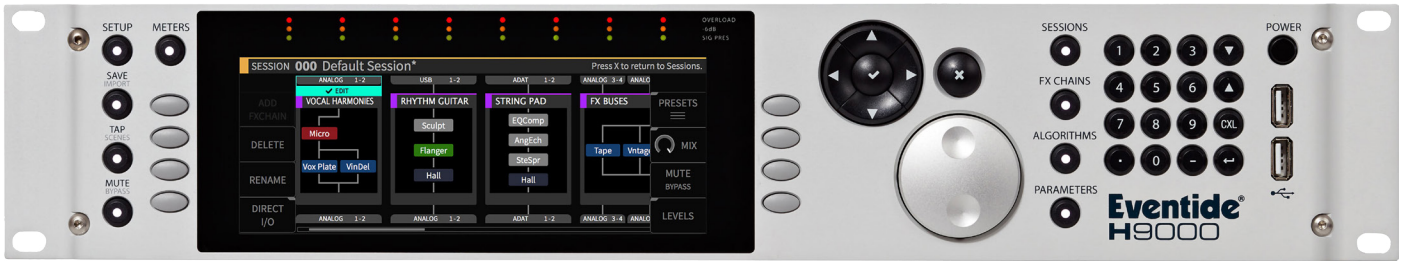
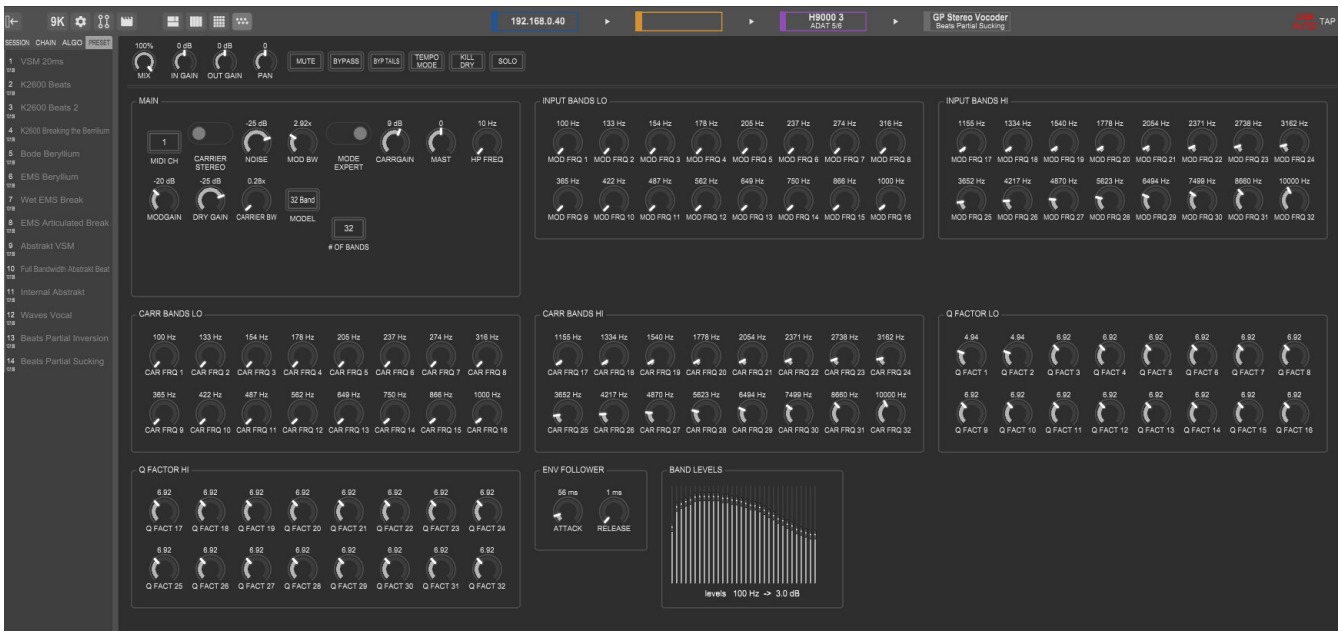


Instruction Manual

GP Stereo Vocoder



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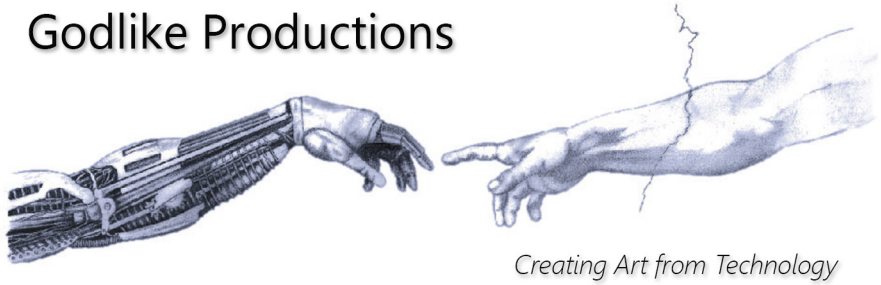

Creating Art from Technology

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 GP Stereo Vocoder 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

