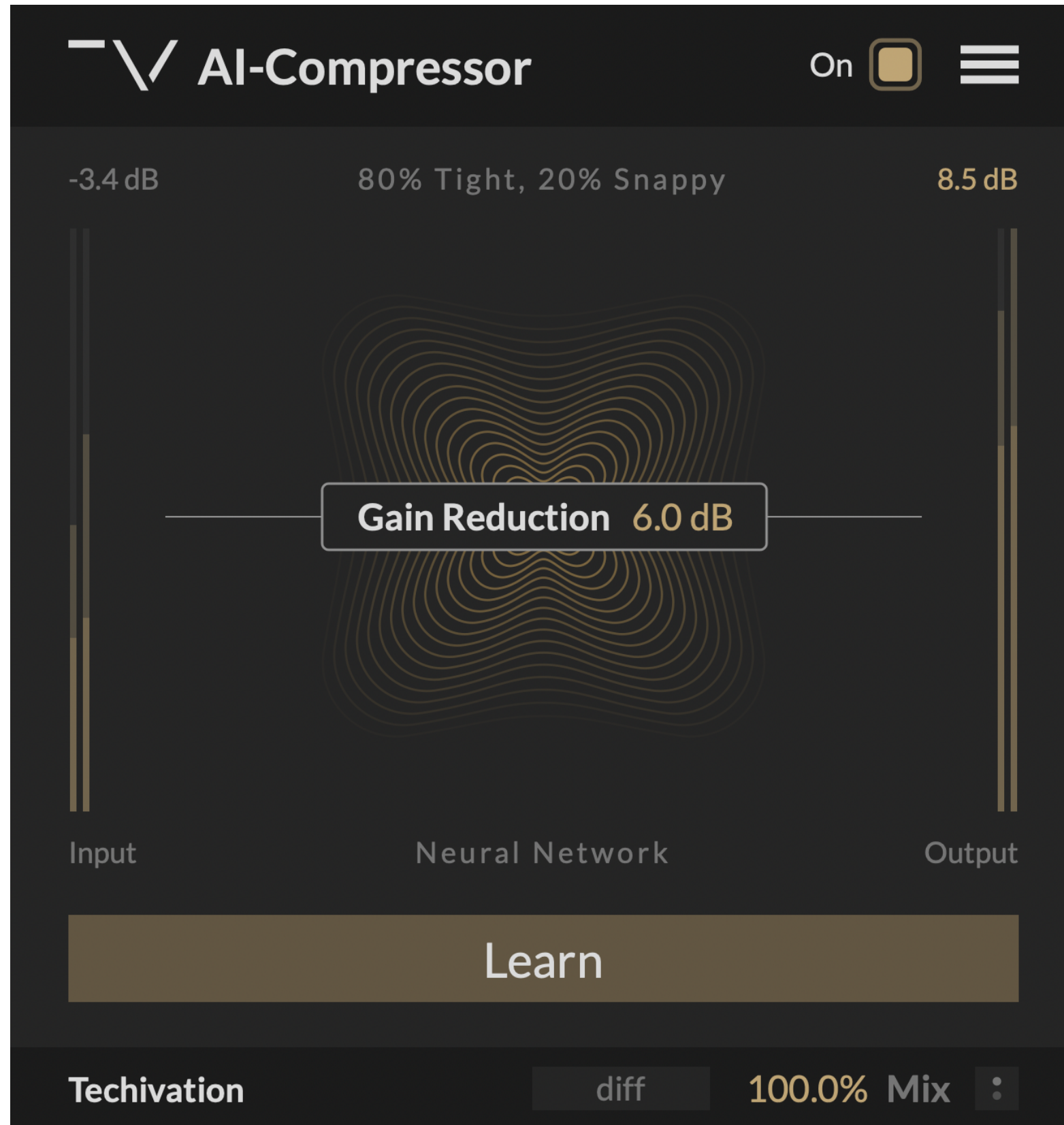


Techivation AI-Compressor

User Manual



Techivation AI-Compressor

Overview

AI-Compressor is the definitive answer to dynamic range control. It increases the perceived loudness of your tracks with precision and clarity, while maintaining natural tonal balance.

Setting up a compressor has never been this easy! AI-Compressor eliminates the need to manage threshold, ratio, and make up gain by letting you directly set the amount of Gain Reduction that you want. Its advanced algorithm will bring up the subtle details of your track, while keeping the loudest peaks unchanged.

Impeccable peak control. AI-Compressor captures and compresses the entire transient without letting any of it through. Instead of reshaping transients, it preserves them, free of distortion or artefacts. The result is precise and predictable reduction of dynamic range with no compromises.

Harmonic transparency. AI-Compressor is designed to produce no additional harmonics, keeping your authentic tone untouched. It shapes dynamics with precision and clarity, avoiding coloration and completely sidestepping aliasing — no CPU-intensive oversampling required.

Tonally balanced compression. Humans and compressors perceive frequencies differently. AI-Compressor ensures a balanced effect across the spectrum, going beyond the traditional sidechain high-pass. Its Perceptual Filter increases the compression strength for higher frequencies without destroying transients, delivering consistent loudness that feels right.

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Story

Techivation AI-series strives to create streamlined and adaptive tools that make technology invisible — only your creativity remains. To achieve that, we combine advanced adaptive algorithms with machine learning to refine an effect down to a single control.

Designing AI-Compressor presented us with a challenge. Compression has become an increasingly versatile tool used for shaping the transients, enhancing the tone, creating movement, moulding the groove, gluing elements together, the list goes on.

But if we were to try and capture every facet of compression behind a single control, we would inevitably deprive the audio engineer of choice and agency, giving too much power to our algorithms and AI.

Instead, we decided to focus on the core essence of compression — reducing the dynamic range. Raising the perceived loudness of your track in a clean and balanced way, without increasing the peak levels.

And so, we developed a brand new compression algorithm. Adaptive from the ground up, designed to preserve the transients rather than shape them, it gives you direct control over the amount of gain reduction.

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We also made sure that AI-Compressor hears the music the same way you do. Its advanced Perceptual Filter balances the compression based on what feels loud or quiet, rather than following the dry math of digital audio.

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Features

As the AI-Compressor is an AI-powered plug-in, it operates by intelligently adapting to your track, offering superb results without getting in the way of your creativity. The plug-in's advanced adaptive algorithm and built-in AI allow the controls to be refined down to just a handful of parameters.

