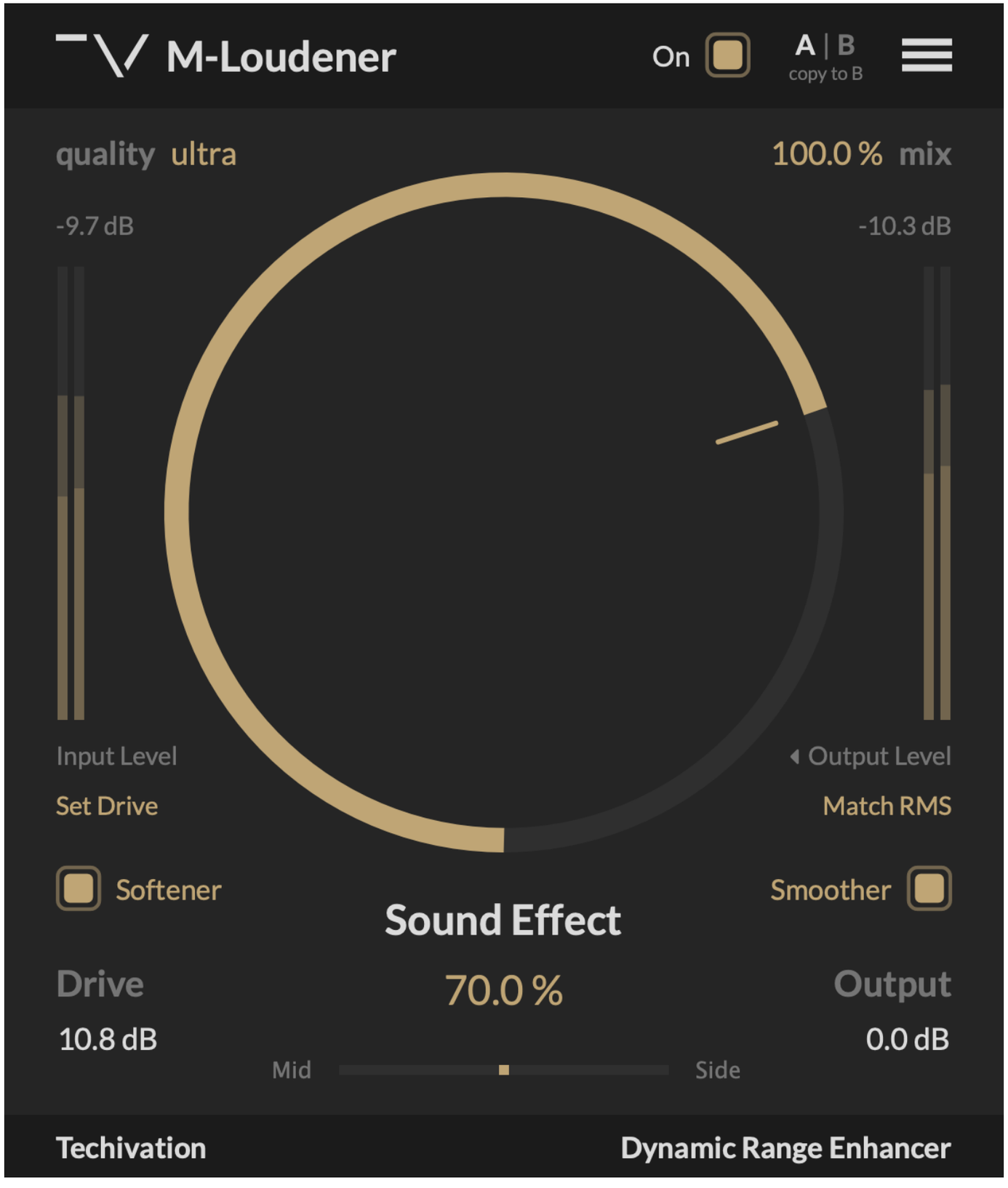
Techivation M-Loudener

User Manual


M-Loudener
On
A | B
copy to B
quality ultra
100.0 % mix
-9.7 dB
-10.3 dB
Input Level
Set Drive
Output Level
Match RMS
Softener
Smoother
Sound Effect
70.0 %
Drive
10.8 dB
Output
0.0 dB
Mid
Side
Techivation
Dynamic Range Enhancer

Techivation M-Loudener

Overview

The Techivation M-Loudener is the first plugin from the Techivation M series. It offers a groundbreaking solution to enhance track loudness without compromising dynamic range and clarity.

