

Techivation M-Clarity

User Manual



Techivation M-Clarity

Overview

Techivation M-Clarity is the second plugin in the Techivation M series. It's a dynamic audio plugin that utilizes spectral shaping technology to accurately remove muddiness, boxiness, and harshness from mid, and low frequencies. Its user-friendly interface allows you to quickly and easily achieve optimal results with minimal effort.

M-Clarity can effectively and quickly minimize undesirable sounds to enhance the audio clarity, resulting in a considerably more pleasing audio experience.

Whether you're aiming for a cleaner kick drum with minimal room resonances, a well-balanced bass in your mix, or a clear and solid vocal track, M-Clarity is the perfect solution. Its exceptional precision not only makes it an excellent tool for audio mixing and editing but also for audio mastering.

Techivation M-Clarity

Features

- Suppression
- Intensity
- Focus
- Hard Mode
- Soft Mode
- Attack
- Release
- Frequency Slider
- Diff
- Filter
- Input-Output Level Meters
- Mid-Side and Left & Right
- Make Up Gain
- Auto Gain
- Internal On-Off Switch
- A/B Switch
- Undo-Redo Options
- Scaleable Graphic User Interface (GUI)
- Internal Menu
- Show/Hide Tooltips
- Stereo and Mono
- Presets

Quick User Guides

Suppression: Adjusts how much the targeted frequency components are reduced to improve the overall tonal balance and clarity of the audio signal.

Intensity: It controls the scale of resonances the plugin targets: at low intensity, it suppresses fine spectral peaks without affecting the overall contour, while at high intensity, it looks for larger, more wide-band resonances.

Focus: Controls how selective the plugin is: at higher settings only the strongest resonances will be affected.

Hard & Soft modes: Choose between aggressive and more precise or gentle and smoother processing modes depending on your specific audio needs and the desired outcome for the sound.

Attack & Release: They determine how quickly the plugin responds to changes in the frequency content of the signal and how long it takes to stop processing once the changes have subsided.

Frequency Slider: This slider allows you to find and select the frequency range containing unwanted issues, which the plugin will then enhance for you.

Diff & Filter: These buttons let you to hear the difference between the original and processed audio signals, helping you fine-tune the adjustments being made to the frequencies.

Mid-Side and Left & Right: This feature allows you to control the amount of the plug-in's effect on the mid and side frequencies, or the right and left channels of your stereo tracks.

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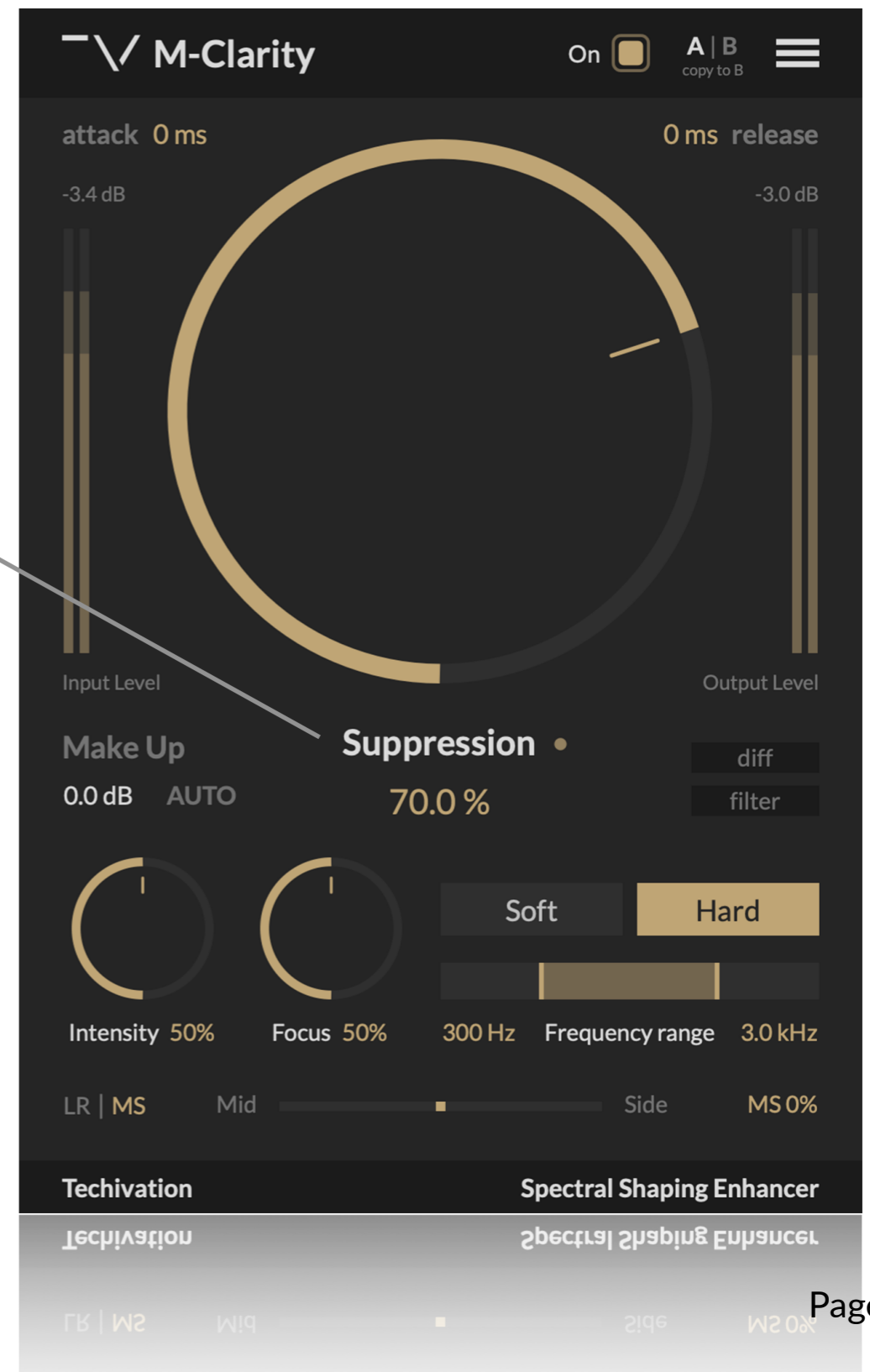
Features

Suppression

The 'suppression' controls the amount of reducing specific frequency components within an audio signal.

This is done to minimize unwanted characteristics such as harshness, muddiness, or boxiness in the sound.

By applying selective suppression to certain frequency ranges, M-Clarity allows you to enhance the overall tonal balance and clarity of an audio track.



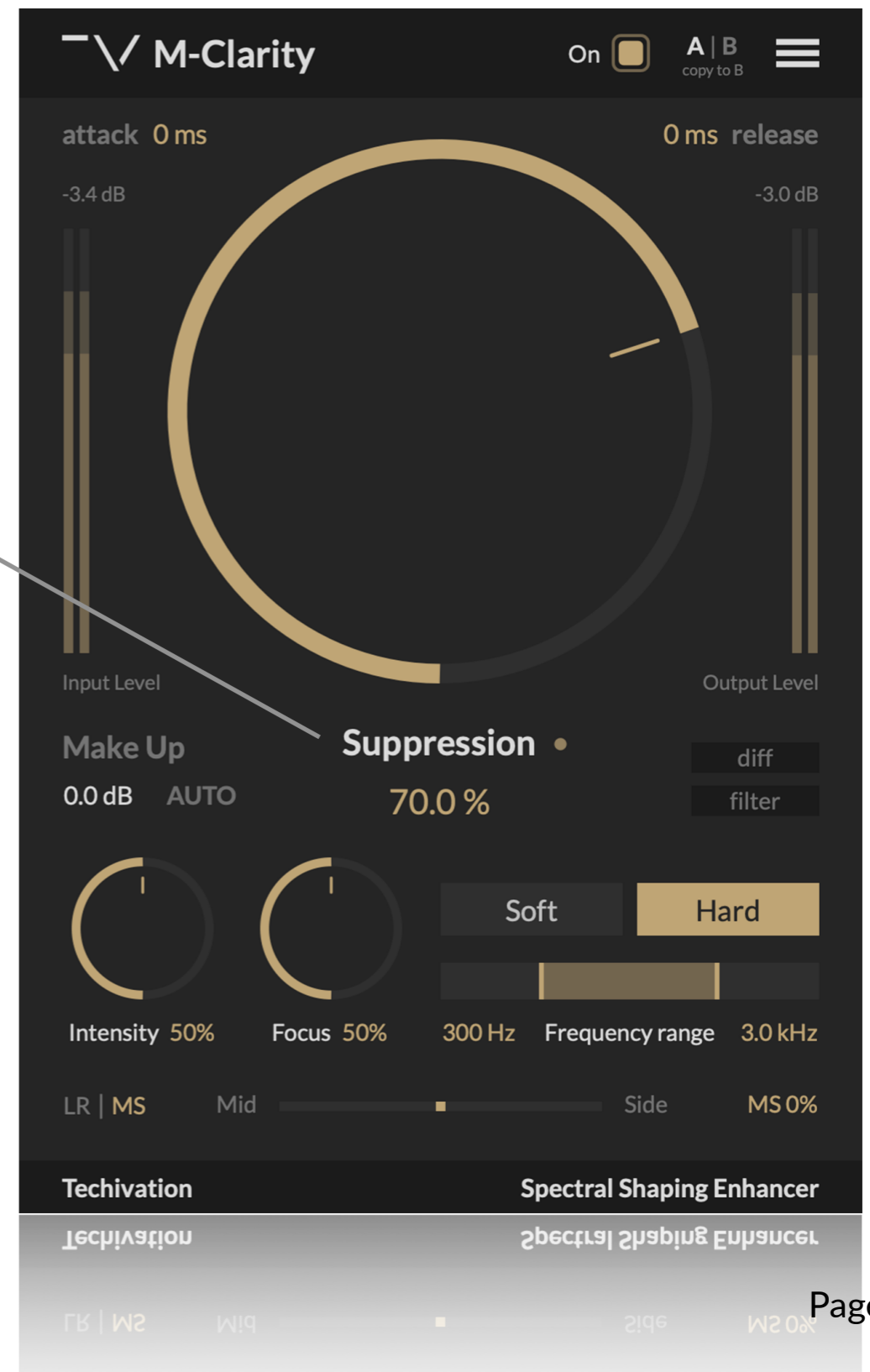
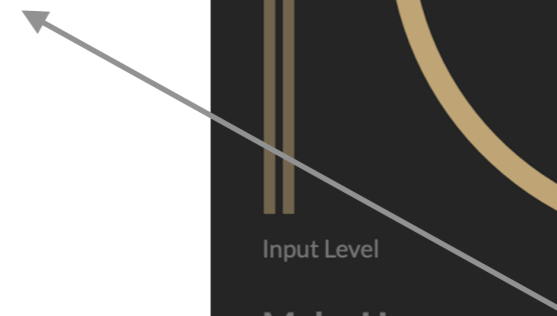
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Features

