

Mono V2.0 update procedure

Note : There is a 0% chance of bricking your unit during the update procedure, maybe a step will fail along the way because of corrupted data, or some unknown error, but be assured that it cannot kill your mono. If you encounter difficulties during the update, please contact us at contact@norand.io, we will be glad to help.

Here is a video showing the full procedure :
<https://www.youtube.com/watch?v=4OcXO9kxoQg>

Step 1 : Save your projects

Although V2.0 has been in beta testing for quite some time now, and Mono automatically converts your V1 projects into V2 at first boot, we highly recommend saving your projects on your computer before upgrading. There is a lot of steps in the process and we want to make sure everyone has their projects stored safely, just in case.

To save your projects, proceed as follow :

- Connect Mono to the computer via USB, disconnect all other I/O from Mono, except power of course
- Update your mono with mono_V1.99.syx using the V1 update procedure (the instructions are included). There was a small bug in the project dump code on v1.2.3, so this is important.
- Open your favorite sysex software. We recommend Sysex Librarian on os x, Bome Send SX on windows, and amidi on linux.
- Prepare the software to receive incoming sysex
- Load the project you want to save on Mono
- Hold [FUNC] and press [A#] (Pgm Dump)
- Mono will blink when dumping the projects and becomes usable again at the end of the dump
- Save the resulting .syx file on your computer.
- If you want to verify the project as an extra precautionary step, you can "Pgm Rcv" it back to mono and check if it's all good!
- Proceed with all the projects you want to save.

Step 2 : Install the secondary bootloader

Mono V2 firmware is a very big file. Bigger than I ever anticipated it would be, and the current bootloader cannot handle it, so it is necessary to install a secondary bootlader. You will need to do it **only once**. No need to re-upload it in future updates. The installation is similar to the V1 update, if you want detailed procedure for each platform you can check V1 update procedure, simply use `mono_secondary_bootloader.syx` file.

To install the secondary bootloader, proceed as follow :

- Connect Mono to the computer with the USB cable
- Hold [PATTERN] and [RUN], and boot the unit
- The [SEQ] LEDs should blink.
- Send the `mono_secondary_bootloader.syx` file with your favorite sysex software.
- 3 [SEQ] LED will light up, then Mono should turn all black
- To confirm the secondary bootloader is properly installed, hold [TEMPO] and [FUNC], and power cycle the unit, **all the LED should pulse**. This is the new procedure to enter the secondary bootloader.

Step 3 : Install Mono V2.0.0r

- Boot mono in the secondary bootloader by holding [TEMPO] and [FUNC] and powering the unit.
- Send `mono_V2.0.0r.syx` file using your favorite sysex software.
- There should be a progress bar, upon reaching half of the sequencer, the progress bar will freeze for a few second while the firmware is being copied to flash.
- After that, mono will reboot and proceed to calibrate itself
- During calibration, you should see a progress bar moving on the SEQ led 3 times, for the 2 oscillators and filter, if you connect monos output you should hear the oscillator sweeping on the full range of notes.
- After calibration, mono will boot on V2 and it will load and transcript your first V1 project to V2.
- You can save that project under the new V2 project with the usual key combination.
- Every time a V1 project is opened, it will be transcribed as well.
- You can also use the project receive feature to reload V1.99 projects