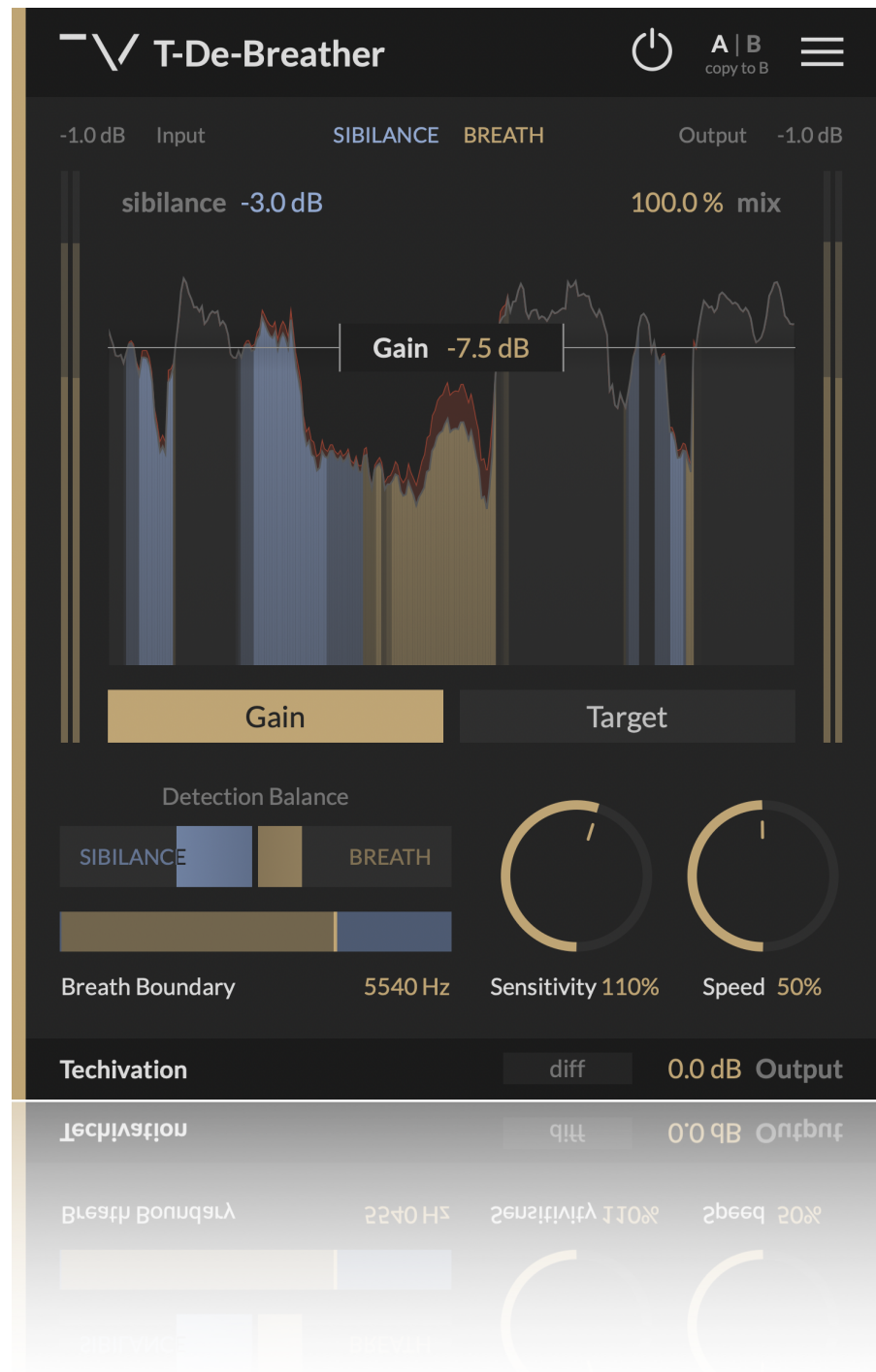




Techivation T-De-Breather

User Manual





Techivation T-De-Breather

Overview

T-De-Breather is a flexible zero-latency breath suppression audio plug-in for vocals and dialogue.

Manually reducing the levels of breaths is a tedious and time consuming task for music producers and dialogue editors alike. **T-De-Breather** seamlessly automates this task, while offering deep control over its detection algorithm to make sure you catch every breath. And thanks to its zero-latency operation, you can use **T-De-Breather** live!

This is possible thanks to **T-De-Breather**'s hybrid audio engine that combines deep algorithmic audio analysis with real-time predictive forecasting using a Recurrent Neural Network. Breaths are identified based on their unique spectral and time-domain signature, meaning that the detection process is completely level-independent. **T-De-Breather** can suppress breaths regardless of how loud or quiet they are.

The distinction between breath and sibilance can be subtle, so **T-De-Breather** detects both and lets you choose the balance. Control breaths and tame sibilance at the same time for a clean and consistent vocal.



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Features

- Target Mode
- Gain Mode
- Target
- Gain
- Detection Balance
- Breath Boundary
- Sensitivity
- Speed
- Sibillance
- Mix
- Diff
- Output
- Internal On-Off Switch
- Presets
- A/B Switch
- Undo-Redo Options
- Scaleable Graphic User Interface (GUI)
- Show/Hide Tooltips
- Internal Menu
- Stereo and Mono



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Features

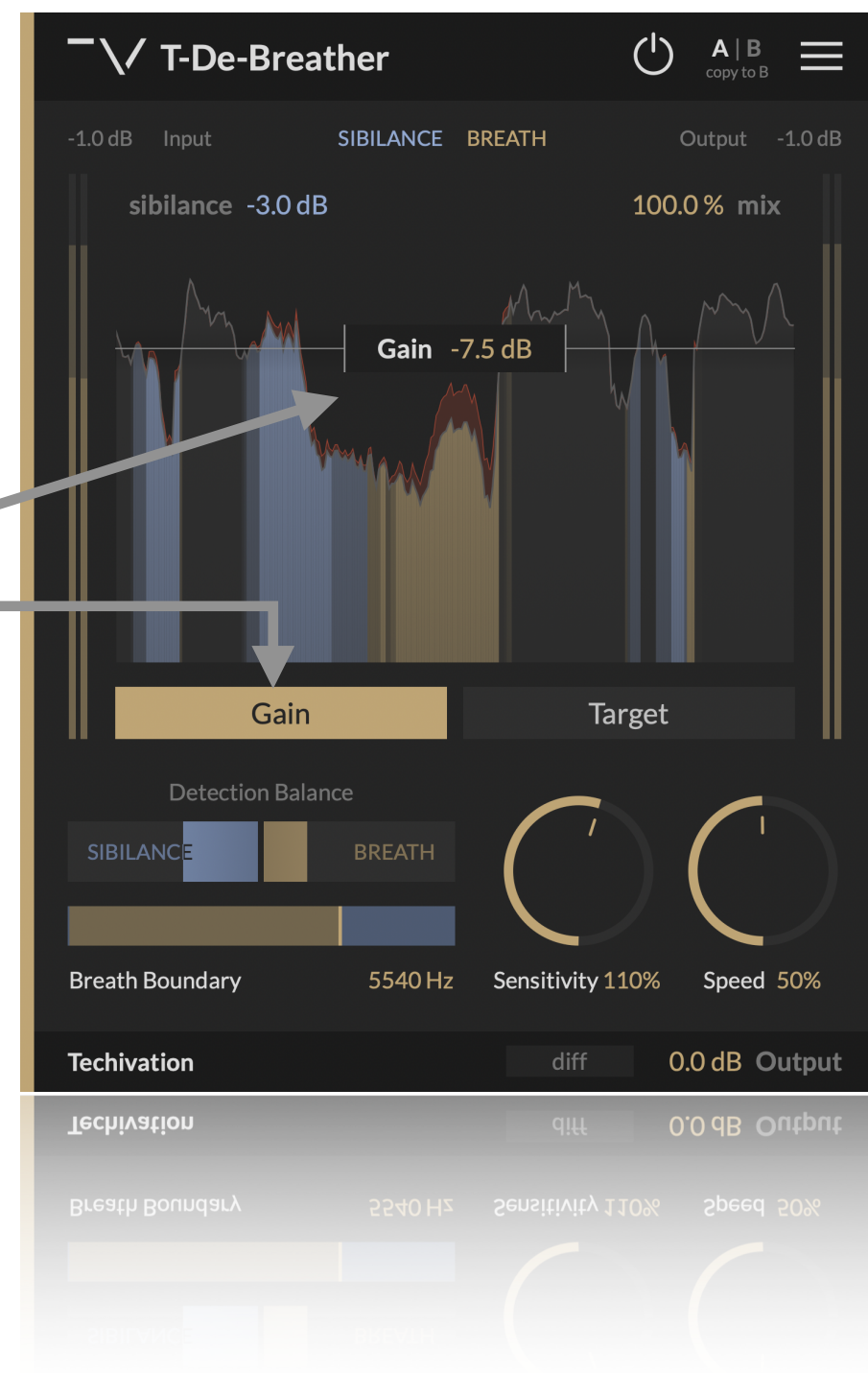
Gain Mode

T-De-Breather offers two breath suppression modes: absolute “**Gain**” mode, and relative “**Target**” mode.