One of the key advantages of the M-Loudener is its ability to create more headroom for your tracks. This allows you to add more elements to your mix without the risk of distortion or clipping. This feature makes the M-Loudener a versatile tool for a variety of audio production tasks, including audio mastering, buss processing, and individual track mixing. M-Loudener also helps with adding extra punchiness, weight, and thickness to the sound.

The M-Loudener also features a modern user interface that is intuitive and user-friendly. The minimalist design makes it easy to navigate and use, even for those new to audio production. The interface provides quick access to all the tools and features you need to achieve the desired sound for your music.


Drums
Untitled
Compare
Copy
Paste
Undo
Redo
View: Editor
M-Loudener
On
A | B
copy to B
quality good
100.0 % mix
-2.9 dB
-1.3 dB
Input Level
Softener
Drive
0.0 dB
Techivation
Sound Effect
50.0 %
Mid
Side
Smoother
Output Level
Output
0.0 dB
M-Loudener
Dynamic Range Enhancer

Techivation M-Loudener

Features

- Sound Effect Control
- Drive Control
- Softener Mode
- Smoother Mode
- Oversampling up to 8X
- Input-Output Meters
- Mid-Side Control
- Dry-Wet Mix
- Presets
- Internal On-Off Switch
- Difference Meter
- ‘Match RMS’ Option
- ‘Set Drive’ Option
- A/B Switch
- Undo-Redo Options
- Scaleable Graphic User Interface (GUI)
- Internal Menu
- Show/Hide Tooltips
- Stereo and Mono

Quick User Guides

Sound Effect: This effect can add extra thickness, punchiness, or weight to the sound.

Drive: Increasing this will give the track more headroom and more dynamic range.
*__Note__: Too much Drive = Distortion “By applying it gently, you can create more headroom for your track while maintaining transparency.”

Softener & **Smoother**: Can make the plug-in’s effect more transparent, and subtle.

*__Note__: If both selected = even more subtle!

Input & **Output** peak meters: Helps compare the input & output peak levels.

Difference Meter: When selected, you will see how much extra or less RMS level you get after apply the plug-in effect to your sound.

Mid-Side: Pushing to side will make your track sound wider and more stereo while pushing to mid will make the track sound more narrow but punchier.

Quality: Oversampling up to 8X

Output: You can adjust the 'Output' control to increase or decrease the volume of your track after finding the sweet spot with the 'Sound Effect' control. This gives you flexibility in fine-tuning the loudness of your music.

