

# Techivation T-Saturator

## User Manual



# Techivation T-Saturator

## Overview

T-Saturator is a smart level-independent saturation plug-in that gives you precise control over your track's tone and character. Whether you're looking for subtle warmth, enhanced dynamic range, or screaming distortion, T-Saturator will get you there with ease.

Learn more: <https://techivation.com/t-saturator/>

# Techivation T-Saturator

## Features

- Saturation amount
- Smash
- Crunch
- Four Saturation Modes
- Frequency Range
- Oversampling Up to 8X
- Dry/wet Mix
- Make Up Gain
- Auto Gain
- Mid-Side and Left & Right
- Internal On-Off
- Input-Output Level Meters
- A/B Switch
- Undo-Redo Options
- Presets
- Scaleable Graphic User Interface (GUI)
- Internal Menu
- Show/Hide Tooltips
- Stereo and Mono

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## Saturation

“Saturation” controls the amount of harmonic distortion that is dynamically applied to the plug-in input. T-Saturator operates independently of the input level, and the same amount of saturation is applied evenly to all parts of your signal. Once you set a particular “Saturation” value, the same amount of harmonics will be generated regardless of how loud or quiet your signal gets, allowing you to dial in the precise character your track needs.

This distinguishes T-Saturator from regular static saturation plug-ins, whose effect intensity depends on the input level. The level-dependent behaviour of static saturators leads to more saturation being applied to the louder attack portions of the signal. This effect can often be musical and desirable. This is why T-Saturator offers the “Smash” control that allows to achieve the same effect without sacrificing the precise control over your track’s character.



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## Smash

“Smash” control allows you to offset the amount of saturation that is applied to the attack portions of your signal (transients).

When “Smash” is set to zero, the exact same amount of saturation is applied to the whole signal.

Raising “Smash” above zero will result in more saturation being applied to the transients. This makes the dynamic response of T-Saturator resemble that of the regular static saturators.

Setting “Smash” to negative values will result in transients being saturated less than the rest of the signal. This dynamic response can make T-Saturator sound more open, comparable to the effect of fast compression.



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## Crunch

“Crunch” control allows you to choose the intensity and character of the selected saturation algorithm.

Lower values will generally give you a more gentle and subtle sound, great for thickening up and increasing the loudness of your tracks without dramatically altering them. Higher “Crunch” settings unleash the more aggressive side of T-Saturator, adding drive and colour to your tracks.



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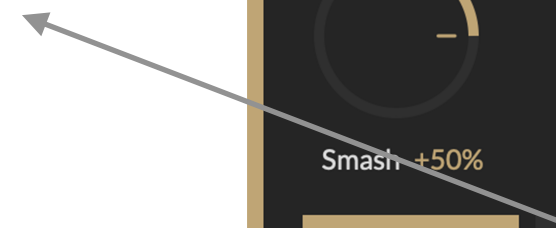
## Saturation Modes

“**Tube**” algorithm models the asymmetric response of triode vacuum tubes. This is the most aggressive of the T-Saturator modes, capable of producing screaming distortion.

“**Tape**” algorithm captures the unique response of driven magnetic tape with its lush warm sound.

“**Clip**” algorithm offers soft clipping paired with an expander-like effect that increases the dynamic range of the signal at higher “Crunch” settings.

“**Fold**” algorithm is a gentle wave-folder, with the number and complexity of folds increasing as you raise the “Crunch” value.





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## Frequency Range Control

“Frequency Range” slider allows to apply saturation to just the specified range, while keeping the rest of the signal unaffected. This control lets you precisely craft the tone and the character of your tracks. For example, you can target just the low frequencies to emphasise the bass, or target just the high frequencies to add brightness and sheen without any harshness.



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## Oversampling Up to 8X

“Oversampling” in T-Saturator effectively reduces aliasing by internally processing audio at a higher sample rate than the host application, with the capability to reach up to 8 times the original sample rate.

While higher oversampling rates yield better results, they also require more processing resources.



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## Dry/wet Mix

The 'Mix' control allows you to adjust the balance between the input and output signals, making it an ideal tool for parallel processing.

