

# Techivation M-Clarity 2

## User Manual



# Techivation M-Clarity 2

## Overview

M-Clarity 2 is the next generation of our dynamic resonance suppression technology, designed to give you even greater control over unwanted frequencies. With its advanced spectral processing algorithm and intelligent features like the adaptive frequency range selector, you can effortlessly eliminate boxiness, muddiness, and harshness from your audio.

Whether you're working on vocals, instruments, or full mixes, M-Clarity 2 delivers cleaner, more transparent results, allowing your sound to breathe with pristine clarity and detail. Achieving professional-quality sound has never been easier.

## What's new in M-Clarity 2

**Improved Dynamics:** The dynamics section of M-Clarity 2 has been rewritten from the ground up to deliver clean and responsive Attack and Release controls to shape your sound.

**Even More Clarity:** M-Clarity 2 features a new and improved version of our spectral shaping engine, delivering even cleaner sound with no distortion or artefacts.

**Adaptive Processing Range:** M-Clarity 2 continuously analyses your audio and automatically adjusts the processing frequency range to target boxiness, muddiness, and harshness.

**Intelligent Mix Assistant:** The new Mix Assistant in M-Clarity 2 analyses your audio and suggests the right settings for your track.

**Gentler Soft Mode:** The “Soft” processing mode in M-Clarity 2 is now even more gentle, without reducing the effect strength compared to the “Hard” mode.

**See What the Plug-in is Doing:** M-Clarity 2 shows the exact spectral adjustments it makes to your audio, so you are always in control of what the plug-in is doing.

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## Features

- Suppression
- Intensity
- Focus
- Intelligent Mix Assistant
- Hard & Soft Modes
- Attack & Release
- Frequency Limit
- Diff & Filter
- Make Up & Auto Gain
- Input-Output Level Meters
- Mid-Side and Left & Right
- 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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## Suppression

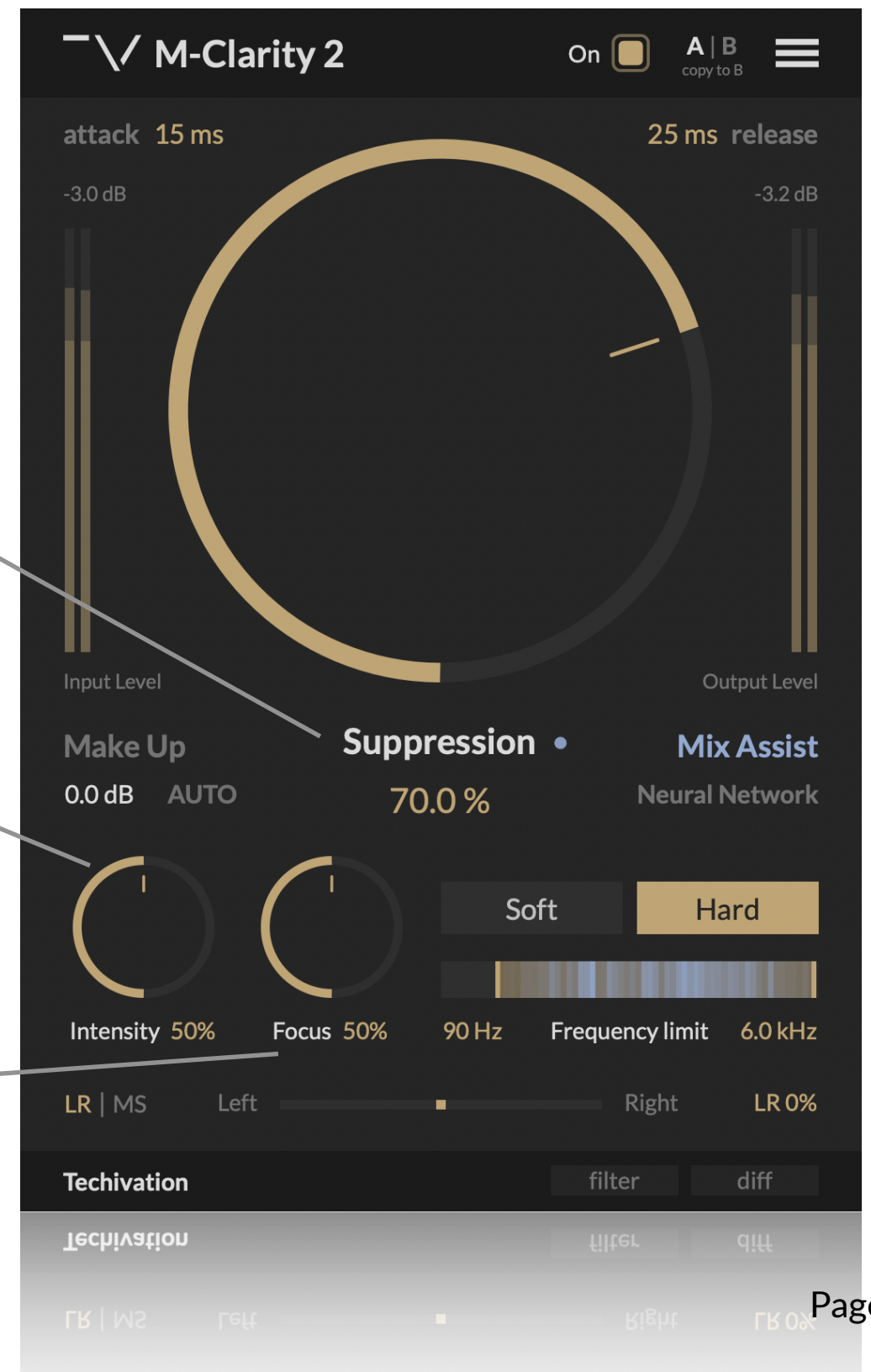
“Suppression” is the main control of the plug-in. It determines how much the targeted frequency components are reduced to improve the tonal balance and clarity of your audio.

## Intensity

“Intensity” controls the scale of spectral peaks that M-Clarity 2 is targeting. At lower settings, the plug-in will focus on finer, narrower peaks, while higher settings will result in broader spectral adjustments.