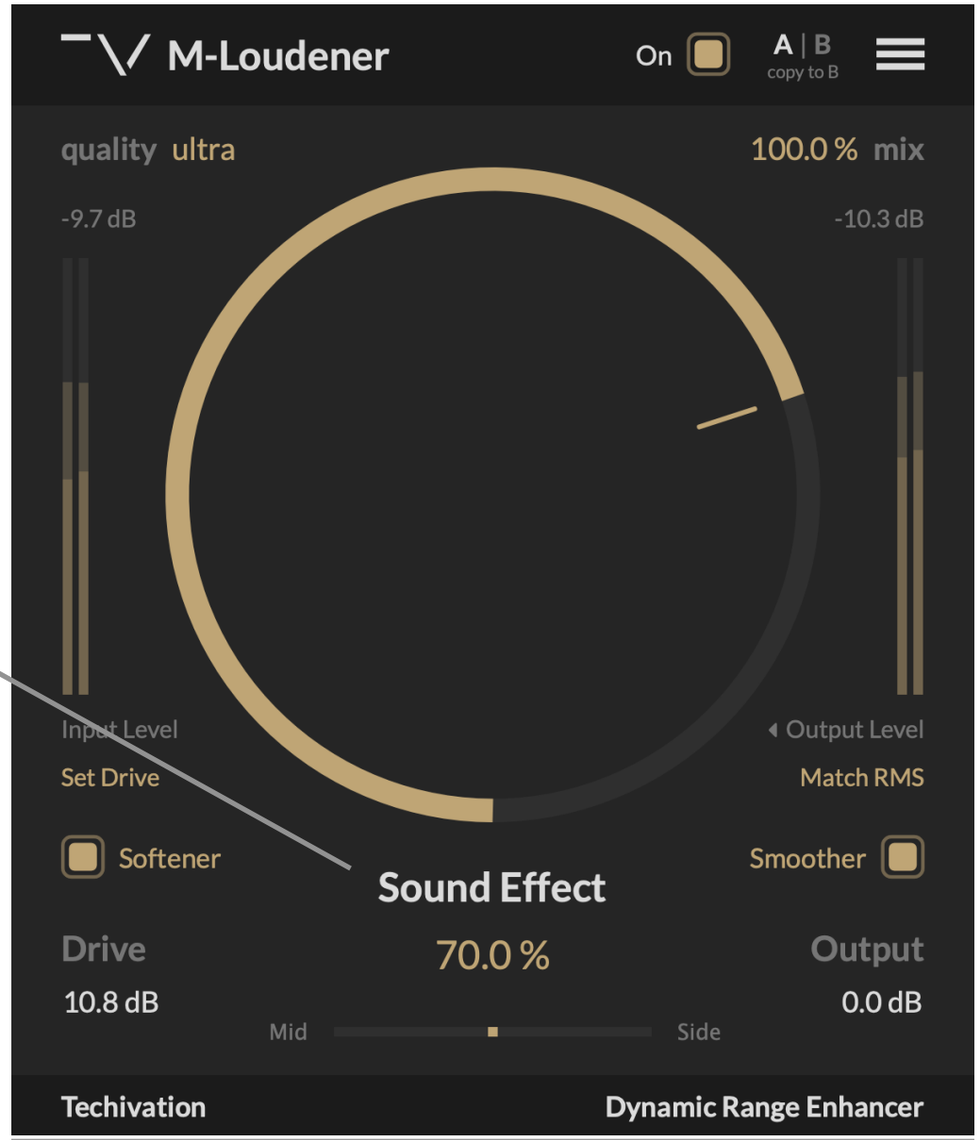
Techivation M-Loudener

Features

Sound Effect

The 'Sound Effect' parameter is an essential tool for shaping the character and tonal qualities of your audio signal. It manages the specific type of harmonics generated by the M-Loudener, allowing you to add extra thickness, punchiness, or weight to your sound. By manipulating this control, you can influence the texture and feel of your music, opening up a world of sonic possibilities and creative exploration that can adapt to various musical contexts.

It's worth noting that applying the 'Sound Effect' may result in a slight reduction in headroom. To counteract this, the 'Drive' control is present to help support your track with extra headroom by controlling the intensity of the harmonics generated by the plugin. This feature ensures that your mix remains engaging and dynamic while also allowing you to fine-tune the loudness and tonal qualities of your music with ease



