



### Itsy Audio/Phase Inverter v1.0

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# Itsy Audio/Phase Inverter



The first dedicated audio inversion Rack Extension plugin, *Itsy* features tools for independent audio and phase inversion and width control, plus a basic correlation meter to monitor the phase of the left and right audio channels.

## Channel flipping

*Itsy* can be used as a quick way of flipping the channels on your devices instead of manually unhooking and reversing the two audio cable inputs on the back of a stereo device. Simply ensure you have the target device selected to ensure the auto-routing works correctly, create a new *Itsy* device, then hit the **Flip** switch. Left becomes right, and right becomes left. It can also be used a single switch method to swap channels live as a creative effect.

## Spread control

The Spread control is a rack version of the Width knob found in the Reason SSL Mixer but with the added flexibility of also being about to reverse the stereo field entirely.



In positions 0–64, shown here in the first three images, the **Spread** knob is equivalent to the SSL Width knob, that is, reducing the stereo field from full (image 1) to mono (image 3). However with *Itsy*, you can continue to sweep the **Spread** knob until you return to the full stereo field but with the left and right channels flipped (images 4 and 5).

Additionally, you can still use the **Flip** switch to then flick the channels over again internally, although please note the visual representation of the signal direction will not change.

The **Spread** knob can be internally modulated using an LFO hooked up to the **Sweep CV In** socket on the back.

The level of CV input can be adjusted from the front panel via the **Mod** knob, which means the amount of CV input itself can also be automated if required either by adjusting the knob or through Combinator program targeting.



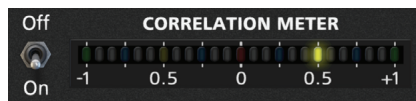
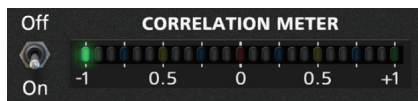
## Phase inverter

Both left and right channels can be independently phase inverted using the two switches in the second section. When using the **Main Input/Output** sockets the phase inverter can be applied to the same signal as the stereo inverter. Alternatively, if you need to invert the phase of a different signal but don't wish to create a second *Itsy* just for that purpose, you can connect that second signal to the **Phase Bypass In/Out** sockets. As noted on the back of the device, this disconnects internal routing of the phase inverter, and you have two separate chains, one for the stereo inverter and one for the phase inverter/correlation meter.

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## Correlation metering

Turning on the meter allows you to get an indication of the similarity between phase of the left and right channels. Where both channels are completely in phase the same the meter will show +1, whilst completely out of phase would send the meter to -1. So a summed mono signal, i.e., both left and right are the same, you would expect to be +1, which is a result you probably won't be looking for in a stereo sound!



In “typical” usage stereo signals would likely be seen in the -0.5 to +0.5 range, while applying a stereo widener to the source you would expect the meter to hover in the -1.0 to 0.0 range. You’ll get an approximate idea by looking at the correlation of a typical stereo signal, for example an ID8 grand piano, then switching the inversion of the one the channels: the average of the meter should drop into the negative range.

To save a little space in your rack, the Correlation Meter is also handily available to view when the device is folded.

## “Creative FX”

Please note that due to SDK limitations, *Itsy* is currently available from the Creative FX sections of your device creation menu, rather than the expected Utilities.

## Version history

1.0.0

- Initial release

# ***From the maker of ...***

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## **Rack Extensions**

- **Shelob Audio Bypass Splitter** - 4 x 5 channel stereo audio splitter with independently switchable outputs, mirroring, and autofade control
- **Itsy Audio Bypass Merger** - 4 x 5 channel stereo audio merger with independently switchable outputs and autofade control
- **Anansi Mid/Side Mastering Router** - Mid/side audio router with mono compatibility check, 3-in merger and 3-out splitter
- **Itsy Stereo/Phase Inverter** - L/R channel flip, cv-controllable 180° stereo inverting width adjust, stereo phase inverters and phase correlation metering

## **ReFills**

- **Guitars vol.1+2: Stratocaster & Telecaster** - Multi-sampled guitars with slides, mutes, signature L6 effects and keyswitching
- **Elements<sup>2</sup>: Vector Synthesis Workstation** - Korg Wavestation/MS2000, Waldorf Blofeld and Roland SC-8850
- **Additions: Vintage Additive Synthesizers** - DK Synergy + Kawai K5m + Thor FM.
- **Blue Meanie: Virtually an ARP2600** - Thor and Kong-based analogue synth machine
- **Kings of Kong Classic Drum Machines\*** - the premier ReFill for Reason 5+, with over 50 classic beatboxes for Kong Drum Designer
- **Retro Organs v2**- Hammond B3 + Farfisa Combo Compact + Vox Continental in one brilliant ReFill. Also available for Reason Essentials
- **B3 Tonewheels v1.5** - the original 24-bit non-Leslie samples ReFill with advanced rotary speaker emulation
- **Farfisa Combo Compact Deluxe v1.5** - the complete set of original 24-bit Farfisa samples covering, both standard and Deluxe models
- **Vox Continental v1.5** - a complete set of original samples from the classic C300 organ, featuring original and extended Continental footages
- **Hammond Novachord\*** - the near-antique pre-WW2 monster polyphonic valve synthesizer
- **Retrospective: 40 years of Synthesizer History\*** - Over 1Gb of vintage samples from synths and electronic keyboards from the Hollow Sun archive

## **FreeFills**

- **Additives** - demo version of Additions: the fantastic Additives tracks from PUF Challenge #2 can be found at <http://soundcloud.com/groups/additives>
- **8-BIT Magic: The ZX Spectrum ReFill**
- **Classic Drum Machine Collection v1.1**
- **Eminent 310 Strings\*\* v3** - the classic Jarre string sound, with stereo samples plus the Oxygene II / Equinoxe 4 pizzicato lead
- **Harpe Laser\*\*** - the famous Laser Harp sound, the Elka Synthex preset 46 "Ring Mod"
- **Moog Taurus Bass Synthesizer\*\* v1.1**

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For more information on these products and for direct downloads of these latest versions, plus a wide range of great Combinator skins, please visit [www.jiggery-pokery.com](http://www.jiggery-pokery.com)

\* Includes samples licensed from HollowSun.com

\*\* demo ReFills for Retrospective