# ClipLAB

VST Effect Plugin


LUSSIVE AUDIO


*Questions? support@lussive.com*

# Clip distortion for all

Designed by a producer – for producers.

## ClipLAB by Lussive Audio

Ultra-Musical Clipping. Harmonic Mayhem. Beautifully Brutal.

ClipLAB is a modern distortion plugin that goes far beyond simple clipping. It’s your creative lab for overdrive, tone-shaping, chaotic filters, and musical EQ distortion — all wrapped in a sleek interface designed for sound designers and producers who want destruction with precision.

# Your guide to clip distortion with ClipLAB

Lussive Audio presents

# ClipLAB

DOCUMENTATION (v1.3)

## System requirements

**Mac minimum system requirements**

- AudioUnit or VST3 host software like FL Studio, Cubase, Studio One or Logic
- Apple Silicon M1 (native) or Intel 2.0 GHz processor
- Display with 1024-by-768 or higher resolution. UI is resizable
- macOS 10.13 and later
- Internet connection to activate license
- 64-bit only

**PC minimum system requirements**

- VST3 host software like FL Studio, Cubase, Studio One or Logic
- Intel GHz 64-bit processor
- Display with 1024-by-768 or higher resolution. UI is resizable
- Windows 10 or Windows 11
- Internet connection to activate license
- 64-bit only

## Installation & Activation

Use the included installers or manually copy the VST3 / AU files to your default VST plugins folder. When running and activating the plugin for the first time, Lussive Audio / ClipLAB folders are automatically created to store presets.
Optionally you can put any of the included presets in there if you want to use those.

On first load, an activation screen will show.
Upon successfully entering your license key, as obtained in your purchase, the online activation will be checked. When the activation limit has been reached, you can deactivate or delete an earlier activation in your Lussive Audio account.

# Key Features

## Multi-Stage Clipping Engine

From analog-inspired warmth to hard-edged digital saturation — dial in the right character with intuitive drive, symmetry, and curve controls. Including Console mode with position control. Output clipper can be oversampled 2x, 4x or 8x to reduce harshness.

## Musical EQ With Note Snapping

ClipLAB is shaping distortion and resonance in tune. Snap your tone and EQ frequencies to musical notes. Stay in key, design harmonics with intent, and never second-guess your filter tuning.

## Tone Filter in Key

Shape your sound's tone while locking it to your track's key. Perfect for distortion that musically fits your mix.

## Chaos Mode

When subtle isn't an option — engage chaos. Experimental filters, phase shifts, and comb delays obliterate your signal. One slider controls the madness.

## Creative Post FX

Hi-shelf, low-pass, mono-maker, and sub enhancer give you surgical control after clipping.

## Modulation

Advanced LFO with multiple destinations, polarity, shape, time division and phase control.

## Smart Preset System

Includes instant load/save, a curated randomizer for creativity boosts, and DAW-safe recall behavior. Preset files are stored in /User/Documents/Lussive Audio/ClipLAB/Presets. Remove unwanted presets by deleting them.

## Perfect for:

- Tonal and atonal kickdrum sound design
- Kick enhancement and glue
- Harmonic layering for synths and guitars
- Vocal dirt and tone sculpting
- FX processing and chaotic transitions


ClipLAB
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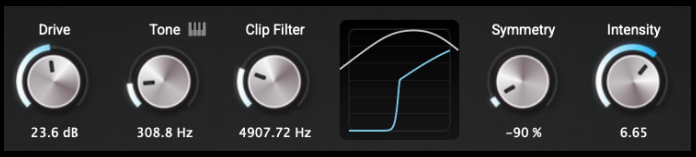
Init
EQ
EQ 1
EQ 2
EQ 3
EQ 4
Low Cut
Off
Slope
24
Freq
300.0 Hz
Gain
-0.0 dB
BW
1.00 Q
Peak
0.00
Drive
0.0 dB
Tone
20.0 Hz
Clip Filter
18000 Hz
Symmetry
0 %
Intensity
0.50
Hi Shelf Freq
12000 Hz
Hi Shelf Gain
-0.0 dB
LP Filter
18000 Hz
CHAOS
50%
Sub Shaper
Off
Sub Gain
-0.0 dB
LFO
Input
-0.0 dB
Mix
30 %
Output
-0.0 dB
Activated
Clip Output

# DSP Controls

## Drive Section




**Drive:** Adds gain to the input signal pre-clipping.
**Tone:** Acts as a tilt filter or high-shelf. Optionally snaps to musical key.
**Clip Filter:** Adjusts post-distortion coloration.
**Curve:** Morphs the shape of the clipping saturation.
**Symmetry:** Pushes distortion into asymmetric territory.