- 'Learn' button
- Gain Reduction
- Output control
- Dry/wet mix
- Diff
- Internal On-Off Switch
- Enable/Disable Perceptual Filter
- Input-Output Level Meters
- Copy/Paste State
- Undo-Redo Options
- Scaleable Graphic User Interface (GUI)
- Internal Menu
- Show/Hide Tooltips
- Stereo and Mono

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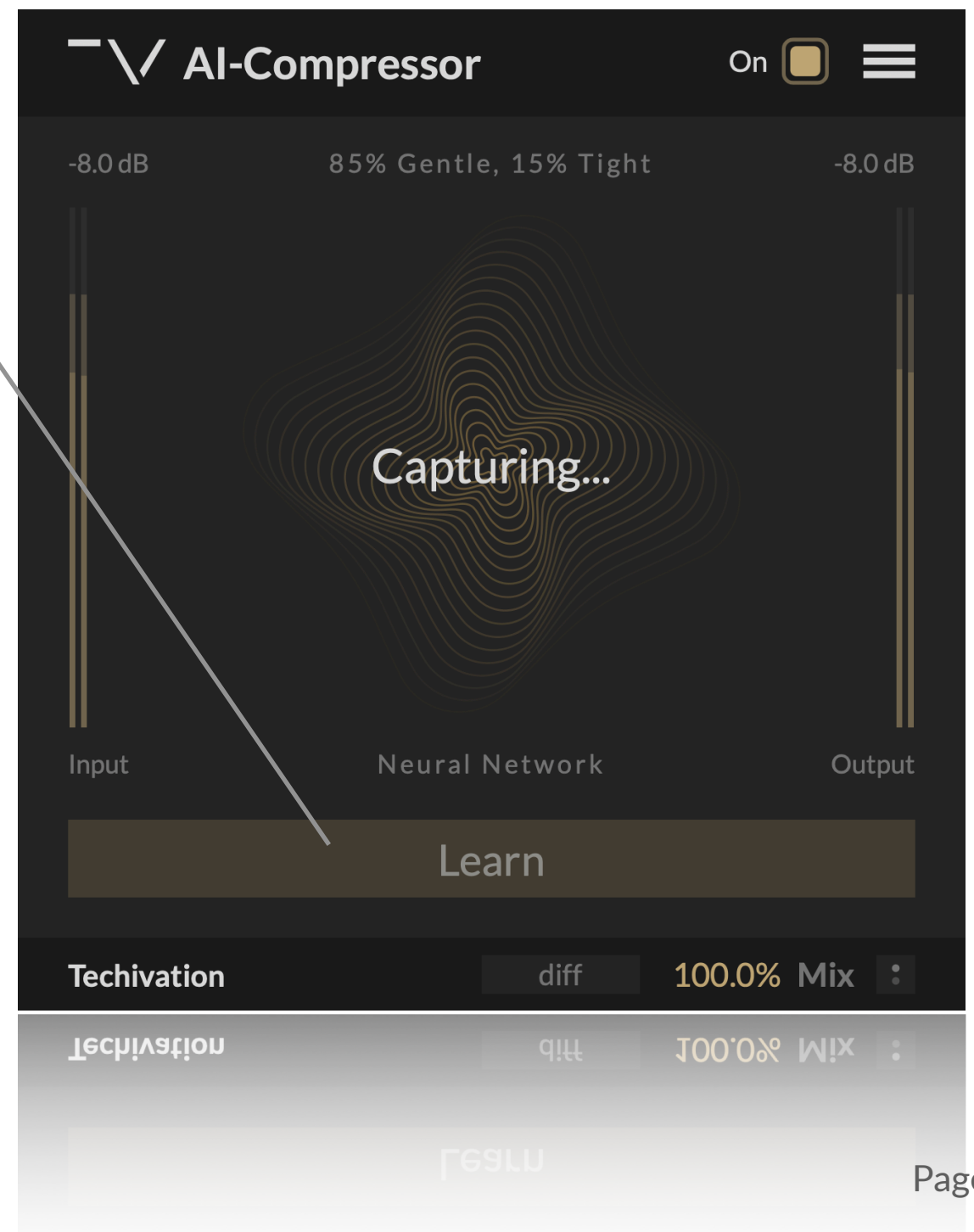
[Features](#)

‘Learn’ button

The “**Learn**” button enables the plug-in to capture and analyse the input and intelligently adapt the algorithm to your sound. AI-Compressor will capture 4 seconds of audio for analysis. Make sure to play the loudest part of your track when learning to get the best results.

During learning, AI-Compressor will study the levels of your audio, and identify the type of the signal source. Based on this, the plug-in will adjust its compression profile to suit your track. Additionally, AI-Compressor will measure the spectral contour of your audio and set up the perceptual filter to ensure tonally balanced compression.

Once the learning process is complete, the plugin will display the status of its processing engine, for example, “80% Gentle, 20% Tight”. The state of the plug-in engine is saved with your DAW session, so you don’t need to re-learn when opening an existing session that contains AI-Compressor.