Suppression

Quick tips:

- Double clicking on the Suppression knob will take it back its default value. (50%)
- You can change all parameters by clicking on them and using your mouse wheel.
- Double clicking on the number allows you to type in the values from 0 to 100.

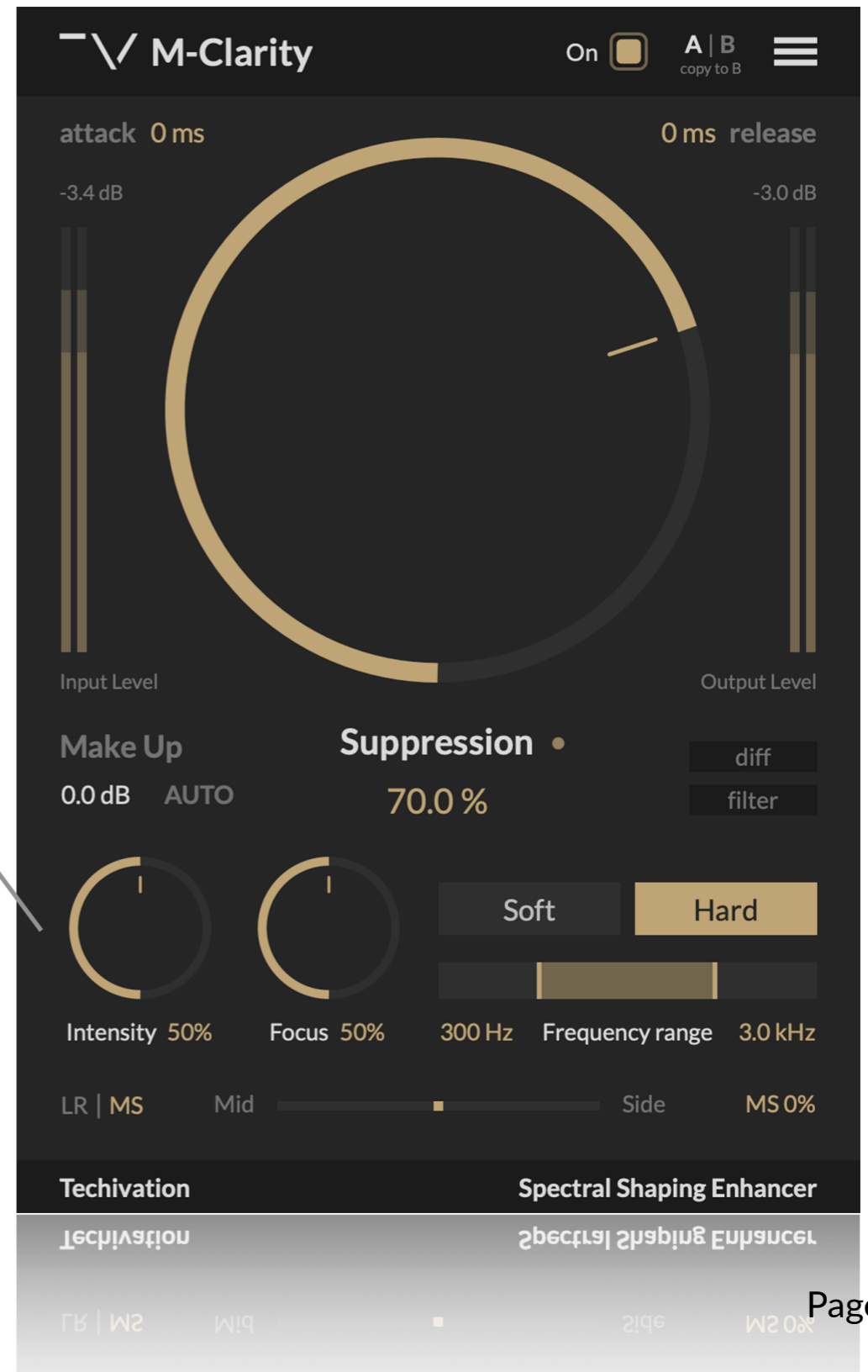
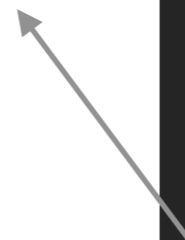


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Intensity

Intensity is related to the scale of resonances in terms of frequency. It can make the plugin "look" for small, narrow-frequency resonances, or for wider-band resonances. As a result, it controls what the plugin will suppress.



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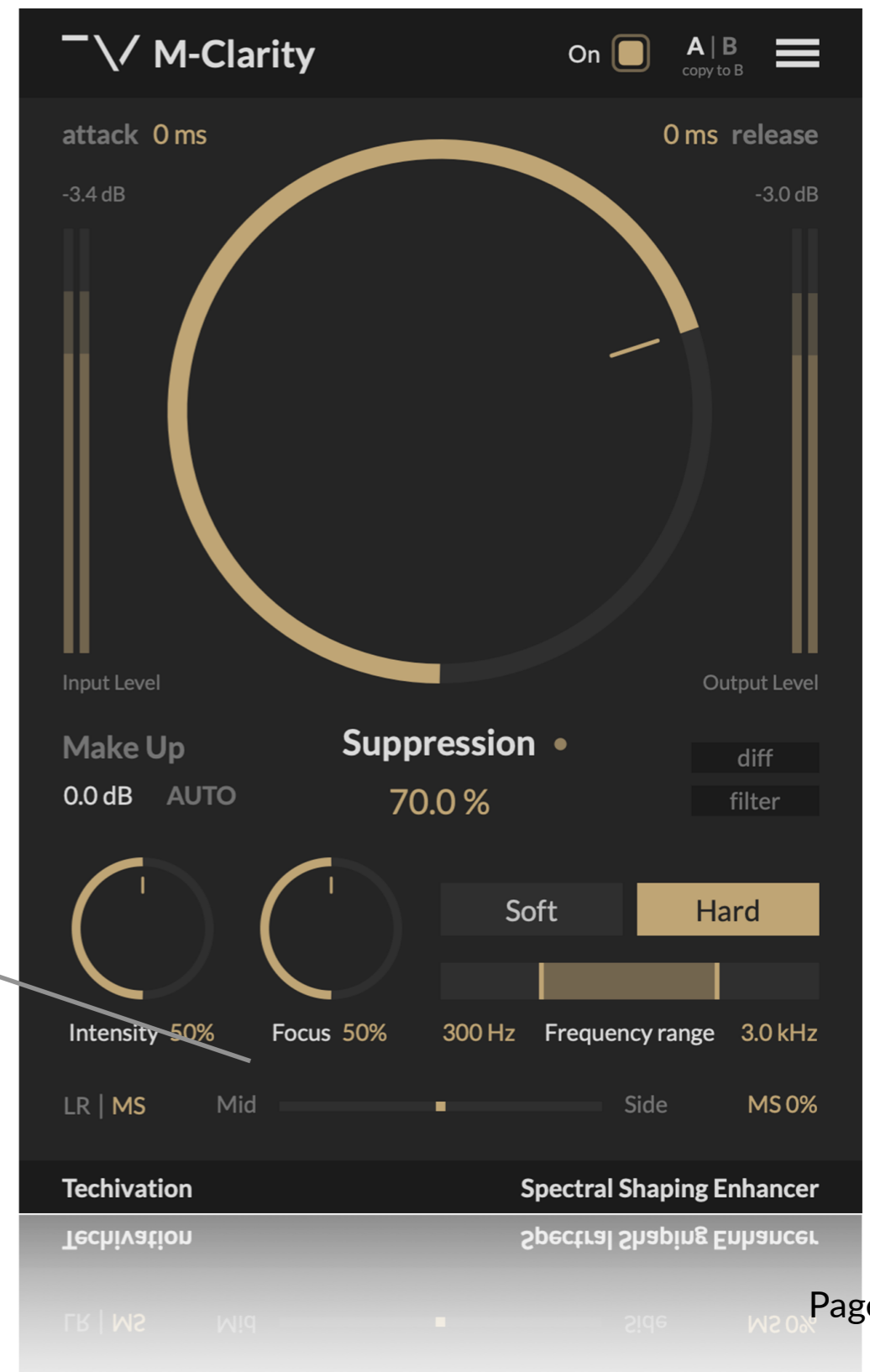
Features

Focus

Focus controls how selective the plugin is. At higher settings, the processing focuses on the strongest (as in loudest) resonances, while affecting weaker resonances less. At low settings, all resonant peaks are processed equally.

