

Norand Mono Update procedure

Getting started

To update Mono, you need :

- Mono
- A USB type-B cable
- A computer (any OS will do) connected to the internet
- A sysex transfer software (more informations on that later)
- The “monosynth_Vxxx.syx” file

DISCONNECT MONO AUDIO OUTPUT : The bootloader might send junk data to the analog engine, resulting in very loud signal, you could destroy your equipment !

Connect Mono to the computer with the USB cable, hold PATTERN + RUN, and power the unit. All the LED should be blinking indicating that the synth is waiting for a sysex file.

Updating Mono

OS X : Sysex Librarian

For OS X users, we will show how to update with a utility developed by Snoize - Sysex Librarian. You can get it here <https://www.snoize.com/SysExLibrarian/>

Follow the instructions to install the program. If you wish to use other Sysex software, the procedure should be similar.

- Once it is installed, open Sysex Librarian
- Open Preferences, in “Pause between played messages”, set as close as possible to 1ms (but not 0), the slider is really sensitive there’s no way to put it exactly at one.
- In the main window, on the “destination” drop-down, select Mono
- Click the little “+” at the bottom-left, and select the “monosynth_Vxxx.syx” file
- Click “Play” on the top right, Sysex Librarian starts sending the firmware. The LED on Mono will indicate progress.
- At the end of the send, Mono will copy the program to Flash memory (this takes a few seconds), and then boot normally.
- Done !

Windows : MIDI Sysex Transfer Utility

For windows users, the simplest program is “MIDI Sysex Transfer Utility”. You can download it here : <https://www.microsoft.com/fr-fr/p/midi-sysex-transfer-utility/9pfd4ddwgktn>

Follow the instructions to install the program. If you wish to use other Sysex software, the procedure should be similar.

- Open MIDI Sysex Transfer Utility
- In “MIDI Output Port”, select Mono
- Set “Transfer Delay” at 1
- Click “Pick Sysex File to Send” and select the “monosynth_Vxxx.syx” file
- Click “Validate and send Sysex”, the utility starts sending the firmware. The LED on Mono will indicate progress.
- At the end of the send, Mono will copy the program to Flash memory (this takes a few seconds), and then boot normally.
- Done !

Linux : Amidi

Most Linux distribution comes with a handy command line utility called amidi. If you don't have it on your machine, install it via package manager, I'm assuming that you know the drill.

- Enter the command : `$ amidi -l`
- Mono shows under a particular port number
- Enter the command : `$ amidi -p hw:<PORT_NUMBER> -s <PATH_TO_.SYX> -i 1`
- The utility starts sending the firmware. The LED on Mono will indicate progress.
- At the end of the send, Mono will copy the program to Flash memory (this takes a few seconds), and then boot normally.
- Done !