In “**Gain**” mode, the plug-in applies a fixed amount of gain reduction to all breaths regardless of their level. The amount of suppression is determined using the “**Gain**” slider.

“**Gain**” mode preserves the original dynamics of the breathing. Loud breaths remain louder than soft ones, just quieter overall. This mode can sound more natural when processing clean, well-recorded performances and using low-to-medium amount of suppression.

T-De-Breather operation in “**Gain**” mode is completely level-independent. If you adjust the gain staging before T-De-Breather in “**Gain**” mode, the processing will remain unchanged.





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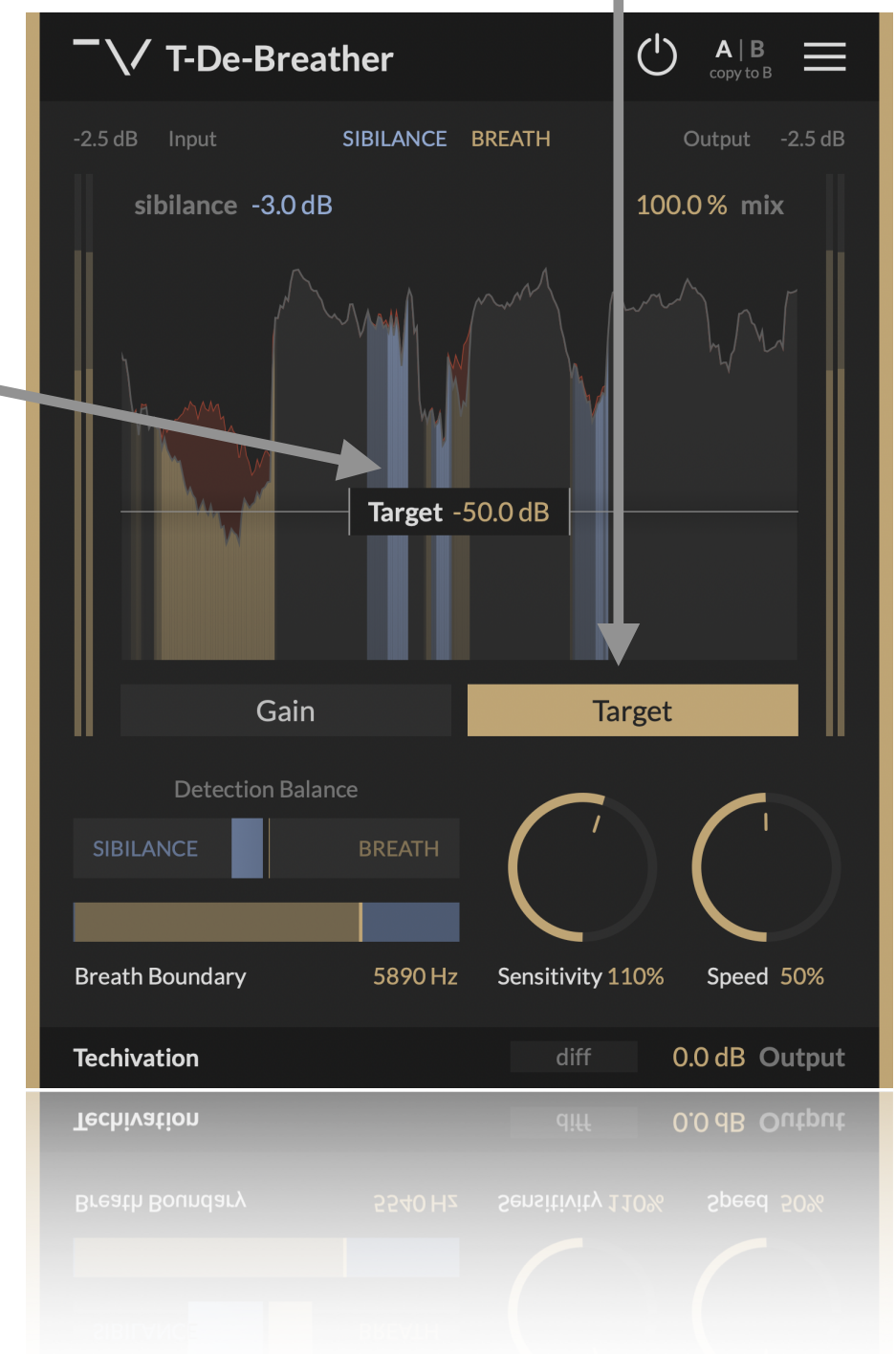
Features

Target Mode

In **“Target”** mode, breaths are suppressed to the desired output level set by the **“Target”** slider. Breaths above the **“Target”** level are attenuated to this level. Breaths below the **“Target”** level are left untouched.

T-De-Breather in **“Target”** mode dynamically adjusts the suppression amount based on the breath level. Louder breaths are attenuated more, while quieter ones receive less gain reduction. This mode can sound more natural when processing recordings with sustained ambiance (for example reverberation or background noise), and when using high amounts of suppression. It is also the recommended mode for live dialogue processing, especially when treating multiple speakers simultaneously.

“Target” mode sets the absolute output level for the breaths. Therefore, the amount of applied suppression depends on the level arriving at the plug-in input. If you adjust the gain staging before **T-De-Breather** in **“Target”** mode, you should revisit the **“Target”** slider value.