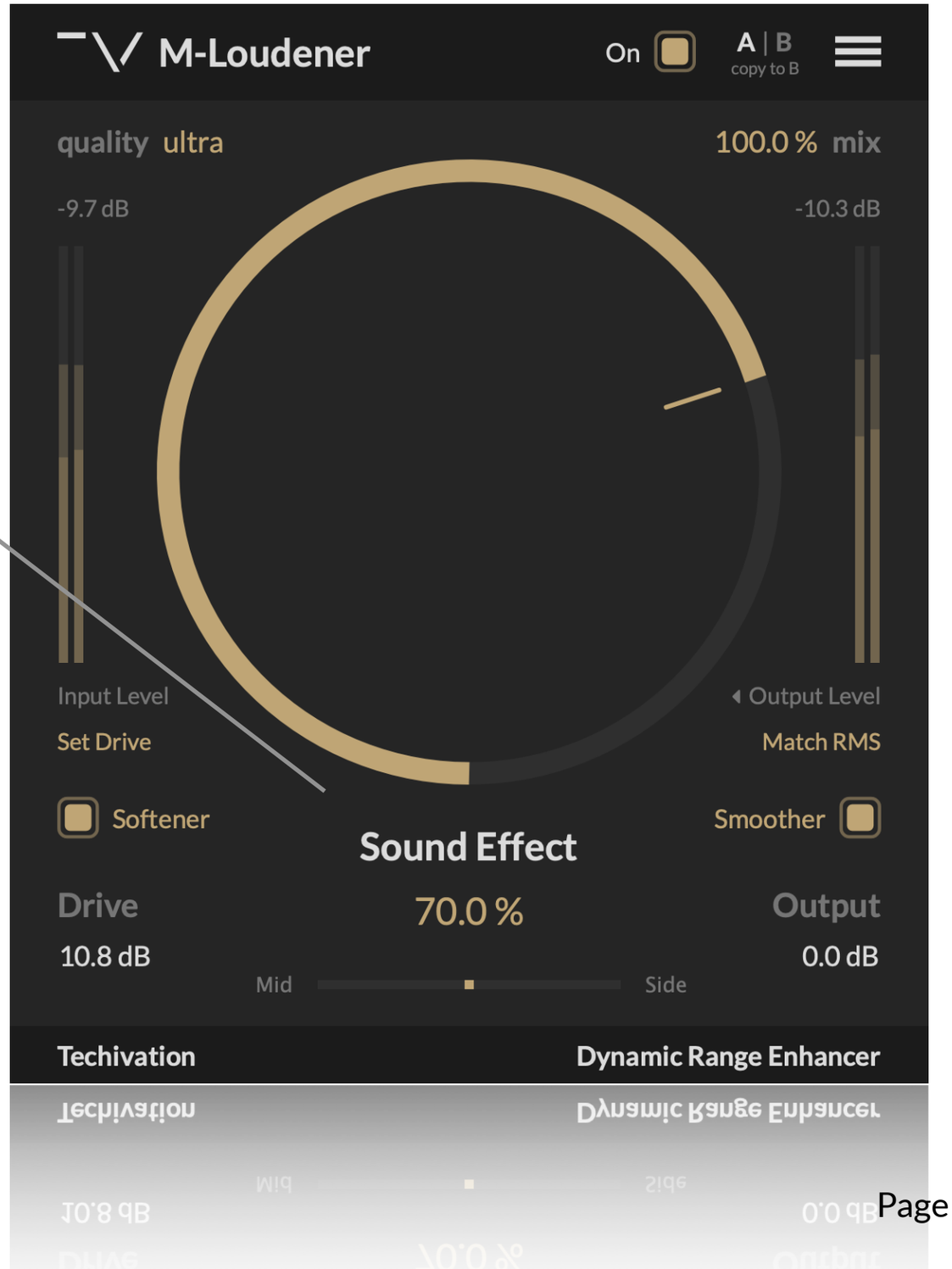
Techivation M-Loudener

Features

Sound Effect

Quick tips:

- Double clicking on the Sound Effect knob will take it back its default value. (70%)
- 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.




