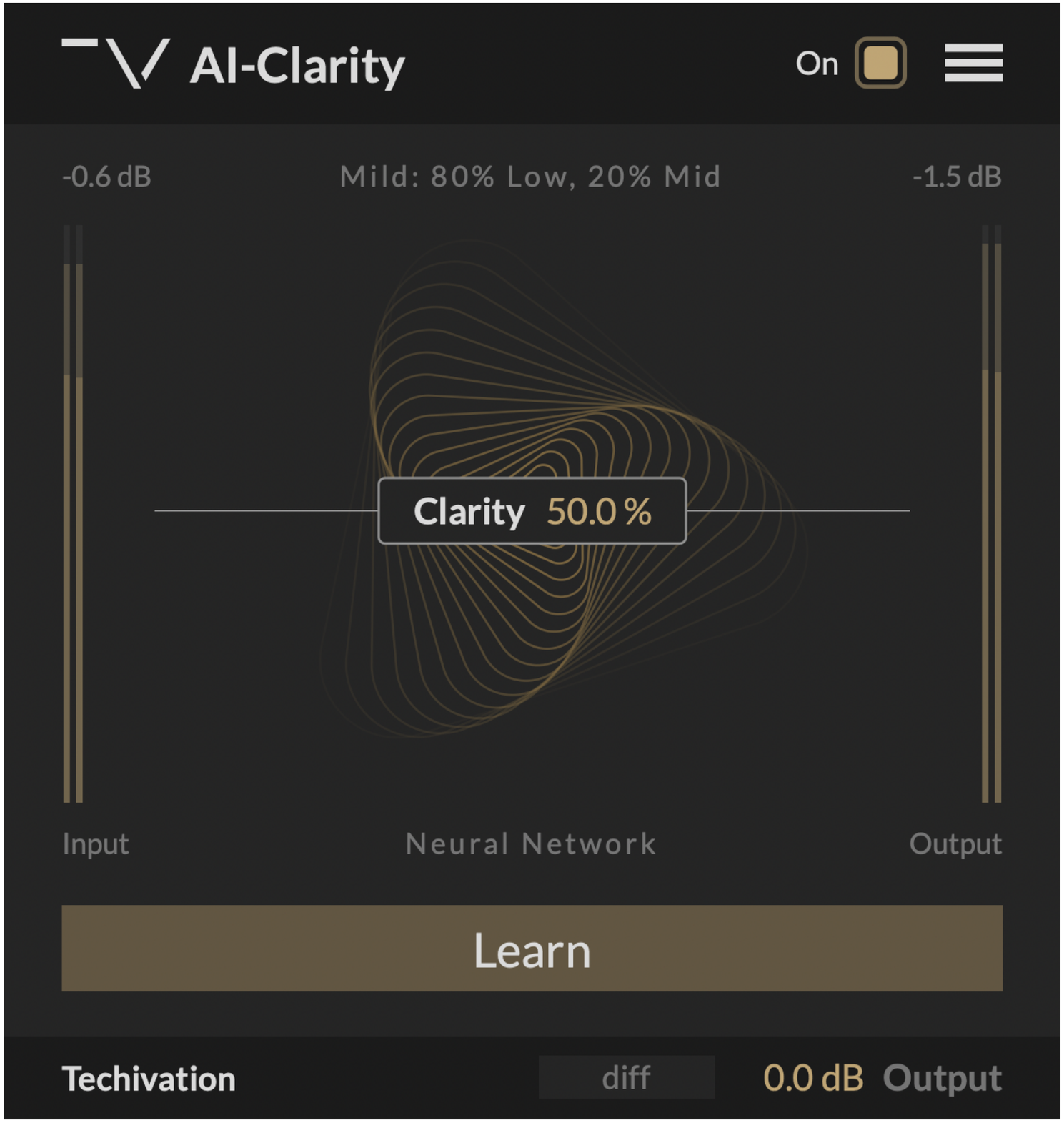
TECHIVATION

Techivation AI-Clarity

User Manual

www.techivation.com


AI-Clarity
On
-0.6 dB
Mild: 80% Low, 20% Mid
-1.5 dB
Clarity 50.0 %
Input
Neural Network
Output
Learn
Techivation
diff
0.0 dB Output

Techivation AI-Clarity

Overview

AI-Clarity is a lightning-fast dynamic resonance suppressor powered by machine learning. It analyses the audio to identify and eliminate boxiness, muddiness, or harshness in your tracks quickly and easily.