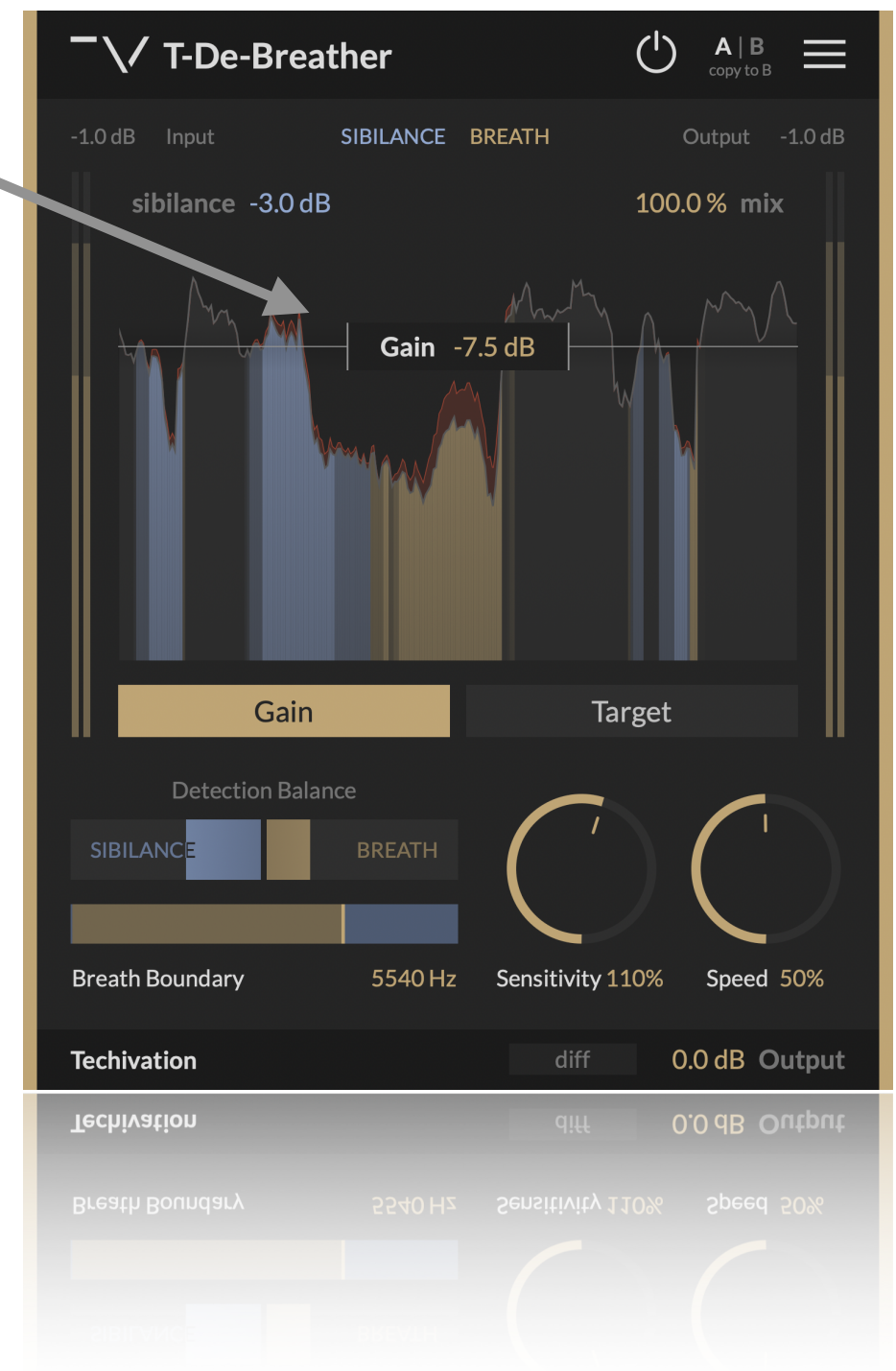
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Features

Waveform Display

The “**waveform display**” provides real-time view of breath and sibilance detections, along with the amount of applied suppression. The output signal that is recognised neither as breath nor as sibilance is shown in grey. Breath detections are highlighted in gold, while sibilance detections are highlighted in blue. The amount of gain reduction applied to the audio is displayed in red.

You can use the waveform display to precisely set the “**Target**” output level for breaths in “**Target**” mode. The display also clearly visualises the effect of the “**Speed**” parameter on the suppression onset.





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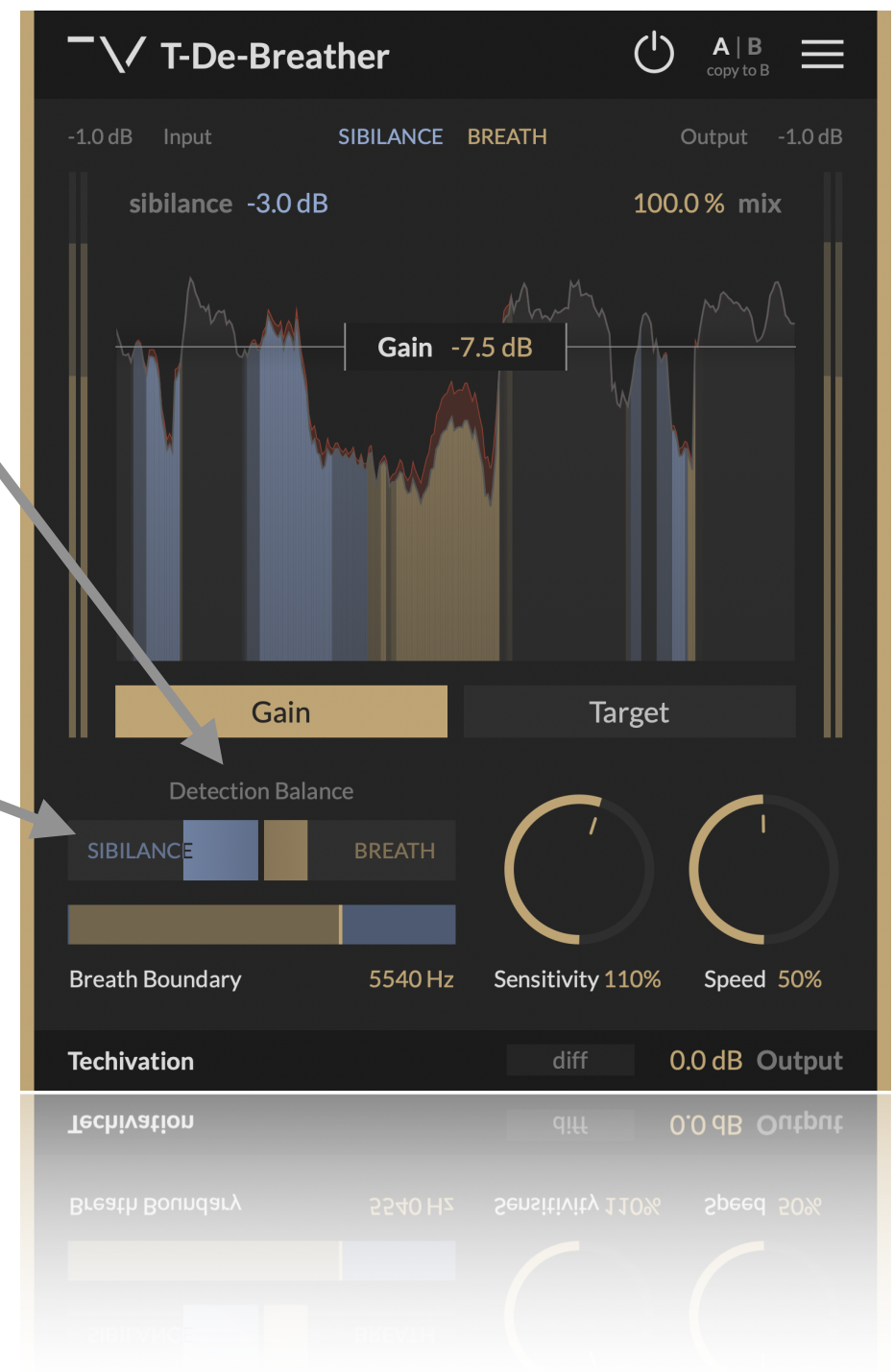
Features

Detection Balance

“Detection Balance” section enables you to fine-tune how T-De-Breather distinguishes breaths from sibilance.

Detection Meter

Use “Detection Meter” to monitor how the plug-in identifies the current input in real time. When detecting a breath, the right side of the meter fills in with gold. When detecting sibilance, the left side of the meter fills in with blue.