## Focus

“Focus” controls how selective M-Clarity 2 is when suppressing spectral peaks. Higher “Focus” settings will result in only the strongest resonances being suppressed, while affecting weaker resonances less.



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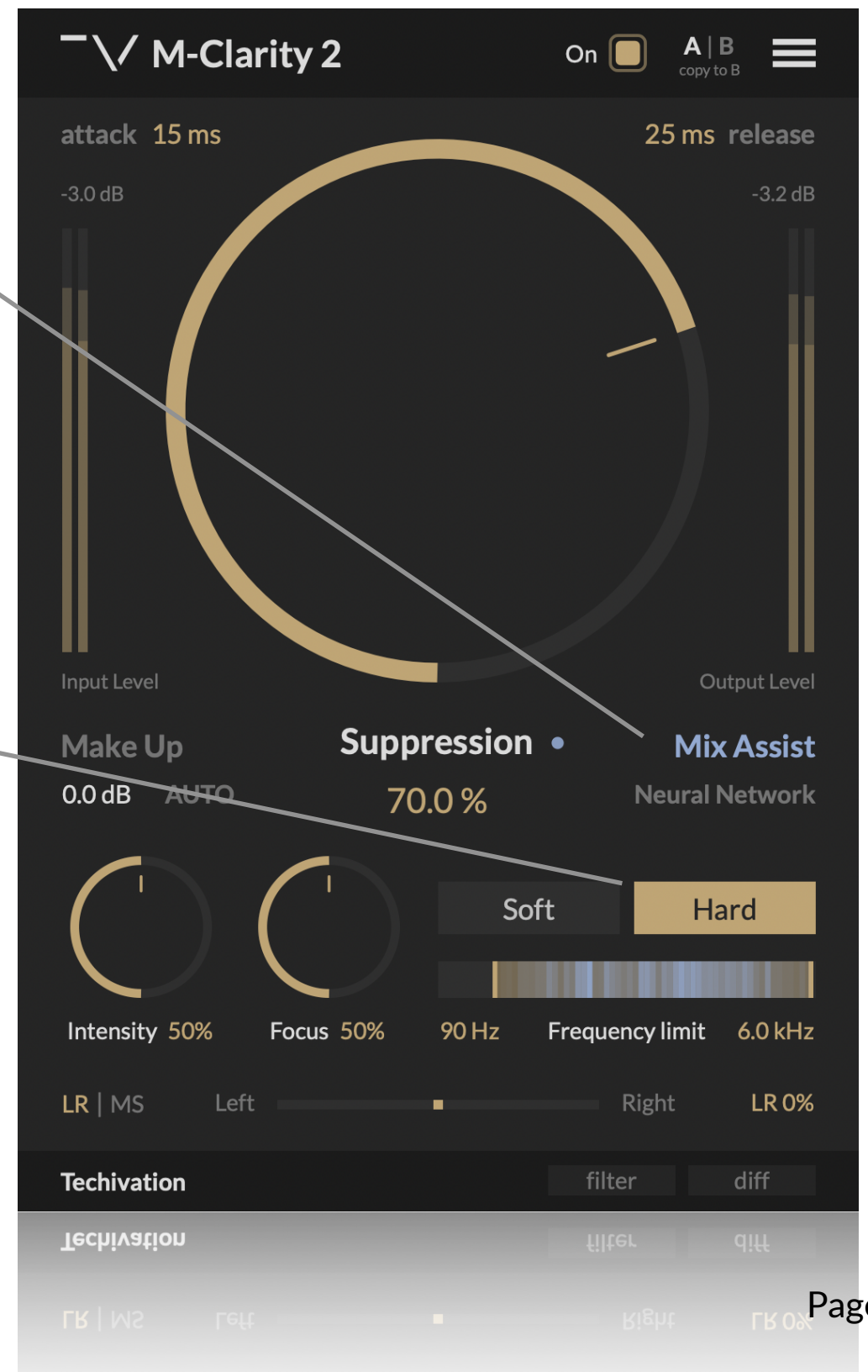
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## Intelligent Mix Assistant

“Mix Assist” button enables the plug-in to capture and analyse the input and intelligently set the processing parameters. M-Clarity 2 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.

## Hard & Soft Modes

“Hard” and “Soft” modes determine how gentle M-Clarity 2 is when spectrally shaping the audio. “Hard” mode results in precise and exact spectral corrections, while “Soft” mode uses spectral smoothing and shallower filter slopes for a more gentle approach.





