-Series console or M-PC, if attached.
- Locate the small hole next to the USB connector on the right hand side of your M-Touch.

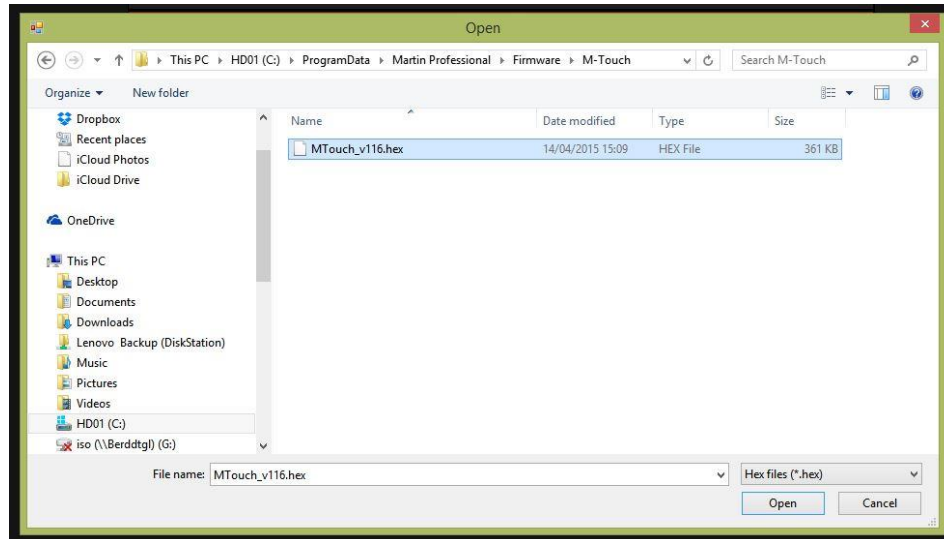


- Now carefully push the little button in the hole with a toothpick. With the button pressed, connect the M-Touch again with the USB cable to your Martin M-Series console or M-PC.
- Your M-Touch control surface is now in *bootloader mode* and the **Firmware update for M-Touch** tool should show you the following:

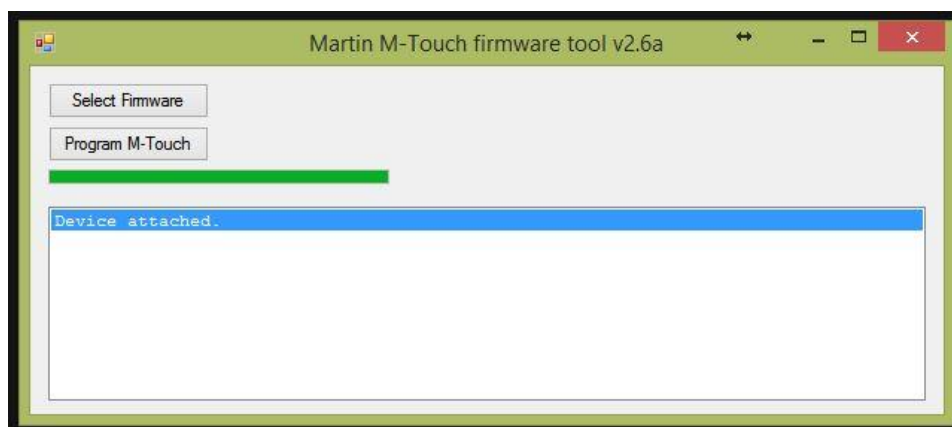


Selecting the correct firmware

- Click on the **Select Firmware** button
- A browser window opens. Open the M-Touch folder and select the MTouch_vXXX.hex file, for the current firmware version. (XXX is the current version number).

