# Tube Modulator

## (AAX, AU, CLAP, VST2, VST3)
produced by Luca Capozzi (Audiority), February 2018.

**Current Manual version:** v1.5

**Tube Modulator** is a collection of several tremolo, vibrato and spatial position effect circuits ranging from the late '50s tube bias tremolo to the late '60s psychedelic vibe pedals.

**Tube Modulator** spatial effects includes a panner, a rotary speaker and a wide stereo "wow & flutter" simulators.
A wide **XY scope** will show you the current amplitude and spatial position modulation to get instant feedback of your settings.

Due to its nature, **Tube Modulator** is *Colored by Design*, adding a great amount of warmth and color to your signal.

Please, read carefully both product specifications and system requirements **before** purchasing any **Audiority** product.

# Tube Modulator

produced by Audiority, February 2018.

## Credits

Code & DSP: Luca Capozzi (Audiority Srl), February 2018.
GUI Design: Luca Capozzi
Published by Audiority Srl

## Specifications

- 7 Tremolo / Vibrato modes
- 3 Spatial Position effects
- 11 Waveforms LFO
- XY Scope
- Parameters Linking
- Tempo Sync

## System Requirements

| PC | MAC (Intel) | MAC (Silicon) |
|---|---|---|
| • Windows 7 64bit or later | • OSX 10.13 or later | • macOS 11.0 or later |
| • Intel i5 or equivalent | • Intel i5 or equivalent | • M1 or higher |
| • 4 GB RAM | • 4GB RAM | • 4 GB RAM |
| • Screen resolution: 1024×768 | • Screen resolution: 1024×768 | • Screen resolution: 1024×768 |
| • VST2, VST3, AU, CLAP 64-bit host | • VST2, VST3, AU, CLAP 64-bit host | • VST2, VST3, AU, CLAP 64-bit host |
| • PT11 or higher, AAX 64-bit host | • PT11 or higher, AAX 64-bit host | • PT11 or higher, AAX 64-bit host |

# FILE LOCATIONS

## Mac

All presets, license, IR files and settings are located in:
/Users/Shared/Audiority/

AAX, CLAP and VST plugins will be placed in their own Audiority sub-folder located in:

AAX:    /Library/Application Support/Avid/Audio/Plug-Ins/Audiority
CLAP:  /Library/Audio/Plug-Ins/CLAP/Audiority
VST:    /Library/Audio/Plug-Ins/VST/Audiority
VST3:  /Library/Audio/Plug-Ins/VST3/Audiority

## PC

All presets, license, IR files and settings are located to:
C:\Users\Public\Public Documents\Audiority

AAX, CLAP and VST plugins will be placed in their own Audiority sub-folder, usually located in:

AAX:    C:\Program Files\Avid\Audio\Plug-Ins\Audiority
CLAP:  {Your CLAP Path}\Audiority
VST:    {Your VST Path}\Audiority
VST3:  {Your VST3 Path}\Audiority

# PLUGIN ACTIVATION



Once you install and open the plugin for the first time, it will be in **Demo Mode** until a license file is loaded. In Demo Mode the plugin will output 3 seconds of silence every minute.

You can activate the plugin either OFFLINE or ONLINE.

## OFFLINE ACTIVATION
If you purchased the plugin from our site, you should have received an email to download the installers and the license file. Save the license file you got with your purchase email (or via our User Area) anywhere on your computer.

Then, to activate the plugin, click on the **Audiority** logo and select "**Register**". The Registration window will pop up allowing you to load the license file you got while purchasing the plugin by clicking the "**Load License**" button. Alternatively, you can drag and drop the license file on the registration window.

**NOTE:** If you purchased the plugin from one of our dealers, please check the "**USER AREA AND REDEEM CODES**" section below.

## ONLINE ACTIVATION
If you are registered to our User Area, then you can activate the plugin online.



Insert your Username (or email address), your password and click the "**Login**" button. The license file will be automatically delivered in your computer and the plugin will be activated.

# USER AREA AND REDEEM CODES

If you purchased from one of our dealers, then you should have received an email with a redeem code. This code is required to deposit a license in your User Area account and let you download the license file or activate the plugin online.

If you don't have an User Area account yet, please follow these steps:

1) Go to https://www.audiority.com/register and fill out the signup form.