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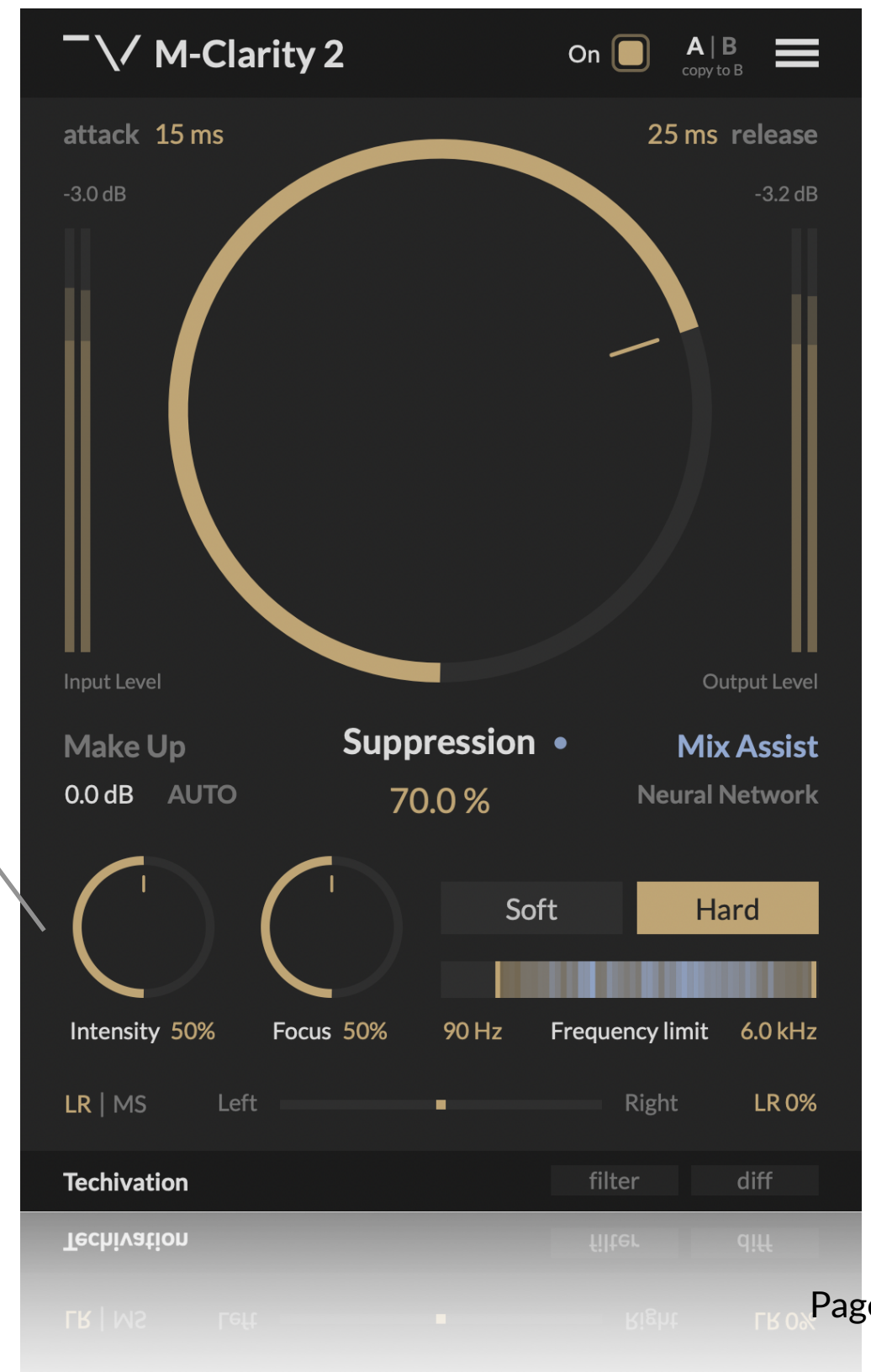
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## Attack & Release

“Attack” and “Release” times determine the dynamic response of M-Clarity 2. “Attack” control delays the onset of spectral suppression, letting the initial transient to pass through unchanged.

“Release” control prolongs the suppression even after the peak that triggered it is gone, giving you a perfect tool to tame ringing and echoing resonances.

Unlike most dynamic processors, you can set both “Attack” and “Release” to 0 ms without any distortion. In fact, this setting will result in the most precise resonance suppression.





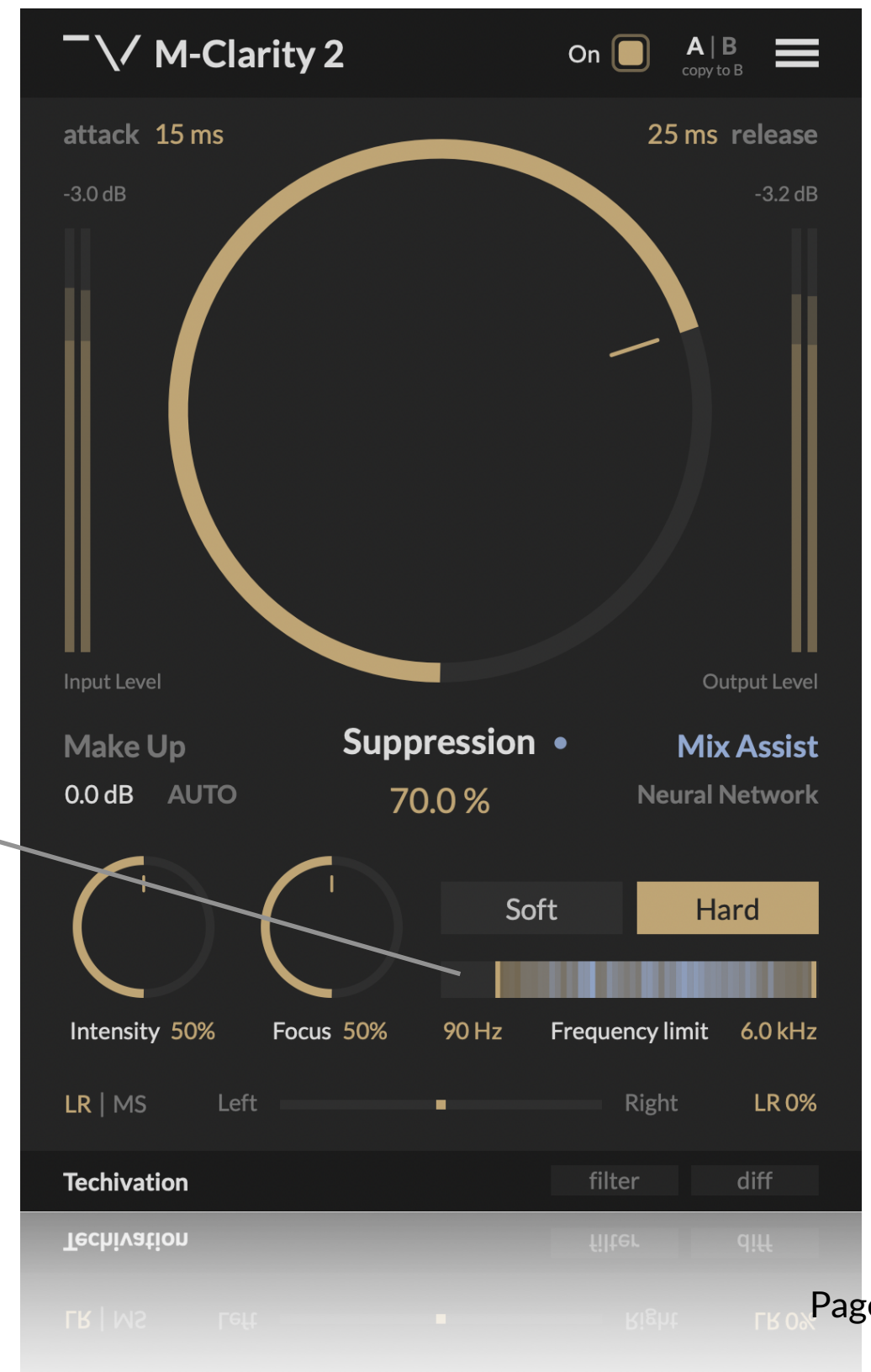
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## Frequency Limit **Part 1**