With a range from 0% (effectively bypassing the plug-in) to 100% (full application of the plug-in effect), this versatile option lets you fine-tune the blend to achieve the desired sonic characteristics.

By default, the 'Mix' control is set to 100%, and double-clicking on it will quickly reset it to this default value, providing a convenient way to return to the fully processed sound.

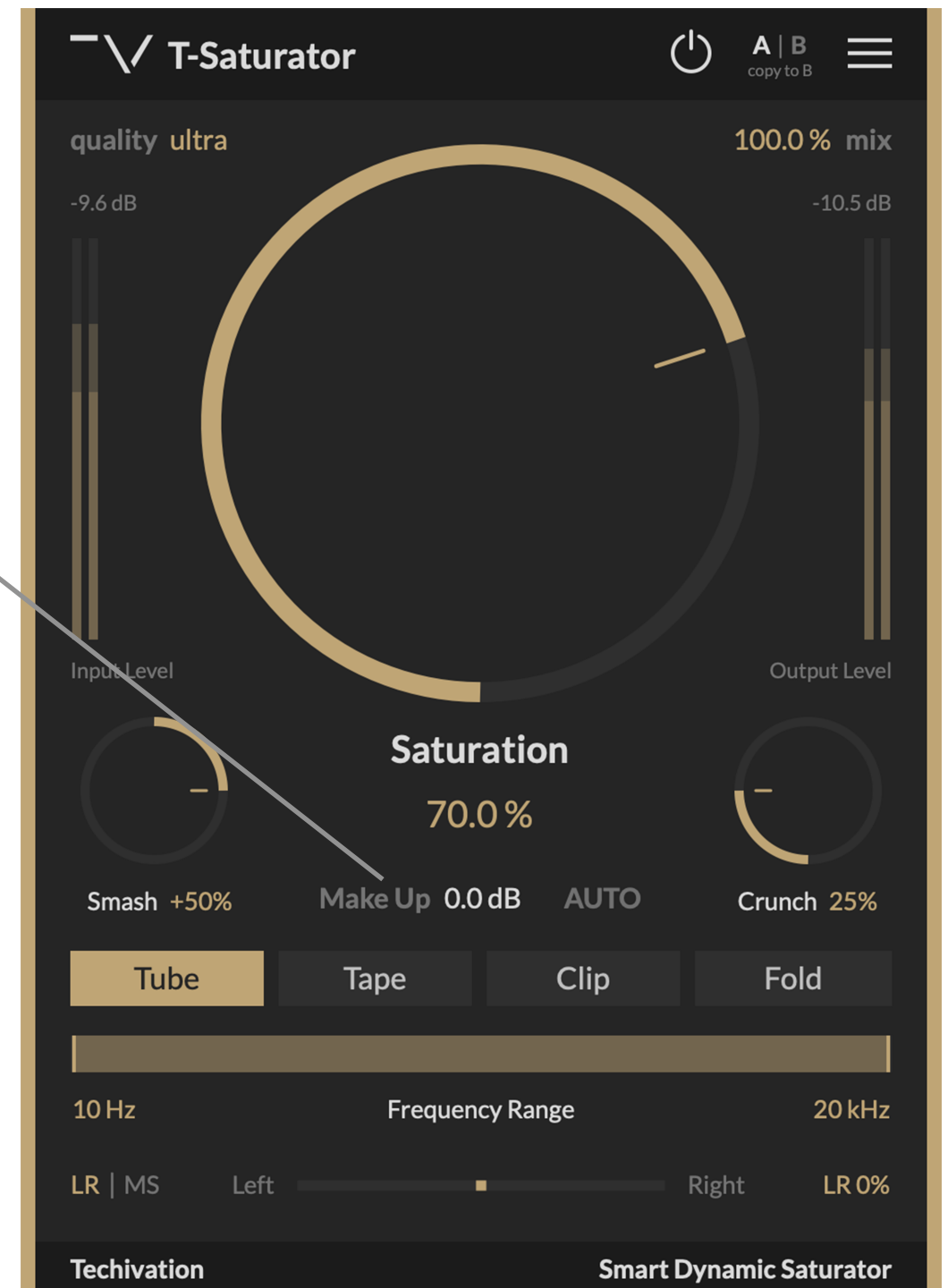


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## Make Up Gain

“Make Up Gain” controls the amount of gain applied to the processed frequency range. It is particularly useful when you are applying saturation to only a limited range of frequencies, as it allows to dial in the precise tonal balance your track needs. When you enable the 'Auto Gain' option, the plug-in intelligently sets the make up gain automatically, taking the guesswork out of the process and ensuring optimal audio quality with minimal user intervention.