Story

When developing the DSP algorithms for our plugins, we often come across features or parameters that work really well in some situations, but not in others. Usually features like that don’t make it into the final plug-in, as it needs to work equally well on any material. This is why we turned our attention to machine learning. If the plug-in can know exactly what it is processing, then we can utilise even the most highly specialised features of our DSP algorithms. The Ai series of plug-ins is designed to analyse the input using a system of convolutional neural networks and set up the expanded version of an M-series algorithm to uniquely suit your track.

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Features

As the AI-Clarity is an AI-powered plug-in, it operates intelligently under the hood, offering users superb results without the need for extensive tweaking of controls. Therefore, the plug-in has only a handful of controls for users, while most tasks are handled by its AI engine.

- ‘Learn’ button
- Clarity
- Output control
- Diff
- Internal On-Off Switch
- Enable/Disable Mid-Side
- Input-Output Level Meters
- Copy/Paste State
- Undo-Redo Options
- Scaleable Graphic User Interface (GUI)
- Internal Menu
- Show/Hide Tooltips
- Stereo and Mono

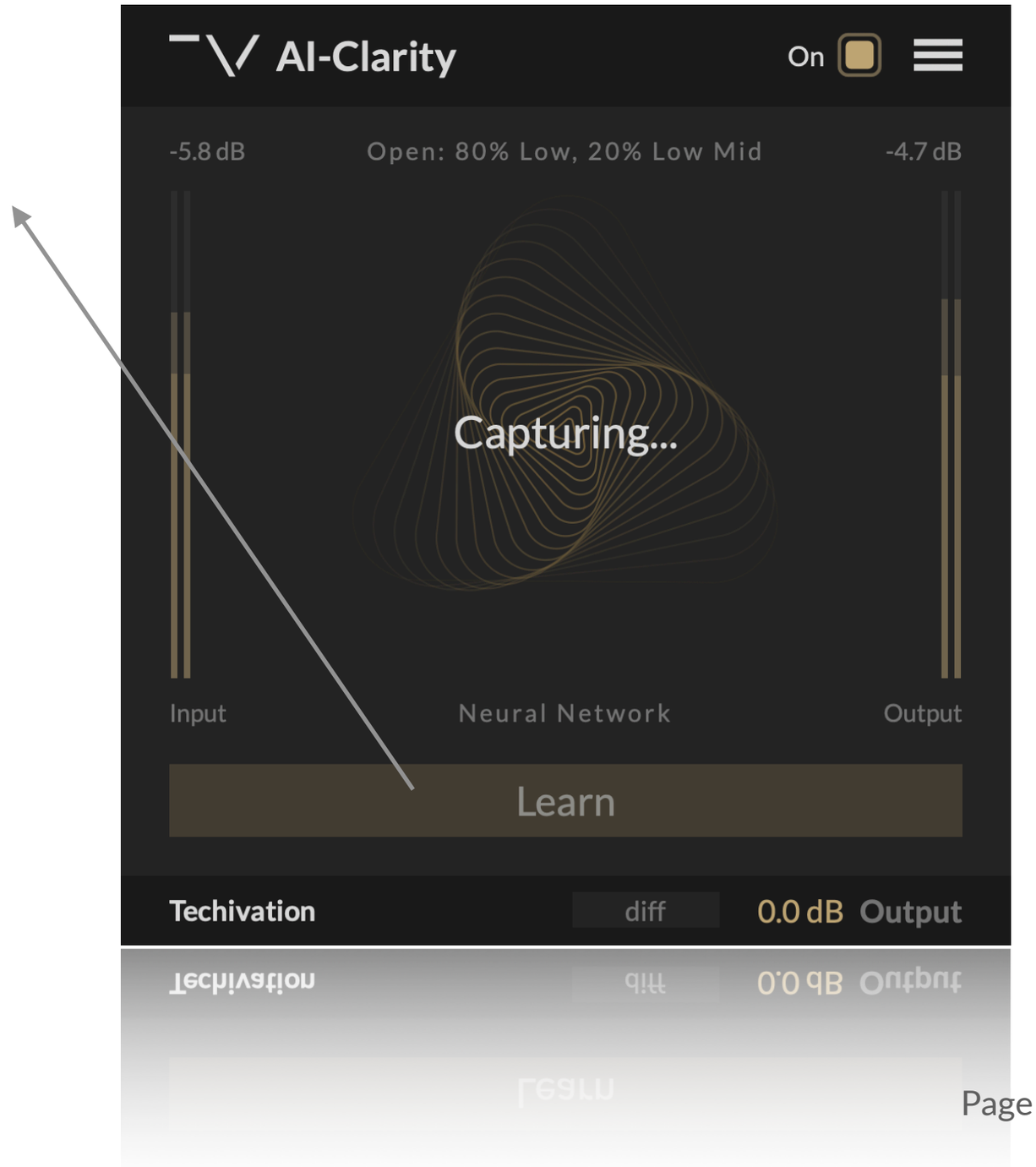
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Features