“Frequency limit” slider gives you control over M-Clarity 2’s adaptive processing range detection. The plugin is constantly analysing the audio and adjusts the processing range to target frequencies that appear too strong. You can choose where M-Clarity 2 is looking for these problematic frequencies by adjusting the “Frequency limit” slider. For example, you might want to exclude low frequencies when processing bass to preserve its low-end power.

Choosing a wider “Frequency limit” range makes sure that M-Clarity 2 can better react to dynamic changes in your track and continuously adjust the targeted range over time.



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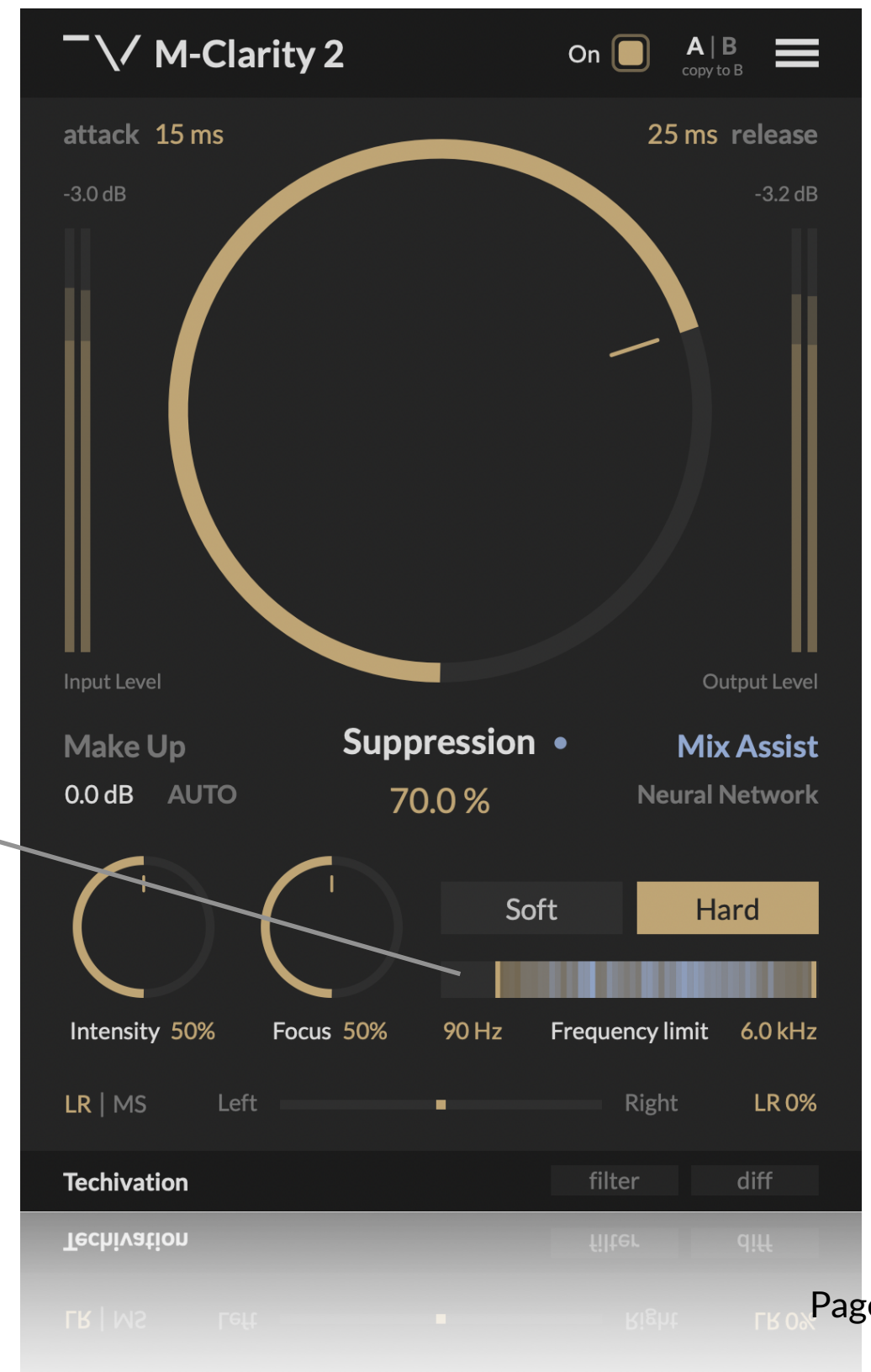
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## Frequency Limit Part 2

But “Frequency limit” slider can also be used to manually pin-point a specific part of the spectrum. When you select a narrow range, M-Clarity 2 dials down the adaptive range filtering and focuses its attention where you want it.

And if you want the fully manual range targeting behaviour of M-Clarity Mk1, the plug-in main menu contains an option to “Disable Adaptive Range” entirely.

The “Frequency limit” slider is also used to visualise the precise spectral adjustments that the plug-in is making in real time. This ensures that you always know exactly what M-Clarity 2 is doing, and can easily adjust its adaptive behaviour to your needs.



