



Voxengo CRTIV Tape Bus User Guide



Version 1.0

<http://www.voxengo.com/product/crtivtapebus/>

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Introduction

CRTIV Tape Bus plug-in for professional music production applications recreates characteristic elements of the reel-to-reel tape sound. This includes saturation, modulation noise and smearing effects which are known for the “analog” feel they bring to audio recordings. This plug-in also applies a selected impulse response taken by us from the existing tape machines.

Features

- Saturation controls
- Tape medium controls
- Preset manager
- Undo/redo history
- A/B comparisons
- Contextual hint messages
- All sample rates support
- 1 ms compensated processing latency

Compatibility

This audio plug-in can be loaded into any audio host application that conforms to the AAX, 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 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.

Saturation

This group of knobs affects saturation characteristics of the plugin.

The “Rec Gain” parameter specifies “recording gain” (in decibel) or the strength of the saturation effect. The makeup gain will be calculated and applied automatically.

The “Hi Emphas” parameter specifies an additional gain (in decibel) applied to the higher frequencies. This parameter models a noise-reduction-like equalization curve used in tape recorders. Such curve produces an effect of over- or under-saturated higher frequencies.

The “Hardness” parameter specifies tape transfer function’s hardness, in percent. Selects between soft- and hard-saturation.

The “Saturate” parameter specifies the amount of saturation, equivalent to the “Dry Mix” control.

Tape

This group of knobs affects tape medium’s characteristics.

The “Flutter” parameter specifies the amount of flutter noise (side-band noise) which is produced by irregularities of tape’s movement. This noise is best heard on plain sine-wave signals.

The “Impulse” selector specifies an additional impulse response applied to the output signal which models the overall frequency response of the tape recorder.

Levels

The “Hi Gain” parameter (in decibel) controls the gain of the output high-shelf filter which may be useful when the signal is over-saturated by means of the “Hi Emphas” parameter.

The “Out Gain” parameter controls the master output gain, in decibel.

Meter

This block displays the output signal level in decibel. “OL” indicator reacts on signal levels above 0 dBFS.

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, filter design equations by Robert Bristow-Johnson, VST plug-in technology by Steinberg, AudioUnit plug-in SDK by Apple, Inc., AAX plug-in SDK by Avid Technology, Inc., Intel IPP and run-time library by Intel Corporation (used under the corresponding licenses granted by these parties).

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