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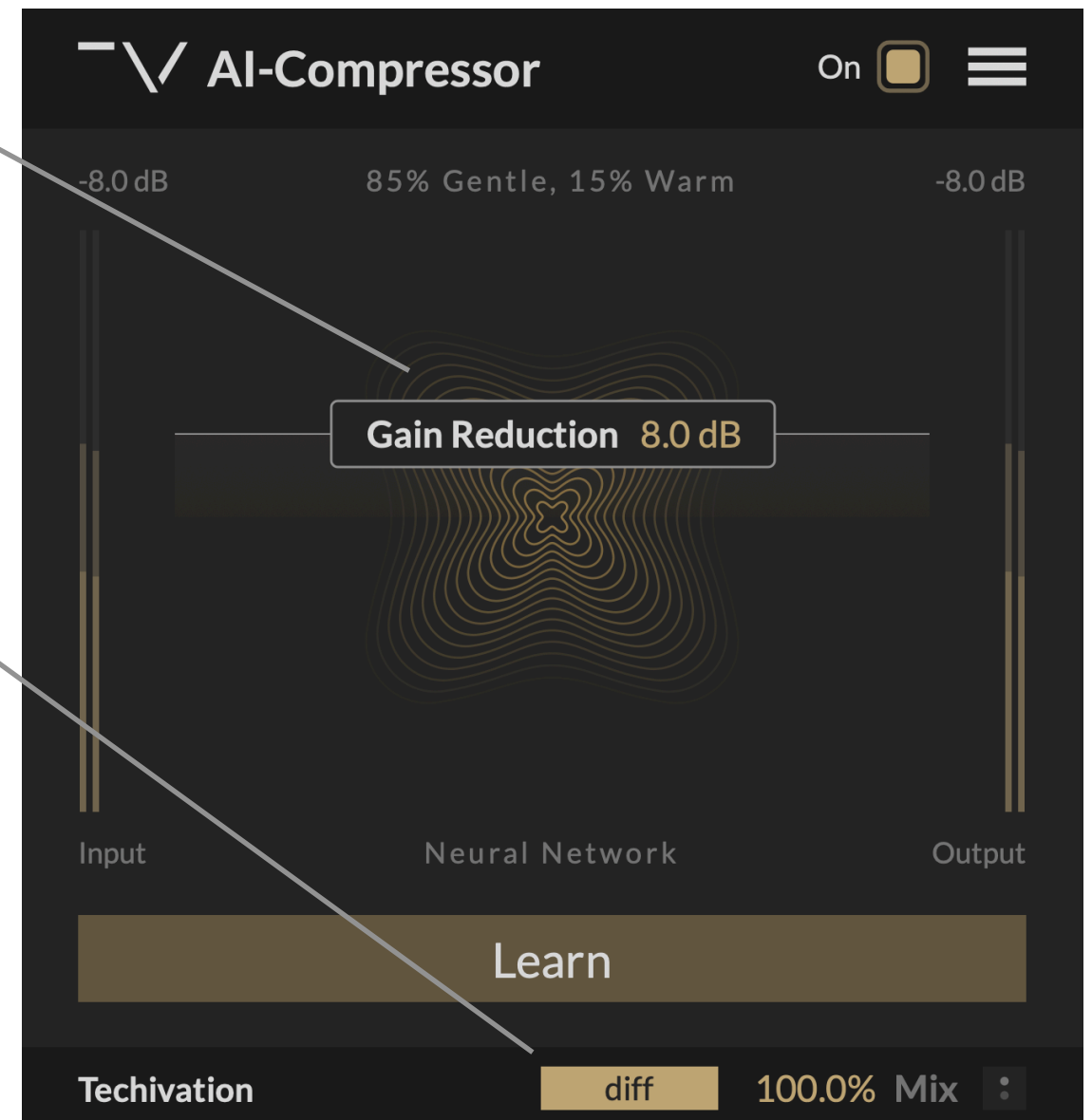
[Features](#)

Gain Reduction

“Gain Reduction” is the main control of the plug-in. It lets you set precisely how much AI-Compressor will reduce the dynamic range of your audio. The quieter parts will be boosted by the specified amount in decibels, while the loudest peaks will retain their level.

Diff

The “Diff” button enables you to listen to the parts of the audio that are being compressed. Use it to audibly perceive the exact changes AI-Compressor makes to your audio. This control makes it easier to fine-tune the “Gain Reduction” amount.



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Features

Control Selector

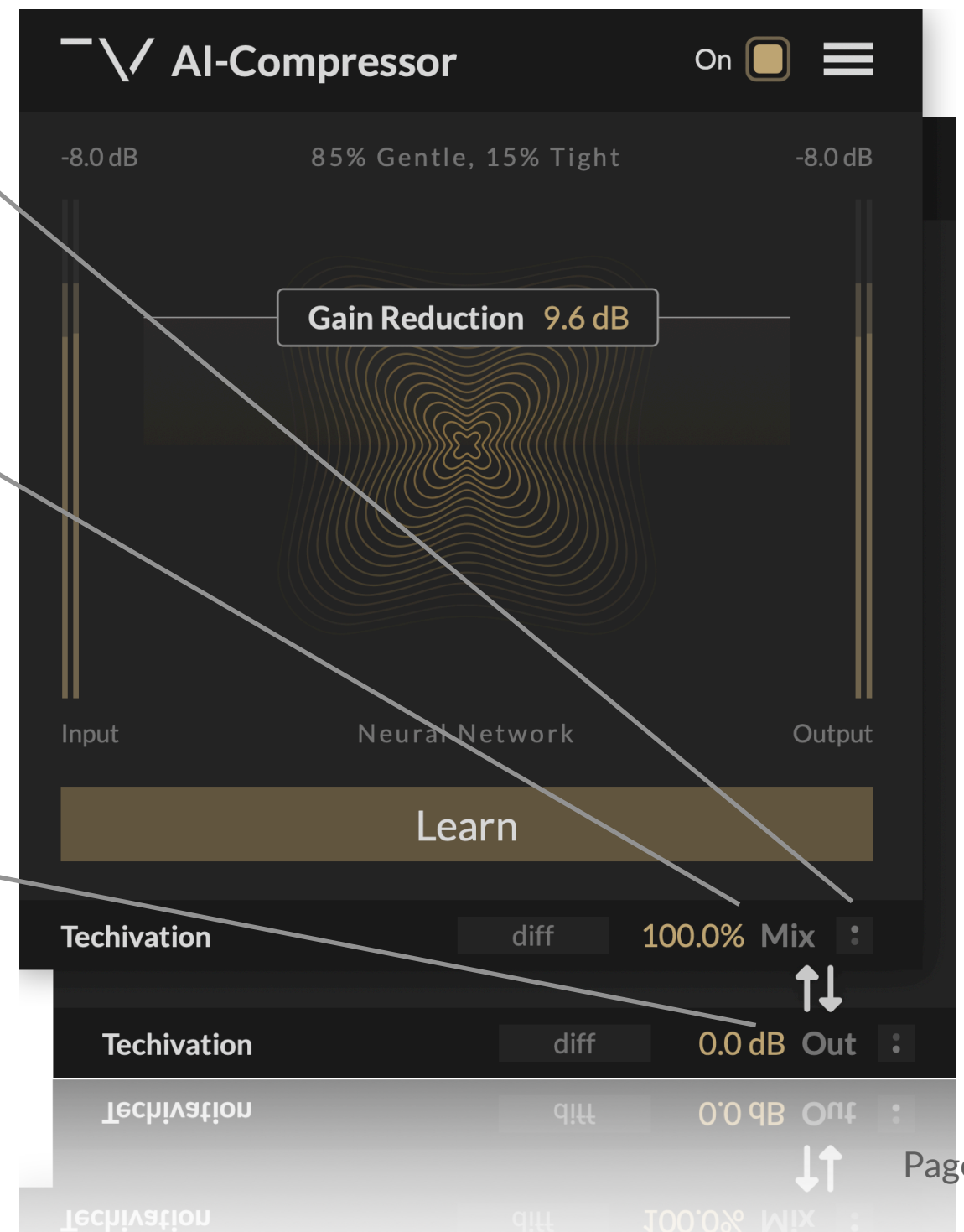
The “Control Selector” button switches between the “Mix” and “Out” controls.