V1210
JAMSTANDS

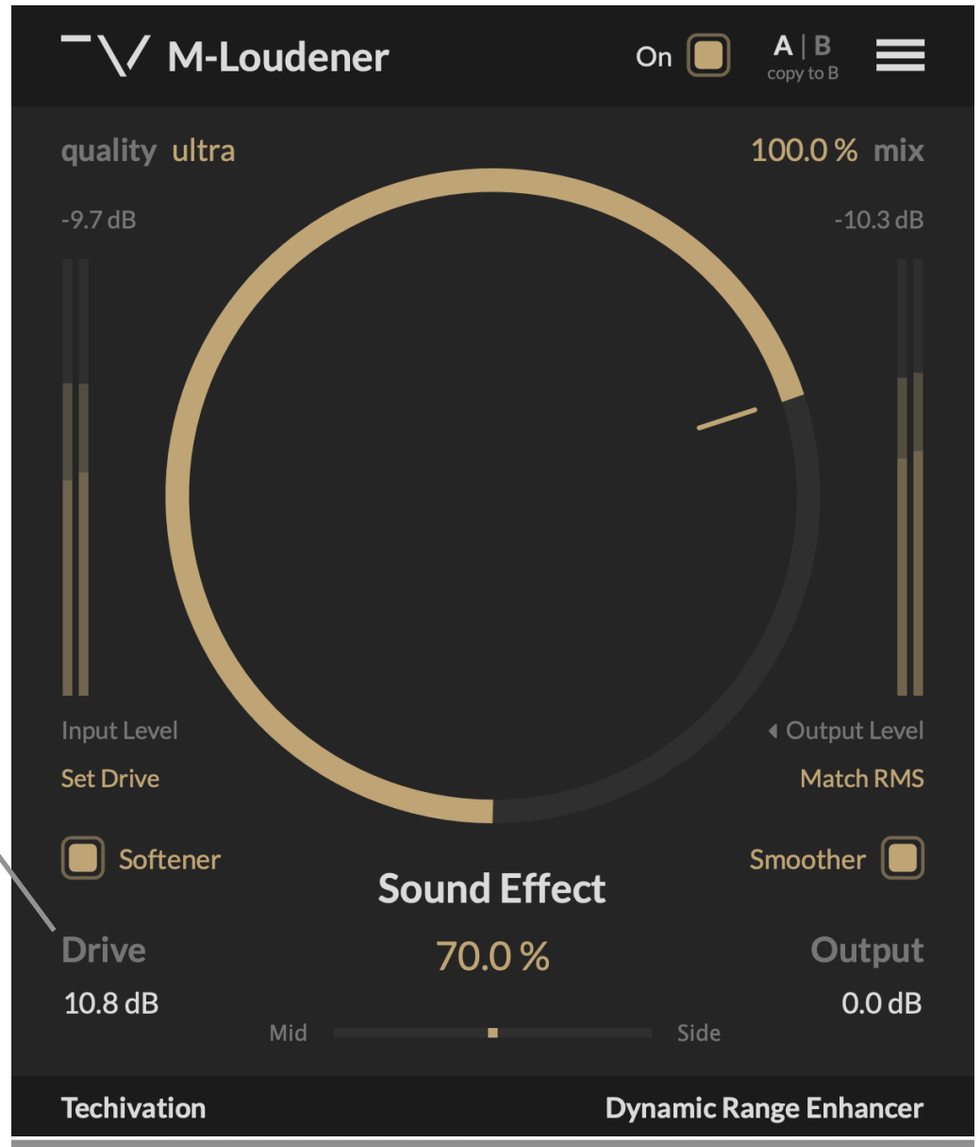
Techivation M-Loudener

Drive

The 'Drive' control adjusts the strength of the harmonics created by the plug-in, making it easy for you to tweak the harmonic content in your audio. By using this feature, you can add a little or a lot of harmonics to improve your mix, depending on your kind of sound, and musical taste.

The more you increase the 'Drive', the more headroom you can create for your tracks. This helps you boost your tracks' loudness while maintaining extra headroom and dynamic range.

Using the 'Drive' control can help to enhance the depth and character of the audio, giving it a more distinctive and engaging quality.