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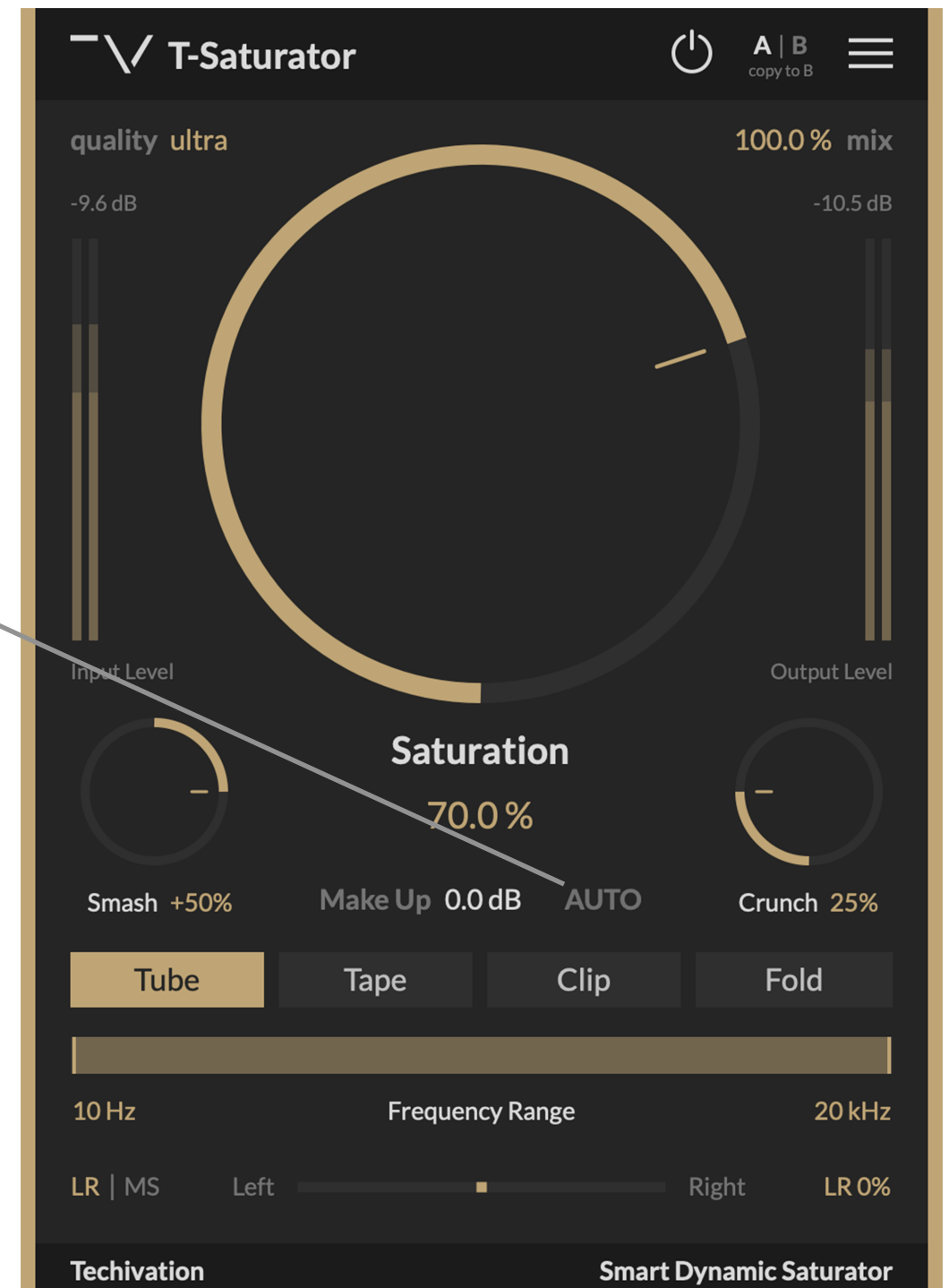
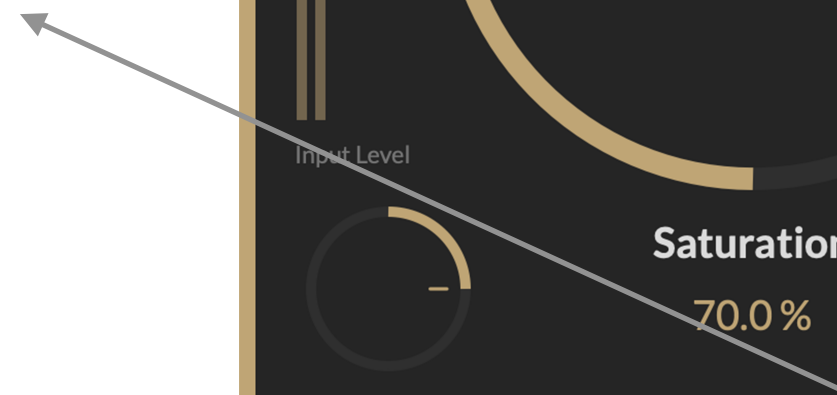
[Features](#)

