SOVIET

WAVESHAPER / CROSSFADER

User Manual, 2021



About

SOVIET is an analog 8HP Eurorack **waveshaper** inspired by the outstanding soviet synthesizer: **ALISA-1377**. Waveshapers generate **richer harmonic overtones** from simple waveforms such as sine, saw or triangle.

SOVIET is based around a **high gain VCA** that feed into the waveshaping stage making this module capable of **subtle** to **extreme** tone shaping. The circuitry of this module allows you to have voltage control over **any parameters** such as gain, symmetry and feedback.

Besides the waveshaping section, **SOVIET** integrates a **voltage controlled crossfader** that can act either as a dry/wet crossfader or as a totally independent crossfader by using the external input.

Features

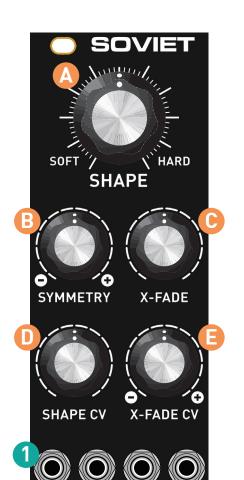
- Fully Analog Waveshaper.
- CV control over anything: gain, symmetry, feedback.
- Voltage Controlled Crossfader for Dry/Wet mixing.
- Wavehsaper and Crossfader can be used independently.

Specifications

Module width: 8 HPModule depth: 33mm

• Power Consumption: 35mA at +12V / 35mA at -12V

Reversed polarity protection



Something

Controls

A. SHAPE knob

Sets the amplification of the input signal before entering the folding stage. SHAPE goes from subtle (SOFT) to extreme tone shaping (HARD).

B. SYMMETRY knob

Controls the offset voltage added to the audio input. With a jack plugged in the SYMM CV, this knob acts as a bipolar attenuator for the

incoming CV input.

C. CROSSFADE knob

Fades between INPUT (CCW position) and EXT IN (CW position). With nothing plugged in EXT IN, it fades between INPUT and the waveshaper output.

D. SHAPE CV knob

This knob is a classic attenuating potentiometer associated with SHAPE CV input.

E. CROSSFADE CV knob

This knob is an attenuverting potentiometer associated with X-FADE CV input.

Inputs & Outputs

1. First row: from left to right

- SHAPE CV: Amplification of the input signal.
- SYMM CV: Offset voltage added to the input.
- FEEDBACK CV: Amount of output voltage back to the input.
- X-FADE CV input: Fades between INPUT and EXT IN.

2. Second row: from left to right

- INPUT : Audio input
- EXT IN: External audio input, the jack is normalled to the waveshaper output.
- OUTPUT : Output of the waveshaper.
- X-OUT: Output of the crossfader.