‘Focus’ allows you to choose on the signal whether you want to be more or less selective.

Ultimately, adjusting the ‘Focus’ in the plugin can significantly impact the overall quality and character of the audio track, making it an important control in the plug-in.



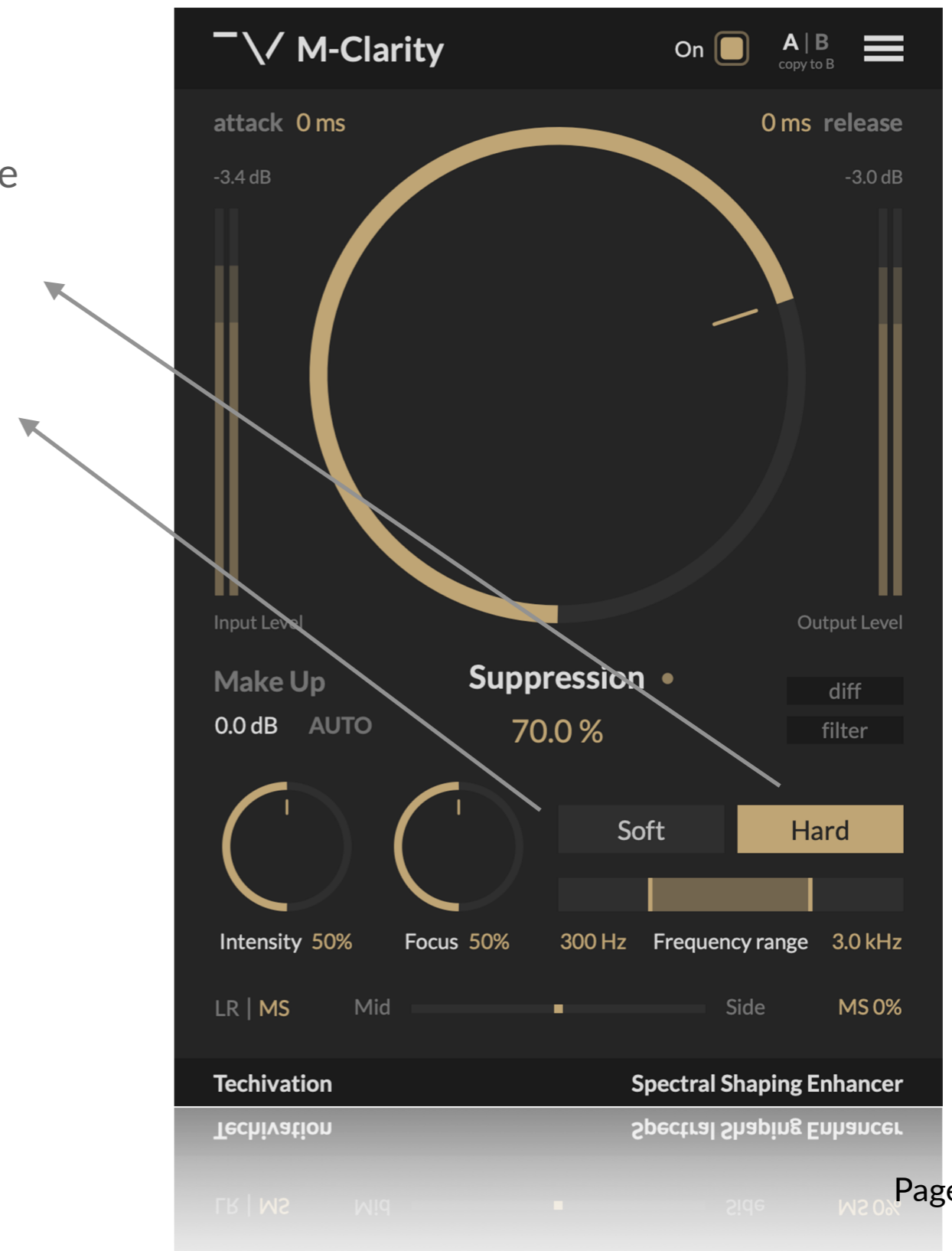
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Features

Hard & Soft Modes

The 'Soft' and 'Hard' modes in M-Clarity determine how aggressively the plugin manipulates or suppresses specific frequency components to achieve the desired audio characteristics.

In Hard mode, the plugin removes the exact resonance it detected without any spectral smoothing. "Soft" mode applies some spectral smoothing, so the processing is more gentle, but less precise.



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Attack Control

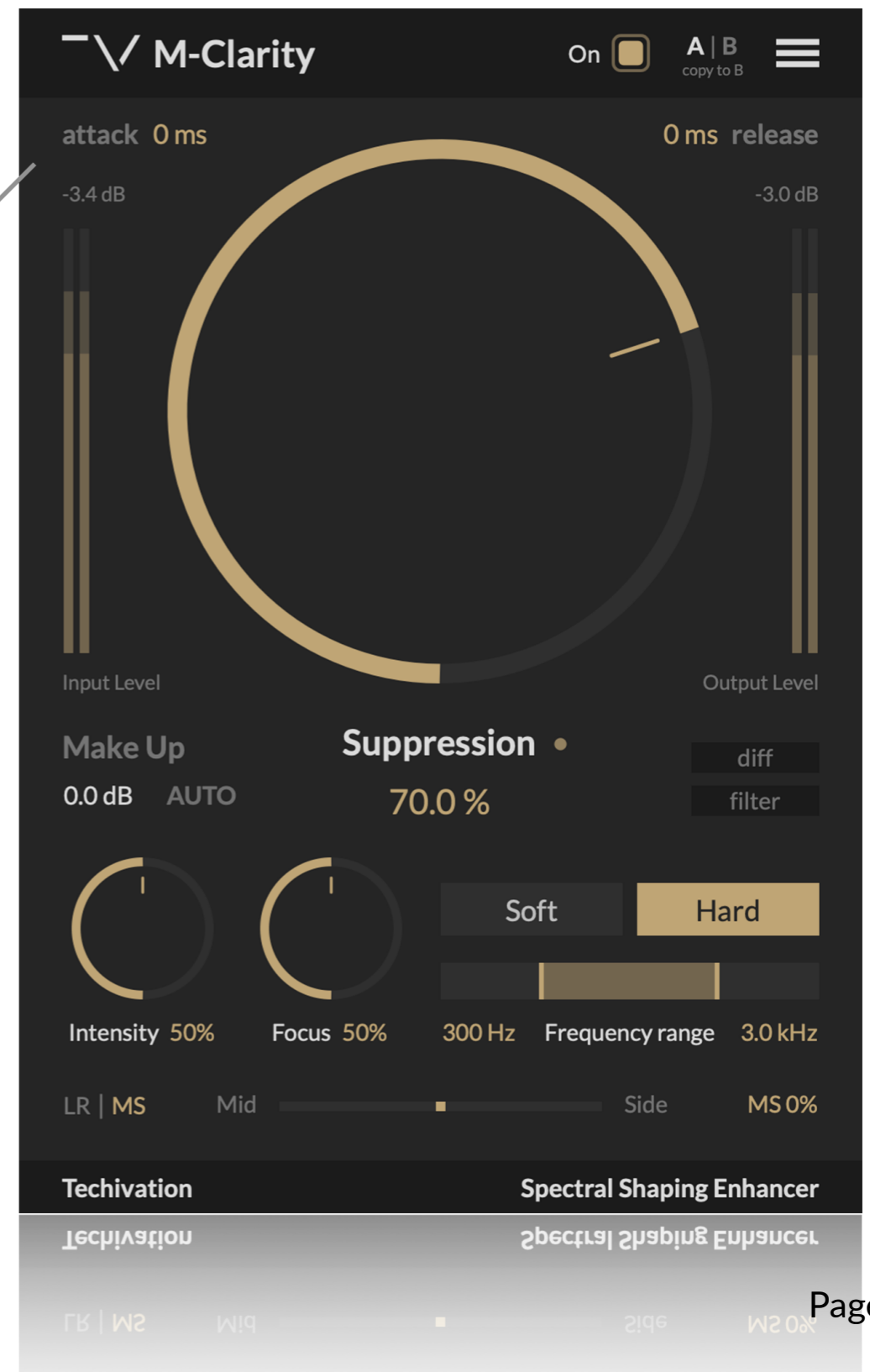
The 'attack' and 'release' parameters are related to the dynamic processing of the audio signal. Unlike most dynamic processors, you can set both attack and release in M-Clarity to 0 ms without any distortion, which gives you more precise and aggressive processing.

'Attack' refers to the time it takes for the spectral shaping processor to react to and start suppressing or manipulating the specific frequency components once they exceed a certain threshold. A shorter attack time results in faster suppression of problematic frequencies, while a longer attack time leads to a smoother and less aggressive response.

Quick tip:

- Increase the attack time if you want M-Clarity to leave transients unaffected.

