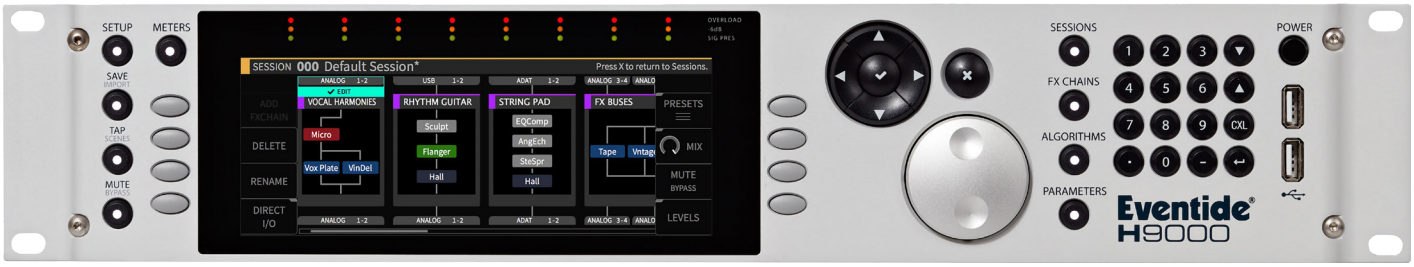
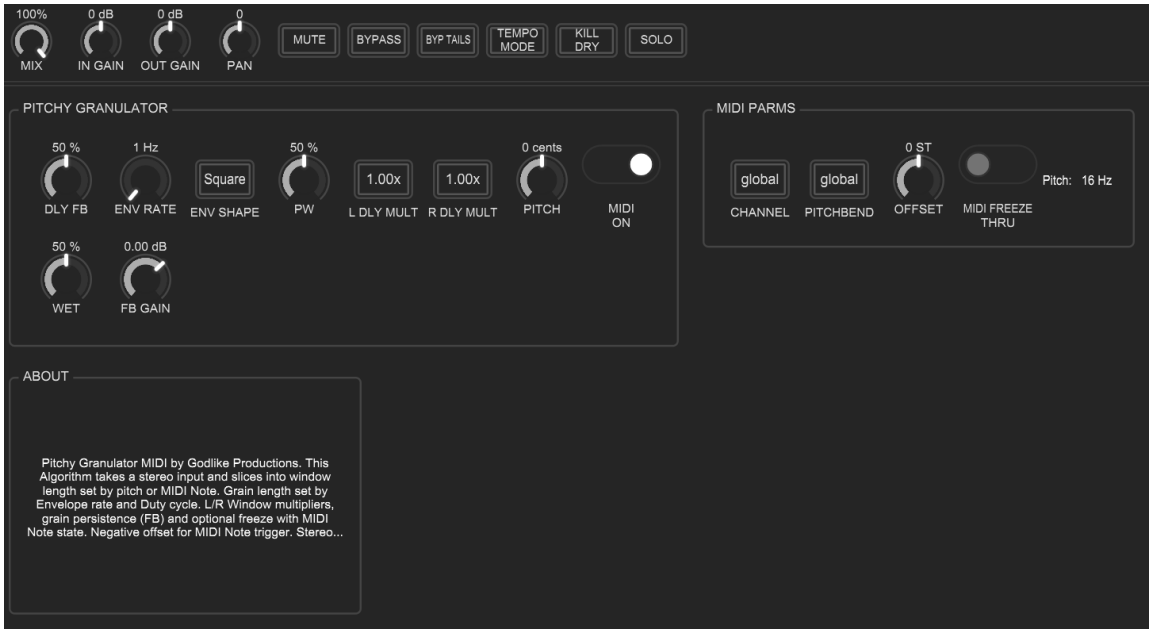


