



## 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  $\pm 80\%$ , 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:** tset 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)