Features



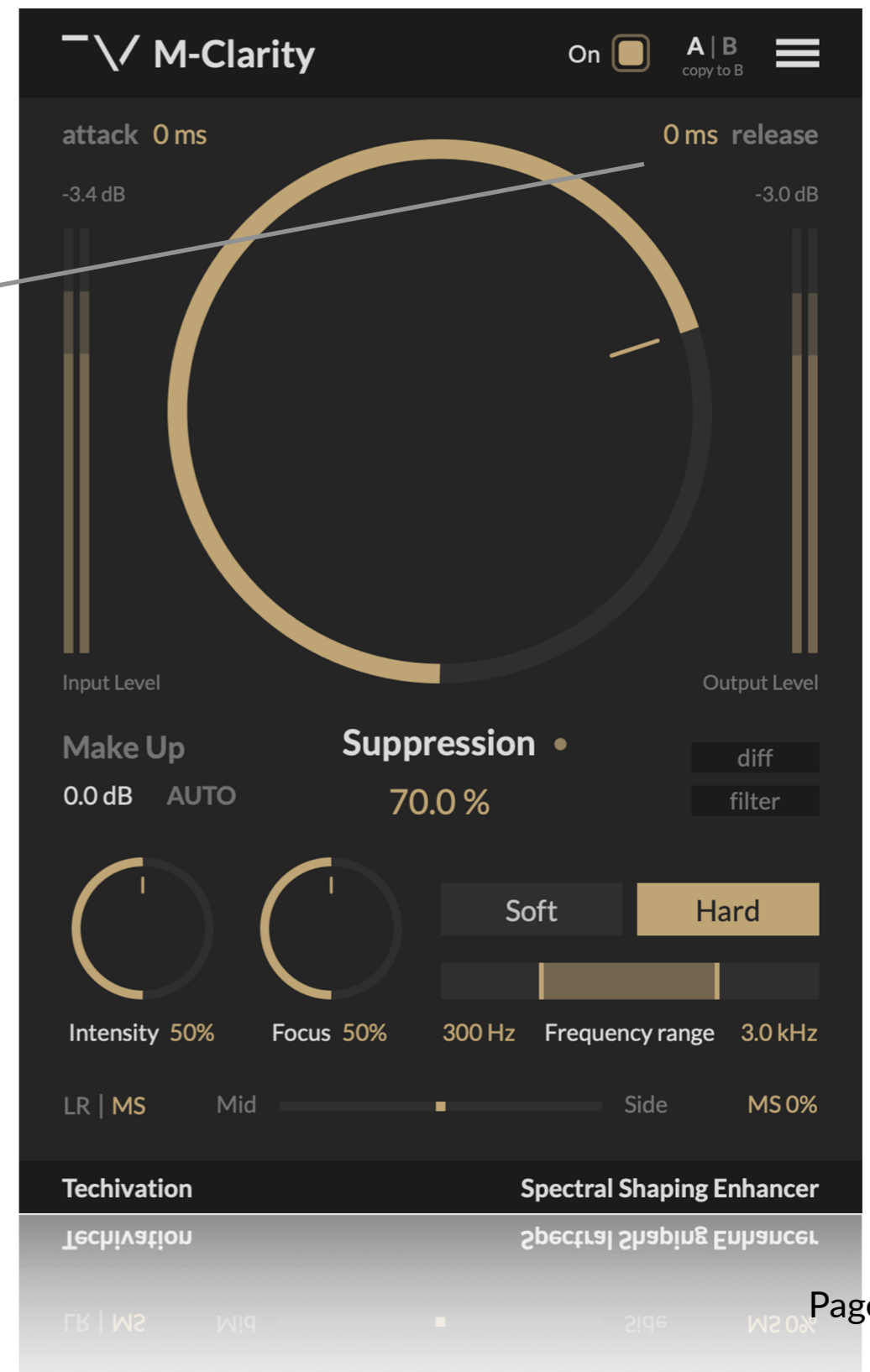
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Release Control

'Release' refers to the time it takes for the spectral shaping processor to stop suppressing or manipulating the frequency components once they fall below the threshold. A shorter release time means the processing will stop more quickly, while a longer release time results in a more gradual reduction of the effect, allowing for smoother transitions.

Adjusting the attack and release parameters in M-Clarity allows you to fine-tune the dynamic response of the processing, giving you more control over the overall sound and behavior of the plugin.

Features



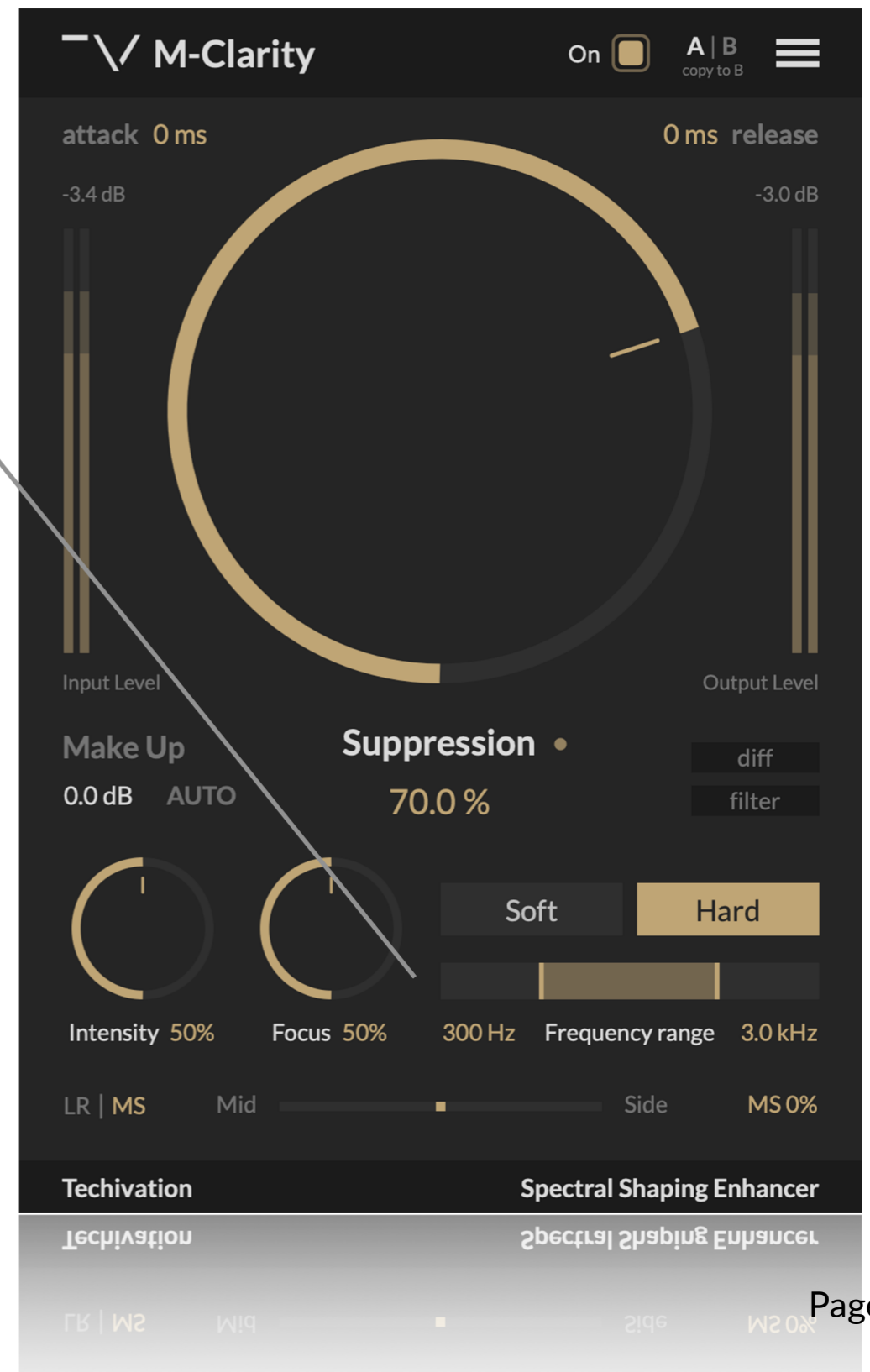
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Frequency Slider Part 1

In M-Clarity, identifying the frequency range that contains unwanted issues is a crucial step. This is where the frequency selection slider comes in handy. The frequency selection slider allows you to isolate and choose specific frequency ranges for the plugin to target and manipulate.

For instance, if you're working on a recording that has a lot of muddiness or boxiness in the low-mid frequencies, you can use the frequency selection slider to target that frequency range. Once you've selected the frequency range, the plugin will then apply its spectral shaping processing to suppress or manipulate the problematic frequency components, resulting in a cleaner and more balanced audio track.