‘Learn’ button

“Learn” button enables the plug-in to capture and analyse the input and intelligently set the processing parameters. AI-Clarity will capture 3.5 seconds of audio for the analysis. Make sure to play the busiest part of your track when learning to get the best results.

Once the learning process is complete, the plugin will display the status of its processing engine, for example “Mild: 60% Low, 40% Low-Mid”. 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-Clarity



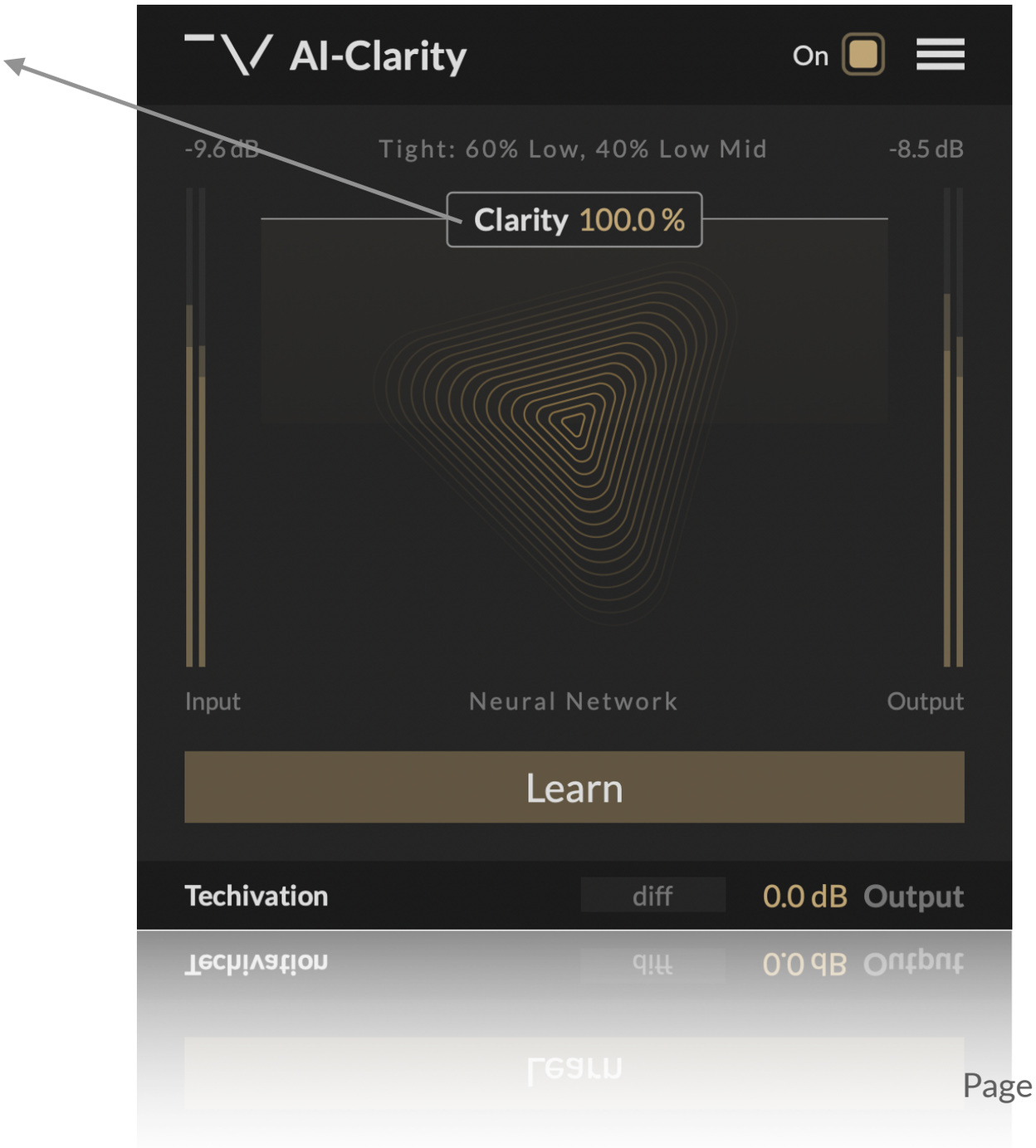
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Features