Dry/wet Mix

The “Mix” control lets you blend the compressed signal with the original unprocessed audio. This gives you quick access to parallel compression. Set “Gain Reduction” higher than you normally would for a more aggressive sound, and then blend it with the uncompressed audio by lowering the “Mix” control.

Output control

“Out” is a transparent gain control applied to the signal after compression.



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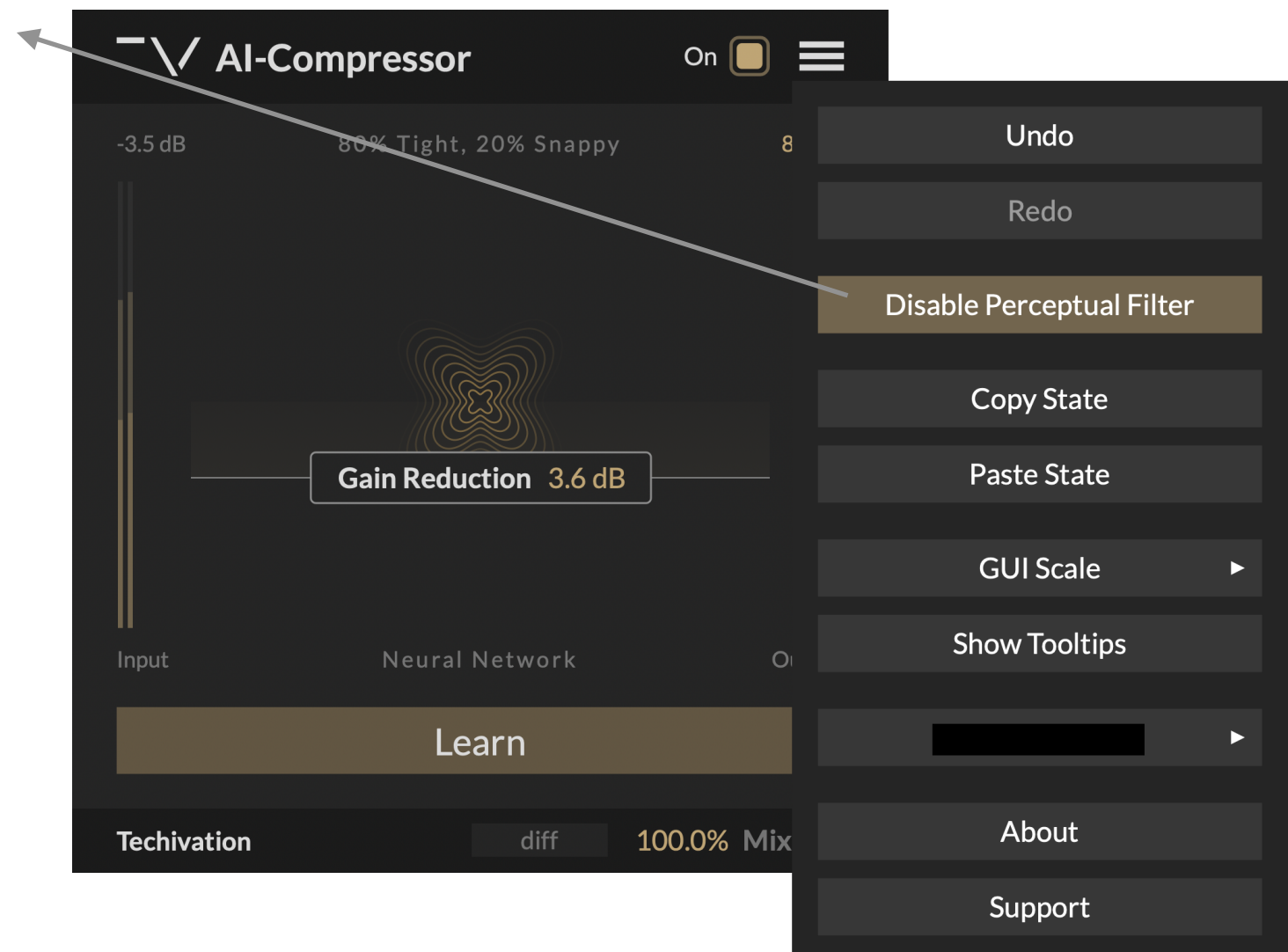
[Features](#)

Enable/Disable Perceptual Filter

The “Enable/Disable Perceptual Filter” menu option lets you decide whether the plug-in should apply perceptual weighting to the compression.

Human hearing is less sensitive to lower frequencies. This means that in a balanced track, lower frequency content will have higher gain to compensate for that. As a result, low-frequency elements would be compressed more than high-frequency ones.

AI-Compressor solves this problem with its advanced Perceptual Weighting Filter. When enabled, this filter analyses the tonal balance of your track during learning and ensures balanced and even compression across the spectrum.



