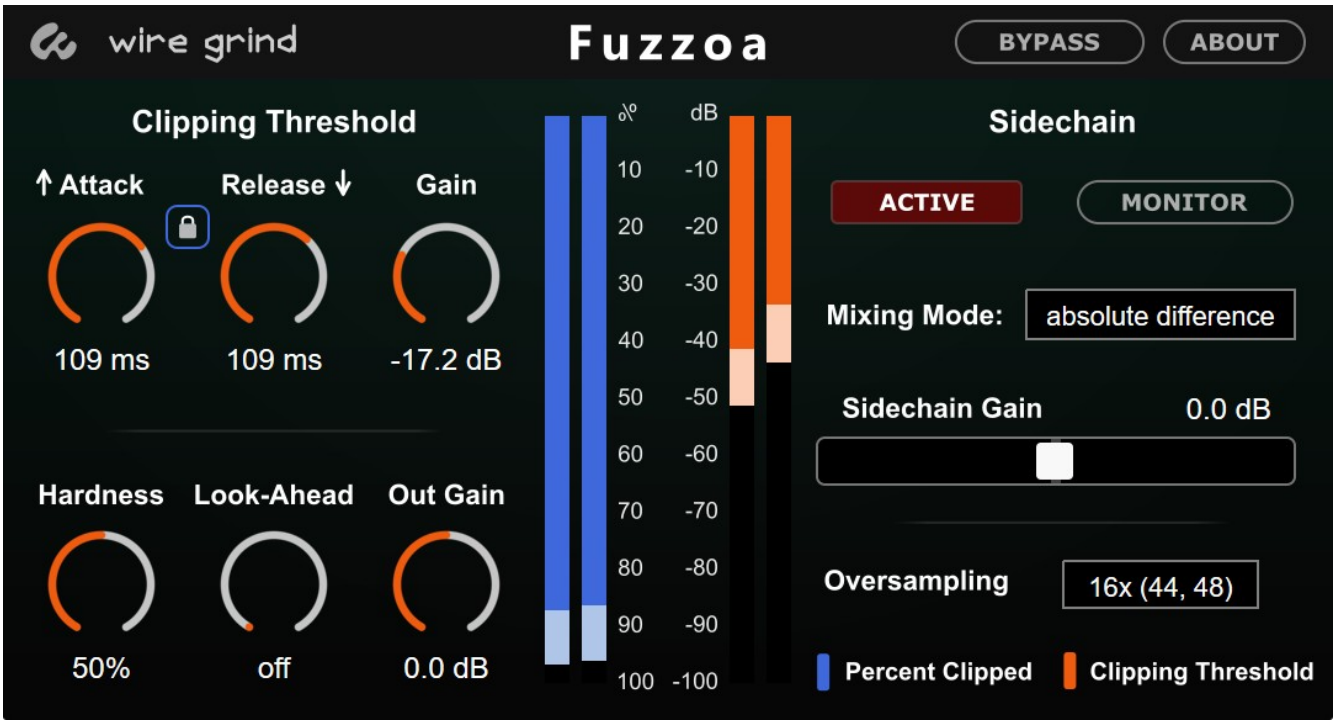
Wire Grind

Fuzzoa

User Manual



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Overview

Fuzzoa has two major features that distinguish it from traditional distortion effects. The first is that it distorts a signal in the same way no matter the level of the input signal. The second is that the distortion can be sidechained.

Specifications

Supported Sample Rates

All features are supported for the following sample rates: 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192.0kHz.

Other sample rates are also expected to work, however, we haven't tested them. Also, the oversampling feature will be either untested or non-functional. If in doubt, please try the free demo version.

Supported Channel Formats

Fuzzoa supports all channel configurations. This means that the input, output, and sidechain can each have any number of channels, and they can be in any combination.

Plug-in Format

VST3, 64-bit

System Requirements

Operating System

Windows versions 7 through 11.

Supported Host Programs

A program supporting 64-bit VST3 effects plugins is required.

Internet Access (recommended)

Access to the world wide web is required during installation.

Demo Version Limitations

There are two differences between the demo versions the full versions:

- The demo version is unable to save settings.
- The demo version periodically adds a tone or chirp sound to the output.

Installation

This program comes with a set up application that will guide you through the process. You will likely need to unzip or extract the download package before running. With some computer setups, you will also need to close any running audio applications.

Uninstall

The program can be removed using Windows' add/remove utility.

Software Interface and Controls

Active

This indicates that the sidechain is active. The box turns red when the side chain is active, and gray when the side chain is inactive. Side chaining must be enabled and disabled through your VST host software.

Attack Time

The speed at which the clipping envelope rises.

Bypass

When engaged, the raw input signal becomes the output. The effect and it's meters will remain active. If you wish to fully disable the effect, many VST hosts have an option to deactivate plugins.

Gain (Clipping Threshold)

Apply gain to the clipping threshold. It is like the gain control on a traditional distortion effect, but in reverse. In other words, lower gain results in more distortion.

Sidechain Gain

This applies gain the sidechain signal. It is useful for balancing the sidechain signal with the input signal. We recommend using it in concert with "Gain (Clipping Threshold)" when trying to dial in a particular clipping level.

Hardness

This adjusts the hardness of the clipping. Set to 0% for the softest most-gentle overdrive, or set to 100% for the harshest fuzz. You may find that adjusting the gain of the clipping threshold has a more dramatic effect on the amount of distortion.

Lock Button

When shows the lock in the closed position, changes to the attack and release time are synchronized. When the lock is in the open position, attack and release times can be changed independently.

Look-Ahead

This parameter will cause the effect to “look into the future” to detect level changes. This information is then used to apply an envelope to the present.

Meters

Fuzzoa has two pairs of meters.

Blue left-most meters (Percent Clipped): This quantifies the amount of distortion as seen in the output. It correlates more to what ones hears. At 100% clipping, the entire signal is clipped and the output is silence.

Orange right-most meters (Clipping Threshold): This displays the clipping threshold relative to the input signal. It is more useful when adjusting parameters trying to dial in a particular sound.

Mixing Mode

Fuzzoa uses both the input and the sidechain signals to dynamically calculate the clipping threshold. “Mixing Mode” provides several different methods for combining these two signals. They are described below.

absolute difference: Subtracts the input from the sidechain and then takes the absolute value.

in – sidechain: Subtracts the sidechain from the input.

sidechain – in: Subtracts the input from the sidechain.

Sum: Adds the input to the sidechain.

max source: Uses the signal that has the highest value.

min source: Uses the signal that has the lowest value.

sidechain only: Uses only the sidechain.

Monitor

When engaged, the control signal becomes the output. In normal operation, the output is the processed input signal. When side chaining, the output is the auxiliary input.

Not Active

This indicates that the sidechain is not active. The box turns red when the side chain is active, and gray when the side chain is inactive. Side chaining must be enabled and disabled through your VST host software.

Out Gain

The amount of gain applied to the output signal.

Oversampling

This sets sample rate used internally. Its purpose is to suppress aliasing. The internal sample rate is calculated as a multiple of the standard sample rate. Standard sample rate is either 44.1kHz or 48kHz.

Release Time

The speed at which the clipping envelope falls.