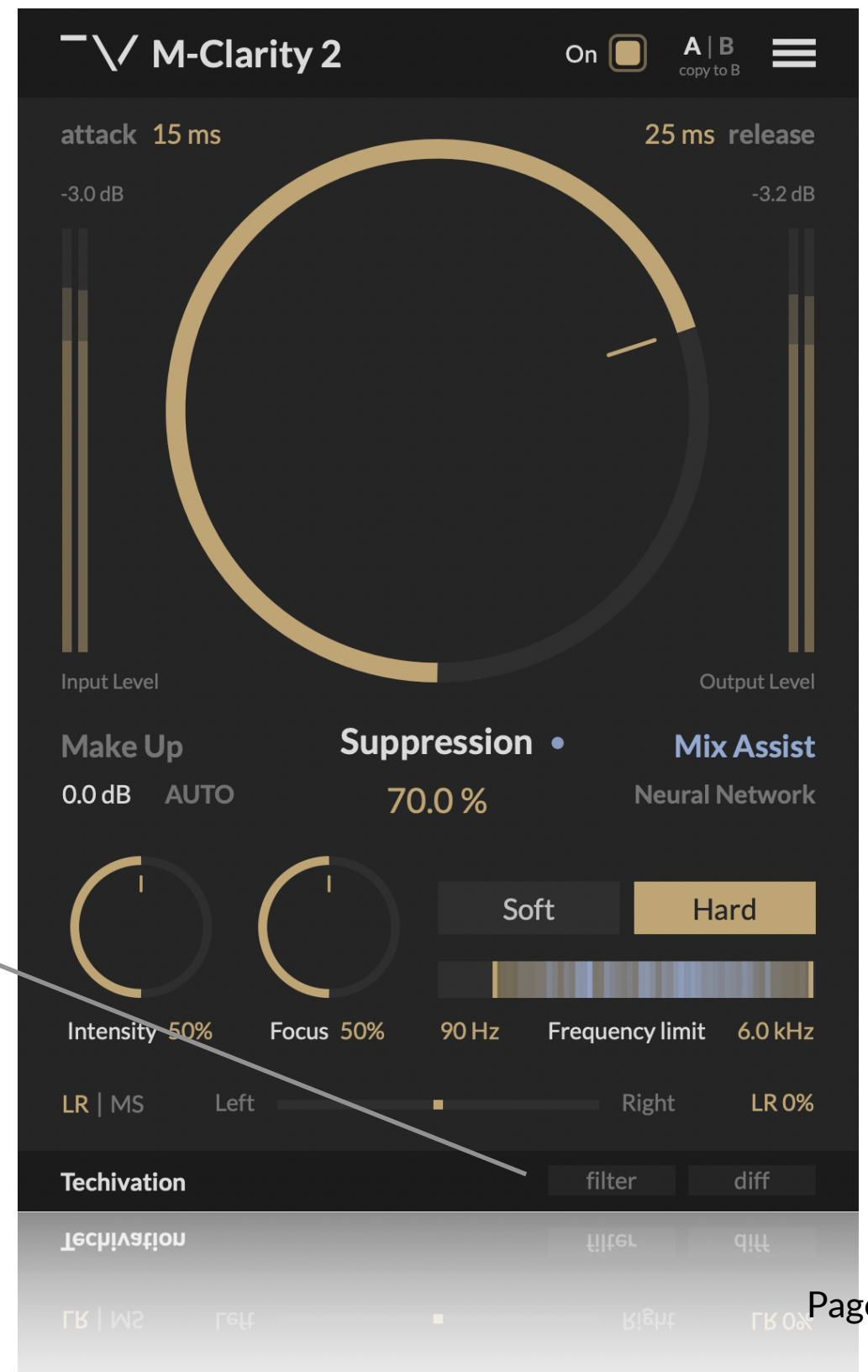
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## Diff & Filter

“Diff” button enables you to listen to the difference between the processed and original signals. This allows you to audibly perceive the spectral corrections made by the plug-in, making it easier to fine-tune its parameters.

“Filter” button lets you listen to the adaptive processing range filter, so you can hear exactly what the plug-in is targeting. When “Filter” button is enabled, the “Frequency limit” slider visualisation also switches to show the adaptive filter shape. So you can simultaneously hear and see how the adaptive filter is adjusting to your track, and control its behaviour using the “Frequency limit” slider.



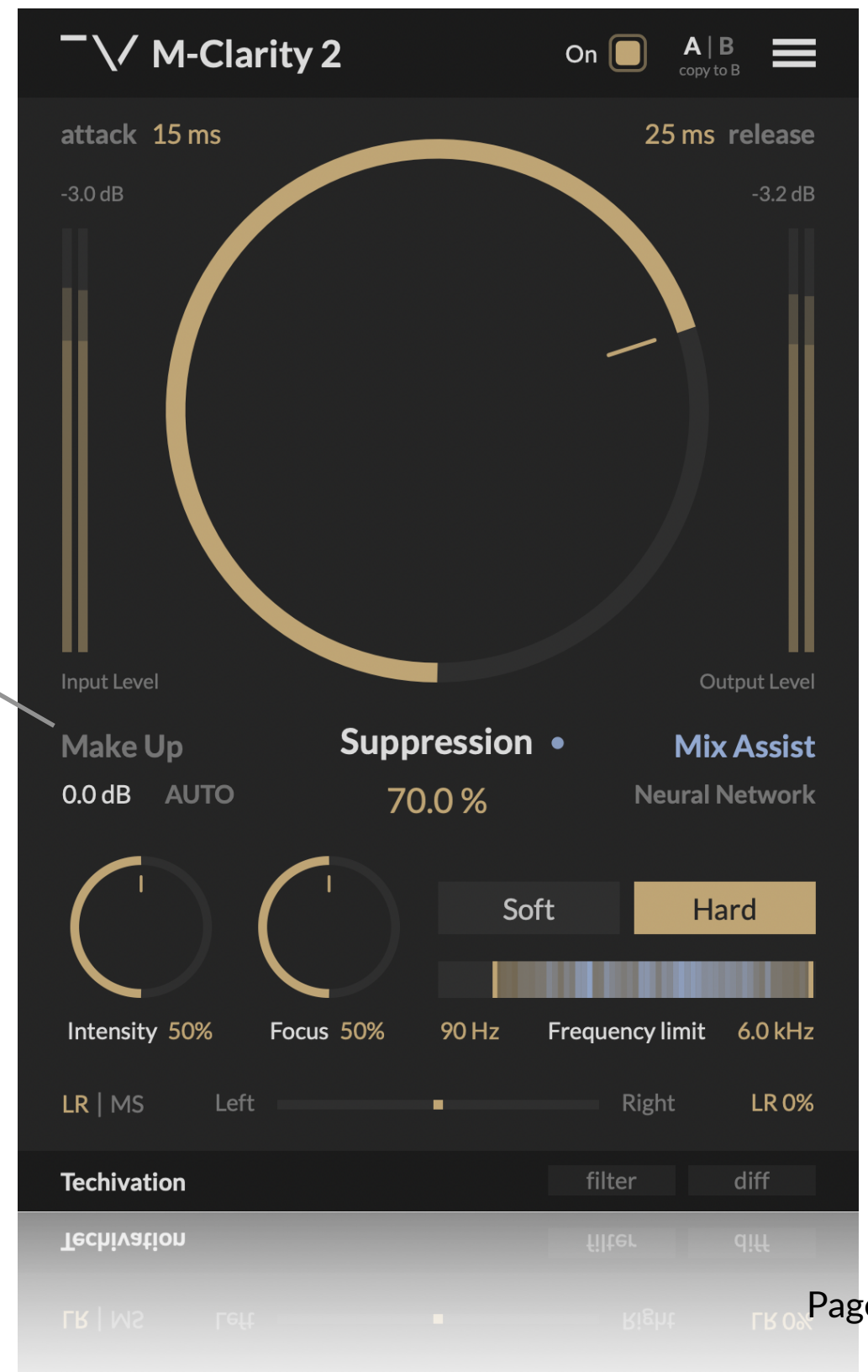
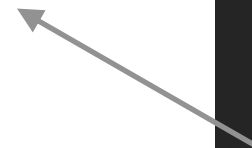
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## Make Up & Auto Gain