Clarity

“Clarity” is the main control of the plug-in. It determines the intensity with which the plug-in will selectively suppress problematic frequencies identified during the learning process.

Depending on the type of material you are using AI-Clarity on, “Clarity” will intelligently find and minimise unwanted characteristics such as muddiness, boxiness, or harshness, while keeping the perceived loudness of your track the same.



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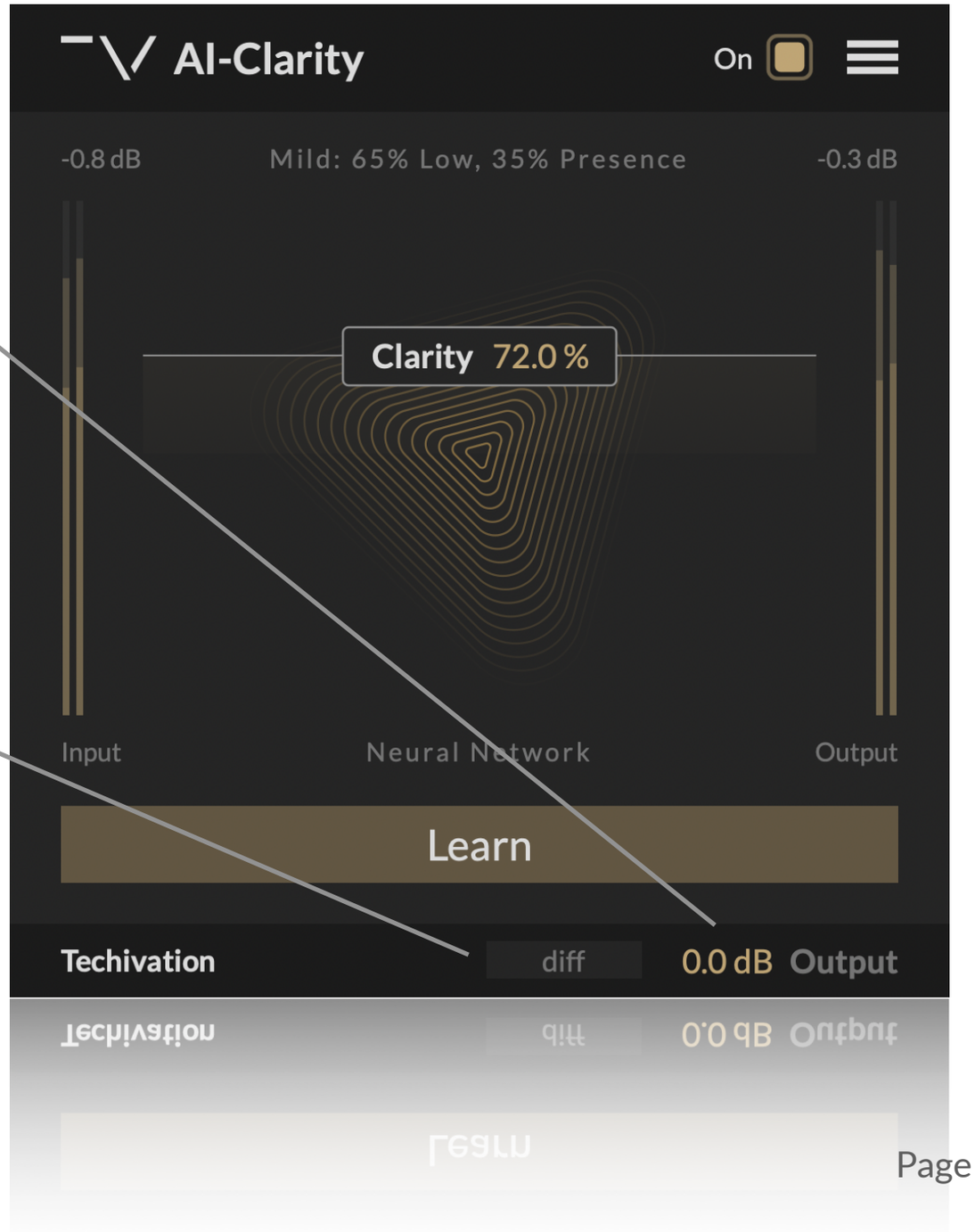
Features

Output control

“Output” is a transparent gain control applied to the signal after all other processing.