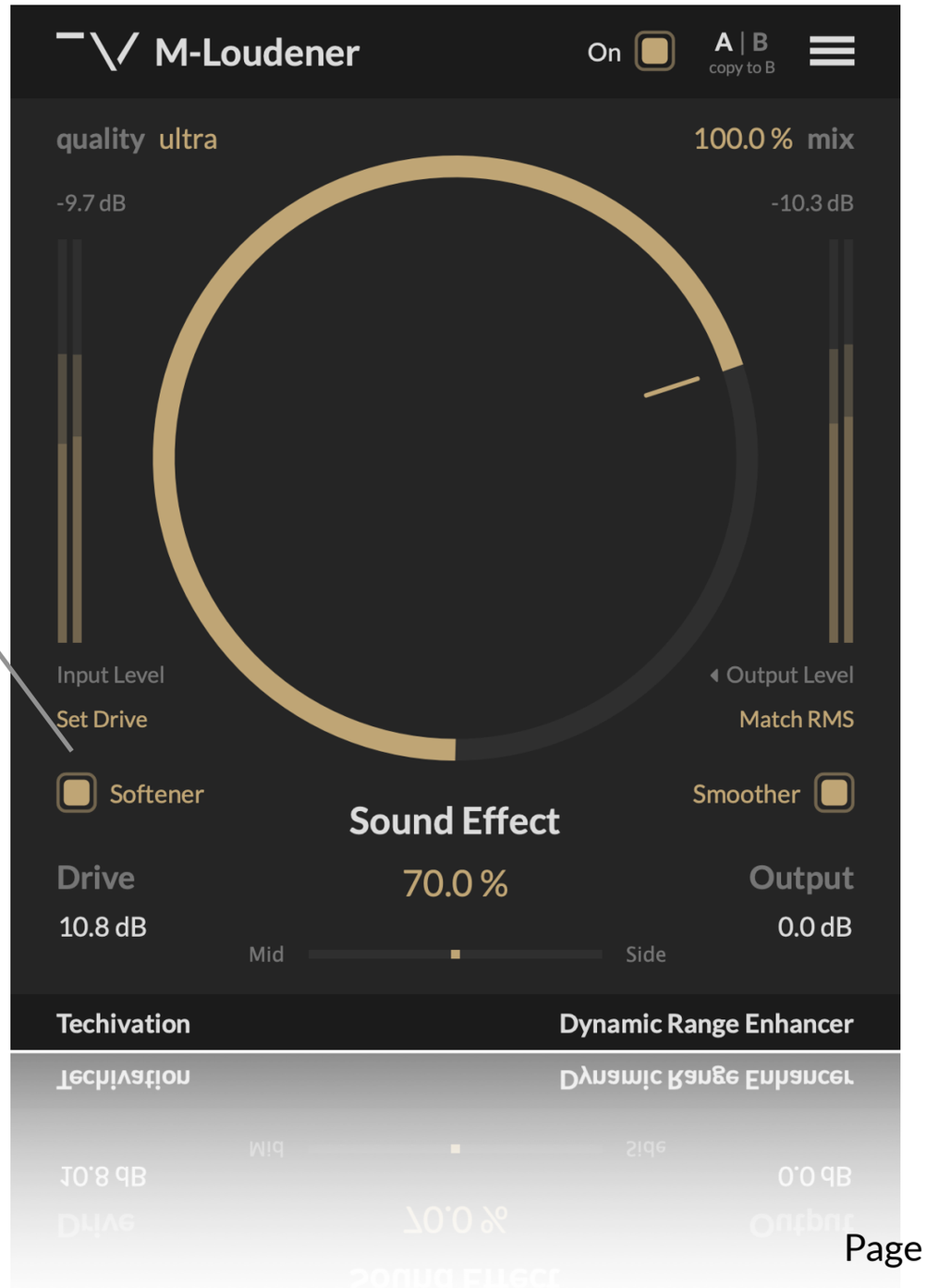
Techivation M-Loudener

Features

Softener Mode

The 'Softener' button is a useful feature that can make the M-Loudener's effect more gentle and subtle. This is particularly helpful when working with bass sounds, low-end heavy mixes, or when you want to smooth out transients slightly without compromising the overall impact of the sound.

Enabling the 'Softener' button can help prevent distortion or clipping that can occur when using the M-Loudener on certain types of audio. By reducing the intensity of the effect, this feature allows you to create a more balanced and natural sound that retains the original character of your music. Overall, the 'Softener' button is a versatile tool that can help you achieve a more polished and refined sound for your tracks. Whether you're working on a bass-heavy mix or looking to add a subtle touch to your music, the 'Softener' button can provide the flexibility and control you need to achieve the desired effect