“Make Up” controls the amount of clean gain applied to the processed signal.

When you click “AUTO”, the plugin will measure the levels before and after processing, and after a few seconds it will set the “Make Up” parameter to an appropriate value to compensate the difference.





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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 2 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.



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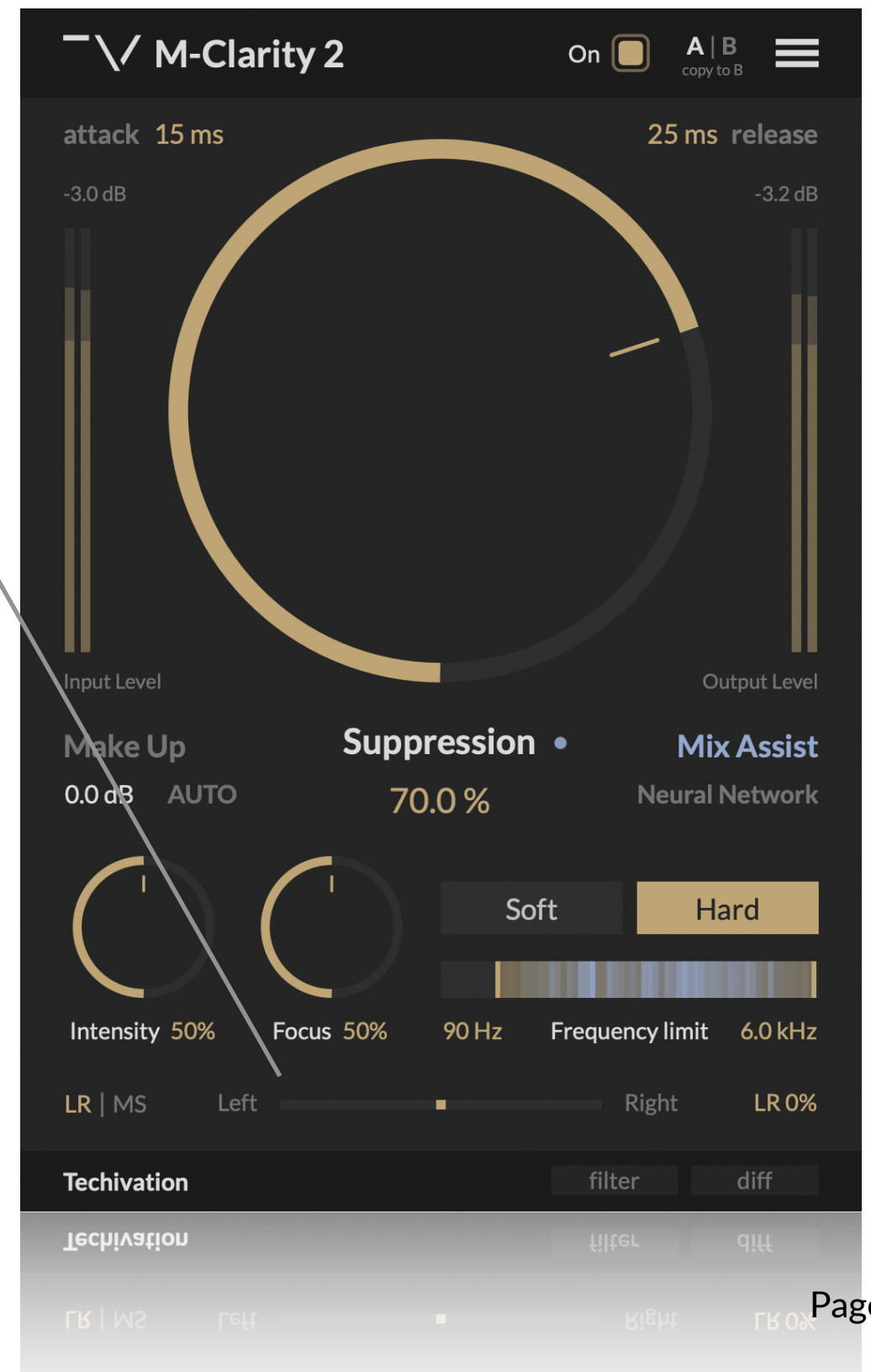
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## Mid-Side and Left & Right

“Left-Right / Mid-Side” section of M-Clarity 2 allows you to switch processing between LR (left & right) and MS (mid-side) modes, and control the balance of the plug-in's effect on the stereo channels.

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. By utilising 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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## 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.