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Features

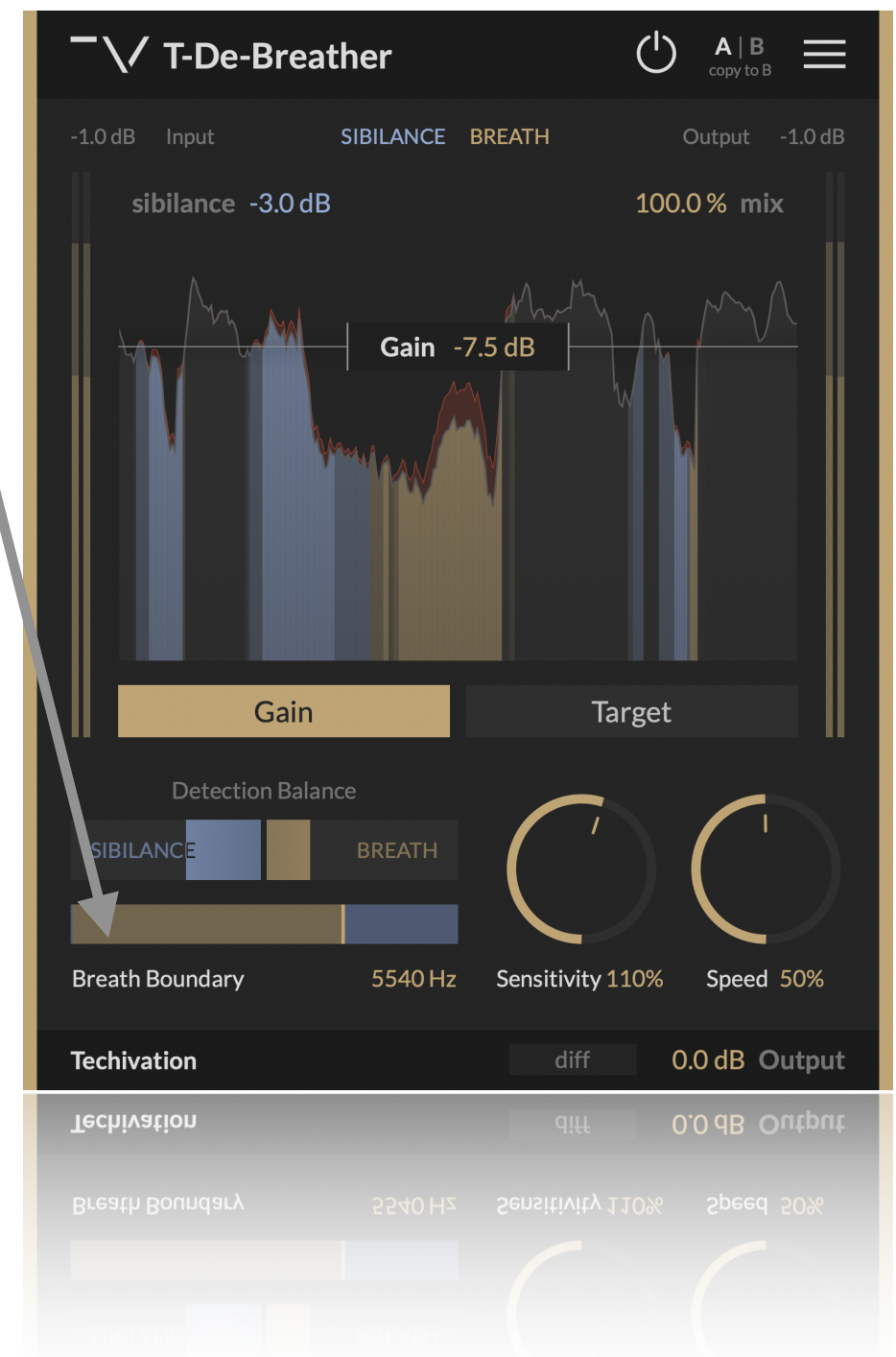
Breath Boundary

The “**Breath Boundary**” slider below the meter offsets the way **T-De-Breather** classifies detections as breath or sibilance. Spectral energy below this frequency contributes towards a breath detection, while energy above contributes towards a sibilant detection.

Higher “**Breath Boundary**” values result in more detections being identified as breaths. Lower values result in more detections being identified as sibilance.

The default “**Breath Boundary**” value of 3800 Hz should provide a good breath/sibilance distinction for a typical vocal. If some breaths are being detected as sibilance, increase the “**Breath Boundary**”. If some sibilant sounds are recognised as breaths, lower the “**Breath Boundary**”.

Very bright vocals usually require raising the “**Breath Boundary**” value above 3800 Hz, while very dark vocals might require lowering it below 3800 Hz.





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Features

Sensitivity

“**Sensitivity**” controls how sensitive **T-De-Breather** is when deciding what can be identified as a breath or sibilance.

“**Sensitivity**” values above 100% allow more of the voice to be processed, helping with catching any missed breaths.

“**Sensitivity**” values below 100% reduce the number of detections, allowing to eliminate false-positive detections.

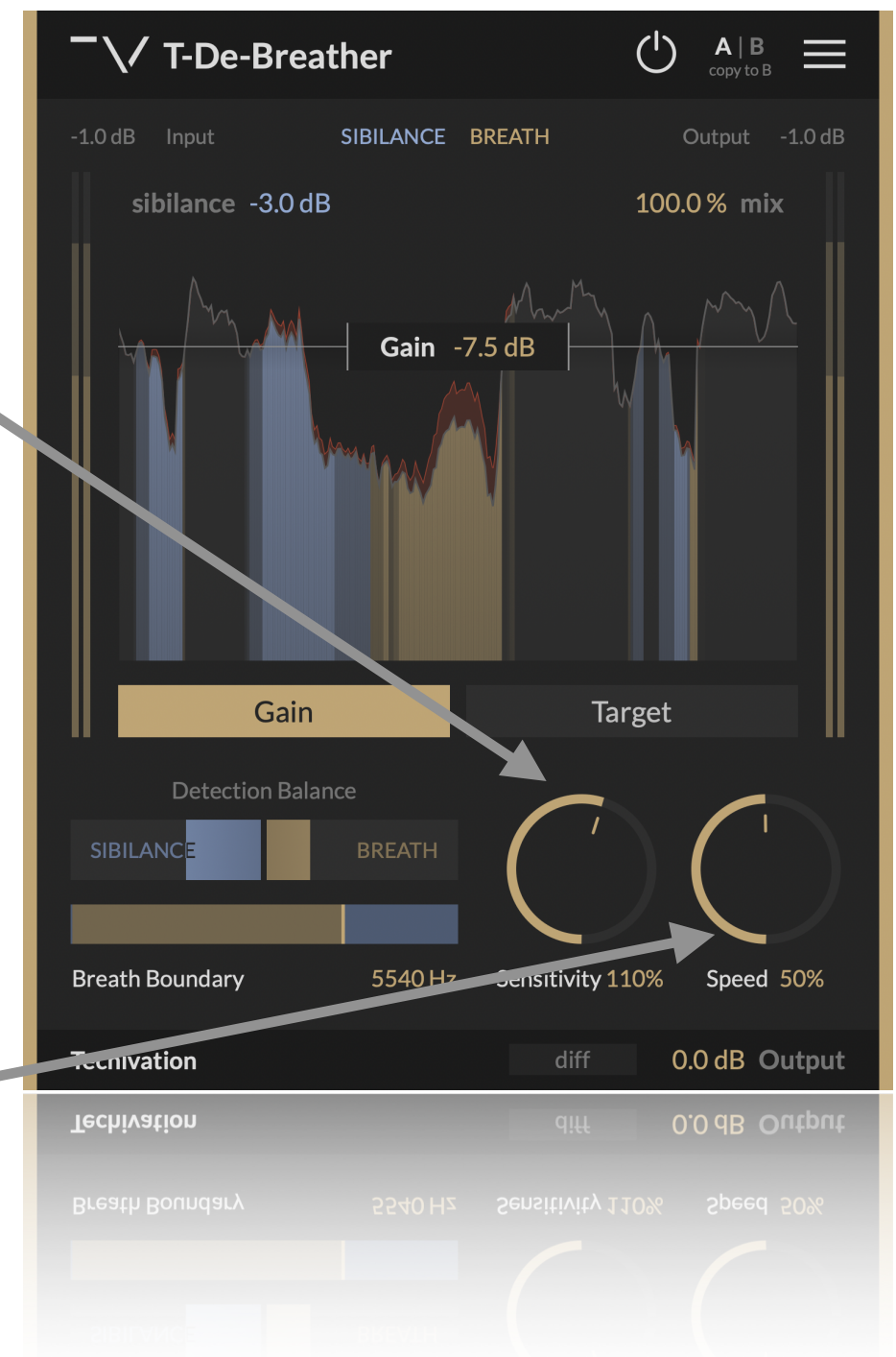
Speed

“**Speed**” controls how quickly breath suppression engages.

High “**Speed**” values deliver fast, gate-like attenuation of breaths.

Low “**Speed**” values slow down the onset of suppression, resulting in gentler, more natural effect that allows some of the breath through.

The “**Speed**” control only affects the dynamics of breath suppression. It has no effect on the behaviour of sibilance reduction using the “**Sibilance**” control.





