Voxengo Tube Amp User Guide

Version 2.5

http://www.voxengo.com/product/tubeamp/

Contents

Introduction

Tube Amp is an audio effect AU and VST plugin that applies asymmetric tube triode overdrive usually found in single-tube microphone pre-amp boxes. The sound this plug-in produces varies from a mild "warm" overdrive to a fuzzy distortion.

Tube Amp also includes a -6 dB/oct low-pass filter that is built-in into plug-in's tube/valve modeling equation, and can be used to imitate a lower-quality tube triode. Beside that, Tube Amp has a switchable output saturation stage which can be used to additionally overdrive the output signal.

Tube Amp features all standard advanced Voxengo plug-in features like full multi-channel operation, channel routing, built-in oversampling and other functions.

Features

- Asymmetric tube triode overdrive
- Two processing modes
- Additional output saturation stage
- Stereo and multi-channel processing
- Internal channel routing
- Channel grouping
- Mid/side processing
- Up to 8x oversampling
- 64-bit floating point processing
- Preset manager
- Undo/redo history
- A/B comparisons
- Contextual hint messages
- All sample rates support
- Zero processing latency

Compatibility

This audio plug-in can be loaded into any audio host application that conforms to the AudioUnit, VST or VST3 plug-in specification.

This plug-in is compatible with Windows (32- and 64-bit Windows XP, Vista, 7, 8, 10 and later versions) and Mac OS X (10.6 and later versions, 32- and 64-bit, Intel processor-based) computers (2 GHz dual-core or faster processor with at least 2 GB of system RAM required). A separate binary distribution file is available for each target computer platform for each audio plug-in specification.

User Interface Elements

Note: Most interface elements (buttons, labels) located on the top of the user interface and on the bottom are standard among all Voxengo plug-ins and do not require much learning effort. For an in-depth description of these and other standard user interface elements and features please refer to the "Voxengo Primary User Guide". Learned once it will allow you to feel comfortable with all pro audio plug-ins from Voxengo.

Parameters

The "Mode" parameter selects processing mode. While "Mode 1" is mostly suitable for moderate saturation only, "Mode 2" can be used to produce a very strong distortion, suitable for guitar overdrive processing.

The "Drive" parameter specifies overall tube amp gain setting (in decibel).

The "Bias" parameter adjusts tube amp's grid bias providing a mean to control proximity of the half-wave to the tube triode's cutoff point (parameter is defined in percent).

The "LP Freq" parameter controls low-pass filter's corner frequency (in Hertz).

Output

The "Out Gain" parameter adjusts the overall output gain of the plug-in (in decibel).

Credits

DSP algorithms and internal signal routing code were created by Aleksey Vaneev.

Graphics user interface code and the "standard" graphics design were created by Vladimir Stolypko.

This plug-in is implemented in multi-platform C++ code form and uses "zlib" compression library (written by Jean-loup Gailly and Mark Adler), LibLZF by Marc Alexander Lehmann, VST plug-in technology by Steinberg, AudioUnit plug-in SDK by Apple, Inc., Intel IPP and run-time library by Intel Corporation (used under the corresponding licenses granted by these parties).

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