

# Digitópia Sampler

## Features:

- Polyphonic sampler (and Granulator???)
- 2 FX slots
- 1 Multimode filter (LP, BP, NOTCH, HP)
- 2 LFO’s
- 2 Envelope generators
- Stereo output
- Line (and MIC???) input
- SD (or MicroSD???) card slot
- ??? Battery powered (4 x AA 1.5V batteries)
- DC (or USB???) power input (5 or 12V ???)
- MIDI over USB (or DIN ???)

## FX List:

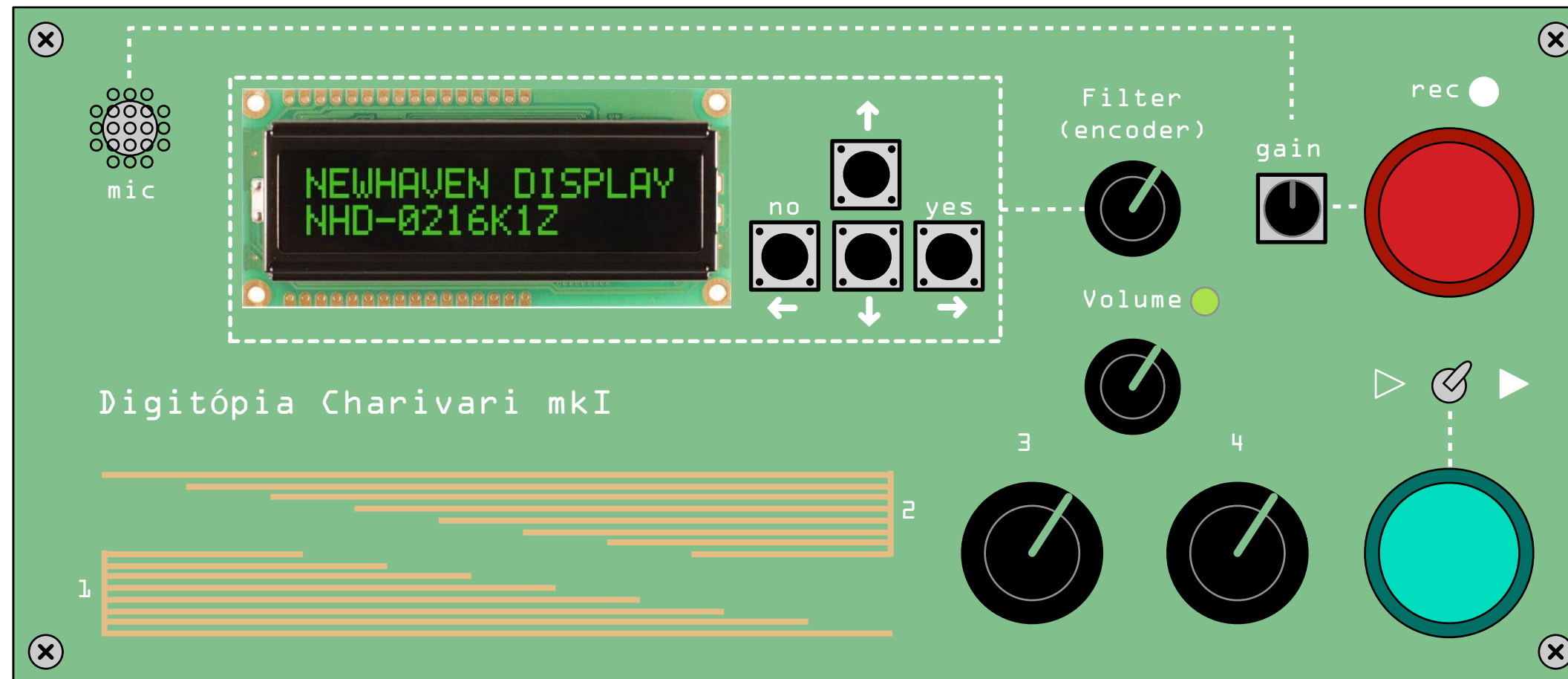
- Reverb
- Flanger
- Phaser
- Chorus
- Distortion
- Delay
- Filter

## Synth Parameters:

- Mode: Sampler (ADSR envelope) or Granular (Hanning Envelope)
- Sampler: pitch, start position, end position, loop
- Granular: pitch + randomness, duration + variation, position + spread, harmonicity
- MIDI mappings: pitch, velocity, pitch bend, mod wheel, aftertouch???, control change???