## Auto Gain

To make level matching easier while you tweak the T-Saturator settings, it offers the 'Auto Gain' mode.

When enabled, 'Auto Gain' continuously measures the pre- and post-saturation level, and automatically applies the appropriate make up gain to the processed frequency range. Since 'Auto Gain' is based on measurement, it might need a moment to adjust to quick parameter changes.

**Important:** 'Auto Gain' continuously adjusts the make up gain, so it is recommended to only enable it while you are tweaking the plug-in settings. When you disable 'Auto Gain', it sets the 'Make Up' gain parameter to the latest measured value.



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## Mid-Side and Left & Right

This feature allows you to switch processing between LR (left & right) or MS (mid-side) modes, and control the amount of the plug-in's effect on the LR or MS channels of your stereo tracks.

In LR mode, the plugin processes the left and the right channel independently. If you need to preserve the stereo balance of your track, switch the processing to MS mode.

You can switch the mode by clicking on LR (left & right) or MS (mid-side) on the left side of the balance slider, and set the amount either by dragging the slider to the right and left, or by clicking, dragging, or typing the percentage value on the bottom right side.



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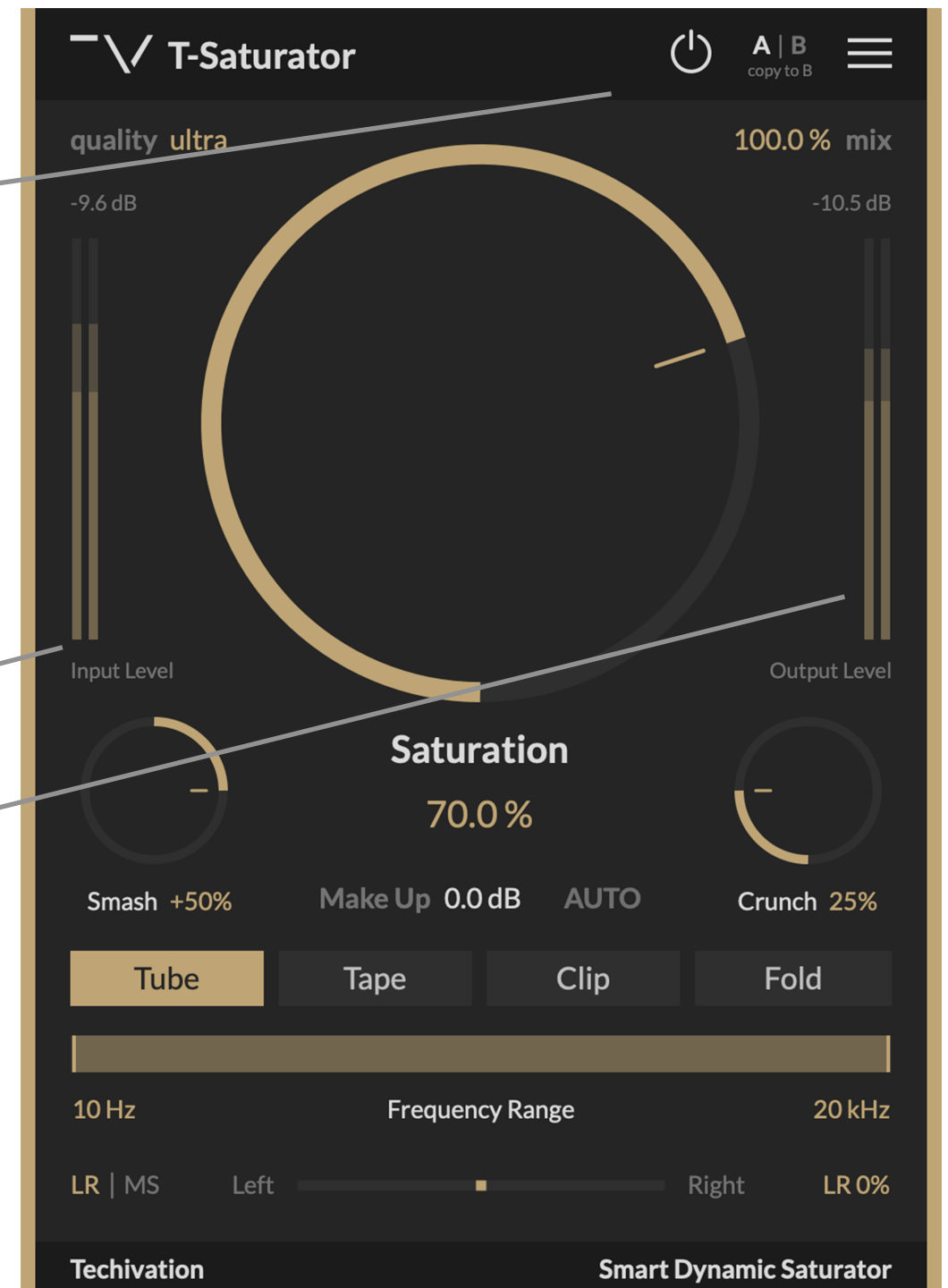
## Internal On-Off Switch

The plug-in features a dedicated bypass/on control, which allows for the swift enabling or bypassing of the effect. This user-friendly control is designed to help avoid potential clicks or audio artefacts that may occur when toggling the effect on or off directly within the DAW host.

## Input-Output Level Meters

Input-Output Level Meters are visual displays that show the audio levels of the input and output signals before and after processing.

These meters provide real-time feedback on the input and output levels, allowing you to monitor the changes in amplitude that occur during the audio processing.



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## Presets

The plug-in offers the convenience of loading pre-existing presets as well as creating and saving your own custom presets using the menu located in the top-right corner.

This feature enables you to quickly access and apply a variety of settings tailored to specific mixing needs, streamlining your workflow and providing a consistent starting point for your audio processing tasks.

Additionally, by saving your own custom presets, you can easily recall your preferred settings across different projects, ensuring a cohesive and efficient approach to your audio production.



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## A | B Comparison

The A/B buttons provide a convenient way to compare different options and find the optimal setting for your audio processing needs. With just a click, you can easily switch between two different versions of the same processing chain and compare the results. Moreover, the 'Copy A to B' and 'Copy B to A' functions enable you to quickly test small tweaks and adjustments by copying the settings from one version to the other and comparing their effects. By using the A/B buttons in conjunction with the 'Copy' functions, you can efficiently assess subtle variations in your processing and make informed decisions on the best approach to take. This streamlined workflow saves you time and effort, allowing you to softness on the creative aspects of your mix without getting bogged down in technical details.