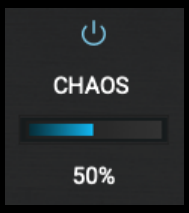
## EQ Section


Four EQ tabs, each with:
**Freq:** Center frequency (can snap to nearest musical note).
**Gain:** Boost or cut.
**BW (Q):** Controls resonance or width.
**Peak:** Shapes the slope of the resonance. Use with caution as it can cause self resonance.
**Pan (EQ 3 & 4):** Spread bands left/right.

## Post FX

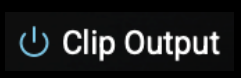

**Hi Shelf:** Adds brilliance or tames highs.
**LP Filter:** Softens top-end harshness.
**Mono Maker:** Collapses low-end into mono for tight bass.
**Sub Gain:** Adds weight below 100Hz.

## Chaos Mode




**Chaos Mode:** Engages aggressive filtering, combing, and signal disruption.
**Chaos Slider:** Controls frequency offsets and filter instability. The delay effect causes pitch transposing.

## In 'n Output Section


**Input Gain / Mix / Output Gain:** Manage drive blend and output level.
**Clip Output Toggle**: Enables final-stage hard clipping. Disabled allows for clipping in the DAW.
**Level Meters:** Input and output real-time peak levels.


## Clipper style & console

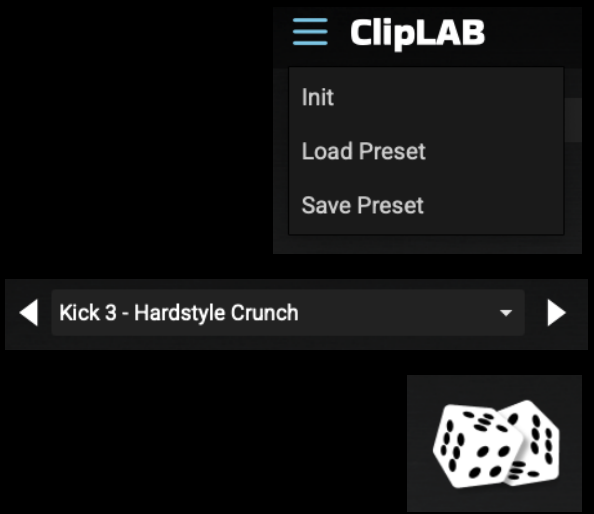
**Clipper style:** Sets algorithm (Hard, Soft, Cubic, Asym, Fold, Fuzz, Rect)
**Oversampling:** 2x, 4x, 8x. (More CPU load when enabled)
**Console & position:** Enables a console algorithm for less digital distortion and more analog warmth. Can be set to different positions in the DSP chain.

## Tone in Key & EQ Snap

**Tone In Key:** Locks tone frequency to nearest musical note.
**EQ Snap (Band 1 & 2):** Snaps EQ band frequency to a musical key.
Display updates to note name (e.g. C#3) and parameter values adjust accordingly.
Disable the toggle to revert to frequency display (Hz) and free tuning.


## Modulation

**Rate:** Set the LFO rate in HZ or tempo synced
**Phase:** Adjust the phase of the LFO.
**Depth:** Set the amount of modulation.
**Wave:** Shape of the LFO (Sine, Saw, Triangle, Square)
**Destination:** EQ1/2 Frequency & Gain, Drive, Symmetry
**Polarity:** Unipolar or bipolar




## Randomization & Presets

**Init:** Resets all values to neutral.
**Randomize (Dice Icon):** Creative inspiration with useful parameter randomization.
**Save / Load:** Store your favorite sounds.
**Preset Browser:** Select from saved .lus presets.
ClipLAB remembers the last preset. Presets can be found on your hard drive in:

`User / Documents / Lussive Audio / Presets`

Presets that no longer are needed can be manually deleted from the folder.

# Tips 'n Tricks

1. Then you hover 2 seconds over any control without movement, you activate the help system. While moving over e.g. knobs there's info shown about what the control does.
   E.G.


2. Even with the EQ on, you can deactivate the Low Cut by setting it all the way left to "off". The same applies to the Sub Shaper. All the way left turns the feature off.


3. Did you use an "Inflator" style plugin before? No need if you keep the "Clip Output" on the bottom right on. It will make sure your audio doesn't exceed 0db. No need for an inflator afterwards in your chain.
   When you turn the Clip Output off, you can benefit from your DAW channel clipping or other effect plugins. You are in control.

4. If you decide to stack multiple ClipLABs for further distortion, be cautious of the Chaos Feature as it will resonate indefinitely. Be kind to your speakers.

5. A general good practice for getting a crunch kick from a 909, is to use the low cut at like 30 to 60 hz, gain EQ 1 around 600 hz, lower EQ 2 around 300 hz and start playing with the Symmetry Clipper controls.