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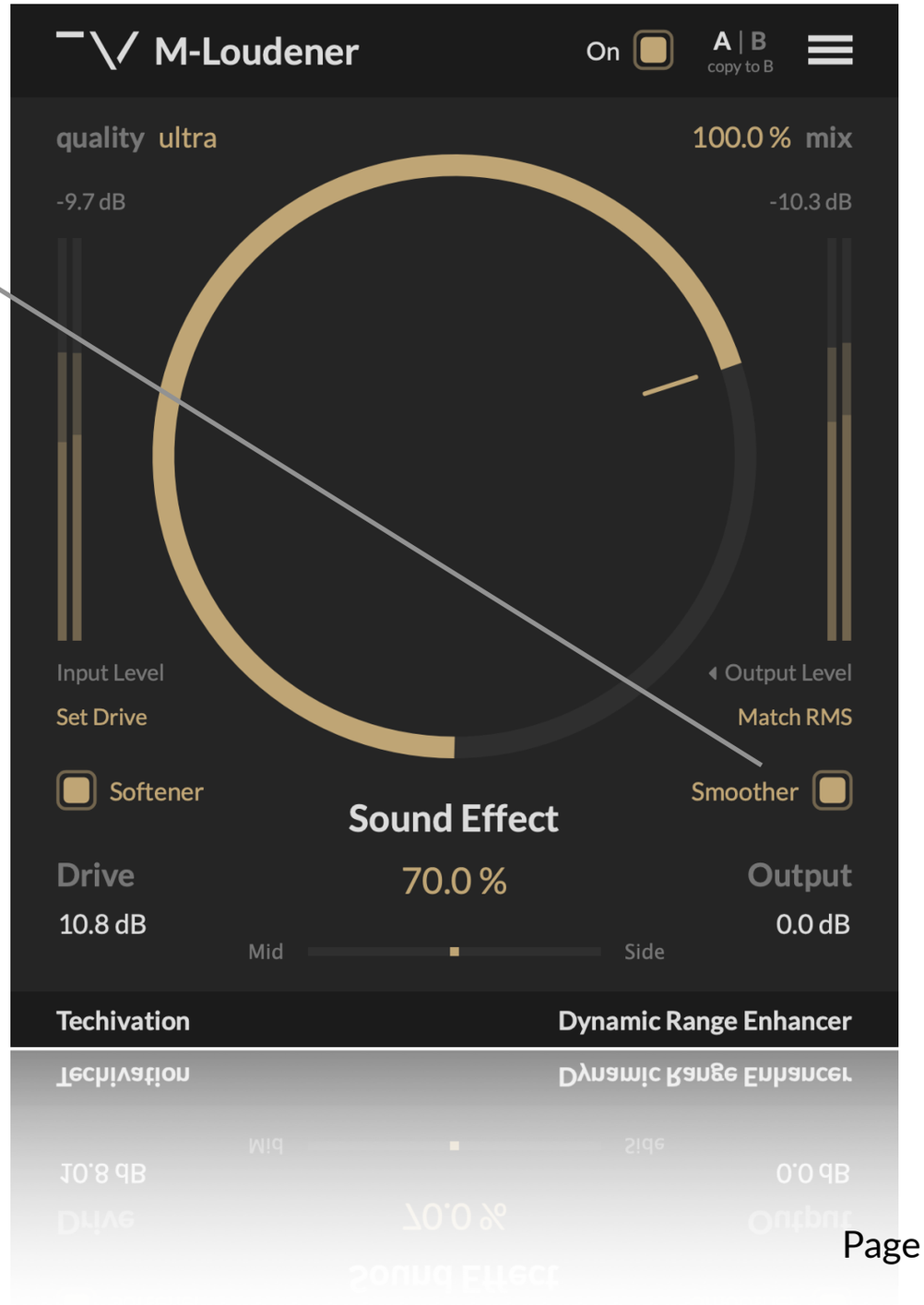
Features

Smoother Mode

The 'Smoother' button is another valuable feature of the M-Loudener that can help refine the audio by reducing the effect's intensity on transient sounds.

Enabling both the 'Softener' and 'Smoother' modes together can create an even more subtle and natural effect, allowing for greater control and precision over the final sound. The 'Softener' mode makes the M-Loudener's effect more gentle and subtle, while the 'Smoother' mode further refines the audio by reducing the M-Loudener's effect on transient sounds.