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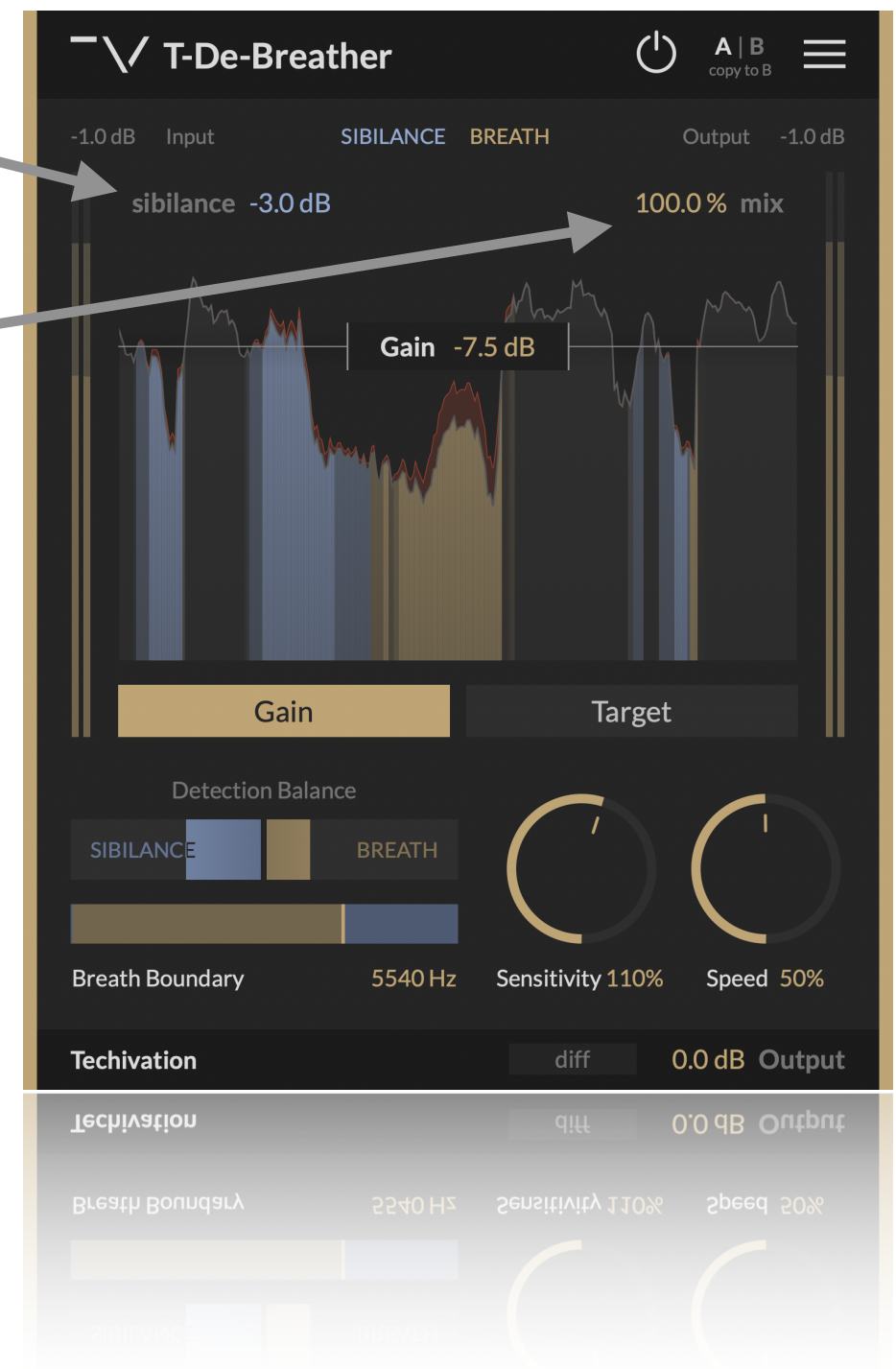
Features

Sibilance

“**Sibilance**” sets the amount of attenuation applied to the tails of sibilant sounds. Use this control to tame sibilance sounds and reduce its energy.

Mix

The “**Mix**” control blends between the processed and the original signals, giving you quick access to parallel processing.





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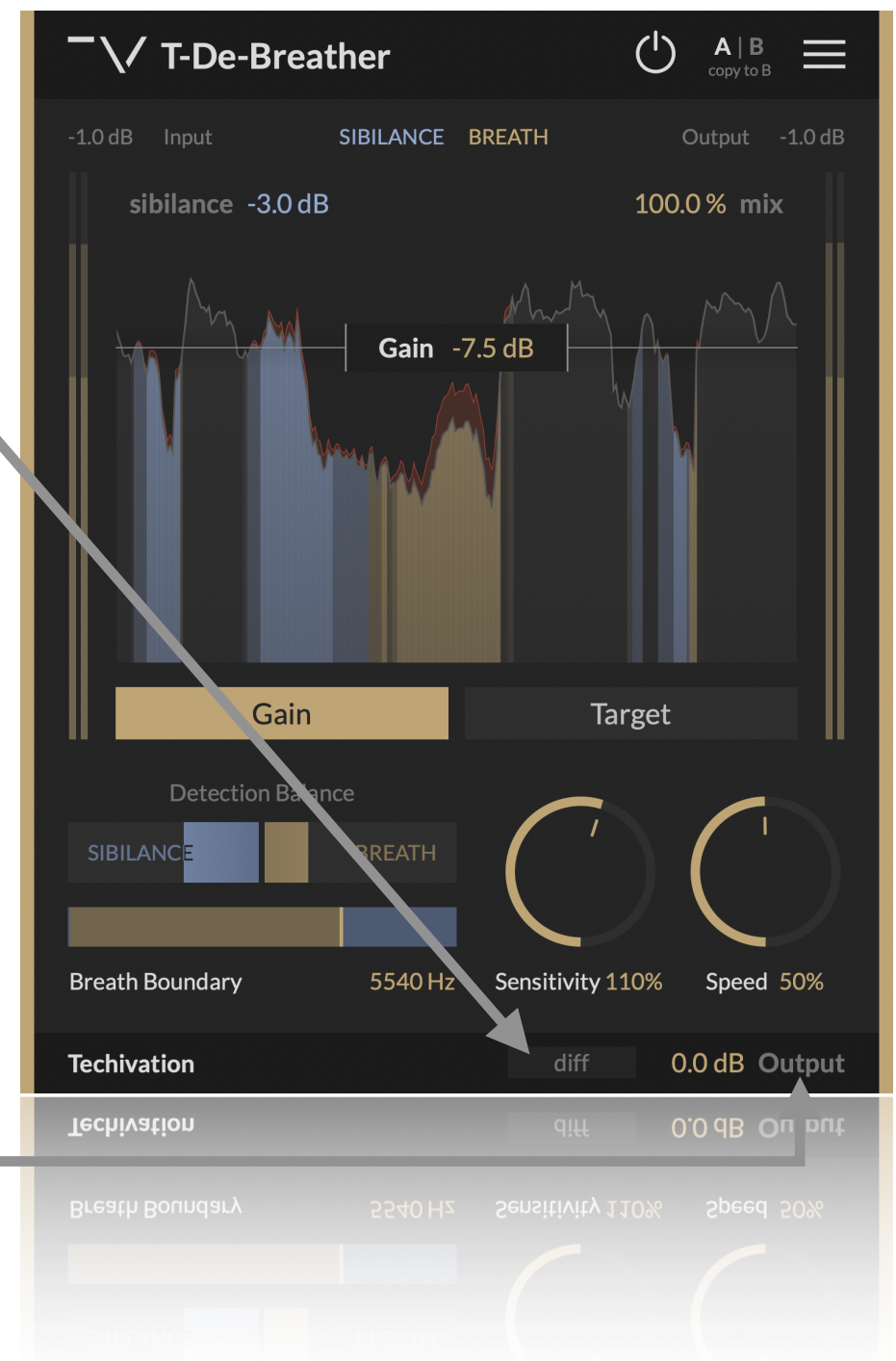
Features

Diff

“Diff” lets you listen to the difference between the processed and the original signals. When enabled, only the breaths and sibilance suppressed by the plug-in will be passed to the output. This can help when setting the “Breath Boundary” and “Sensitivity” parameters of T-De-Breather.