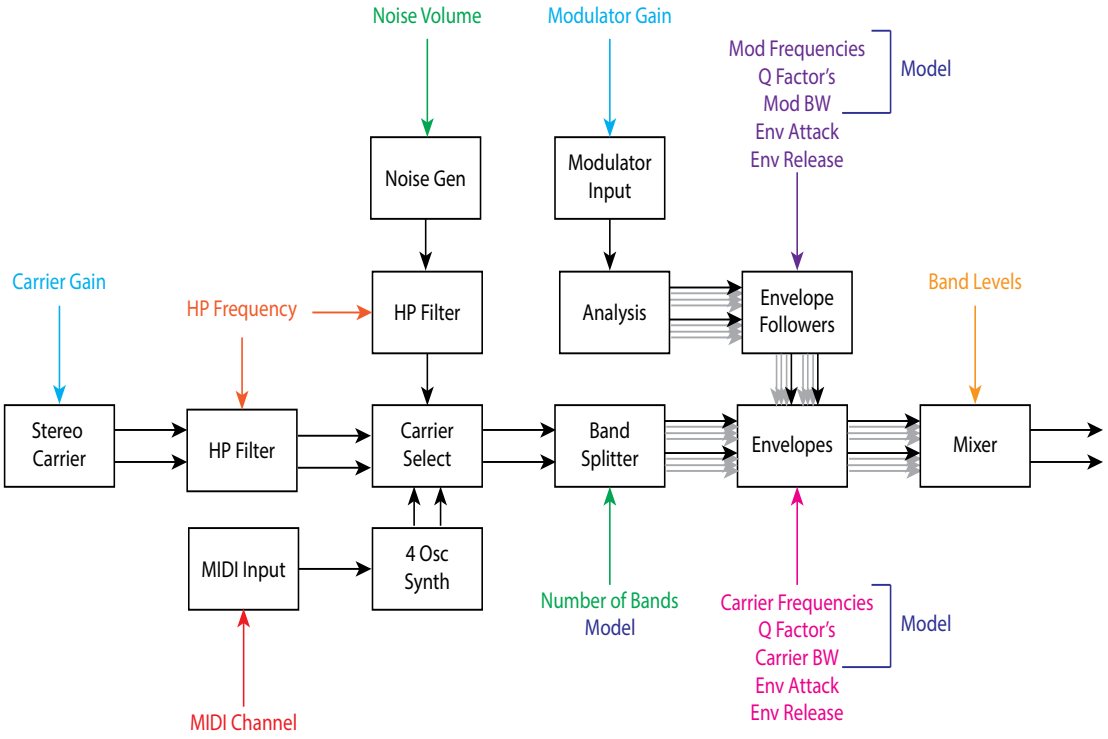
- Unzip the Algorithm and any presets. Copy GP Stereo Vocoder_1086204024.9ka as well as the .9kp files to your USB drive and insert into your H9000.
- Long press the front panel Save/Import button; the Load Options screen will appear.
- Use the cursor up/down buttons or the wheel to navigate to Algorithms and press the Enter Key.
- Use the cursor up/down keys or wheel to select the Transformer Saturator 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 10158. If you have installed to 10158, 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 GP Stereo Vocoder_1086204024.9ka 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 10158. 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 10158 by right clicking on the lower numbered algorithm and selecting Delete. Continue doing this until the only copy of Transformer Saturator is the one loaded into slot 10158.
- 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
Carrier Gain	The amount of gain adjustment for the stereo inputs.	-60dB to 60dB Default: 0dB
Dry Gain	The amount of dry modulation signal sent to the output.	-100 to 0dB Default: -100dB
Mod Gain	The overall modulator gain feeding the analysis section.	-60dB to 60dB Default: 0dB
HP Frequency	This sets the cutoff frequency for the high pass filters on the Carrier and Noise Inputs	10 - 20,000Hz Default: 10Hz
MIDI Channel	The MIDI channel that the internal synth responds to.	1-16 Default: 1
Number of Bands	This controls the number of bands that the vocoder uses.	4, 8, 10, 12, 16, 20, 24, 28, 32 Default: 32
Mod Frequencies Carr Frequencies	Each band can be set to individual frequencies. Mod band 1 envelope controls Carrier band 1, but the frequencies don't have to correspond. In normal vocoders, the carrier and mod frequencies will be the same.	20-25000Hz Default: Various.

Parameter	Description	Range
Q Factor	The steepness of the bandpass filter. The bandwidth of the filter is equal to the frequency/q. The bandwidth is measured where the filter response is greater than -3dB. The Mod BW and Carr BW adjust all Q factors on the modulation filters and carrier filters respectively.	0-20 Default: 1
Mod BW Carr BW	A multiplier to all of the Q factors. In Simple mode changing the Mod BW, will also change the Carr BW. The Carr BW can be set independently after Mod BW is set. In Expert mode, both will be set independently.	0.01x to 10x Default: 1x
Env Attack Env Release	This controls the speed of the envelope followers. Lower numbers will allow the envelopes to track the modulator signal more closely. Very low numbers may result in choppy audio. Higher values will smear the signal and make it less intelligible.	0 - 500ms Default Att: 1ms Default Rel: 150ms
Band Levels	These allow control of the volumes of the various bands of the vocoder. The Mast control adjusts all bands at the same time.	-18 to 18dB Default: 0dB
Model	This selects some preset vocoder types. It sets frequencies, bandwidths and number of bands to the same values as a number of popular vocoder models.	1/3 Octave, 32 Band, VP330, Bode 7702, EMS 3000, VSM201, K2600, Waves Default: 1/3 Octave

This algorithm provides a versatile vocoder for the Eventide H9000. It emulates the filters for a number of popular vocoder models, but also allows for up to 32 bands of vocoding, with 2 additional presets, the first using frequency bands of a 1/3 octave equalizer, and the second using 32 optimized bands for a highly intelligible vocoder. For a demo of this algorithm visit https://youtu.be/HfMXkAJkhhI