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## Undo/Redo

The T-Saturator plug-in comes equipped with the handy feature of built-in 'Undo' and 'Redo' options, providing added peace of mind while working on your audio processing. With these functions, you can easily revert to previous settings or redo changes that were made in error, saving time and eliminating the stress of potentially losing valuable adjustments.

The 'Undo' and 'Redo' options allow you to experiment with different settings and configurations without the fear of permanently altering your audio. Additionally, this feature enhances your workflow by providing an efficient way to backtrack and explore alternative processing paths, enabling you to make more informed decisions in your audio production.



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## GUI Scale

The interface scaling feature in T-Saturator allows you to customise the size of the GUI to suit your preferences and optimise your workflow. With a range of scaling options available, from 50% to 150%, you can personalise the interface to match your visual and working style. One of the great things about this feature is that the visual quality of the plug-in remains consistent, regardless of the scale you choose. This ensures that the interface remains clear and legible, even when scaled up or down to fit your preferred viewing size. Additionally, the interface scaling feature in T-Saturator is optimized for high-end quality monitors, including retina displays, ensuring that the plug-in looks great and performs reliably on a variety of devices.

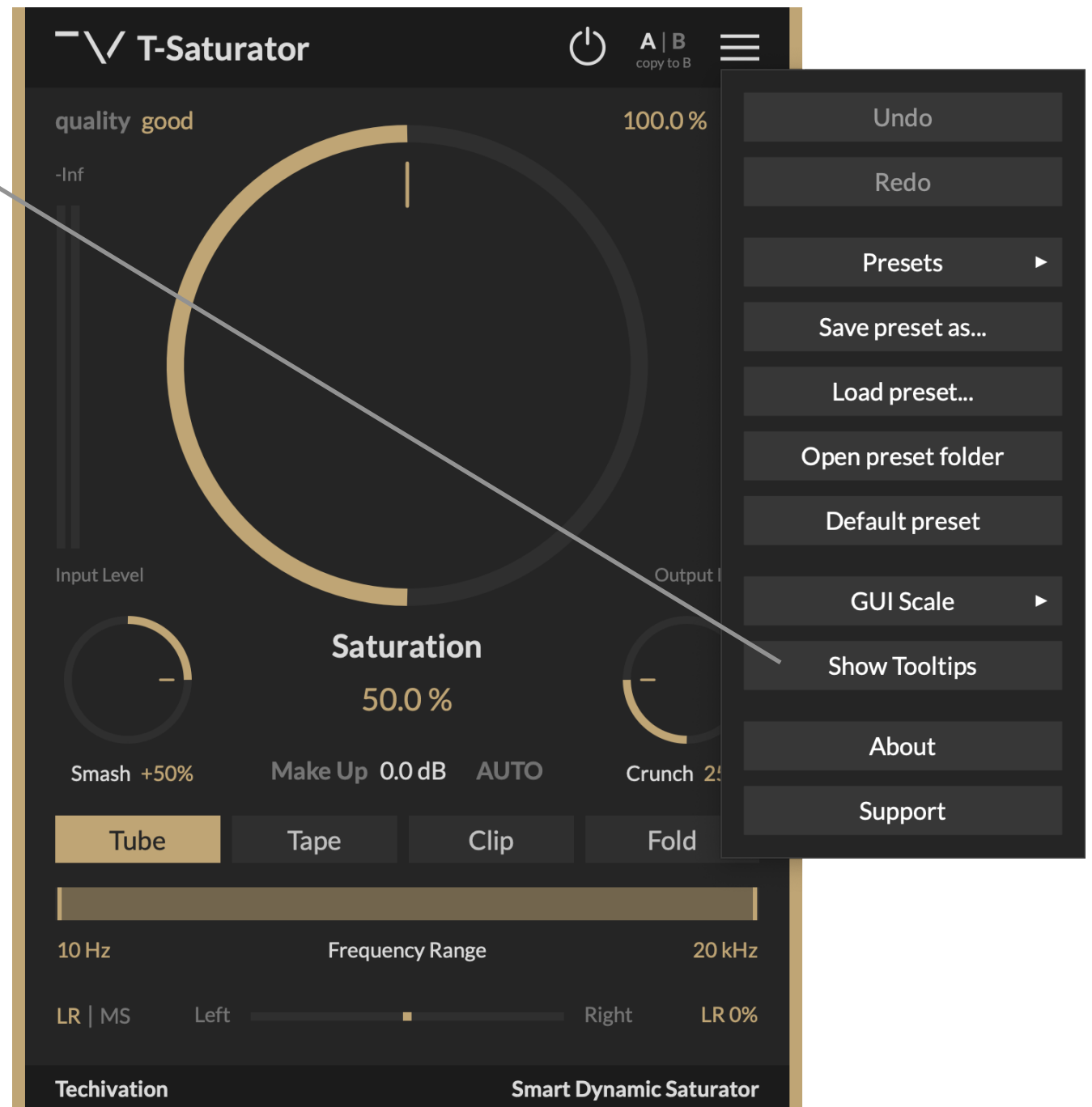


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## Tooltips

T-Saturator features a handy 'tooltips' option that you can enable or disable from the plugin's menu. When this option is enabled, you can see a brief description of each part of the user interface by simply holding your mouse over that particular section. Tooltips are an excellent way to quickly learn about the various controls and settings in the plugin, making it easier to navigate and use the interface effectively. They can provide helpful information about each parameter, including its function, range, and how it affects the audio signal. Enabling the tooltips option is a great way to speed up your workflow and make it easier to work with the T-Saturator plugin. If you're not sure what a particular control does, simply hover your mouse over it to get a quick and informative tooltip.



