
Comb Manual

Synthetic FX



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Comb Users Manual



Figure 1: Comb

A Comb filter adds additional copies of the input signal to create peaks and troughs in specific frequencies.

Input

Comb has a single input that drives filter.

Output

Comb has a single output that is the result of the processed input.

Parameters

Comb provides parameters to adjust the overall sound of the module. Each parameter is accompanied by a CV input that accepts input from -5 volts to 10 volts that affect the value of the parameter. Each volt is equal to 10% of the total value of the parameter, and is additive. This means that if a parameter has a range of 0 to 1, and is set to 0.5, the addition of a CV input set to 1 volt will set the parameter to 0.6.

Frequency

The Frequency parameter controls the target frequency of the comb effect. This is defined in hertz and can be set between 0 and 20000 hertz.

In addition, Comb has a V/Oct frequency input that can track the intended frequency of the filter. When a frequency is input, the Frequency parameter becomes additive.

Feedback

The Feedback parameter adjusts the amount of signal fed back into itself. This provides a louder but richer overall signal. This can be from 0 to 1.0, or 0% and 100%.

Polyphony

Comb is a polyphonic module, meaning that it can process input and output for more than one set of inputs at a time. Comb can process up to 16 channels per input. Each channel is processed separately, with its own copy of the filter, but all copies use the same parameter settings.