IMPORTANT: Please be sure to register with the **e-mail address you use for your purchases**, otherwise your products will not show. Since we use reCAPTCHA for registration only, please temporarily disable any ad blocker you are using.
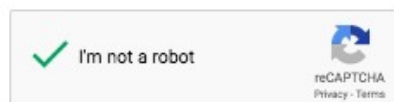
Username

Heisenberg58

First Name

Walter

Last Name

White

Purchase E-mail Address

w.white@pollos.com

Password

•••••••••••

Confirm Password

•••••••••••

☑ I read and agree to the Privacy Policy and Terms of Use

✓ I'm not a robot
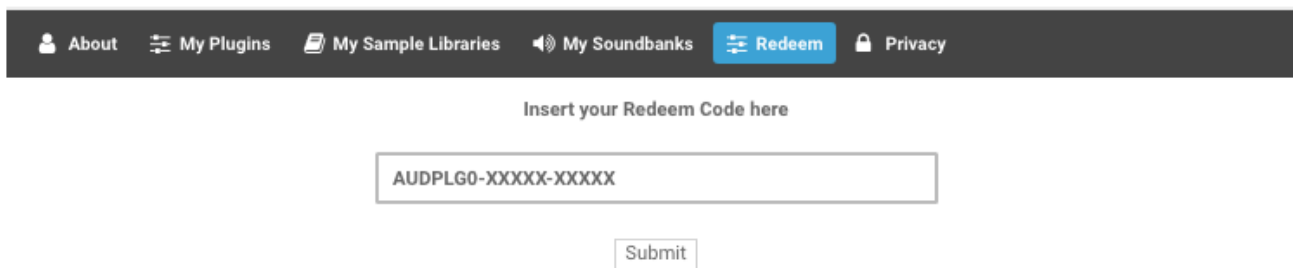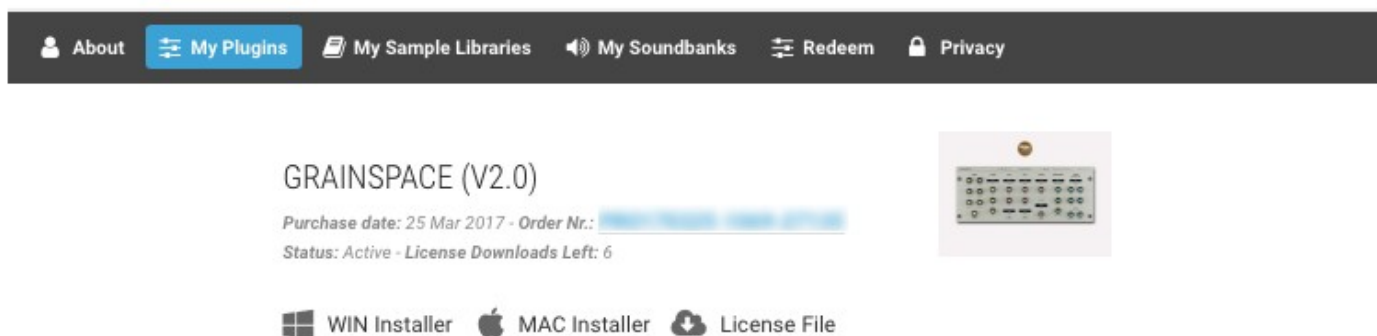reCAPTCHA
Privacy - Terms

Register          Login

2) Once registered, log in to your account by clicking the User Area section of our site. Click the **REDEEM** section of your account and paste the code you received via email from our dealer.
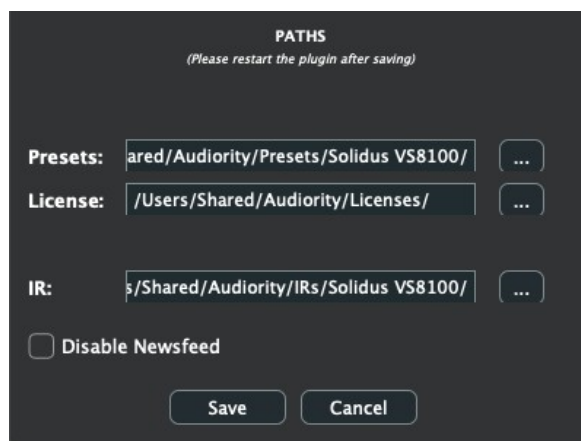


3) After submitting the code, a license will be deposited in your account and will be shown in "**MY PLUGINS**" section of your User Area.



4) Now you can click "License File" and save the license anywhere on your computer and ready to be loaded through the plugin registration window. You can also skip this part and activate your plugin online (see previous section of this manual).

## USER PATHS SETTING



By selecting "**Settings**" from the logo menu, you can change the path for **Presets, License** and **IR** folders.
You can also disable our Newsfeed from here.
**Note:** Please do not move the **Settings** folder from its default location.

# TUBE MODULATOR PARAMETERS



## TOOLBAR

The Toolbar allows you to manage the plugin presets, register the plugin and set some global parameters.
Click the **AUDIORITY** logo, in the top left corner of the Toolbar, to visit our website and social profiles, register the plugin, change the interface size and customize the paths for license and preset files. The **HQ** button will enable oversampling, useful to reduce aliasing when the signal saturates. Use the **Randomize** and **Reset** buttons to experiment with random presets or restoring it to its saved version. The **NOTIFICATIONS** (bell) icon will show you when a new update is available and other relevant news and offers.

