



# DT7

Firmware update manual

## INTRODUCTION

The DT7 is equipped with bootloader functionality. This is a piece of software that can be used to update the software inside the DT7. With this technology you are able to update your DT7 to the latest firmware version.

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## Document revisions

Date	Version	Change
10-05-2019	R10	Initial document
02-07-2019	R11	additions to "Updating steps"

# 1 Firmware Update

## What do you need

- A midi program like MIDI OX to send the new firmware file to the DT7  
<http://www.midiox.com/>
- The DT7 firmware file  
<http://www.dtronics.nl/pages/dt7.html>  
The DT7 firmware CHECKSUM file  
<http://www.dtronics.nl/pages/dt7.html>
- MD5 & SHA Checksum Utility  
<https://raylin.wordpress.com/downloads/md5-sha-1-checksum-utility/>

## Current Firmware version DT7

The firmware version of the DT7 is shown while powering up the DT7. When the power is connected the firmware version is shown on the display 104 means Firmware Version V1.04.

## How does it work.

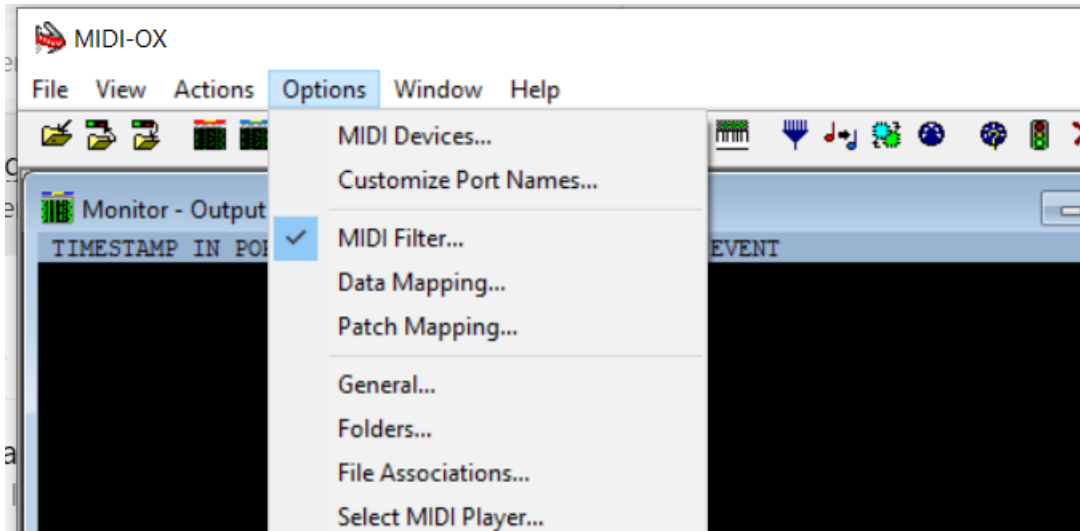
Updating the DT7 is done by sending the new firmware file to the DT7 in System Exclusive format (or simply SysEx).

Updating steps:

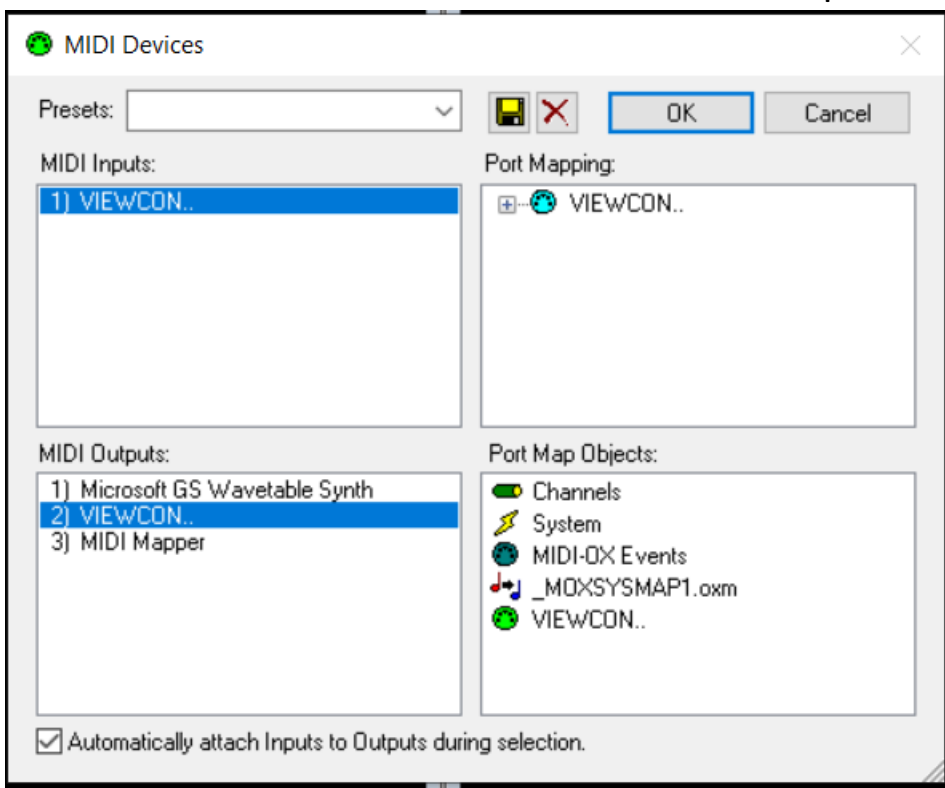
- Download the latest firmware version from our website.
- Check the file checksum with the [MD5 & SHA Checksum Utility](#) It has all the features you need in the free version. Once you download it, simply run the EXE file to open the program and compare the checksum.
- Install a midi program that has SysEx support in this manual we are using MIDI-OX
- Connect the MIDI IN from the DT7 with the MIDI OUT from the computer running the MIDI software