Output

Output controls the amount of clean gain applied to the processed signal.





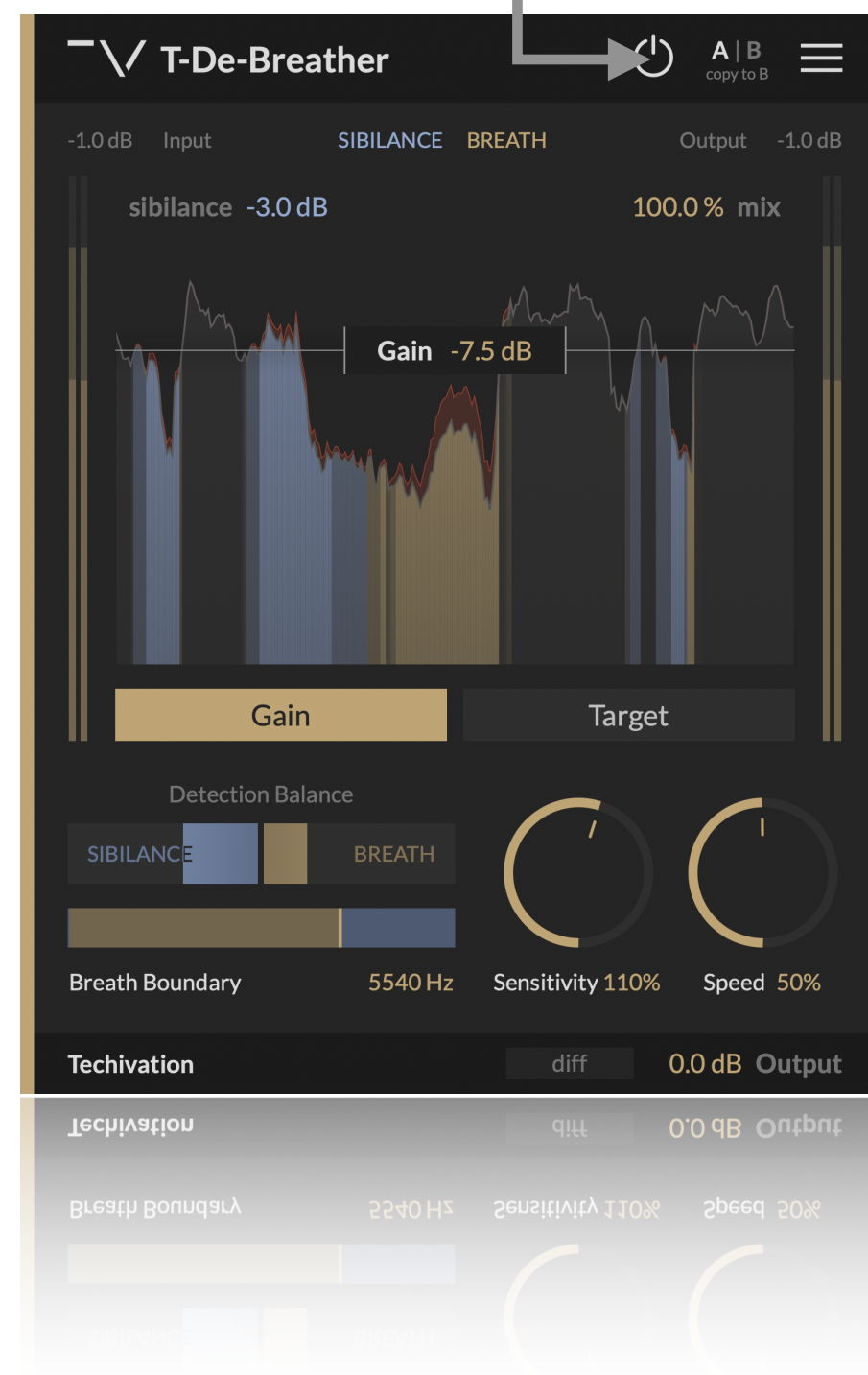
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Features

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 focus on the creative aspects of your mix without getting bogged down in technical details.





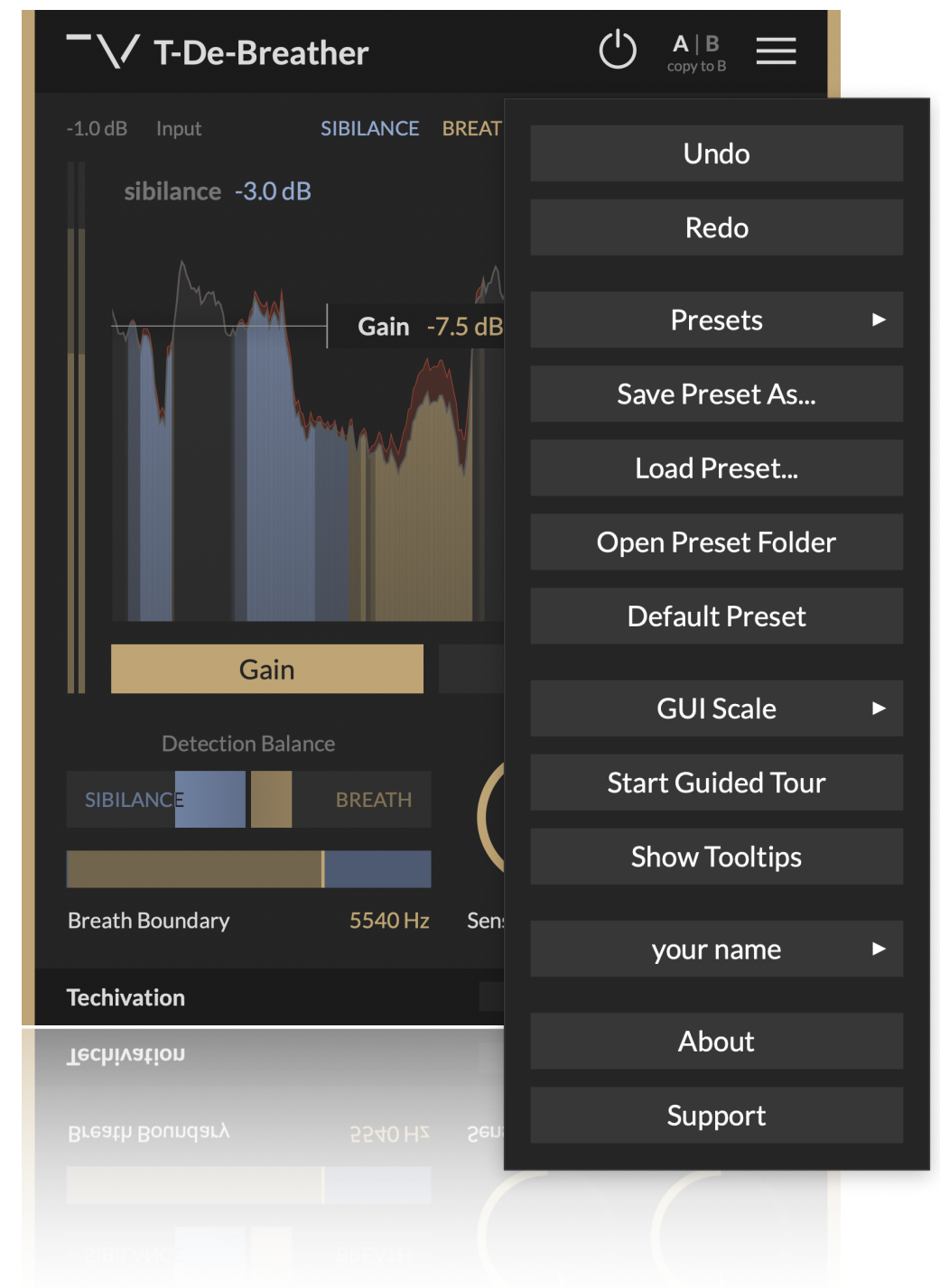
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Features

Plug-in Menu

A quick menu of useful features:

- Undo
- Redo
- Presets
- Save Preset As...
- Load Preset...
- Open Preset Folder
- Default Preset
- GUI Scale
- Start Guided Tour
- Show/Hide Tooltips
- [Your email]/Sign in
- About
- Support