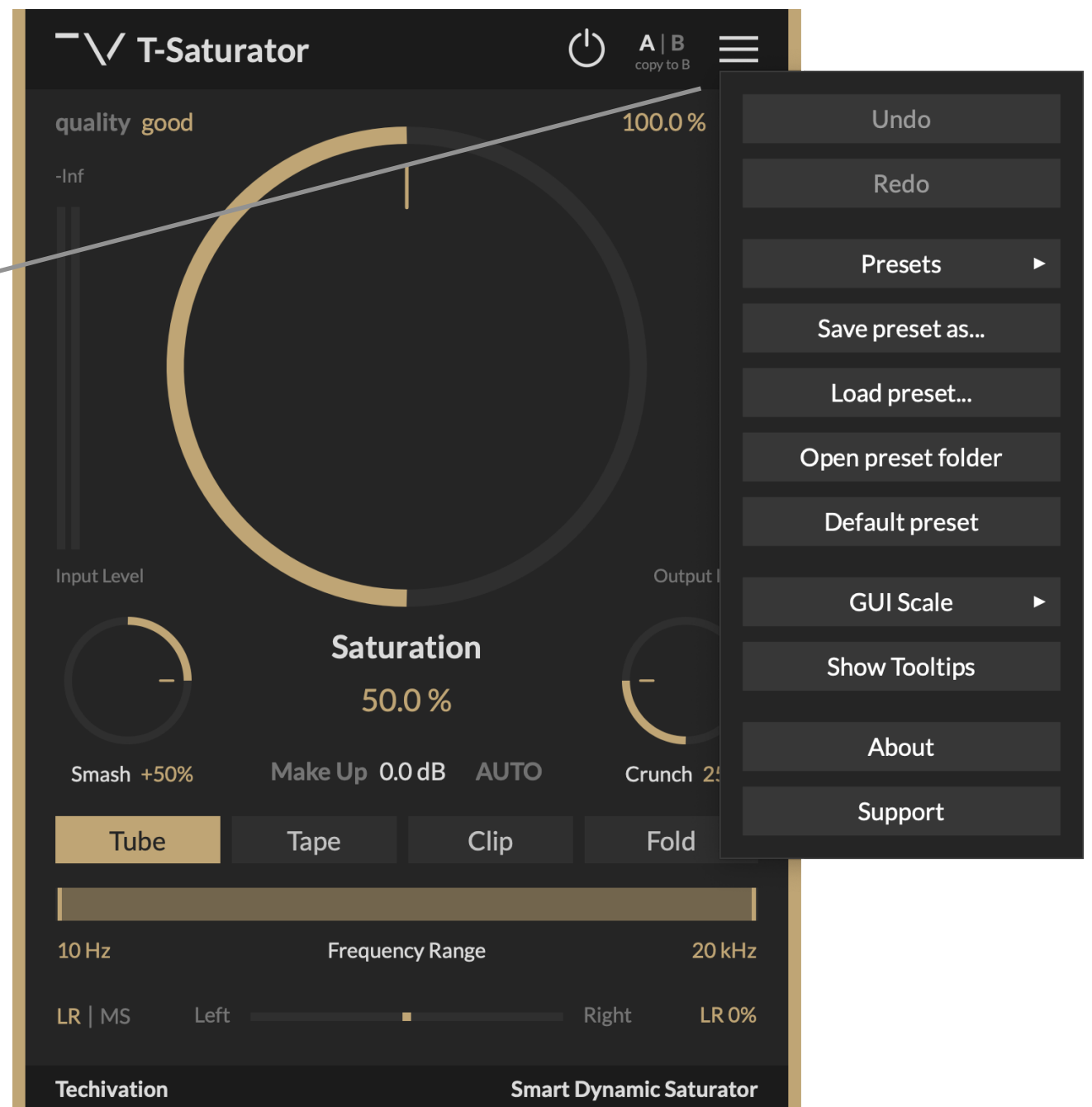
# Techivation T-Saturator

Features

## Plug-in Menu

A quick menu of useful features:

- Undo
- Redo
- Presets
- Save preset as...
- Load preset...
- Open preset folder
- Default preset
- GUI Scale
- Show/Hide Tooltips
- About
- Support



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## Compatibility

**Plugin formats:** VST, VST3, AU, AAX.

**Platforms supported:** regular macOS installer supports 10.13 (High Sierra) and up, legacy macOS installer is from 10.9 (El Capitan) to 10.12 (Sierra)  
Windows 7 and up. 32 & 64 bits

DAWs supported: Ableton Live, Logic Pro, Avid Protools, FL Studio, Cubase, Nuendo, Reaper, and other major DAW softwares on the market that support 'Sidechain' processing.

## Activation

T-Saturator is a free plug-in, meaning there is no charge for using it due to our [terms & conditions](#). As soon as you download and install the plug-in, you're ready to go. Users are free to use the T-Saturator plug-in for both commercial and non-commercial audio/music production projects.

## Support

For any support inquiries check out [techivation.com/support](https://techivation.com/support)

Check out [techivation.com/terms-conditions](https://techivation.com/terms-conditions) to learn more about the rights.

If you have any questions, feel free to reach out to us via email.  
