



#### User Guide

Firmware 1.0 / 2.0

Thank you for buying a ConVertor E1.

Sonicsmith's comitment to bridge the gap between pro-audio and modular synths resulted in this leap-of-technology module. A preamp and DCO working together or seperately from each other for the ultimate playground of musical interfacing and control. The internal DCO can be controlled from audio, CV and MIDI (with expansion MIDVertor E1). Download the latest product documentaions, specs and firmware downloads (1.x series) at the product page:www.sonicsmith.com/products/convertor-e1.

Feel free to write us with any feedback, question or concern at: info@sonicsmith.com

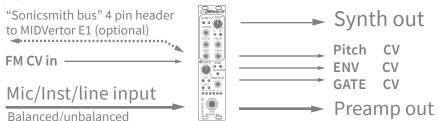


SONICS MITH

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# 1) Connecting and powering

To use the ConVertor E1 you need a 12V powered Eurorack case with 6HP (3cm) available space, one available power connection and 150mA of current available. Connect the power header cable, screw the panel to the rack using all 4 of the included standard M3 screws. Avoid exposing it to sun, fulids or unchecked physical abuse/shocks.



Please **Avoid** patching any audio signal stronger than +4dBu or CV signals into the **audio input**. The audio & CV outputs of this device are very loud potentially around 10V scale. Always test a signal's loudness before patching it with speakers or headphones on.

## 2) Preamp section buttons

Connect a TS or TRS Mic/Inst./Line 1/4" plug into the audio input

If you play a pickup inst. press the **HIZ** 

LOW Z: 10 kOhm

HI Z: 1000 kOhm RED :

25 Hz Press **FLT** To toggle between analog input HPF frequencies:





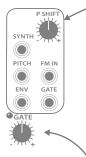




loudly for 3 seconds. After 3 seconds, the gain will be set and the meter will go back to showing input levels. Press A-GAIN longer than 1 second to undo/redo. The gate will not effect the PRE OUT levels. Turn the GATE knob while in A-Gain mode to change the **gain manually** and initiating another 3 second count. The A-Gain mode will auto-exit within 3 seconds of inactivity. The ConVertor E1 will remember preamp settings after a restarting.

Press **A-GAIN** To activate Auto-GAIN detection, play

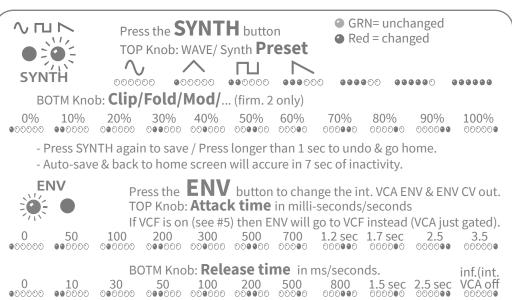
# 3) Knobs assignments: Default



Turn the **P SHIFT** knob to increase/decrease semi-tones for the DCO's SYNTH & the PITCH CV outputs by -2.5-+2.7 octaves. Press on the P SHIFT knob to bypass the shift back to unison. Press it again to undo/redo. Turn the P SHIFT knob faster than 7 steps in 0.3 sec to jump a whole octave. The resulting pitch shift is relative to the FM IN 1V/oct CV input so try arpeggiating the pitch from external LFO's (see #6) & sequencer 1/V per octave CV patched into it.

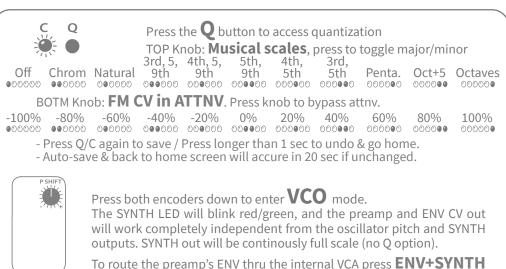
Turn the **GATE** knob to increase/decrease the gate's threshold by +/-1dB. Default GATE threshold is -35 dBFS and will effect the ENV CV output by shutting the ENV CV to 0V and the SYNTH OUT audio off. PRE OUT is analog copy of the same signal going to the ADC. Connect a minijack TS to a +18dBu-capable destination like modular synths. In all other function-modes, these knobs will be known as "Top knob & Bottom knob"

### 4) Function mode: SYNTH & ENV



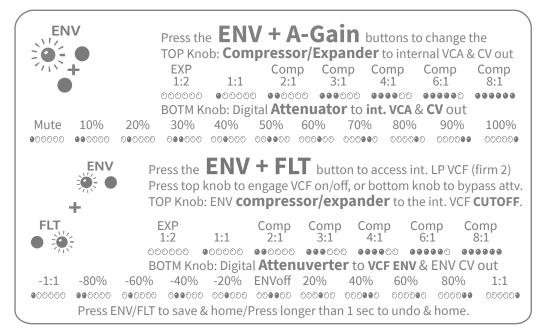
# 6) Quantizing the FM in & VCO mode

Press ENV again to save & home/Press longer than 1 sec to undo & home.



func. buttons together. Press both again to bypass the VCA.

## 5) ENV to VCA, VCF\* & ENV CV out



## 7) Reset / Expanding to Firm2.0 synth voice



Press and **Hold all 4** func. bottons in the preamp section longer than 1 second to **RESET** the firmware to the previously loaded firmware (not including user presets).

To **Flush** the **Firmware** we need to insert a micro-SD card containing the proper files for firmware flushing. Power the device off and then power it on while holding the same 4 func. bottons to start in firmware flushing mode and select a firmware from SD via the BTM KNOB: firmware 1-6

Top knob: Firmware select 1-6

If you want to expand your ConVertor E1 to be a full synth voice (firm 2.0) please visit www.sonicsmith.com/products