Instruction Manual

Pitchy Granulator MIDI



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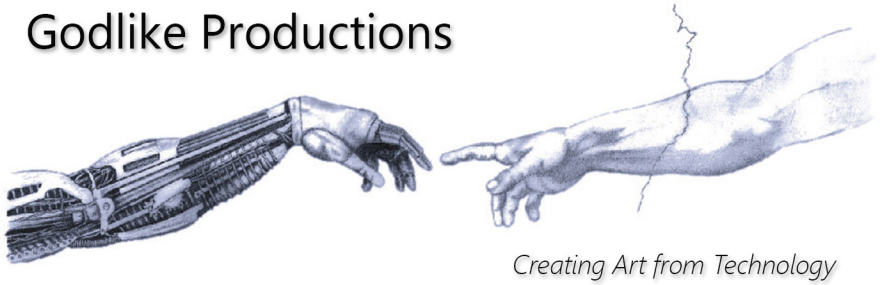

Creating Art from Technology

Revision 1.00

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Caution

Ensure you have backed up all algorithms and other data of your H9000 prior to use of this product. You use these algorithms, chains, presets, sessions and/or other content entirely at your own risk and to all extents allowable under the law of Western Australia, Godlike Productions is not liable for loss of damage, direct, consequential or otherwise.

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Getting Started

This manual is for a custom algorithm for the Eventide H9000 available at https://godlike.com.au/index.php?id=420. The Pitchy Granulator MIDI algorithm can be downloaded either as an algorithm that you can import from a USB drive (FAT32 formatted) onto your H9000 from the front panel, via Emote, or that can be uploaded via VSIG 3.3.3 or later.

There will also be a copy of this manual in PDF format. If you lose your copy of the files, please contact us at https://godlike.com.au/index.php?id=contact and we will be happy to send you another copy, or re download the algorithm from the link above. This manual will be available within the zip file.

Installation and Activation

Method 1 - Install from USB

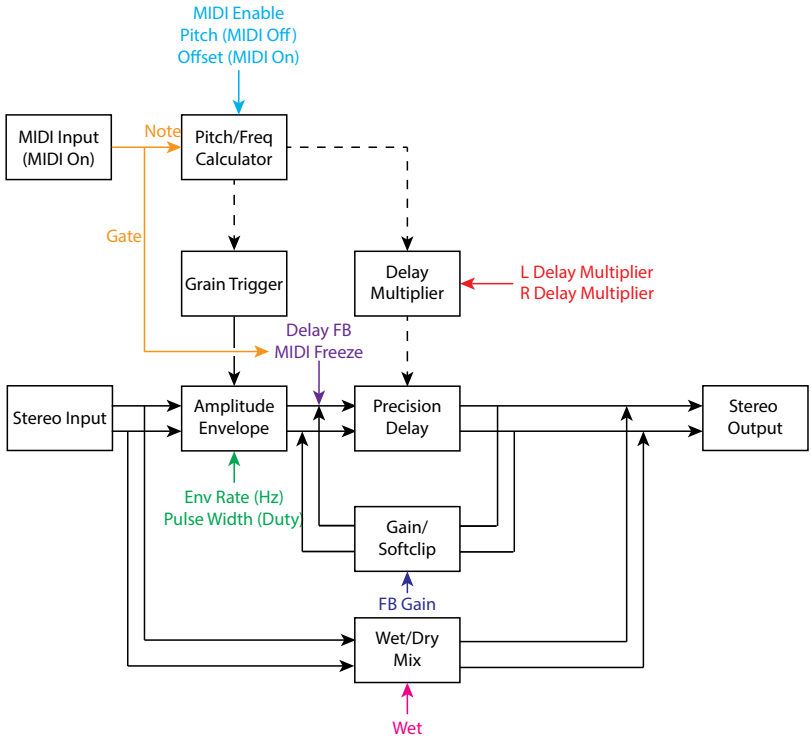
- Unzip the Algorithm and any presets. Copy Pitchy Granulator MIDI.9ka as well as the .9kp files to your USB drive and insert into your H9000.
- Long press the front panel Save/Import button; the Load Options screen will appear.
- Use the cursor up/down buttons or the wheel to navigate to Algorithms and press the Enter Key.
- Use the cursor up/down keys or wheel to select the Pitchy Granulator MIDI algorithm and then press the SELECT Key.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this proceedure until this algorithm appears as algorithm 10161. If you have installed to 10161, copies at lower numbers can be safely deleted using Emote (see below).
- Open the .9kf files from your USB drive using the same procedure.