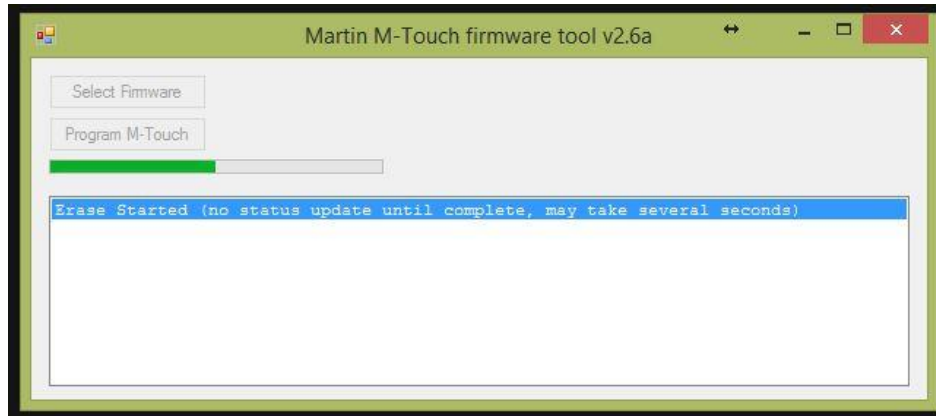


- Click **Open** in the browser window and the **Firmware update for M-Touch** tool should show you the following:

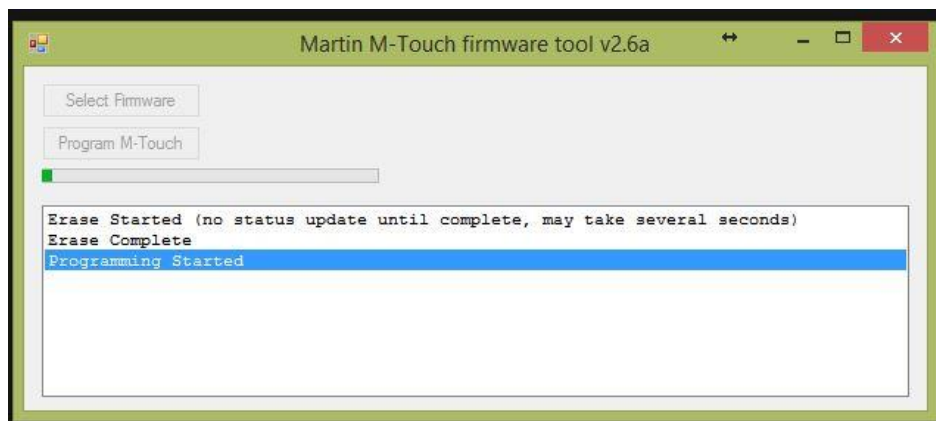


Updating the firmware

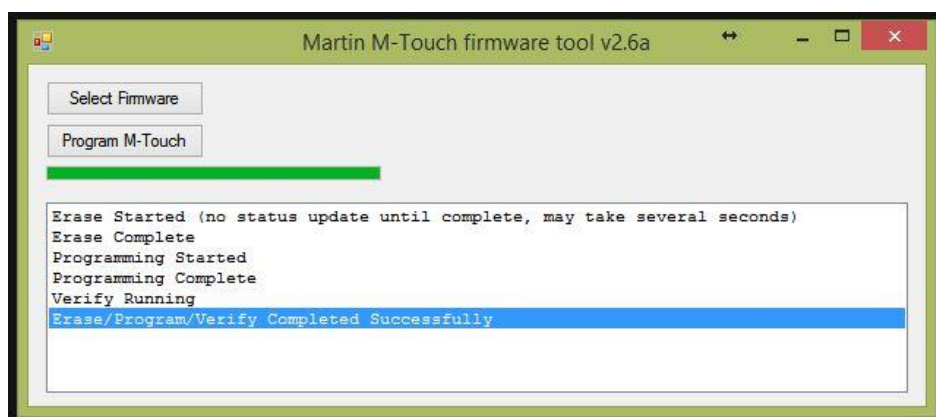
- You are now ready to update the firmware
- Click on the **Program M-Touch** button. The currently active firmware on your M-Touch control surface is now being erased.
! DO NOT REMOVE THE USB CABLE DURING THIS PROCESS !



- The new firmware will be installed automatically afterwards



- When completed successfully, this message is shown:



Completing installation

The firmware update is complete after a restart of the M-Touch. Please close the **Firmware update** tool, disconnect the M-Touch and reconnect. The control surface is now ready for use.

Troubleshooting

- Make sure to use at least release version 3.44.604 of the M-Series software.
- Use a short USB cable
- For assistance, please send an email to controllersupport@martin.dk or call the 24h controller support hotline at +45 8740 0015

Revision	Made by	Description	Approved by	Date
A	Kris Van Hullebusch	Initial version	Chris Foblets	1/07/2015