- **Do NOT connect the midi out of the programmer.**

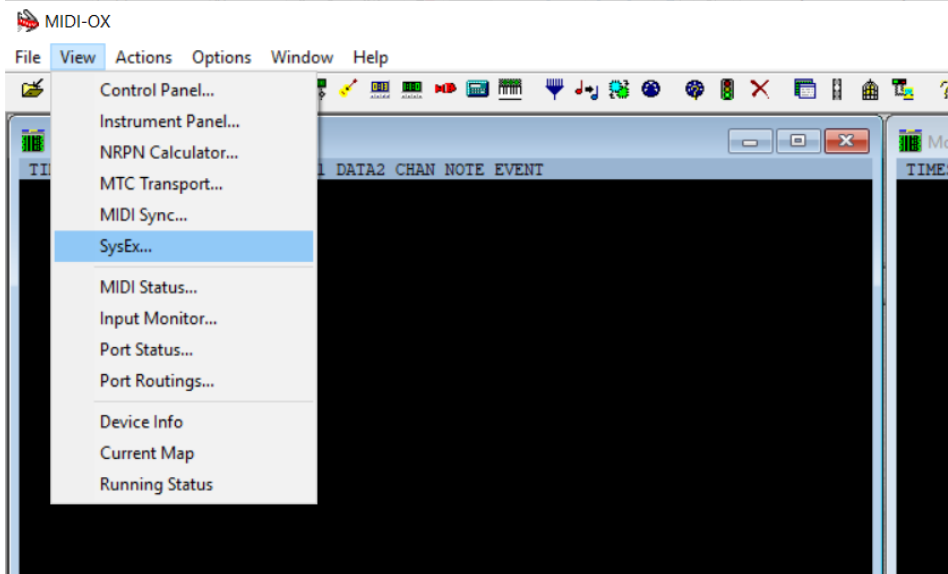
- **HOLD** "INIT" while turning on the DT7.
- Release the "INIT" button, the INIT led will stay on.
- Open MIDI-OX and select the right midi output device that you are using. Menu Options -> MIDI Devices



