



Auburn Sounds Couture

Version 1.9.1

Level-independent Dynamics Processor



FOREWORD

Thank you for using AUBURN SOUNDS® COUTURE.

COUTURE's goal is **to give you exquisite control over your dynamics**. It solves a surprisingly huge range of mixing problems **with very low effort**. Once mastered, COUTURE can make any track fit in the mix.

Dynamics are key to competitive Electronic Music. Historically most dynamics processors were made to reduce the excessive dynamic range of recorded materials. For sources that are not recorded, or lower dynamic range, this might makes less sense than increasing dynamics to slam a limiter or clipper with **maximum punch**.

COUTURE works by emphasizing attacks while at the same time reducing releases, or vice-versa. The balanced gain compensation allows to **make dynamics decision without being fooled by loudness changes**.

COUTURE embeds a distortion unit working in tandem with the transient shaping. Saturation is a decision that affects dynamics, and thus it makes sense to **think about both saturation and dynamics at the same time**.

COUTURE processing is always **volume-independent**. You can change the input volume and the plug-in output will have the exact same gain reduction and distortion applied. Keep the freedom to change input gain without breaking your dynamics work.

You may use COUTURE to:

- Make individual drum tracks a lot **more dynamic** and punchier
- Remove the "click" out of a **kick drum** sample
- **Give glue** to a mix by emulating a tape machine
- **Give life** to leads and bass tracks
- And many other use cases of your own invention.

It is strongly recommended to **purchase the FULL EDITION** to get to know the real COUTURE and not its stripped down FREE EDITION.

INSTALLATION

First, unzip the content of the AUBURN SOUNDS COUTURE FREE (or FULL) archive.

For macOS users

Double-click on the `.pkg` installer in the `Mac/` directory.

- *You may need to reboot your Mac computer to see the new Audio Unit in hosts.*
- *If GateKeeper complains about the Developer being unidentified, try again with Right Click / "Open".*
- *If you can't open the ZIP, try moving it to your Desktop first.*

For Windows users

Double-click on the `.exe` installer in the `Windows/` directory.

- *When using the VST 2.4 format, you may have to enter the right VST 2.4 directory in order for your DAW to find the plug-in.*

For Linux users

Open the `Linux/` directory.

- **LV2:** Copy the LV2 plug-in (`.lv2` directory) in your LV2 directory.
- **CLAP:** Copy the CLAP plug-in (`.clap` file) in your CLAP directory.
- **VST3:** Copy the VST3 plug-in (`.vst3` directory) in your VST3 directory.

UPDATES

Upgrade to FULL

Purchasing a FULL upgrade on the Auburn Sounds website, or its resellers, always leads to the <https://itch.io> website.

After purchasing or registering an external purchase here, you need to download a new ZIP and **install it on top of the existing FREE plug-in.**

Your existing FREE sessions will keep working with the FULL product.

Getting newer versions

If you can't find links to your purchase, there are two possibilities:

- **Either you linked your purchase to an itch.io account.**
Go to this page and login: <https://itch.io/my-purchases>
- **Or you did *not* link your purchase to an itch.io account.**
Go to this page which can send you download links again:
<https://itch.io/docs/buying/already-bought>

Should I fear broken sessions?

Session compatibility is broken with each **major** version change.

eg: Graillon 1.2 to Graillon 2.0

Session compatibility is preserved with each **minor** version change.

eg: Graillon 2.3 to 2.4

Because your host will see each major version as different plug-ins, you can't loose sessions by upgrading.

COMPATIBILITY

AUBURN SOUNDS COUTURE is available in various plug-in formats:

- CLAP
- VST3
- VST2
- Audio Unit v2
- AAX
- LV2
- FLP

For the following Operating Systems (OS):

- Windows 7 or newer,
- macOS 10.15 or newer,
- Ubuntu 18.04 or newer

Our plug-ins have been tested with a wide variety of Digital Audio Workstations hosts (DAW). However if you find out your DAW isn't well supported, please report a bug at contact@auburnsounds.com .

Supported sampling rates range from 11025 Hz to 192 kHz.

CHANGELOG

Version 1.9.1

- Fix crash during load and DAW scan in macOS Sequoia 15.4.

Version 1.9

- **NEW CLAP format** support.
- **NEW** Preset browser (top-left button).
- Faster UI resize and opening performance.
- Fix bad UI size in Cubase, OBS, Digital Performer.
- Fix bad UI size in FLStudio Mac VST2.
- Fix AU latency reporting in REAPER.
- Fix Studio One Mac crash on resize (CoreGraphics).
- Fix installation path for FL2024.
- **Removed:** No more VST2 support on Linux.
- **Removed:** No more 32-bit support on Windows.
- **Removed:** Minimum macOS version is now 10.15.

Version 1.8

- **NEW** Support FLStudio plug-in format on Windows.
- **NEW** Archive contains a plug-in datasheet.
- Clicking on saturation controls now enables the saturation section.
- Fix CoreGraphics crash in macOS, triggered on resize or opening.
- Slightly nicer UI, some lights computed in linear RGB.
- Faster UI resize.
- Windows installer now asks to close DAW if plugin is open.