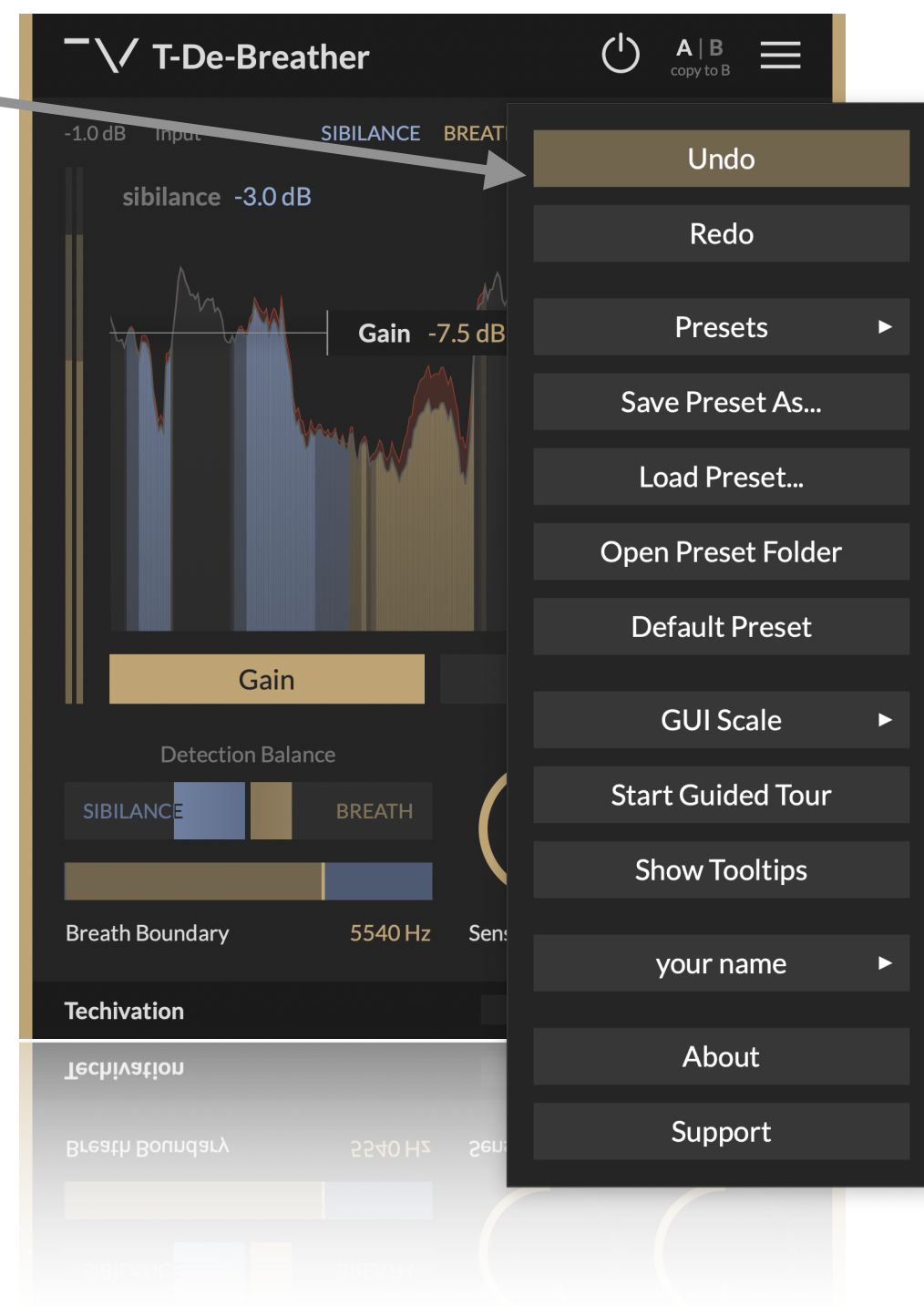
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Features

Undo/Redo

The **T-De-Breather** 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.





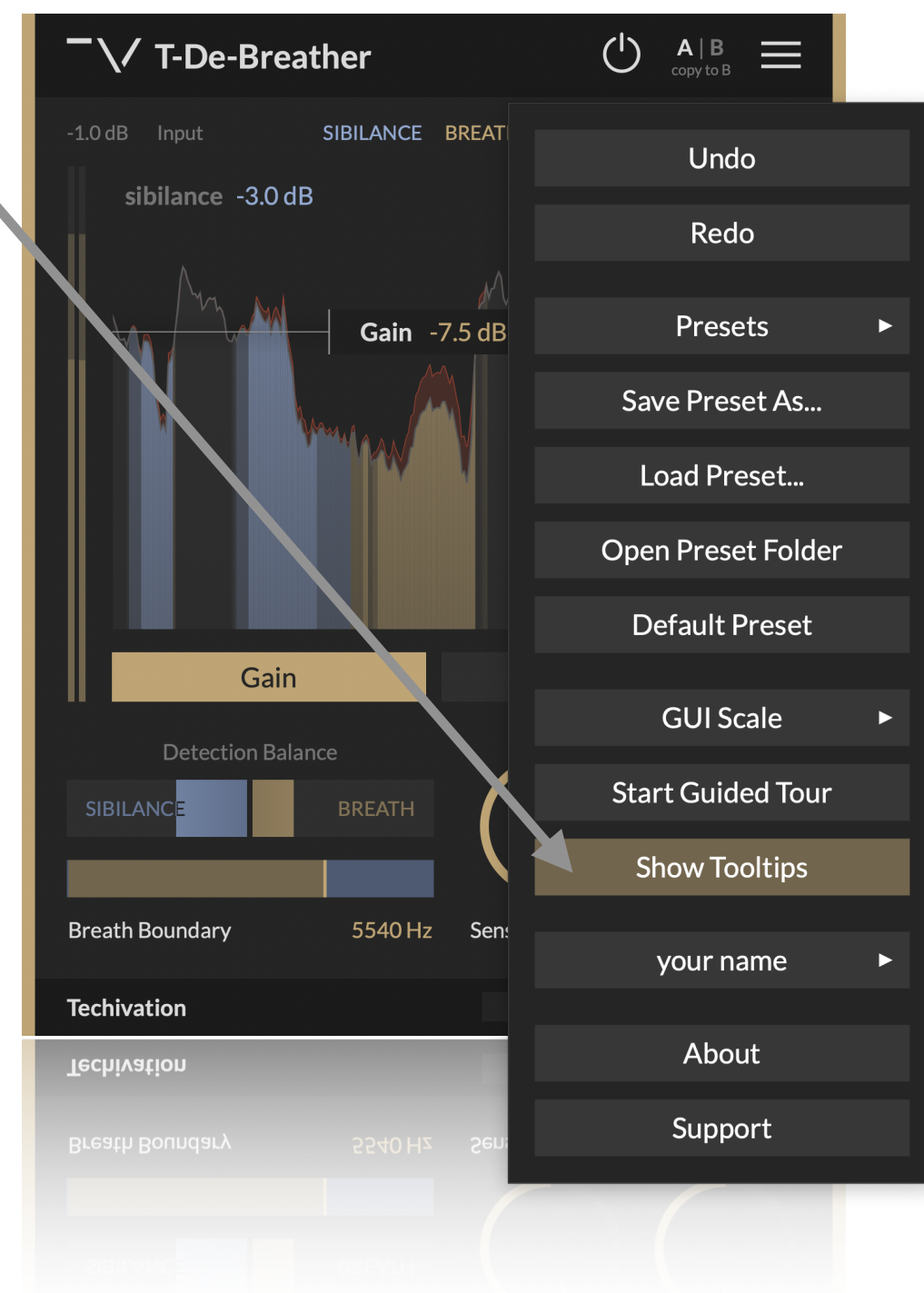
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Features

Tooltips

T-De-Breather features a handy “**Show 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-De-Breather** plugin. If you're not sure what a particular control does, simply hover your mouse over it to get a quick and informative tooltip.