DEVICE ENCLOSURE: The device’s enclosure is the PCB itself, having a top and bottom single-sided PCB making a sandwich with the electronic components in the middle (except for interface components which are mounted on the top PCB). See Back Panel Connectors.

# INTERFACE



“3” and “4” assignable parameter encoders

“1” and “2”: assignable capacitive strips (mainly for sample start and end position but can also be used to play scales/arpeggios)

▷ play toggle

▶ play gate

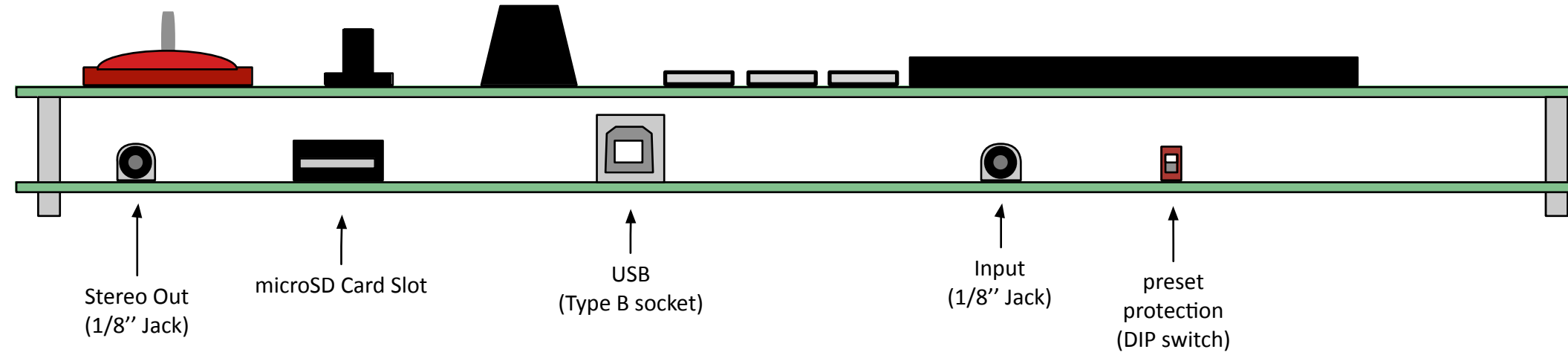
↓↑ are used to navigate a simple menu alongside “yes/enter” and “no/back” (loading/saving presets, etc...)

the “Filter” encoder can be used to set onscreen parameters when the menu mode is active