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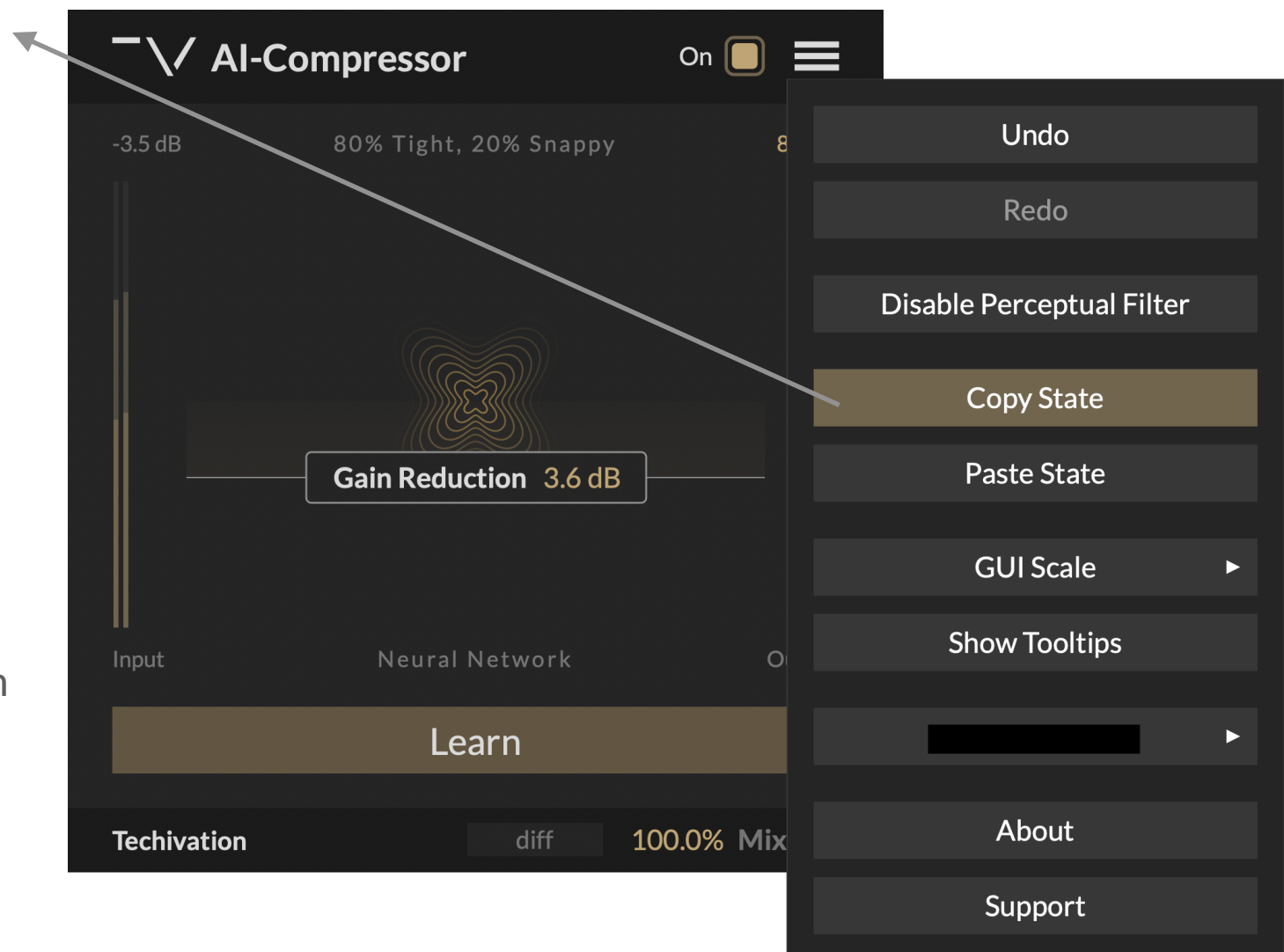
[Features](#)

Copy/Paste State

The “Copy/Paste State” menu options allow to transfer the entire plug-in state between instances of AI-Compressor. Note that AI-Compressor uniquely tailors its settings for each track, so the same plug-in state should only be used on the exact audio it was trained on.

This feature can be useful when you need to create multiple arrangements of the same mix (e.g. radio and album edits), and the state of the plug-in must be exactly the same in all arrangements.

After the learning process has been completed, the “Copy State” menu option becomes available. When you click this option, the entire state of the plug-in will be copied to your system clipboard. You can then navigate to the other instance of AI-Compressor and select the “Paste State” menu option to initialise the plug-in state from the clipboard.



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[Features](#)