Method 2 - Install from Emote

- Unzip the Algorithm and any Presets.
- In Emote, select Algorithm -> Import
- Navigate to the unzipped Pitchy Granulator MIDI.9ka file and press open.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this proceedure until this algorithm appears as algorithm 10161. As this algorithm uses chains, not presets, the our H9000 preset tool will not work at this time (December 2022). We will endevour to update our tool to work with User Chains.
- You can safely delete lower numbered algorithms used to bump this to 10161 by right clicking on the lower numbered algorithm and selecting Delete. Continue doing this until the only copy of Pitchy Granulator MIDI is the one loaded into slot 10161.
- To load the chains select Chains and then Open. Navigate to the .9kf chain files and press Open. Repeat for each chain.

Setting Things Up

The diagram below shows the signal flow of this algorithm.



Parameters

Parameter	Description	Range
Delay Feedback	The amount of internal feedback in the granulator. Increase this for a sustaining tone and feedback effects. At 100% none of the incoming audio will be routed into the granulator.	0-100% Default: 50%
Env Rate	This is the speed of the envelope that shapes the incoming audio. Essentially this is the shape of the grain and the size of the grain boundary (The length of audio played within the grain). The grains are triggered at the frequency of the MIDI note that is held (when MIDI is enabled), or the frequency of the pitch knob. Eg Note A4 will trigger this envelope 440 times a second (440 Hz). Using a square wave with the PWM control is a traditional grain length control, but the envelopes allows other shapes, so I made them available here.	1-1000Hz Default: 1Hz

Parameter	Description	Range
Envelope Shape	The shape of the grain boundary. Square wave is the basis of the design	Sine, Triangle, Square, Peak. Default: Square
Pulse Width	The duty cycle of the envelope. Designed for the square wave, to define grain boundaries (ie how much of the grain length does the grain sound). Does not affect the sine shape	0-100% Default: 50%
L/R Delay Mult	The multiplier of the grain frequency for the left and right delay lines.	0.25x, 0.5x, 0.75x 1.00x, 2.00x 3.00x, 4.00x, 8.00x Default: 1.00x
MIDI Enable	When enabled, MIDI input will determine the pitch of the granular oscillator and note on and note off will gate the effect send. When off, the pitch knob will control the granulator frequency.	Enable, Disable Default: Enable
MIDI Freeze	When set to thru, audio will affected by the MIDI note. When set to freeze, the Wet/Dry will be set to 100% capturing an audio grain into the delays.	Thru, Freeze Default: Thru
Pitch Offset	This applies pitch offsets to the MIDI input in semitones. It is applied to the granulator.	-128 to 128ST Default: 0ST
FB Gain	The amount of gain added to the delay feedback path. A gain of 0.5 to 1dB is usually needed to get the grain pitch to sound.	-12dB to 6dB Default: 0dB
MIDI Ch	Select the MIDI Channel	1-16 Default: Global
Pitchbend	The amount that pitchbend will alter the frequency	0 note to 24 note Default: Global

This algorithm provides a real time granular effect. It samples the incoming audio into delay buffers that can be played by MIDI to adjust the feedback loop so that it is pitched. Freeze will circulate the audio buffer indefinitely. The grain boundaries are controlled with the pitch triggered envelope.

This algorithm is designed to be used with MIDI note information being received via the Eventide driver, or by USB or 5 pin DIN MIDI.

For a demo of this algorithm visit https://youtu.be/aV2qe8M3Nx4