Diff

“Diff” control enables you to listen to the difference between the processed and original signals. This allows you to audibly perceive the changes made to your audio, making it easier to fine-tune the “Clarity” amount that is right for your track.



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Features

Enable/Disable Mid-Side

“Enable/Disable Mid-Side” menu option allows you to switch the plugin processing between Left & Right and Mid-Side modes.

When Mid-Side processing is disabled, the plugin processes the left and the right channels independently. If you need to preserve the stereo balance of your track, switch the processing to the Mid-Side mode.



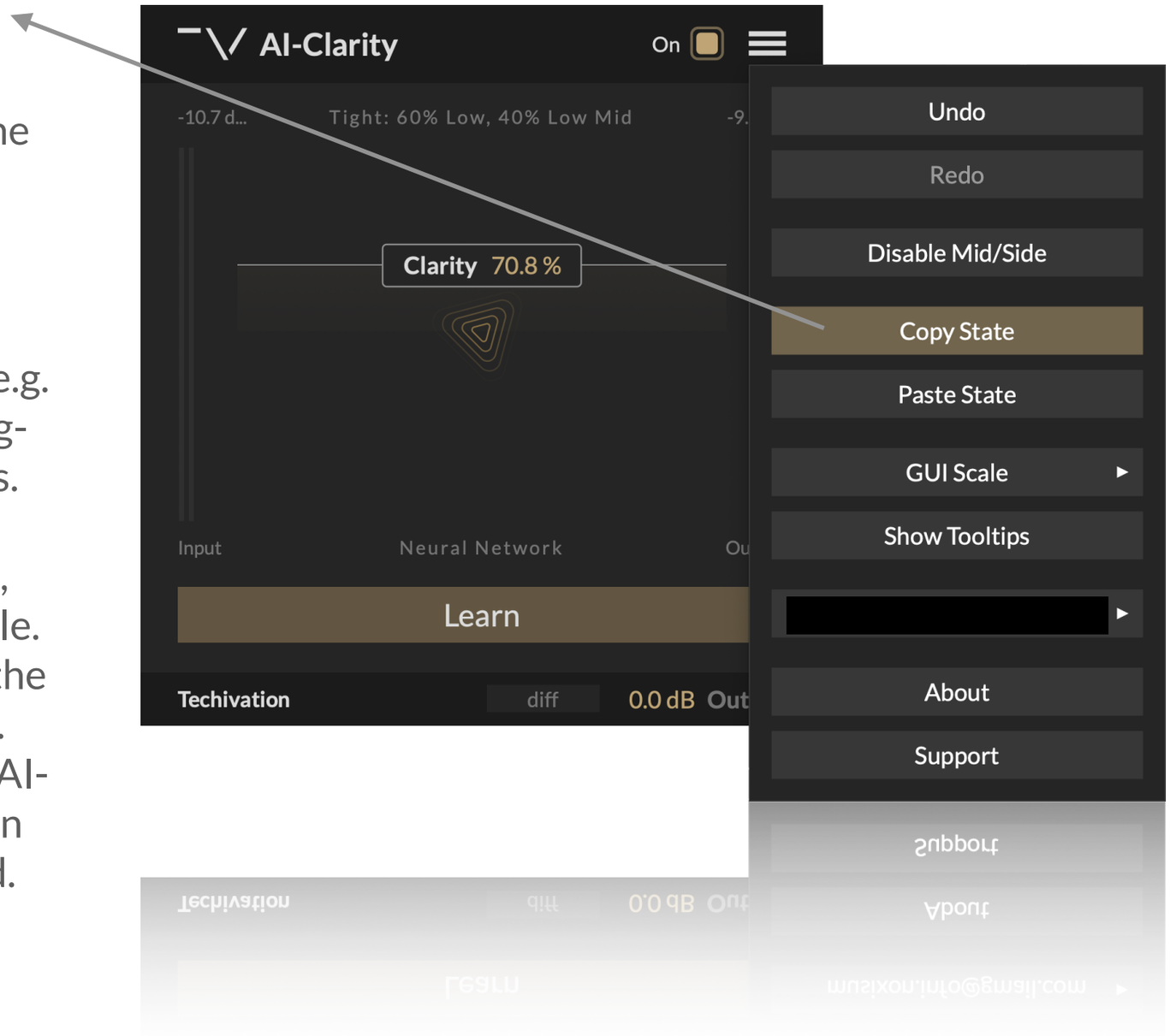
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Copy/Paste State