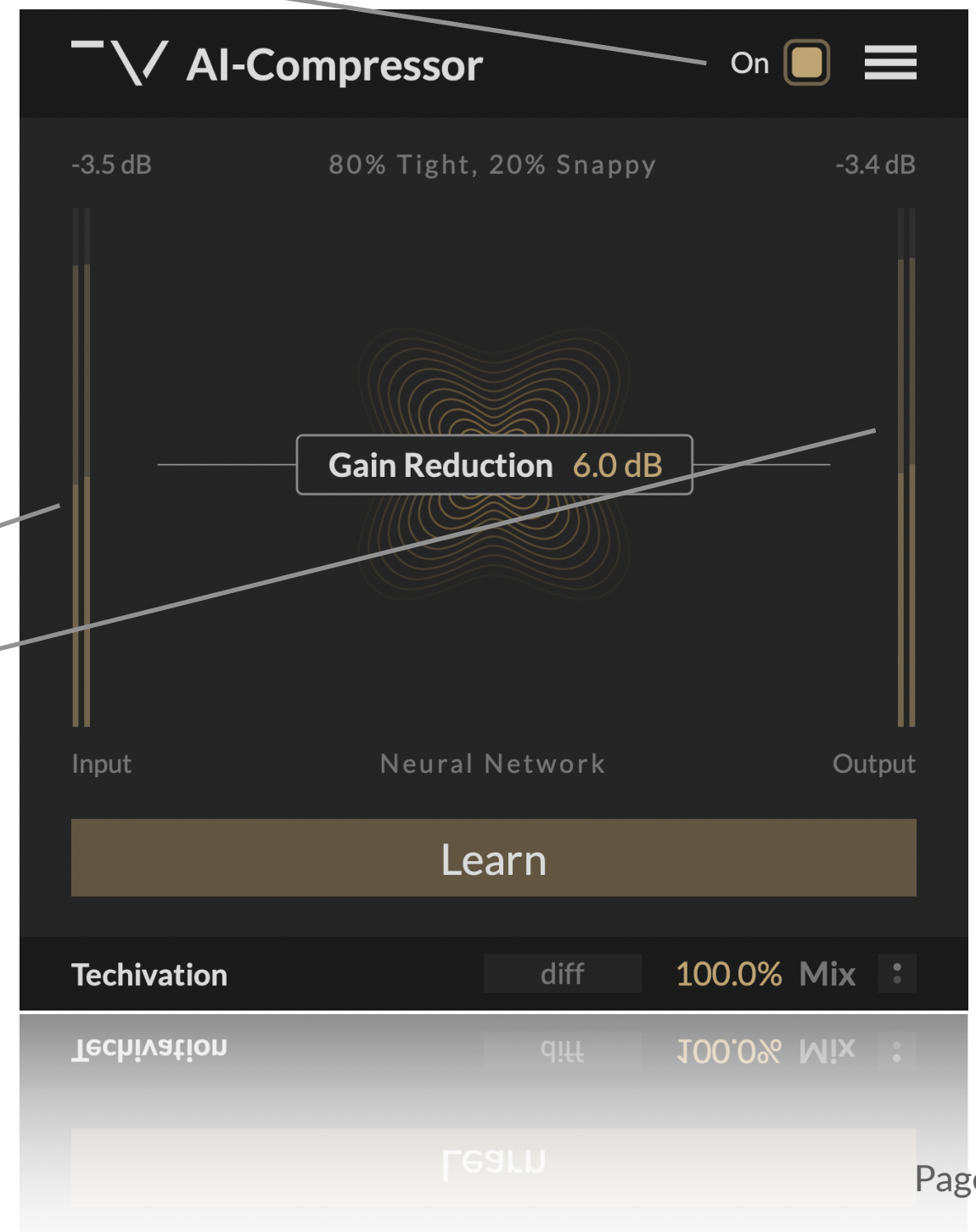
Internal On-Off Switch

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.

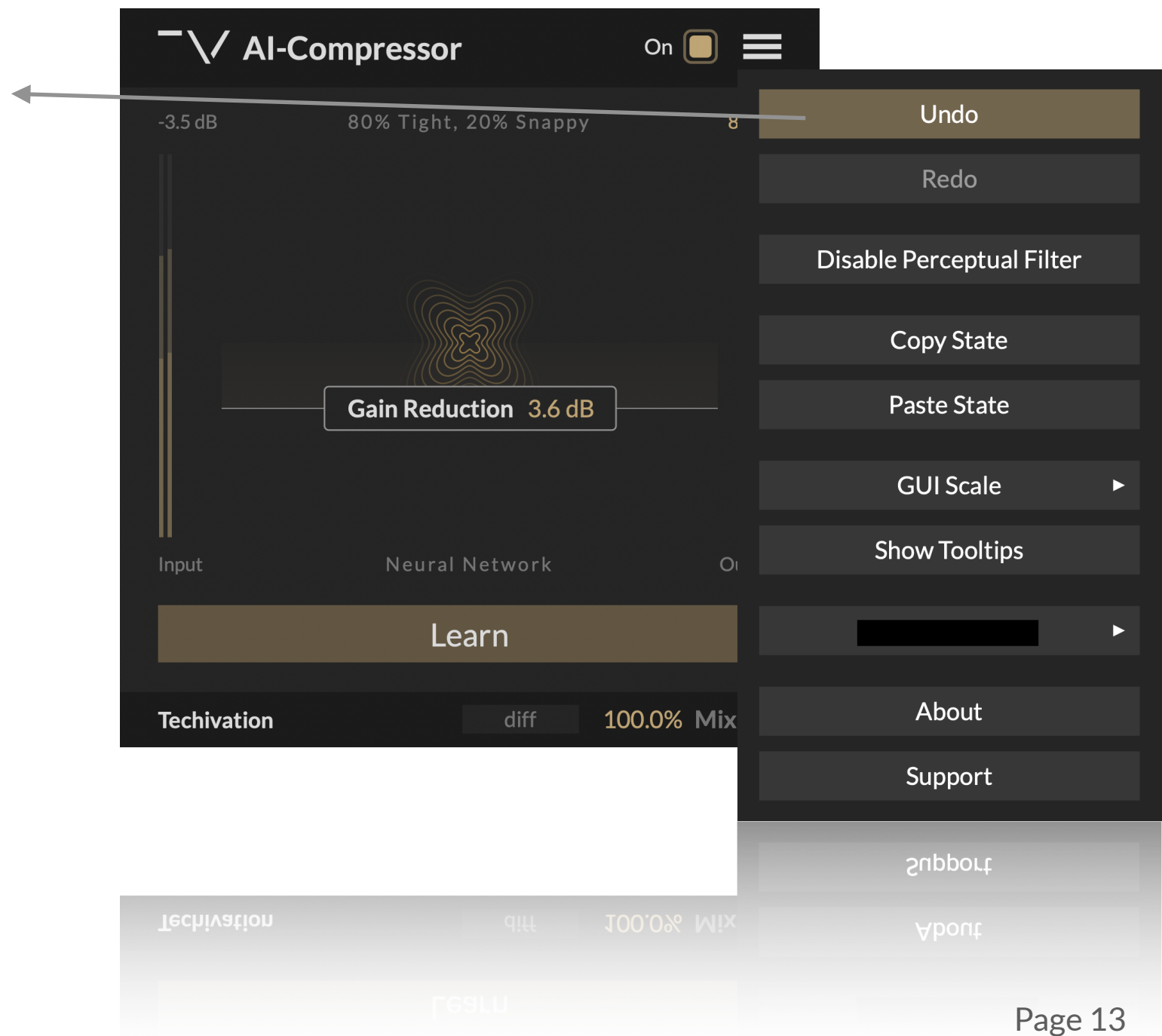


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[Features](#)

Undo/Redo

AI-Compressor includes built-in “**Undo**” and “**Redo**” functions, offering reassurance during audio processing. Easily revert or redo changes, saving time and avoiding potential loss of adjustments. These functions enable experimentation without permanent alterations, enhancing workflow and facilitating informed decision-making in audio production.

