**Grain Reverser 2**

Grain Reverser 2 granulates the input sound and reproduces it in reverse. It has a feedback circuit and a multi-mode filter. It can create a wide variety of effects, from psychedelic reversed sounds to ethereal resonances to massive harmonic transpositions.

Grain Reverser 2 runs on Ableton Live 9.6 (or newer) with Max for Live (Max 7.2). Please note that you need both Ableton Live and Max for Live to use this device. It is compatible with both Mac and Windows platforms.

**PARAMETERS**

The Grain Reverser 2 interface is divided in 5 panels from left to right.

**FIRST PANEL**

**PanWidth**: sets the stereo spread of the grains.

**Pan Split**: when this switch is on the grains are panned only to the extreme right and left positions. How “extreme” they are depends on the PanWidth parameter.

**Dry/Wet**: sets the Dry-Wet balance.

**SECOND PANEL**

**On/Off switch**: Start and stop grain generation.

**Prob**: the probability a grain is generated.

**Density**: sets the average number of simultaneous grains produced.
THIRD PANEL

Grain Dur: the duration of a single grain. The V (Var) parameter below specifies a random variation of the duration (in this case each grain can be 0.5 seconds long ± 80%, i.e. any value from 0.1 to 0.9 seconds).

The R (Ratio) parameter sets the portion of the grain which is actually playing: when it is 100% the grain is playing for the whole duration, at 50% the grain is playing for half duration (and the remaining half is silent) and so on.

FOURTH PANEL

Feedback: this is a multiplier for the amplitude of the grain which is sent back to the granulator.

Fb Damp: this is a damp factor for the feedback when there is no input signal.

FIFTH PANEL

Pitchmin, Pitchmax: set the minimum and the maximum pitch shifting of the grain. The actual value is chosen randomly in the given Pitchmin-Pitchmax range.

Pitch Split: when this switch is ON the possible pitch values are only those set by the Pitchmin and Pitchmax, when it is OFF the pitch shift can be any value in the given Pitchmin-Pitchmax range.

Filter Freq: cutoff frequency of the filter. The Var parameter below specifies a random variation of the cutoff parameter.

Lowpass, Highpass, Bandpass switches: select a low pass, high pass or band pass filter. When two or three switches are on, a different filter is randomly used for each grain.

Filter D/W: Dry-Wet balance for the filter section.
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Requirements

Platform: Mac / Windows

Software: Ableton Live 9.6 with Max for Live (Max 7.2)