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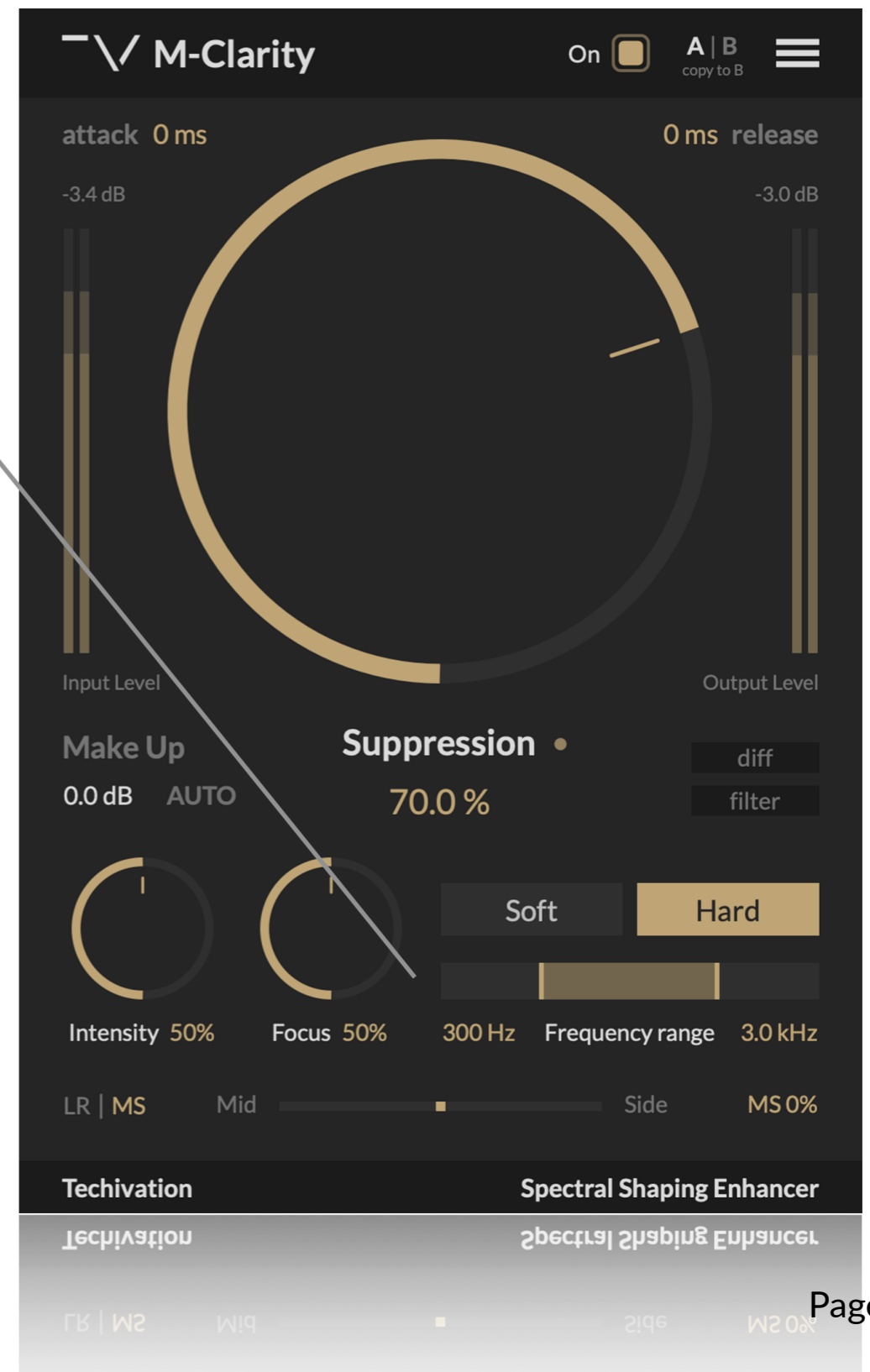
[Features](#)

Frequency Slider Part 2

Similarly, if you're working on a recording that has a lot of high-frequency harshness or sibilance, you can use the frequency selection slider to target that frequency range. The plugin will then apply its spectral shaping processing to suppress or manipulate the problematic frequency components responsible for those unwanted characteristics, resulting in a clearer and smoother sound.

The frequency selection slider gives you precise control over the spectral shaping processing, allowing you to fine-tune the adjustments for specific frequency ranges and achieve the desired audio outcome.

By isolating and targeting specific frequency ranges, you can effectively address the tonal issues and enhance the overall quality and character of the audio track.



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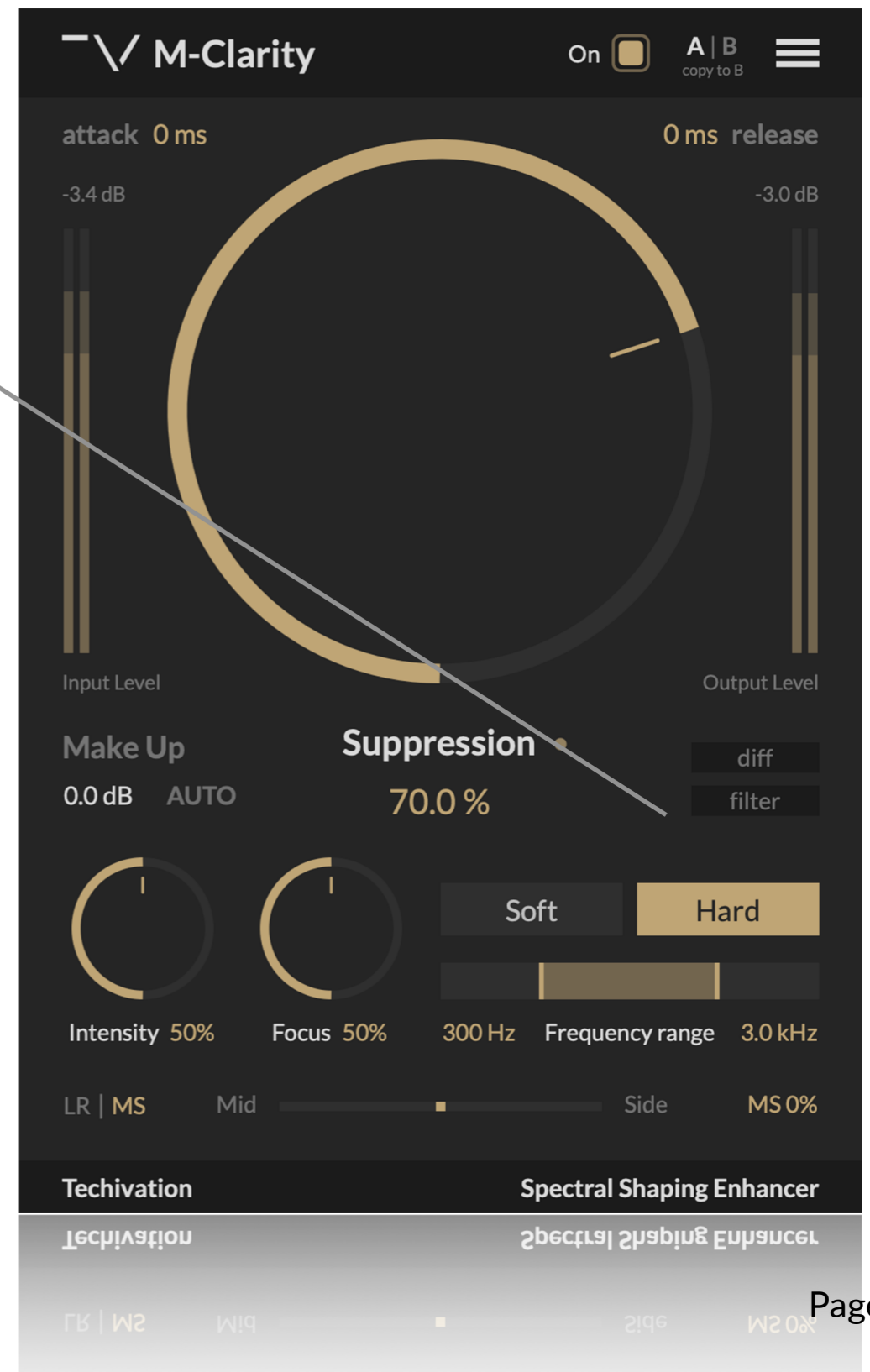
Features

Diff & Filter

'Diff' button in M-Clarity refers to Delta listening which is a feature that allows you to listen to the difference between the original audio signal and the processed audio signal.

'Filter' allows you to listen to just the frequency range selected by the Frequency range slider.

'Diff' is useful for understanding the impact of the processing on the audio signal, ensuring that the adjustments being made are effective in addressing the targeted issues, such as harshness, muddiness, or boxiness, without negatively affecting other elements of the sound.