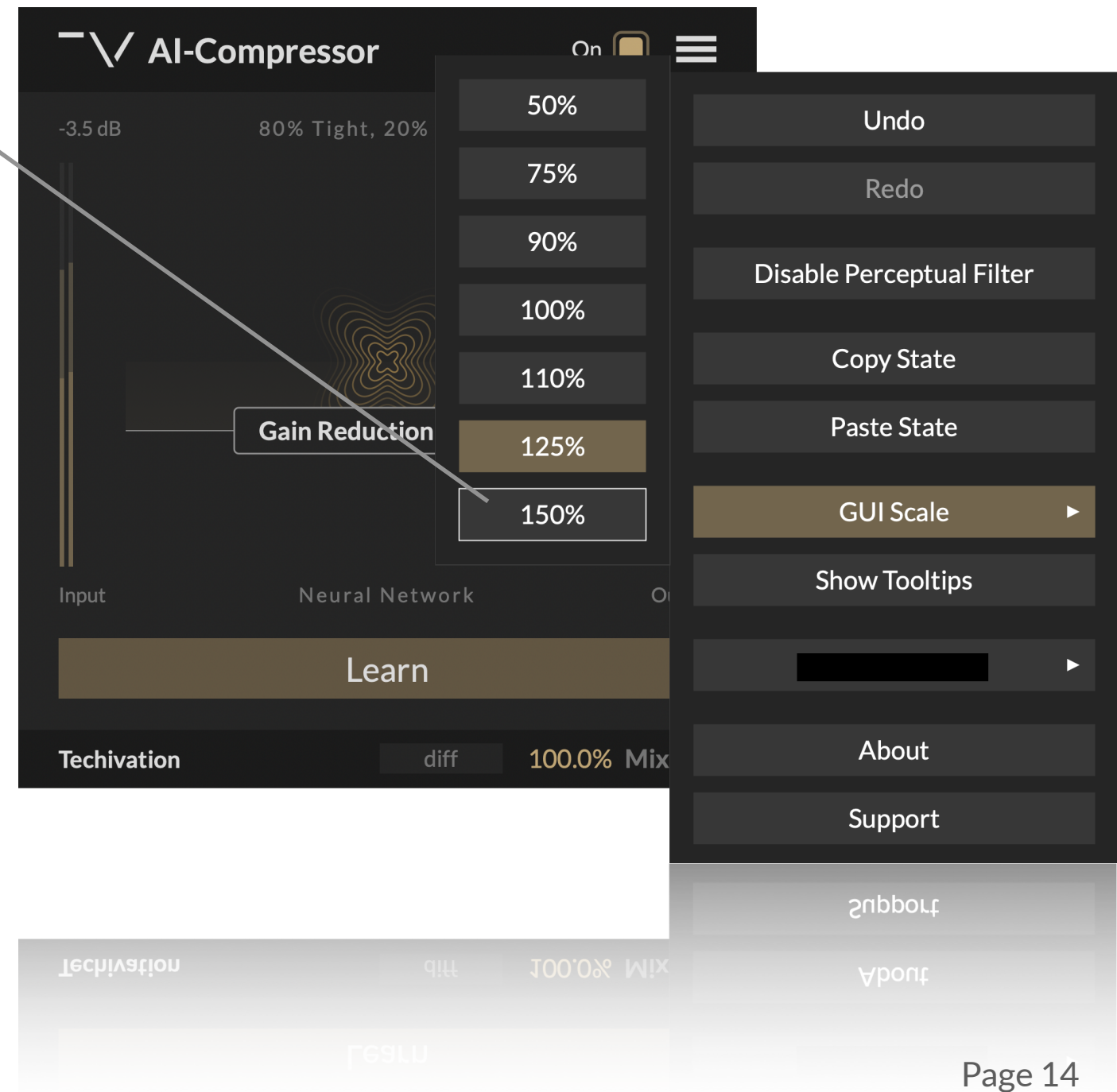


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[Features](#)

GUI Scale

AI-Compressor's interface scaling feature lets you adjust GUI size for optimal workflow. Choose from 50% to 150% scaling options to tailor the interface to your preference. Despite scaling, visual quality stays consistent, ensuring clarity. Optimised for high-quality monitors, including retina displays, the plugin maintains its performance across devices.