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

This feature can be useful when you need to create multiple arrangement 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-Clarity and select the “Paste State” menu option to initialise the plug-in state from the clipboard.



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Features

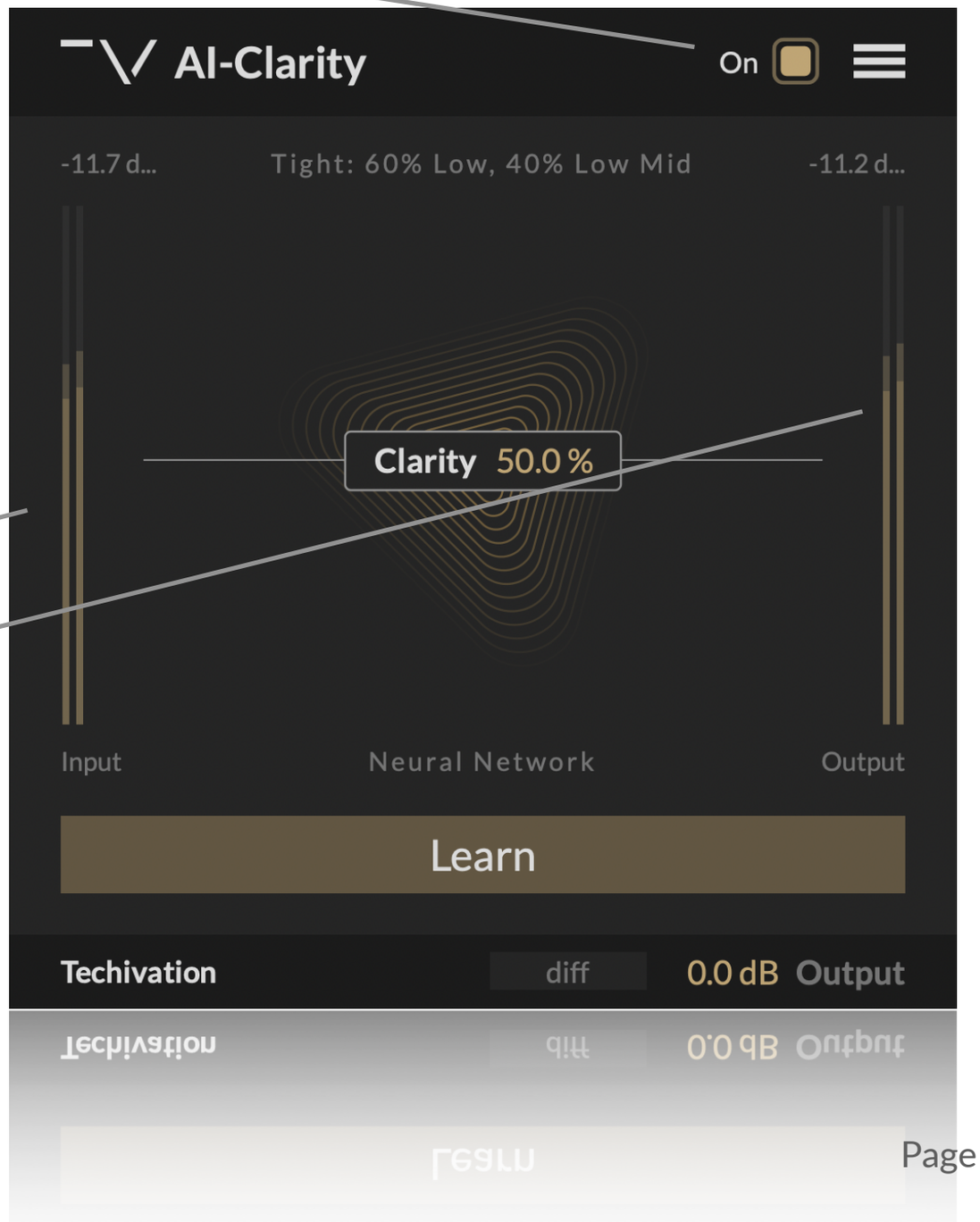
Internal On-Off Switch

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-Clarity 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.