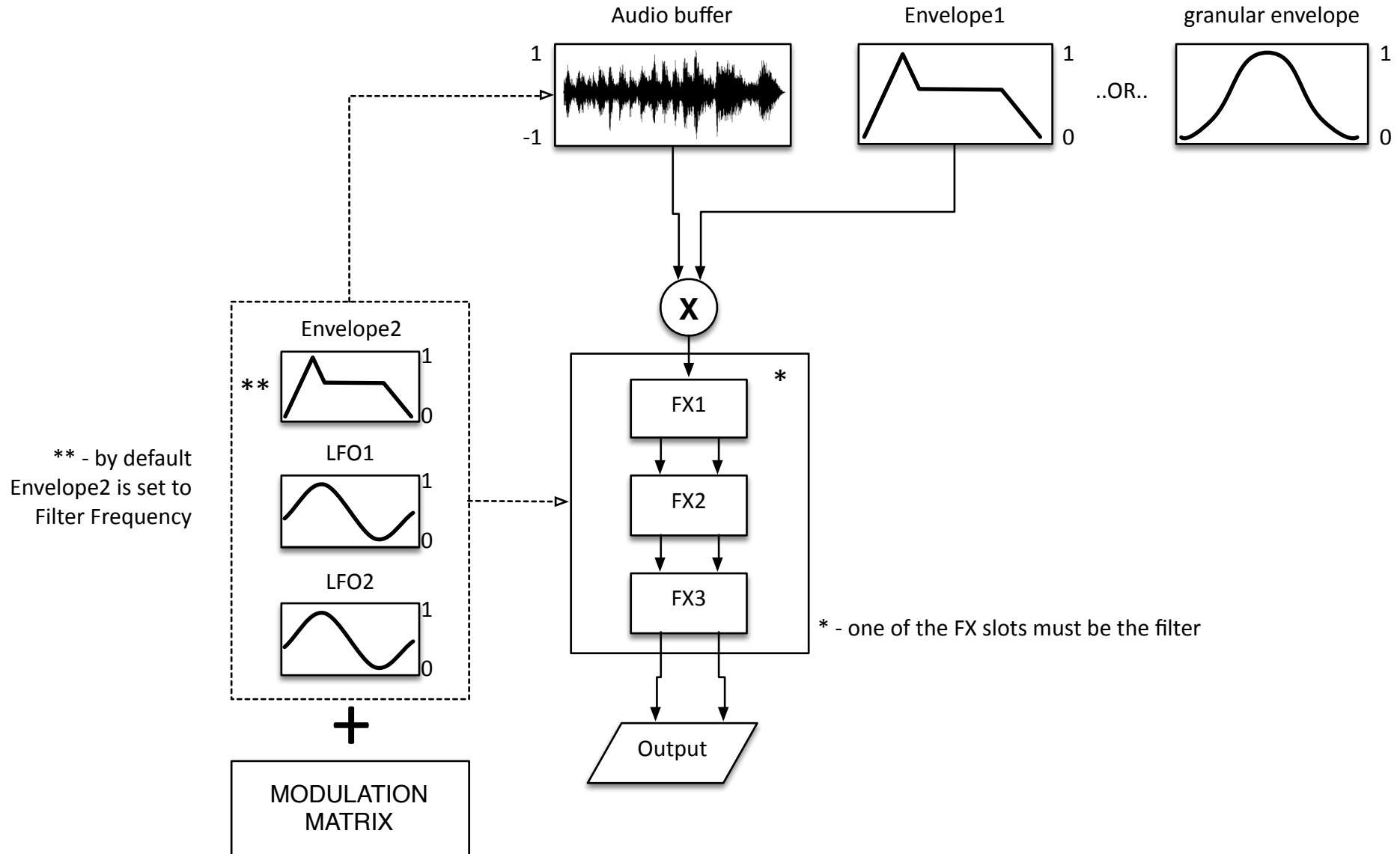
more complex operations (mappings, synthesis options, etc...) can also be done via computer user interface through dedicated software

🔒 on the back of the unit there’s a DIP switch to protect unwanted preset override

# Back Panel Connections



# Voice Architecture



LCD screen:

<https://pt.mouser.com/ProductDetail/Newhaven-Display/NHD-0216K1Z-NSPG-FBW?qs=sGAEpiMZZMt7dcPGmvnkBkrdfglqoJ4Co%252bicQQAI3BY%3d>

RED arcade button:

<https://pt.mouser.com/ProductDetail/Adafruit/3430?qs=sGAEpiMZZMve4%2fbfQkoj%252bCVUKLyV2bvOsQLQZq4PqF4%3d>

Green arcade button:

<https://pt.mouser.com/ProductDetail/Adafruit/3487?qs=sGAEpiMZZMve4%2fbfQkoj%252bOWrzYUZqUpLJomRwliMDds%3d>