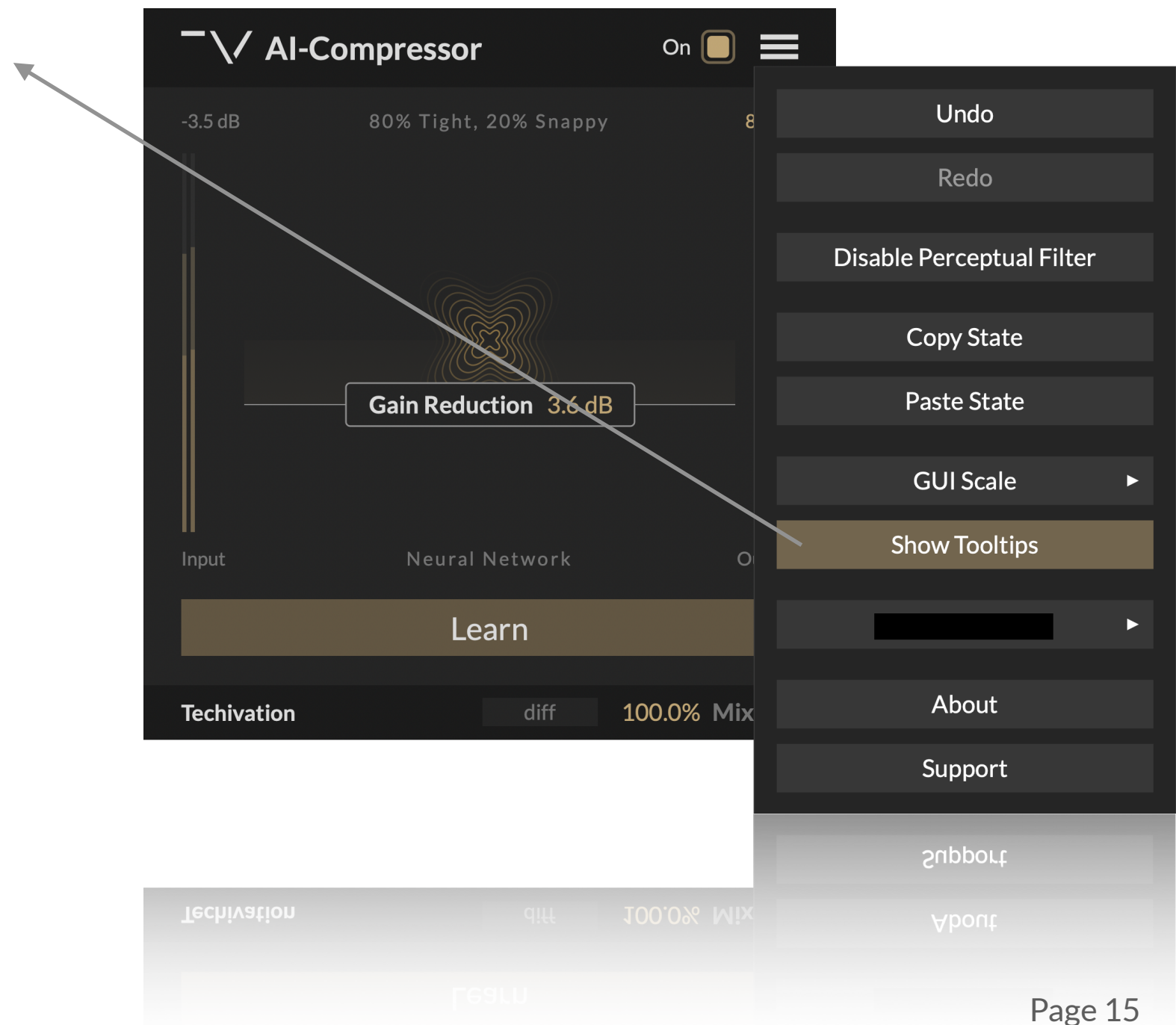


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[Features](#)

Tooltips

AI-Compressor offers tooltips, accessible via the plugin's menu, providing brief descriptions of each UI element when enabled. Tooltips enhance navigation by offering insights into controls and settings, such as function, range, and impact on the audio signal. Enabling tooltips streamlines workflow and facilitates understanding of the plugin's functionality. Simply hover over a control to receive relevant information.



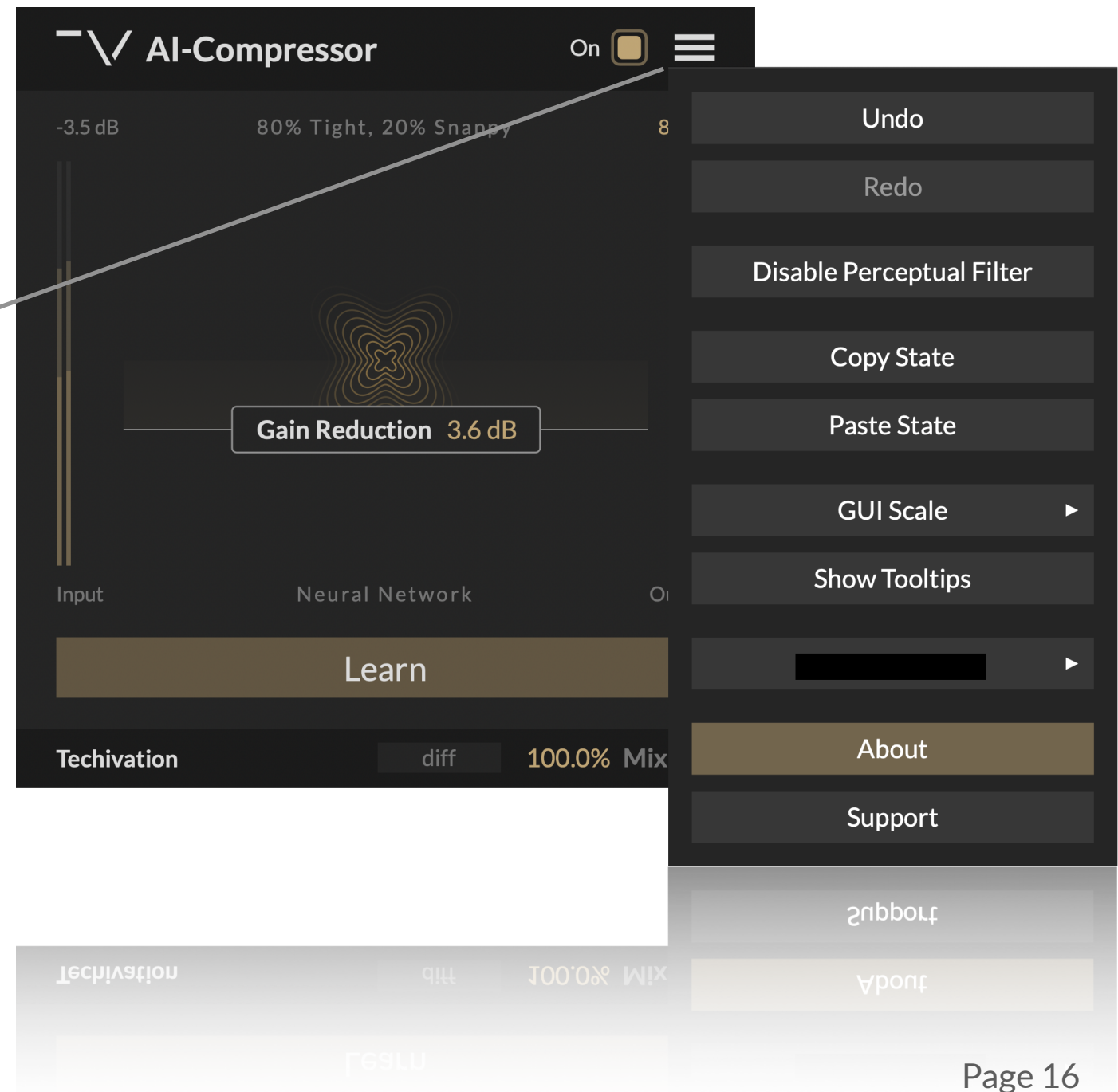
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Features

Plug-in Menu

A quick menu of useful features:

- Undo
- Redo
- Enable Perceptual Filter
- Copy State
- Paste State
- GUI Scale
- Show/Hide Tooltips
- [Your email]/Sign in
- About
- Support



Techivation AI-Compressor

Compatibility

Plugin formats: VST, VST3, AU, AAX.

Platforms supported: macOS installer supports 10.15 (Catalina) and up
Windows 7 and up. Only 64 bits

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

Activation

AI-Compressor requires a purchased license from our website, to get activated according to our [terms and conditions](#). As soon as you purchase a license from us, you'll automatically have your Techivation account activate the plug-in for you, after you sign-in to the plug-in. Everyone with one purchased license can use the plug-in on a maximum of two machines at the same time.

Support

For any support inquiries check out techivation.com/support

Check out 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 or techivation@gmail.com

Installation

If you purchase an [AI-Compressor](#) license, you can sign in to the plug-in to activate, and use it for a lifetime.

A software download is supplied with your sign-up/purchase, however you can always go to 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

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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.'