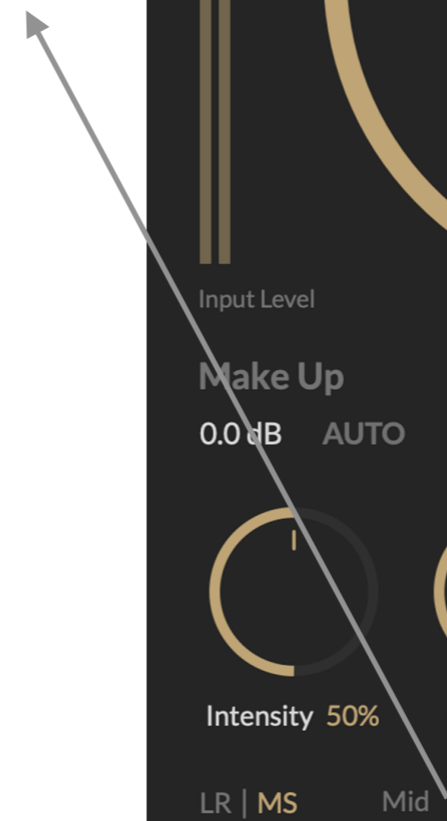


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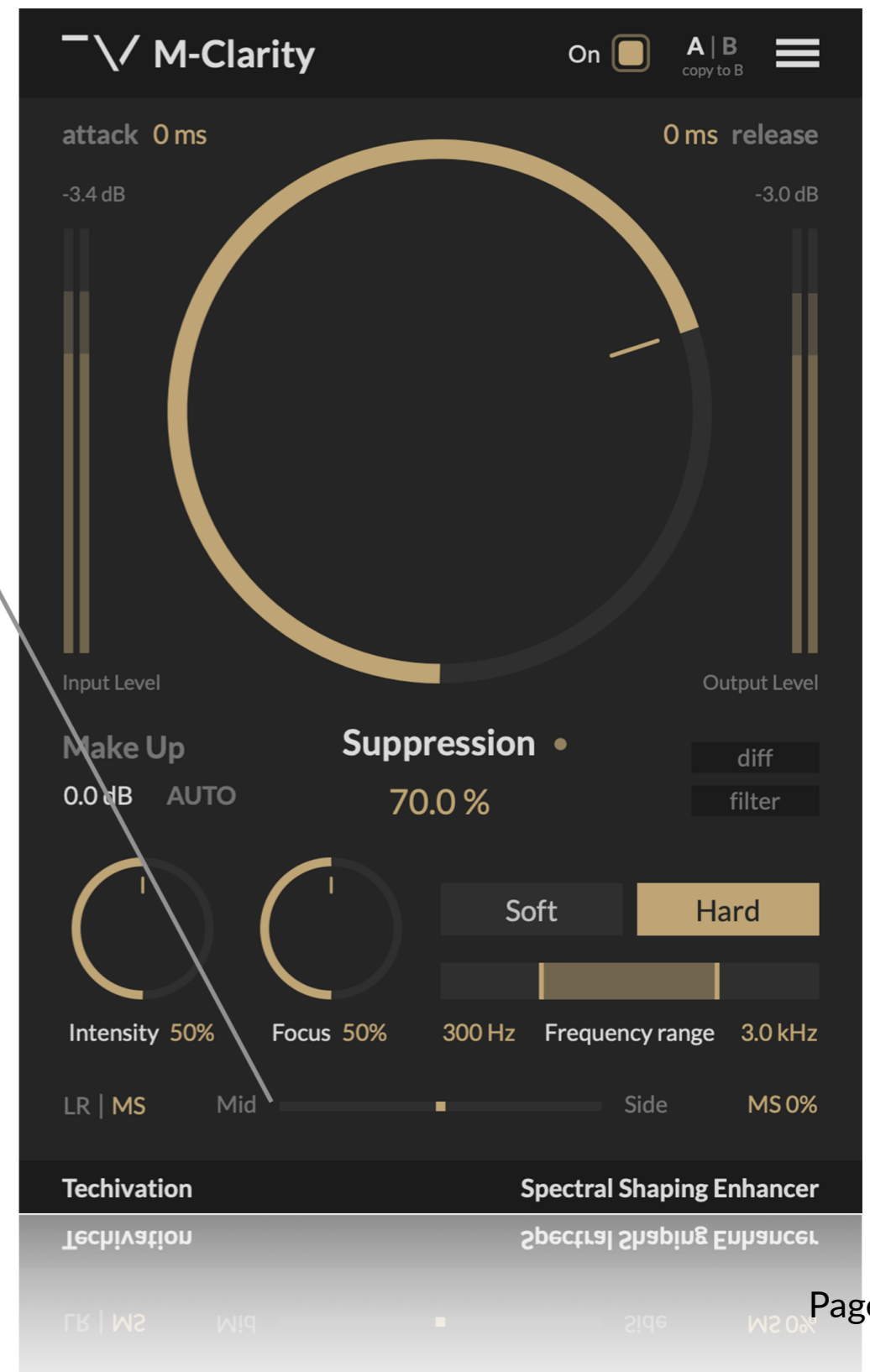
Mid-Side and Left & Right

This feature allows you to control the amount of the plug-in's effect on the mid and side frequencies, or the right and left channels of your stereo tracks.

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.



Features



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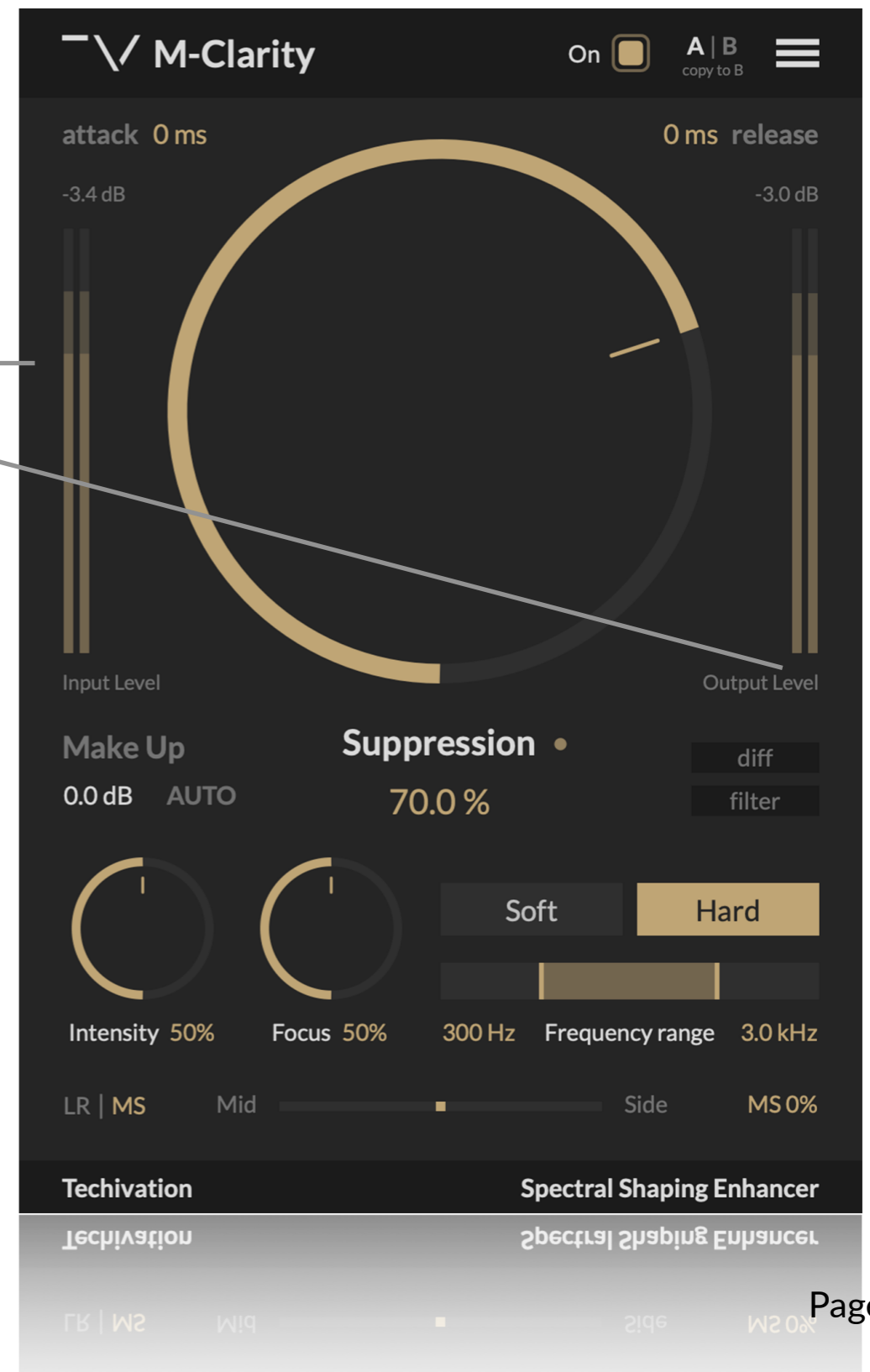
Input-Output Level Meters

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 spectral shaping process.

Checking Input-Output Level Meters in M-Clarity can help you to ensure that the processing settings are appropriate for the input signal and that the output level matches the desired target level.

By monitoring the input and output levels during processing, you can make adjustments to the processing settings and fine-tune the spectral shaping process for optimal results.

Features



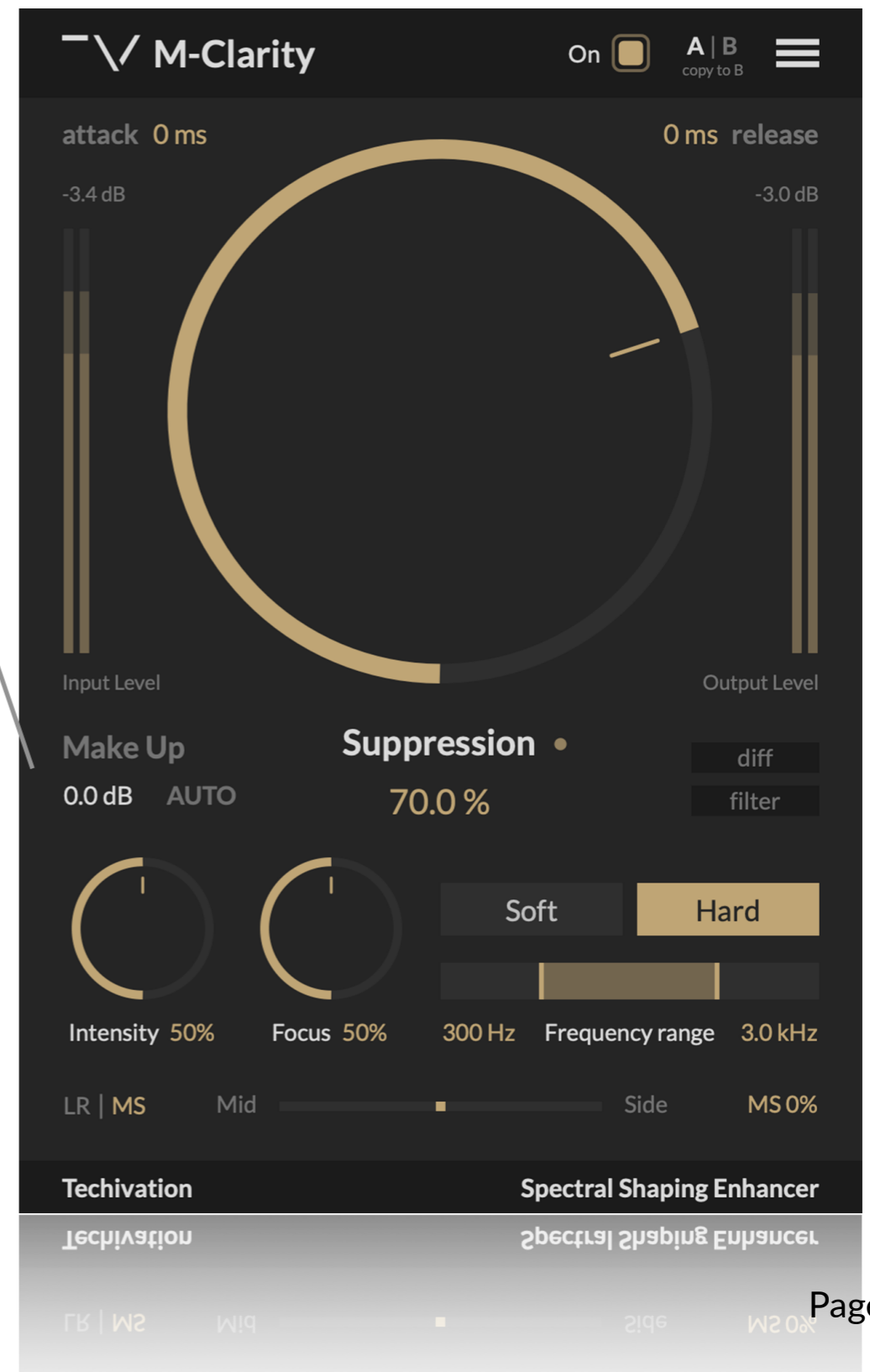
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Gain Control Part 1