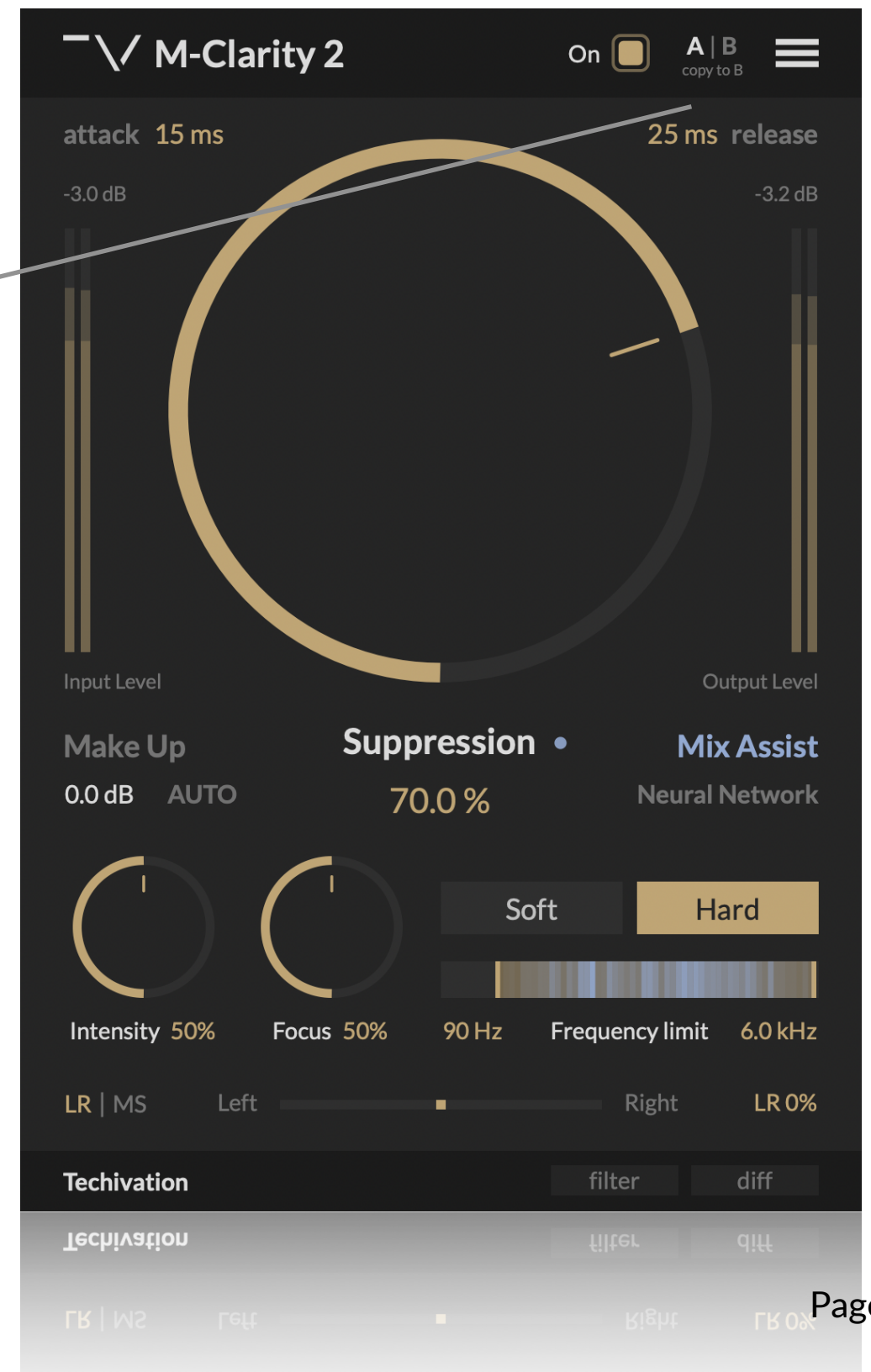
Additionally, by saving your own custom presets, you can easily recall your preferred settings across different projects, ensuring a cohesive and efficient approach to your audio production.

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



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## Undo/Redo

The M-Clarity 2 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 2 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 80% 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 M-Clarity 2 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.





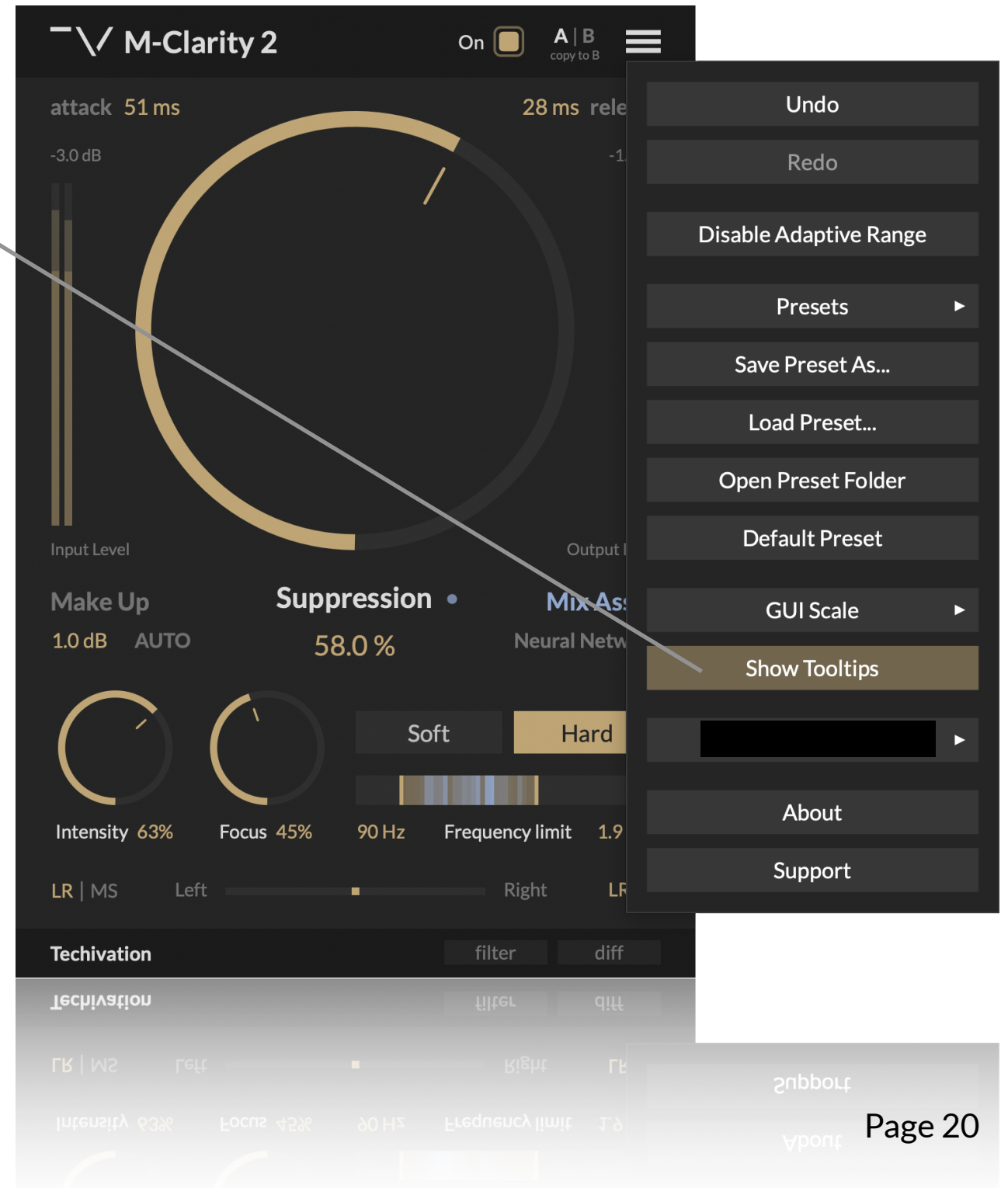
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## Tooltips