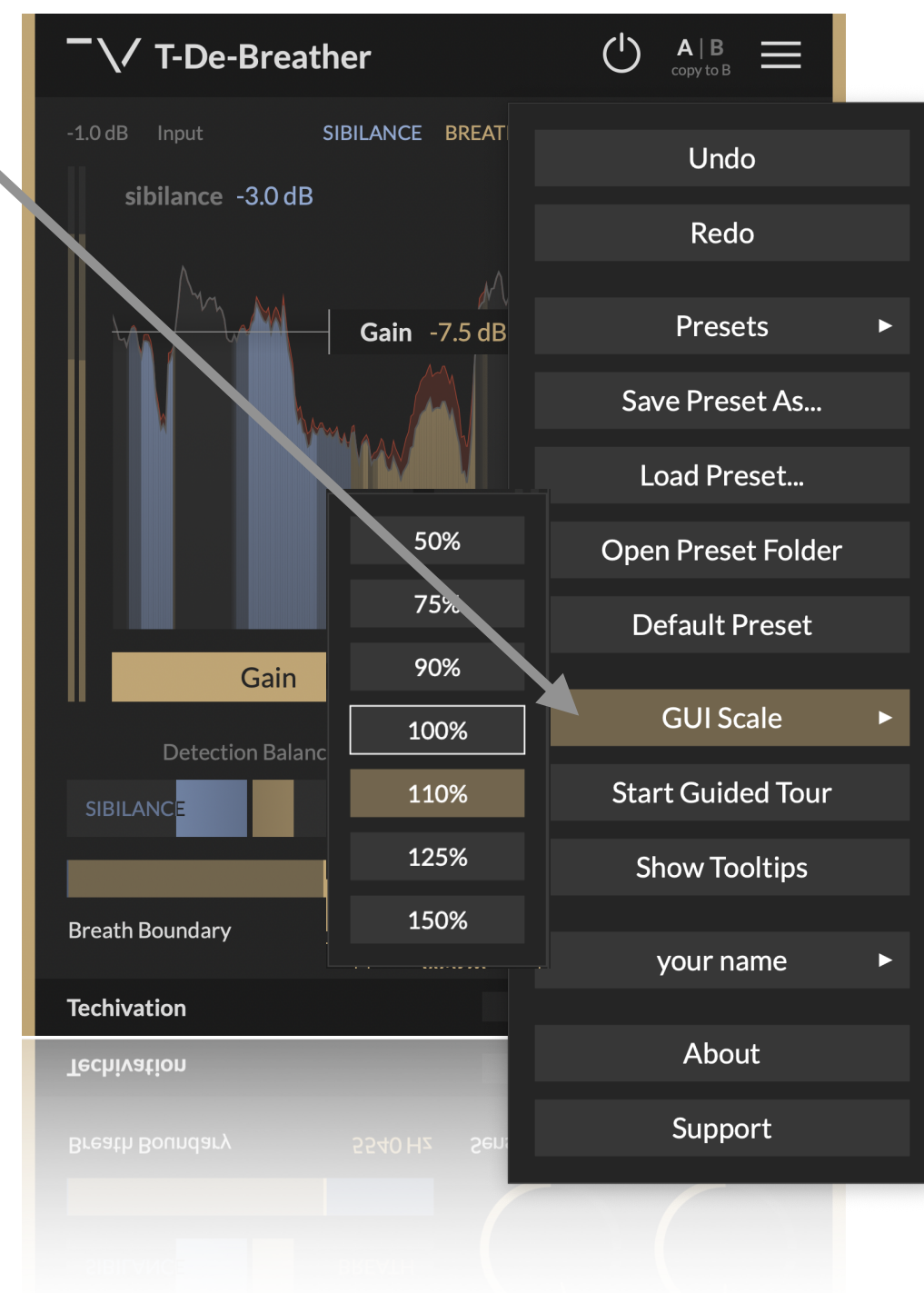
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Features

GUI Scale

The interface scaling feature in **T-De-Breather** 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-De-Breather** is optimised 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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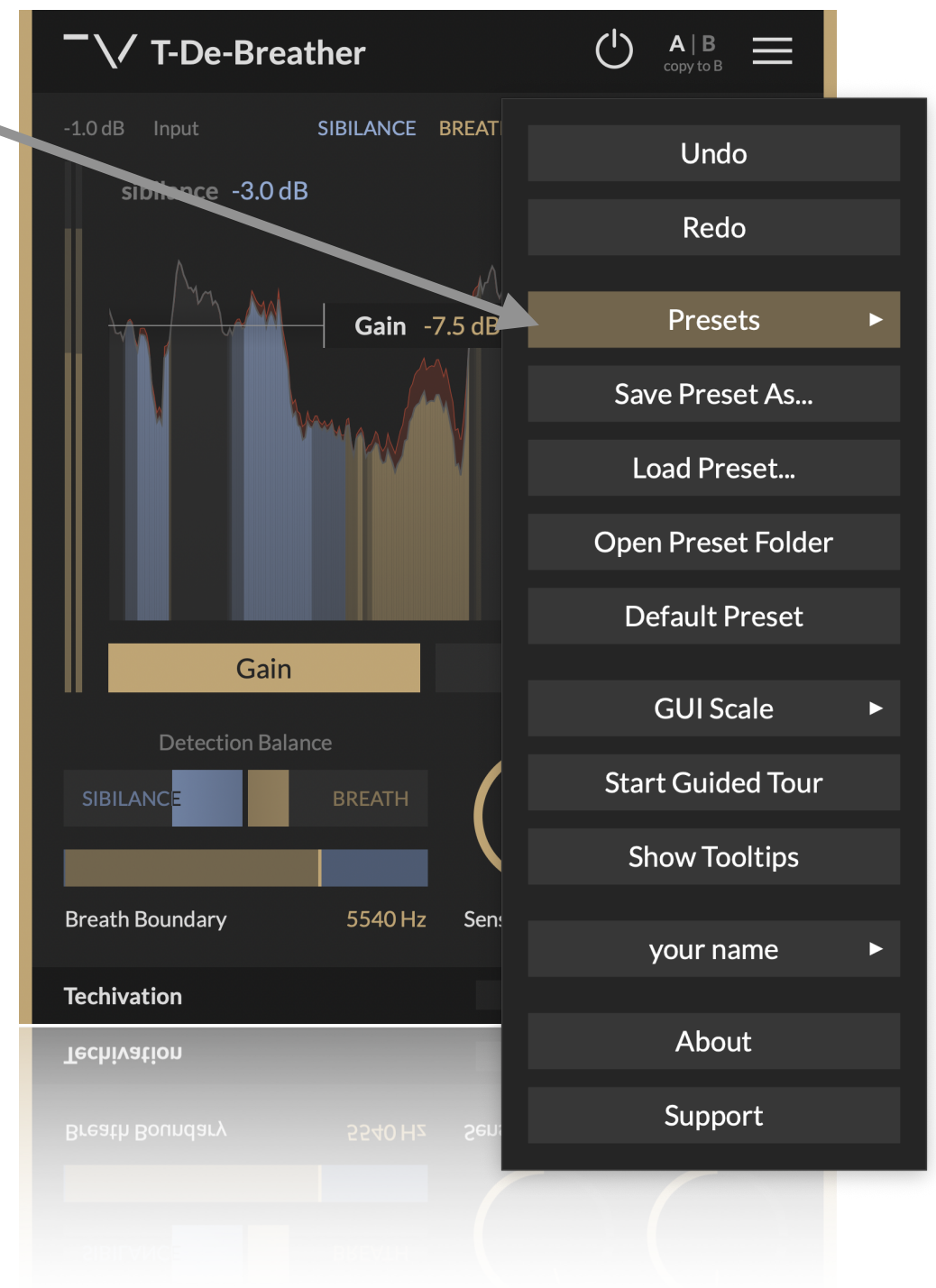
Features

Presets

The plug-in offers the convenience of saving and loading 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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Compatibility

Plugin formats: VST, VST3, AU, AAX.

Platforms supported: Mac OS X 10.15 (Catalina) or higher Intel processors, and Apple Silicon Chips.
Windows 7 and up, 32 and 64 bits.

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

Activation

T-De-Breather 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 a **T-De-Breather** 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

macOS

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."