Version 1.7

- **Support for macOS Ventura and Sonoma.**
- **Support for AAX arm64 for native M1.**
- **NEW** User manual design.
- The macOS installer should not need Rosetta anymore.
- Linux: fix animation going too fast in some distributions.
- Fix sluggish controls in Ableton + VST3.
- UI is sharper and using less RAM.
- Fix Big Sur UI performance.
- Fix macOS mousewheel being extreme with some mouses.
- Fix Ardour + Monterey crash.
- Many resizing fixes.
- First UI opening is a bit faster.

Version 1.6

- **Resizable UI.** Drag the bottom-right corner to resize the plug-in.
- Fix crash when closing OBS Studio.
- Now comes with a Windows desinstaller.
- Fix latency reporting with LV2 .
- "Clip" was renamed to "Range", which is more accurate.
- "Bass Amount" was renamed to "Bass Detect".

Version 1.5

- **Support for Apple Silicon and macOS 11.0 arm64.** The minimum macOS supported version is now 10.12.
- Fixed Linux X11 crash with multiple instances. Closing the second window while the first is opened would crash. This greatly enhances Linux stability.
- Fixed VST3 latency reporting, which was only correct for 44100 Hz.
- Fixed installer when the "Program Files" directory is localized.

Version 1.4

- Reduced CPU usage of the UI, especially on macOS and Linux.
- Fix Linux crashes and bugs (eg: when opening or closing the UI).
- Fix detection of VST3 by Bitwig on Linux.
- UI rendering is a bit more detailed.

Version 1.3

- **New:** Linux x86_64 support.
- **New:** Windows installer.
- Compatible with macOS 10.15 Catalina.
- Notarization.
- Added AUv2 Audio Component API, brings back GarageBand compatibility.
- Remove high CPU load on stop in AU, VST3, and AAX.
- Fix improper signing of macOS AAX binaries.
- Fix AU validation in Logic.

Version 1.2

- **New:** Dry Mix control.
- **New:** Variable oversampling (FULL Edition only).
- **New:** Envelope detection is now more precise with short attacks.
- Added VST3 format.
- Added Mac installer.
- Fix excessive long volume spikes at startup.

- Fix compatibility with hosts: Audio Hijack.
- 2x less CPU usage from an open UI.
- **Removed:** 32-bit support on macOS.

Version 1.1

- Add Pro Tools bypass support.
- Add compatibility with Open Broadcast Studio (fix VST2 client).
- Fix crash in Cubase and other hosts when reopening the interface.

Version 1.0

- Initial release.

PARAMETERS

Detector Settings

Flat / Human / Sybil

- "Flat" will treat all energy equally in the detector, regardless of their perceived loudness.
- "Sybil" allows to affect harsh frequencies .
- "Human" really means Equal Loudness, this will give the compression a very even feel.

Bass Detect

Turning this knob changes how much COUTURE's Transient Shaper reacts to bass.

Transient Shaper

Sharpen / Soften

- When turned to the right, attacks get emphasized and releases deemphasized.
- When turned to the left, releases get emphasized and attacks deemphasized.

x1 / x2 / x3

Affects the quantity of transient sharpening/softening.

Speed

Affects how long the effect applies after a transient.

Front/Back

Affects where in the transient the effect applies: start or sustain part of the note.

Off/20 Range

Limits possible gain change to +20 dB / -20 dB. This is useful for the most extreme settings who could have a dramatic effect on dynamics.

Output Section

Amount

Scales the whole effect 0 to 100%.

Wet Mix

Output gain for the processed effect.

Dry Mix

Amount of unchanged dry signal. Not affected by Amount.

Saturation Settings

On / Off

Enables saturation or not.

Drive

Quantity of saturation.

Shape

Selects between 6 types of saturation.

HP

HP is a 12dB/oct highpass filter. *Disabled if turned completely left.*

LP

LP is a 6dB/oct lowpass filter. Its cutoff frequency is affected by **Mood**.

Mood

Feeds crest factor of the input signal into the LP cutoff frequency.

Smooth

Softer gain change between and after the saturation, as it need to operate in a volume-independent manner. When turned to the left (default), this will preserve dynamics of the input.

Pre/Post

Whether the highpass and lowpass filter are before or after the saturation stage.

Oversampling

Quantity of oversampling.

DETAILS

Detection Circuit

COUTURE detects transients with a two-band, program-dependent, RMS detector design. The quality of this design sets COUTURE apart, in a league of its own amongst full-band processors.

Volume Independence

COUTURE has volume independent saturation. It is an innovative new effect, similar to FM modulation, that adds harmonic content independently of a threshold.

Stereo Support

COUTURE has 100% linked L/R behaviour. The envelope estimation will only break down for 100% antiphase signals, which should be a rare occurrence.

Latency

COUTURE has a latency of about 14 milliseconds. This is because COUTURE heavily favours lack of phase distortion in the Gain Reduction stage, and also favors being always aligned with the transient event. Be sure to use a host with Plugin Delay Compensation (PDC) to keep proper timings.

CREDITS

COUTURE is a work of love and a few key people provided input so valuable, the product wouldn't exist without them.

Programming, UI, DSP

- Guillaume Piolat

Sound Design, Presets

- Simon Gallifet

QA

- Vas Fuller
- Denis Morin

We'd like to thanks Robert Randolph for the quality and depth of its beta-testing. COUTURE was made a much better plug-in thanks to Robert's input.

Thanks

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QOI (Quite OK Image format)

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