M-Clarity 2 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 2 plugin. If you're not sure what a particular control does, simply hover your mouse over it to get a quick and informative tooltip.



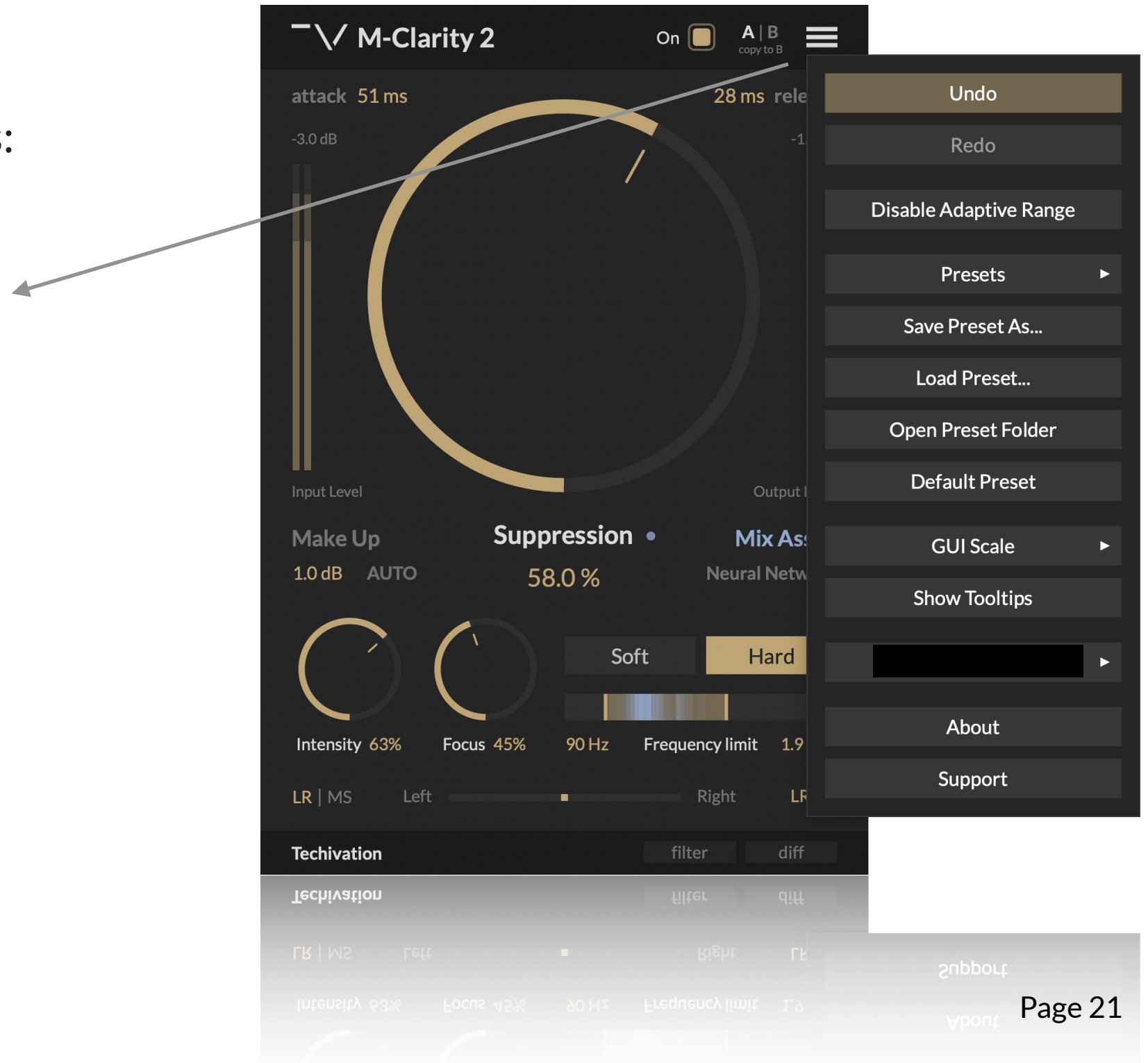
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## Plug-in Menu

A quick menu of useful features:

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



# Techivation M-Clarity 2

## 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. 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 2 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](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

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](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



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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."