[info@techivation.com](mailto:info@techivation.com) or [techivation@gmail.com](mailto:techivation@gmail.com)

## Installation

A software download is supplied with your sign-up/purchase, however you can always go to [Techivation.com](https://Techivation.com) for the latest software updates.

After downloading, unzip the file and select either Mac or PC installer depending on your system. (Warning: don't run the PC file on a Mac and vice-versa).

- Mac: Double click on the PKG installer and follow the instructions
- PC/Windows: Extract the file content. Double click on the setup file and follow the instructions

**\*Note:** If you have the Mac OS X 10.9 to 10.11 you should download the legacy macOS installer.

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## Uninstall Locations

### MAC OS

AU: /Library/Audio/Plug-ins/Components/

VST: /Library/Audio/Plug-ins/VST/

VST3: /Library/Audio/Plug-ins/VST3/

AAX: /Library/Application Support/Avid/Audio/Plug-Ins/

Other data: ~/Library/Application Support/Techivation

### WINDOWS

VST: Custom path from installer

VST3: \Program Files\Common Files\VST3\

or \Program files(x86)\Common Files\VST3

AAX: \Program Files\Common Files\Avid\Audio\Plug-Ins\

Other data: C:\ProgramData\Techivation 'Note: this folder is hidden so you need to change your settings to see the hidden files first.'