In the M-Clarity, the 'Gain' control is responsible for adjusting the output volume of the processed audio signal. As spectral shaping is a frequency-specific processing technique that targets and manipulates individual frequency components within the audio signal, the input signal level does not have a direct effect on the processing. Therefore, there is no need for an input control in the plugin.

However, the 'Gain' control in M-Clarity can be useful for ensuring accurate gain compensation after applying the plugin's effect to your sound.



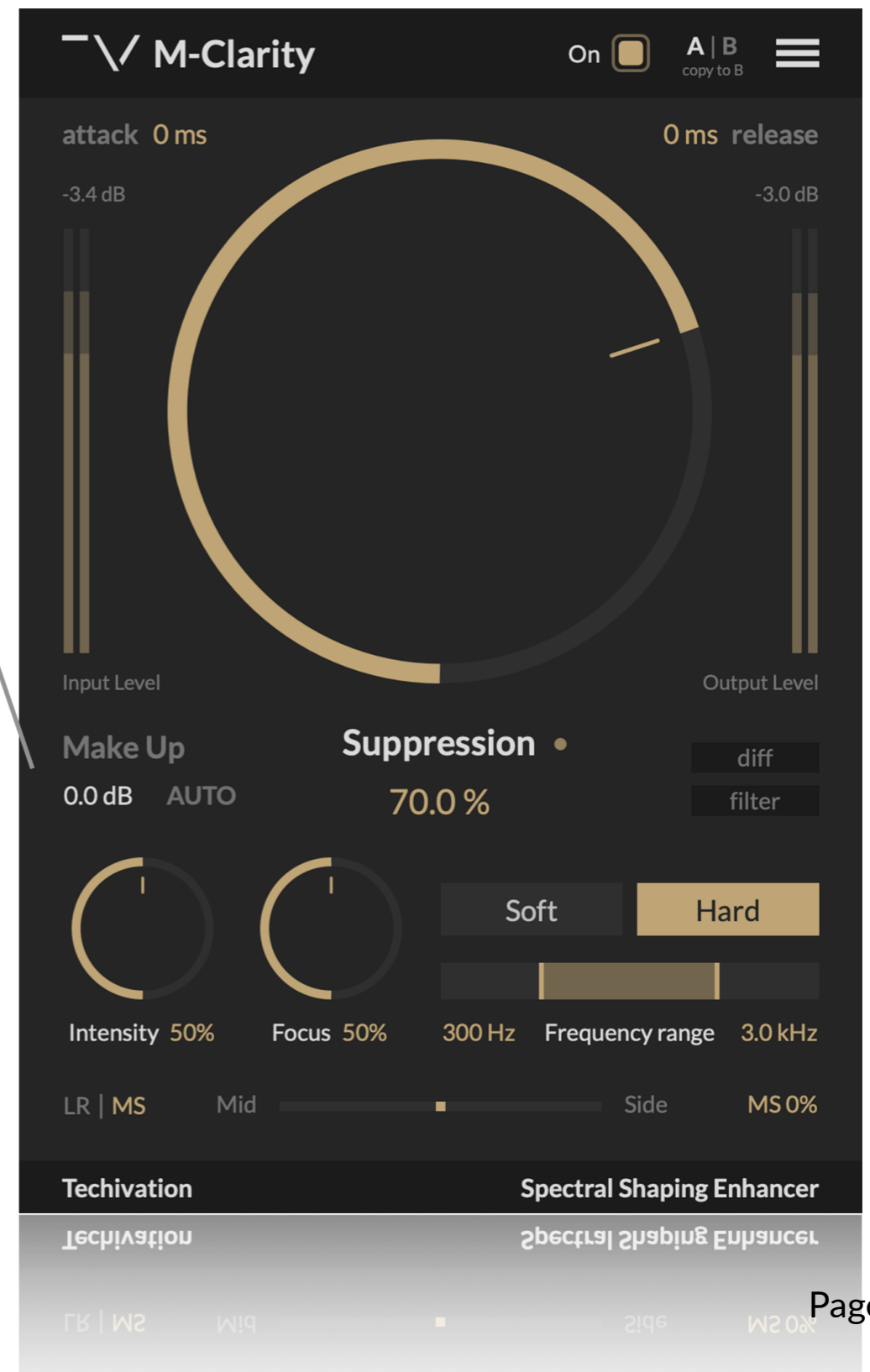
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Gain Control Part 2

When you apply the spectral shaping processing to your audio signal, it may result in a change in overall volume or amplitude. By using the 'Gain' control, you can adjust the output level of the processed audio signal to match the desired target level, ensuring that the spectral shaping effect is applied accurately and consistently.

The 'Gain' control in M-Clarity allows for fine-tuning of the output volume and can be particularly useful in situations where the processed audio signal needs to be matched with other audio tracks in a mix or where specific volume adjustments are required for a particular output format.

By controlling the output volume with the 'Gain' control, you can achieve a balanced and consistent audio output that meets your desired audio requirements.

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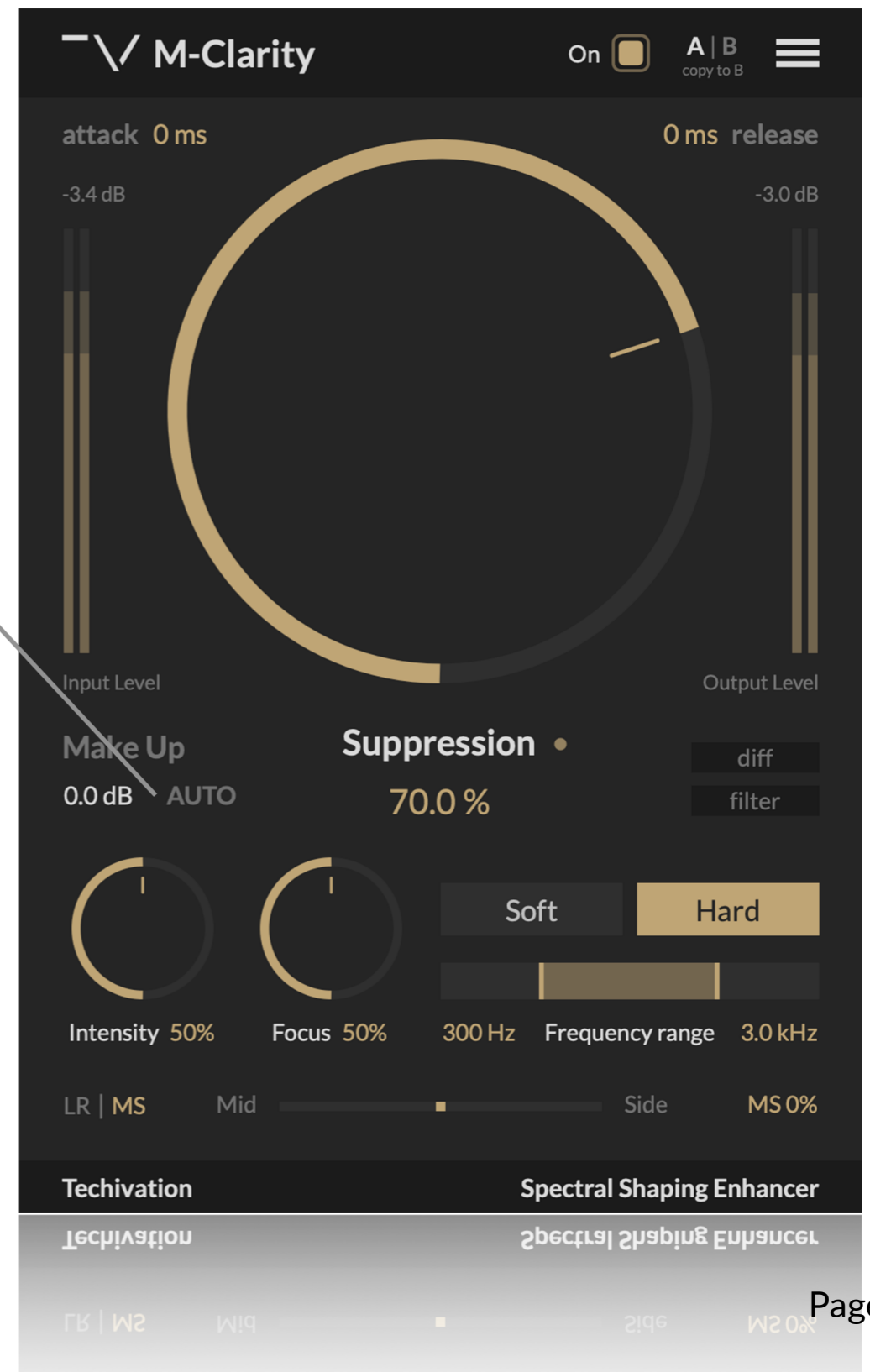
[Features](#)

Auto Gain

To make level matching easier while you tweak the M-Clarity settings, it offers the 'Auto Gain' mode.