## AMPLITUDE MODES (Horizontal Axis on the scope)

| | |
|---|---|
| **TUBE TREM** | '59 style tube bias tremolo. By changing the operating parameters of the pre-amp tubes, the signal can be cut off and then brought back again. This technique has been used on some late '50s / early '60s guitar tube amplifiers. |
| **HARMONIC TREM** | '61 style harmonic tremolo. The original design, appeared in very few early '60s guitar amplifiers, used three tubes to split the low and high frequencies of the incoming signal. The effect is then achieved by modulating the parameters of those rudimental filters. Our design modulates a baxandall circuit instead, to avoid excessive CPU usage. |
| **VIBRATO** | Classic delay-based vibrato before the tube pre-amp stage. |
| **CHORUS VIBE** | A portion of the dry signal is summed to the vibrato signal to get a warm early chorus effect. |
| **HARMONIC VIBE** | Like CHORUS VIBE, but the baxandall circuit following the tube pre-amp is modulated to get a unique harmonic tremolo and vibrato mixup. |
| **'68 VIBE** | Simulation of the most famous late '60s vibrato pedal. This mode is equivalent to the Vibrato switch setting of that pedal. |
| **'68 CHORUS VIBE** | This mode is equivalent to the Chorus switch setting of the same '68 vibrato pedal. |

## POSITION MODES (Vertical Axis on the scope)

| | |
|---|---|
| **PANNER** | Automatic panning designed by changing the pre-amp tube input gain. |
| **LESLIE** | Early rotary speaker simulator, very similar to a vibrato pedal, giving the signal a slight doppler effect. |
| **WOW FLUTTER** | Wide stereo modulator. It widens up the incoming signal while "detuning" it through its modulation, providing vinyl and tape like pitch fluctuations. |

## COMMON PARAMETERS

| | |
|---|---|
| **LFO** | Select between 11 different waveforms. |
| **RATE** | Modulation speed from 0.1Hz to 10Hz. If **SYNC** is enabled, it ranges from 32x to 1/32nd T. If **LINK** is enabled, both **RATE** knobs will be controlled at once. |
| **AMOUNT** | Sets the depth of the effect. If **LINK** is enabled, both **AMOUNT** knobs will be controlled at once. This will also control the depth of the **XY Scope** signal. |

## GLOBAL PARAMETERS

| | |
|---|---|
| **IN/OUT** | Adjust the input and output volumes by +/- 24dB. |
| **MIX** | Adjust the balance between DRY and WET signal. |
| **SYNC** | Sets the LFO rates to beat divisions. |
| **LINK** | Links LFO Rate and Amount of both channels. |

## RESIZING CONTROLS (Audiority logo menu)

| | |
|---|---|
| **Small / Default / Big Size** | Reduce, reset or increase the size of the plugin interface. |
| **Resizing Corner** | You can resize from the bottom right corner of the GUI |

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**TIP**
Right-click on the XY Scope to change its display mode.

# CHANGELOG

**v1.5 (May 2025)**
- NEW: Framework update
- NEW: Locking a parameter will show a lock icon on the related component
- FIX: Some presets showing wrong knob value for Tremolo and/or Panning types
- FIX: Paths unsanitized on Windows
- CHANGE: Improved UI resolution
- CHANGE: Improved XY Scope
- BREAKING CHANGE: macOS minimum version is now 10.13

**v1.4 (Feb 2023)**
- NEW: Updated Framework
- NEW: AAX Native Silicon
- NEW: CLAP Plugin Format
- FIX: Linking parameters clogging automations

**v1.3.2 (July 2021)**
– FIX: Rare condition where licenses get invalidated

**v1.3.1 (July 2021)**
– FIX: Saved session randomly not loaded as saved

**v1.3** (June 2021)
- FIX: Noise spike when engaging Tremolo amount
- NEW: Universal 2 Binary for Apple Silicon Macs
- NEW: Improved GUI
- NEW: Global HQ
- NEW: Corner Resizer
- CHANGE: Updated Framework

**v1.2.1** (May 2020)
- FIX: XY Scope reduced framewate
- NEW: Display modes for XY Scope

**v1.2** (May 2020)
- NEW: HQ Mode
- NEW: VST3 plugin format
- NEW: Newsfeed
- FIX: Signal processed if Amount is at 0
- FIX: Phase cancellation mixing dry and wet signal
- FIX: Parameters not correctly initialized in Reason
- FIX: Silence triggered randomly in some configurations
- FIX: Mac OSX Catalina support
- BREAKING CHANGE: Dropped 32bit support

**v1.1** (October 2018)
- FIX: Sync not working on signature changes
- FIX: Wrong LFO rates on signature changes
- IMP: Improved load time
- IMP: Framework updates

**v1.0.1** (February 2018)
– FIX: Presets not recalled while loading projects (VST)
– FIX: Pro Tools crashing while linking parameters
– FIX: Modulation still audible while Amount is 0 (68 Vibe)
– FIX: No popup on knobs

**v1.0** (February 2018)
– Original release

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Last updated on Feb 24th, 2025

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We hope you will enjoy it as much as we did.

If you have any question, concerns, technical issues or even for just say 'Hello', get in touch with us at:

info@audiority.com

or checkout our site at www.audiority.com

Cheers,
Luca

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