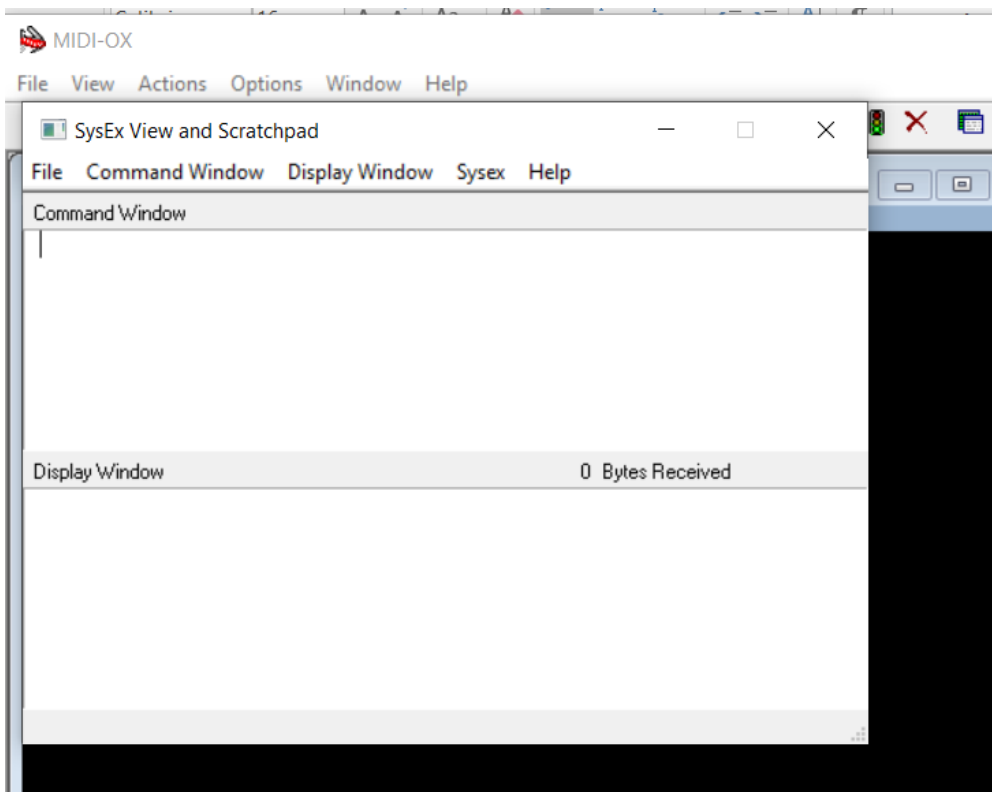
- In the MIDI Devices menu check if the MIDI output device is right