When enabled, 'Auto Gain' continuously measures the input and output levels of the plug-in, and automatically applies the appropriate make up gain. 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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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.

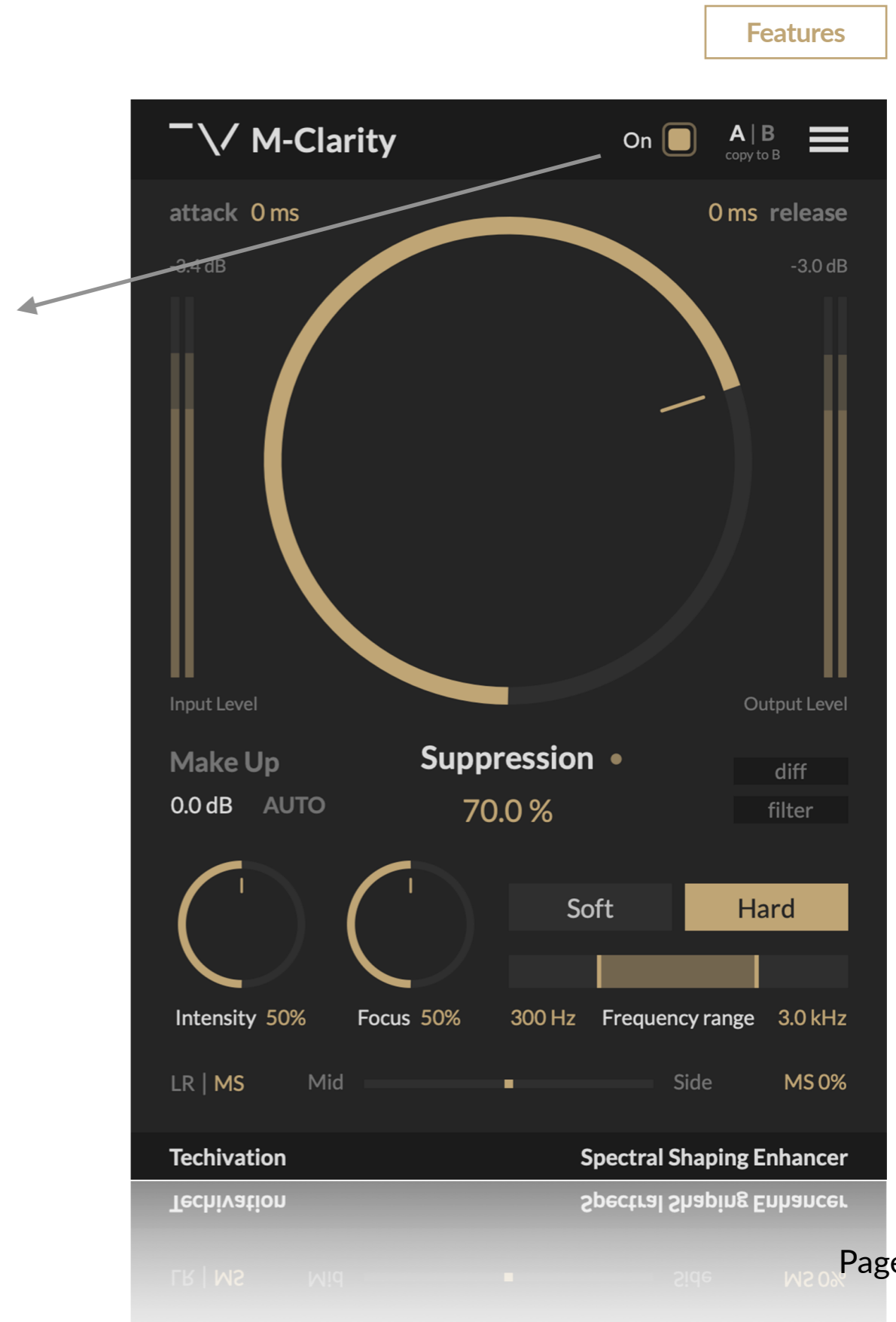
Additionally, by saving your own custom presets, you can easily recall your preferred settings across different projects, ensuring a cohesive and efficient approach to your audio production.

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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. By utilizing this bypass/on control, you can seamlessly audition your audio with and without the plug-in's effect, ensuring a smoother listening experience and more precise adjustments during the mixing process.

In addition to its primary function, the bypass/on control can also be particularly useful when working with automation processes within your DAW. By automating the bypass/on control, you can enable or disable the plug-in effect at specific points in your mix, allowing for dynamic and creative changes in the audio processing.

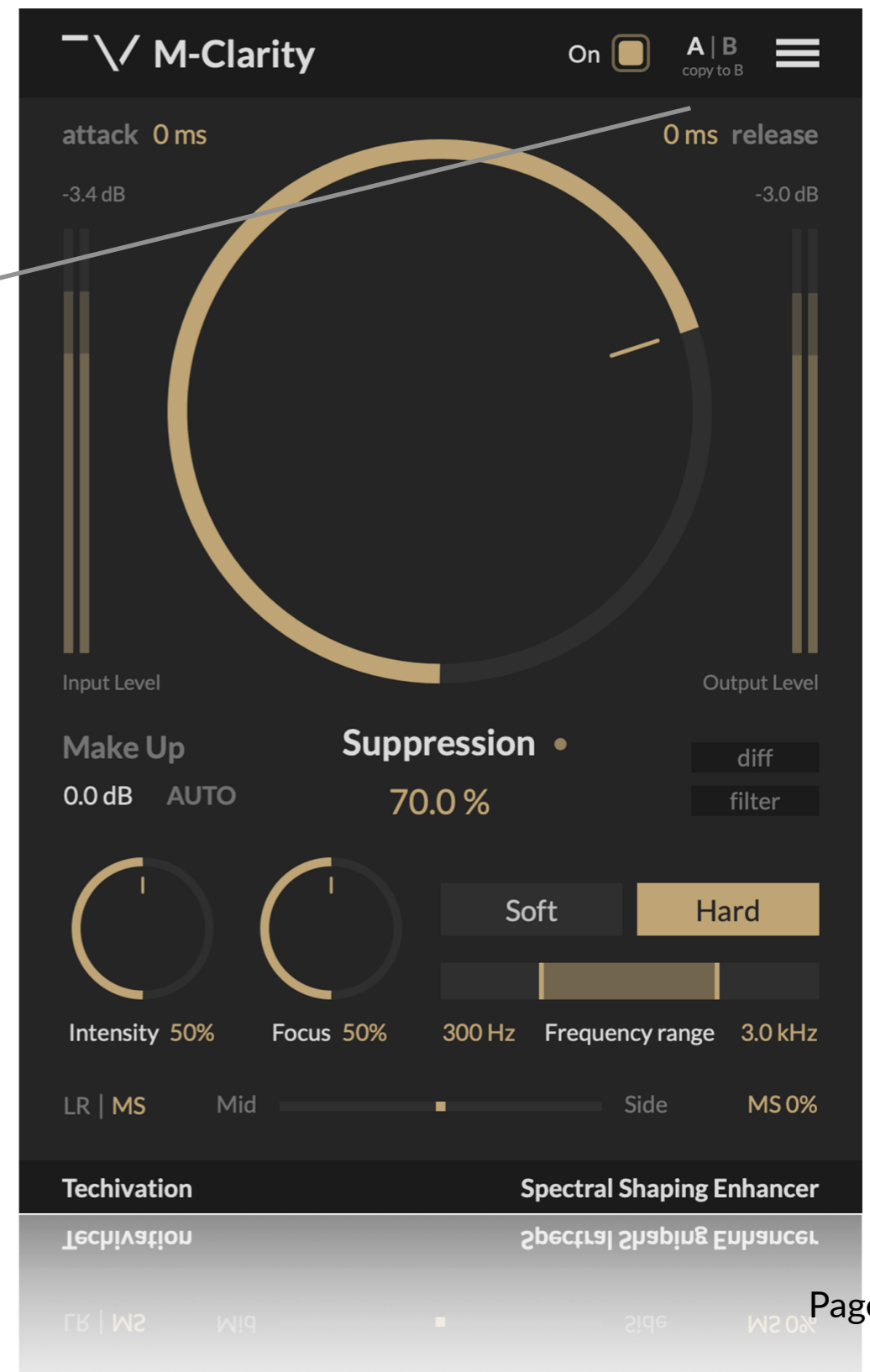


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A | B Comparison

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



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Undo/Redo

The M-Clarity 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 M-Clarity allows you to customize the size of the GUI to suit your preferences and optimize your workflow. With a range of scaling options available, from 80% to 150%, you can personalize 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 M-Clarity 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

M-Clarity 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 M-Clarity 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 M-Clarity

Features

Plug-in Menu

A quick menu of useful features:

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





Techivation M-Clarity

Compatibility

Plugin formats: VST, VST3, AU, AAX.

Platforms supported: Mac OS X 10.12 (macOS Sierra) or higher Intel & Native M1/2/3 | Legacy installer: Mac OS X 10.9 (Mavericks) to 10.11 (OS X El Capitan)
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.

Activation

M-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 a M-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

***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."