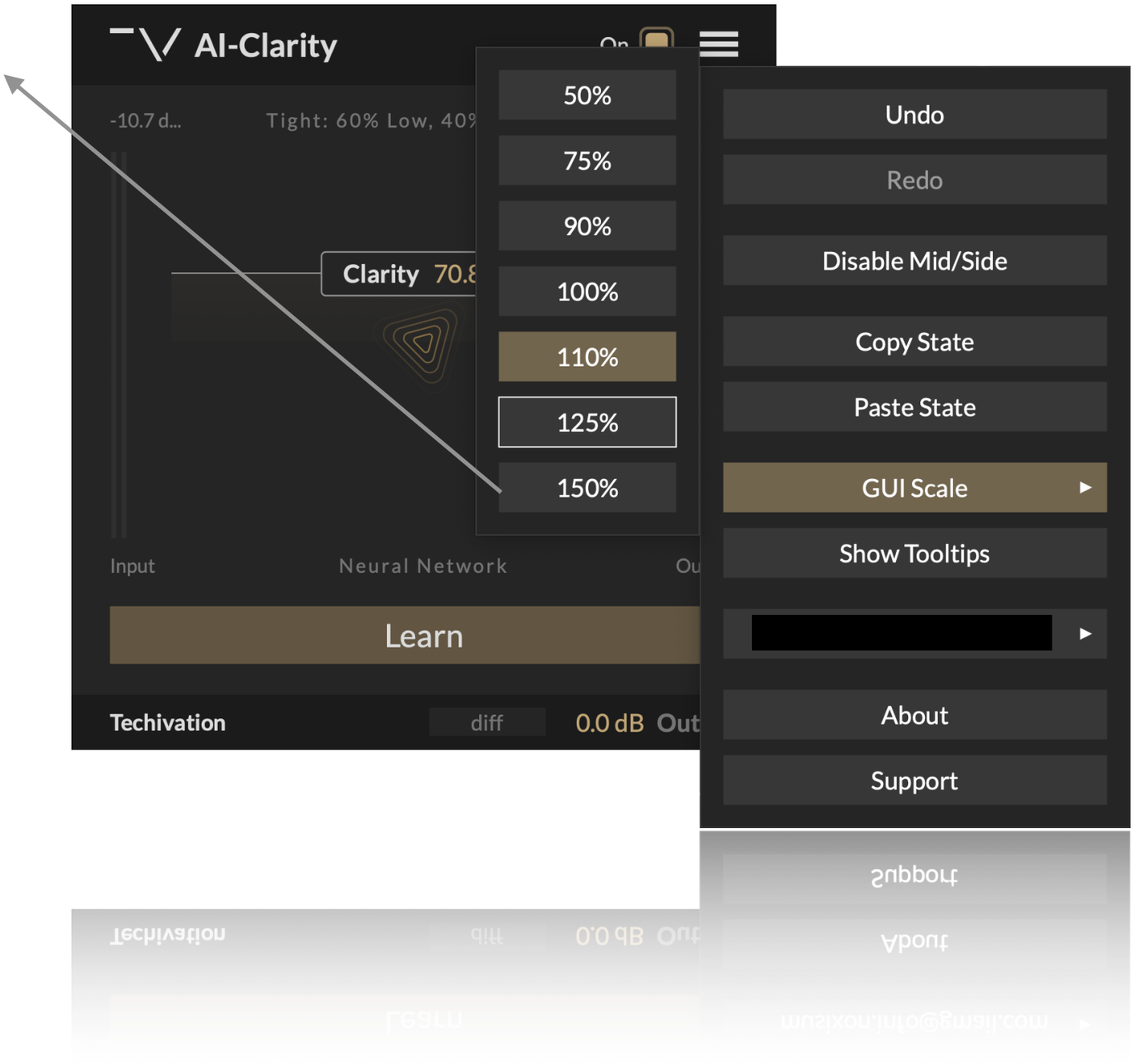


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Features

GUI Scale

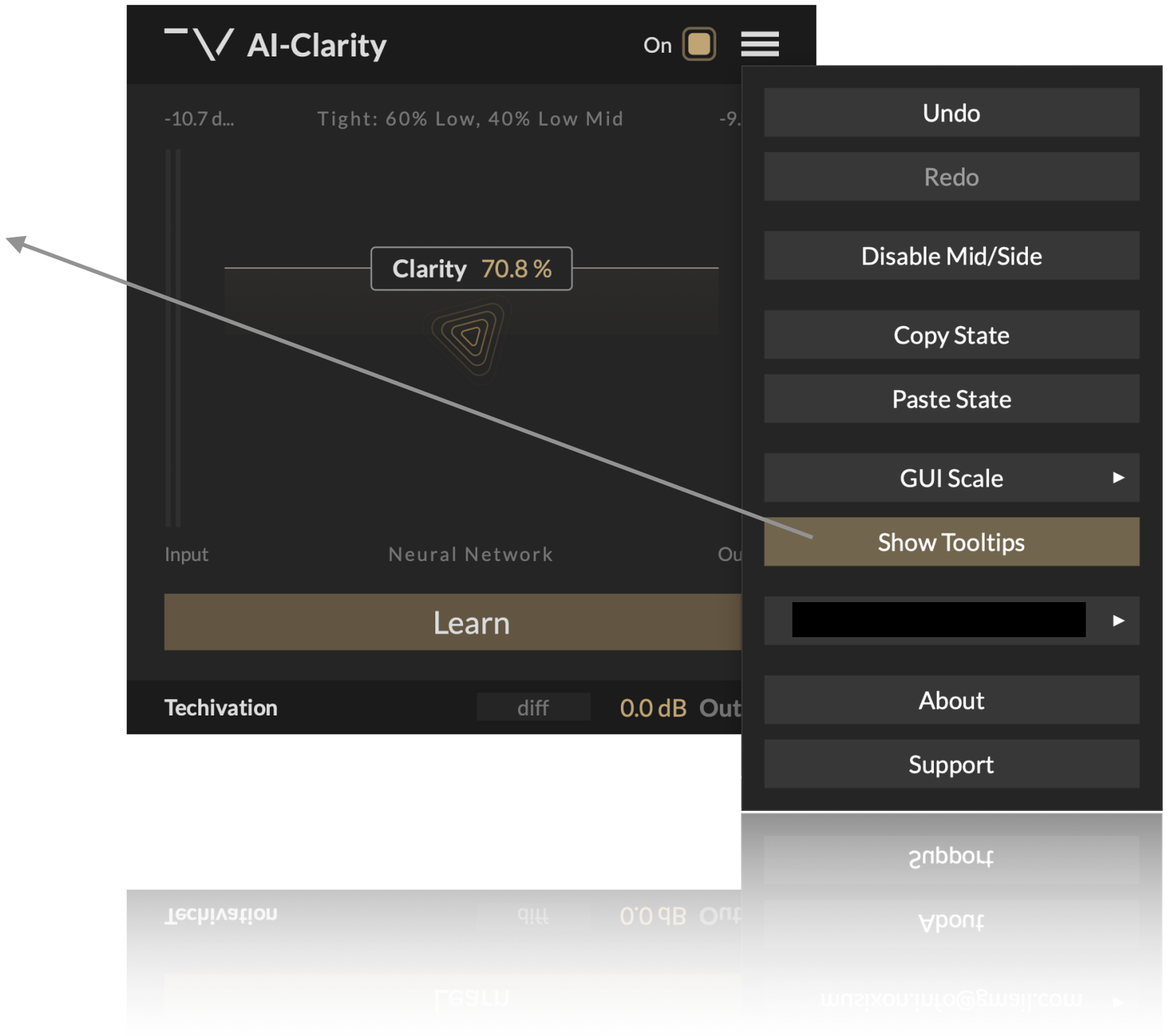
AI-Clarity's interface scaling feature lets you adjust GUI size for optimal workflow. Choose from 50% to 150% scaling options to tailor the interface to your preference. Despite scaling, visual quality stays consistent, ensuring clarity. Optimised for high-quality monitors, including retina displays,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



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Tooltips

AI-Clarity 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 Mid/Side
- Copy State
- Paste State
- GUI Scale
- Show/Hide Tooltips
- [Your email]/Sign in
- About
- Support



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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-Clarity 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-Clarity 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.'