

## Voxengo MSED User Guide



Software version 2.5

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

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## Introduction

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MSED is a professional audio encoder-decoder plug-in for mid-side processing which is able to encode (split) the incoming stereo signal into two components: mid-side pair, and vice versa: decode mid-side signal pair into stereo signal.

MSED is also able to work in the “inline” mode with the ability to adjust mid and side channels’ gain without the need of using two plug-in instances in sequence. MSED can be used to flip the phase of the mid and side channels by 180 degrees, and swap the stereo channels.

You can use MSED to extract mid-side channels, swap stereo channels, switch polarity of the signal.

## Features

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- Mid-side encoder and decoder
- Inline mode
- Input channel swapping
- 180-degree phase flipping
- Preset manager
- Undo/redo history
- A/B comparisons
- Contextual hint messages
- All sample rates support
- Zero processing latency

## Compatibility

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

This plug-in is compatible with Windows (32- and 64-bit Windows 7, Vista, XP) and Mac OS X (10.5 and later versions, 32- and 64-bit, Intel processor-based) computers (2 GHz dual-core or faster processor with at least 1 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

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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

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The “Mode” selector specifies which processing mode should be used. The “Encode” mode engages the mid-side encoding mode (input left/right signal is converted into mid-side signal). The “Decode” mode enables mid-side decoding (input mid-side signal is converted into left/right signal). The “Inline” mode performs mid-side encoding, mid-side channel gain adjustment and then decoding, sequentially.

The “Mid Gain” parameter adjusts the middle channel gain (in decibels). The “Mid Mute” switch can be used to mute the middle channel completely.

The “Side Gain” parameter adjusts the side channel gain (in decibels). The “Side Mute” switch can be used to mute the side channel completely.

Note that you can drag either the “Mid Gain” or “Side Gain” knob with the right mouse button to enable inversely linked adjustment of both knobs.

The “Ch Swap” switch swaps input channels when enabled.

The “Mid 180” and “Side 180” switches allow you to flip phases by 180 degrees of the mid and side channels, respectively. When the “Inline” mode is active, the enabled “Side 180” switch swaps the stereo channels while the enabled “Mid 180” switch both swaps the stereo channels and flips their phase by 180 degrees.

## Credits

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This plug-in was produced by Aleksey Vaneev in Syktyvkar, Komi Republic, Russia.

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 Stolytko.

Plug-in is implemented in multi-platform C++ code form and uses “zlib” compression library (written by Jean-loup Gailly and Mark Adler), VST plug-in technology by Steinberg, AudioUnit plug-in SDK by Apple, Inc. (used under the corresponding licenses granted by these parties).

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