- 
- Navigate to menu **View -> SysEx**

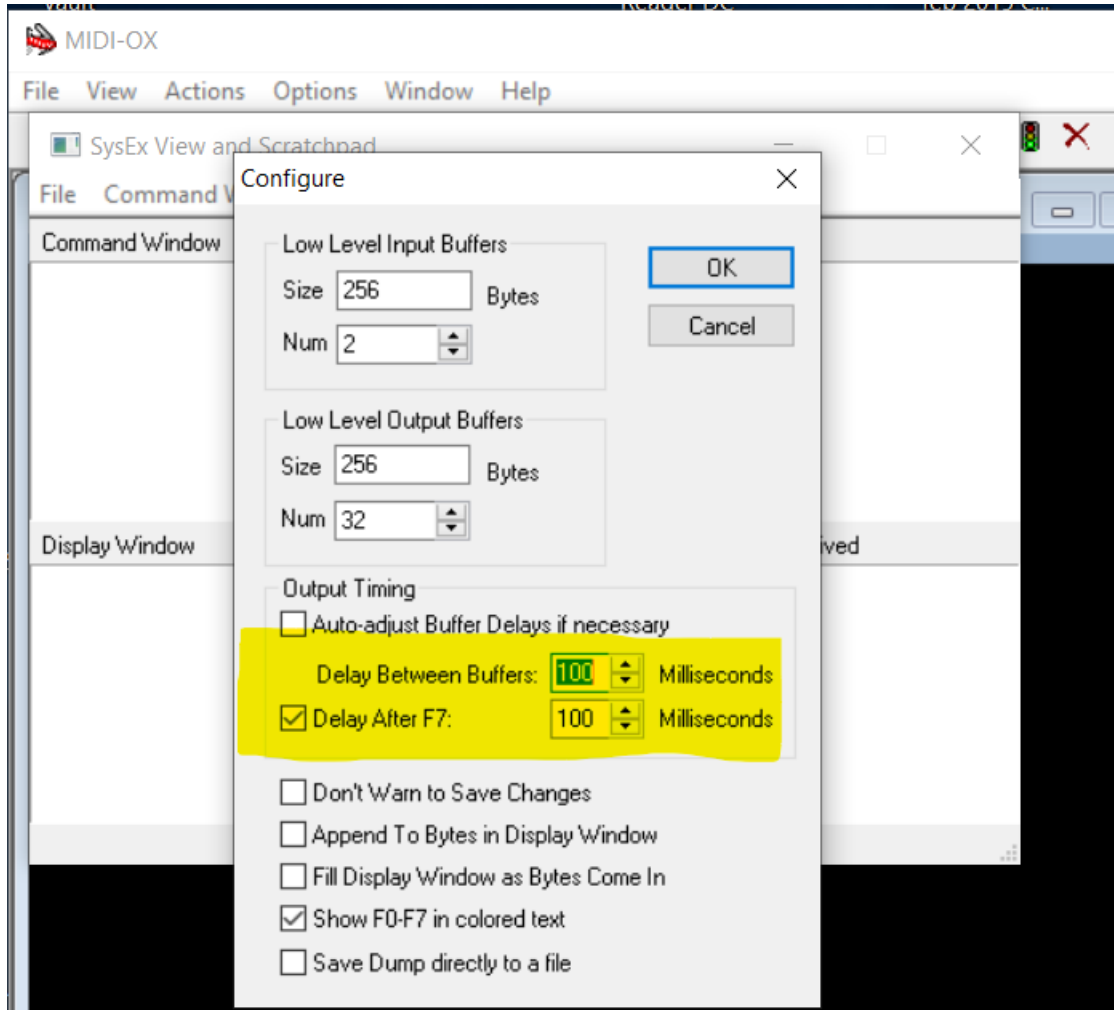


- The SysEx menu will open.

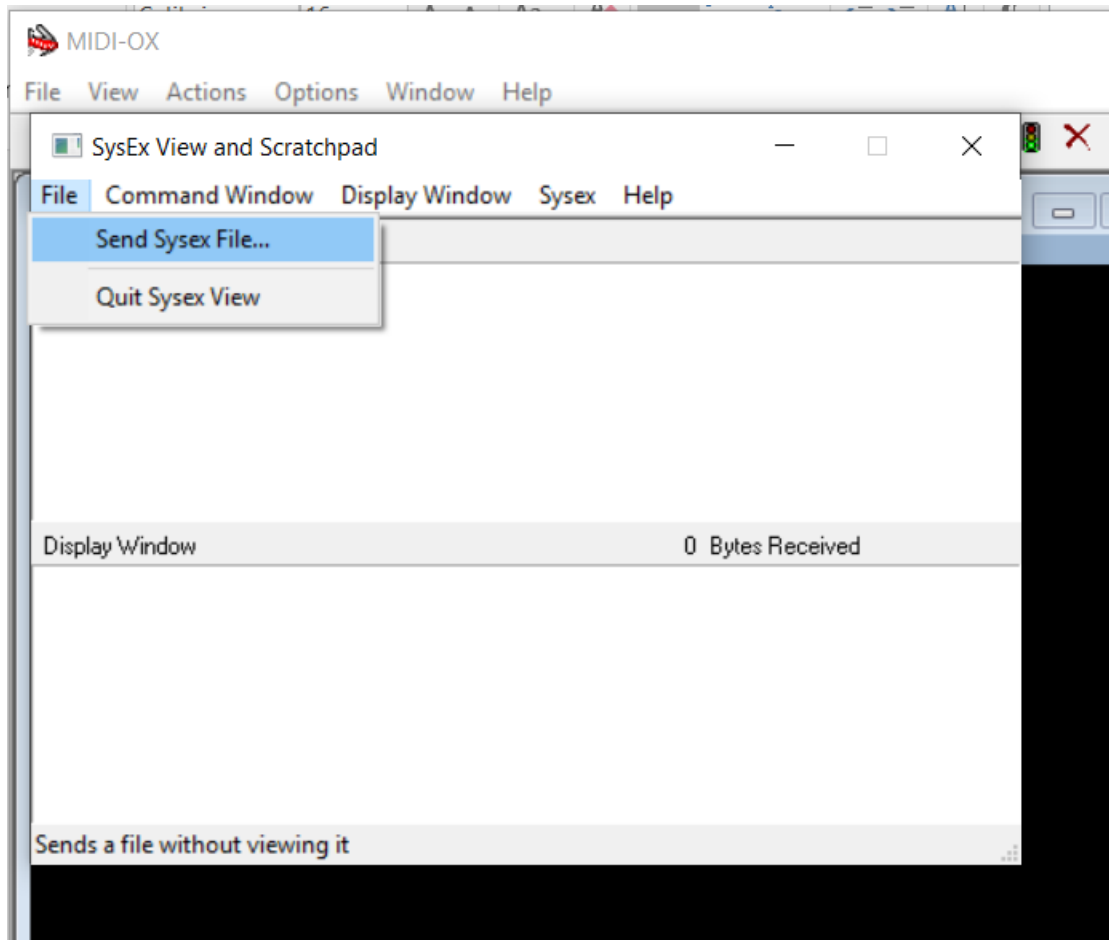




- Navigate to Sysex > Configure  
Set delay between buffers and delay after f7 to 100  
make sure the box before "delay after F7" is checked.



- Click on **File** and select the option Send Sysex File.



- Select the downloaded firmware file and press OK. Uploading the file will take a few minutes.
- the INIT led will blink during uploading.
- After completion, the DT7 will reset and start up and will show the new firmware version.

Any questions please let us know.