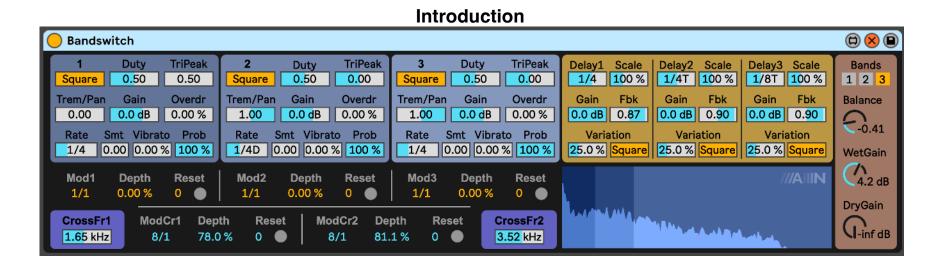


Bandswitch Reference Manual

http://www.amazingnoises.com/bandswitch

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Bandswitch is an audio effect that splits the incoming signal into three bands and processes them independently.

You can modulate the amplitude (tremolo) or the panning position of each band. You can also modify the shape of the modulation and set the gain and an overdrive process independently. Moreover, you can also add a vibrato (pitch modulation) independent for each band.

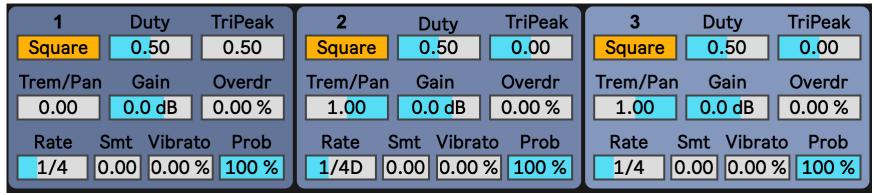
The modulation rate can be modulated in turn by an LFO (there are, of course, three LFOs), and there are also two dedicated LFOs that can modulate the cross frequencies between the bands.

After the Modulation/Distortion/Pitchshifing stage, each band goes to a dedicated delay line with feedback for further processing. Also the delay time can be dynamically modulated.

Click here for a video walkthrough:

https://www.youtube.com/watch?v=iY8GCiFpPSw

Switcher Panels



The main processor for each band is a Tremolo/Pan/Vibrato effect. Here are the parameters:

Shape: the tremolo and panning effects can follow a square or triangular shape

Duty: the width of the shape for each cycle

TriPeak: sets the vertex of the triangular shape

Trem/Pan: Tremolo Panning amount. Positive values (0/1) for panning, negative values (-1/0) for

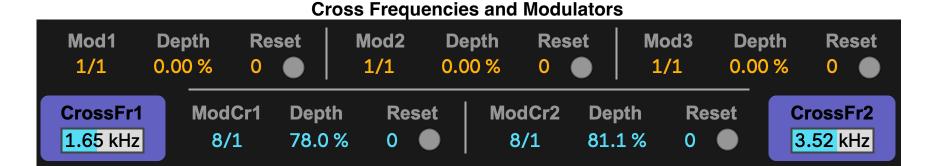
tremolo.

Gain: band volume

Overdr: band distortion

Rate: Tremolo/Panning/Vibrato rate in note values **Smt**: Tremolo/Panning/Vibrato smoothing factor

Vibrato: Vibrato (pitch modulation) amount **Prob**: Tremolo/Panning/Vibrato probability



CrossFr1 and **CrossFr2**: The two parameters in the purple panels set the cross frequencies between the bands

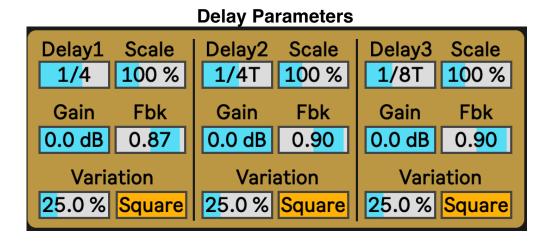
There are three LFO modulators for the Tremolo/Pan/Vibrato rate of each band, and two for the cross frequencies; here are the parameters:

Mod: Modulator rate un note values

Depth: Depth of the modulation in percentage

Reset: Period in measures for the LFO phase reset, a value of 0 means no periodic reset

Reset Button: you can also reset the LFO phase by clicking on the Reset Button, or you can automate it



There is a modulated feedback delay line for each band, here are the parameters:

Delay: Delay time in note values

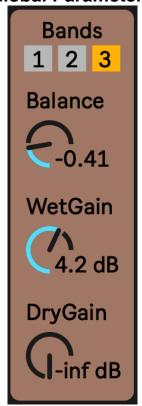
Scale: rescales the delay time by a percentage. Very useful to create irregular delays and change the rhythmic groove of the sound

Gain: delay gain

Fbk: Feedback factor. Positive values produce a regular feedback, negative values send the feedback signal to the next delay line: i.e. delay1 -> delay2, delay2 -> delay3, delay3 ->delay1.

Variation: a cyclic variation, in percentage, of the delay length. F.i. if the delay time is 1/4 and the variation id 50%, the actual delay length goes from 1/8 to 3/8 (i.e 1/4-1/8 and 1/4+1/8). This generates unique polyrhythmic patterns, impossible to obtain with regular delays. The variation shape can be a square (which switches between two values) or a sinusoid (which continuously warps the delay time, yielding a sort of granulation effect).

Global Parameters



Bands: you can switch between 1, 2 or 3 bands

Balance: spreads the bands in the stereo field: positive values move the highest band to the right and the lowest to the left, while the middle band remains centred. Negative values do the opposite.

WetGain: gain of the processed sound **DryGain**: gain of the un-processed sound