You can use these modes to fine-tune your audio and achieve a unique sound that fits your genre, style, or personal preference



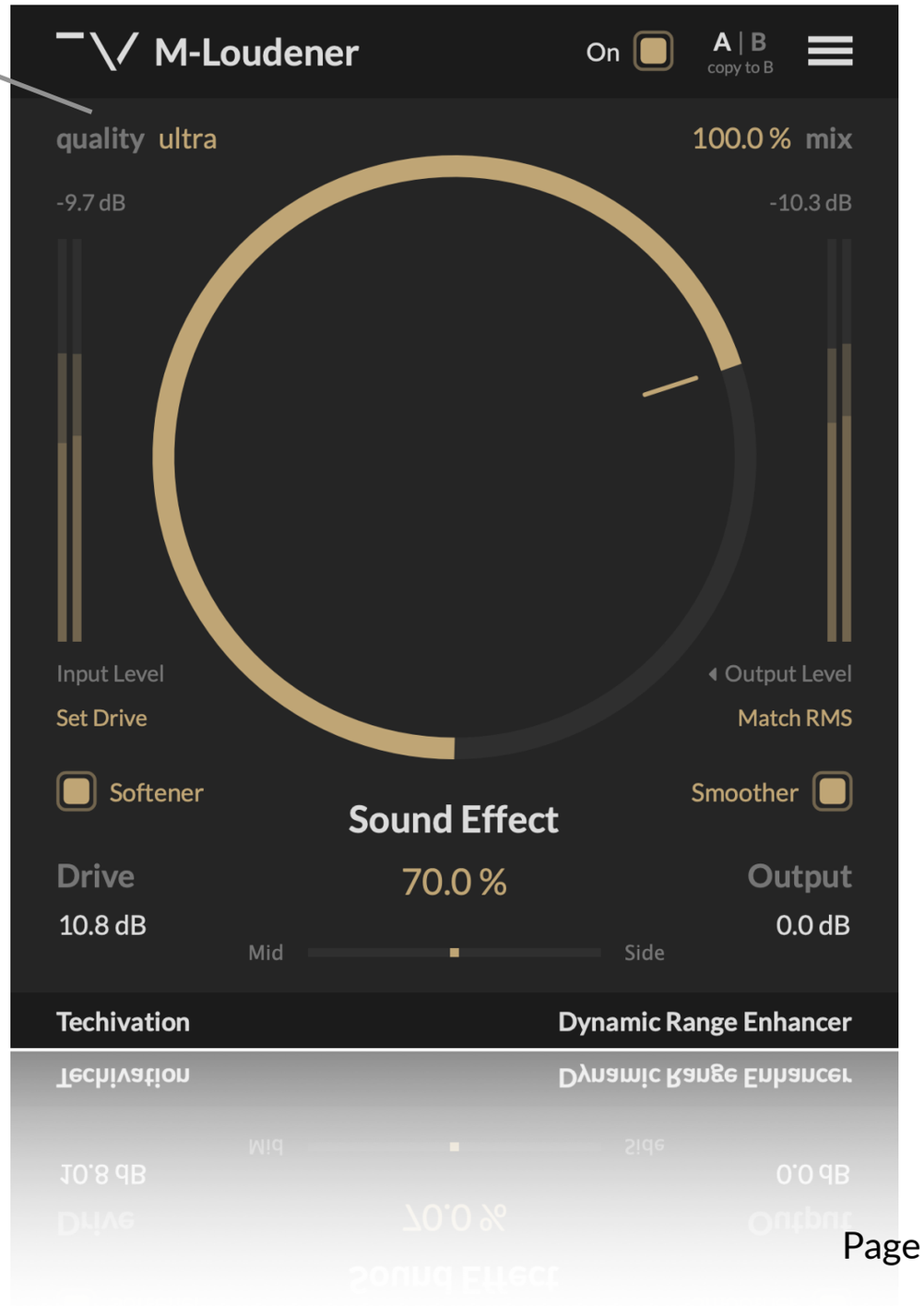
Techivation M-Loudener

Features

Oversampling up to 8X

Oversampling in M-Loudener effectively reduces aliasing by internally processing audio at a higher sample rate than the host application, with the capability to reach up to 8 times the original sample rate. This advanced feature, located in the 'Quality' section of the graphical user interface (GUI), offers users the flexibility to choose from three distinct settings to achieve the desired level of audio quality: 'Good' (2X), 'Great' (4X), or 'Ultra' (8X).

By utilizing oversampling, M-Loudener ensures that the digital audio processing remains highly accurate and artifact-free, thereby preserving the integrity of the original sound. As the oversampling factor increases, so does the precision of the processing, which results in a more faithful reproduction of the audio signal with reduced aliasing and improved overall sound quality.

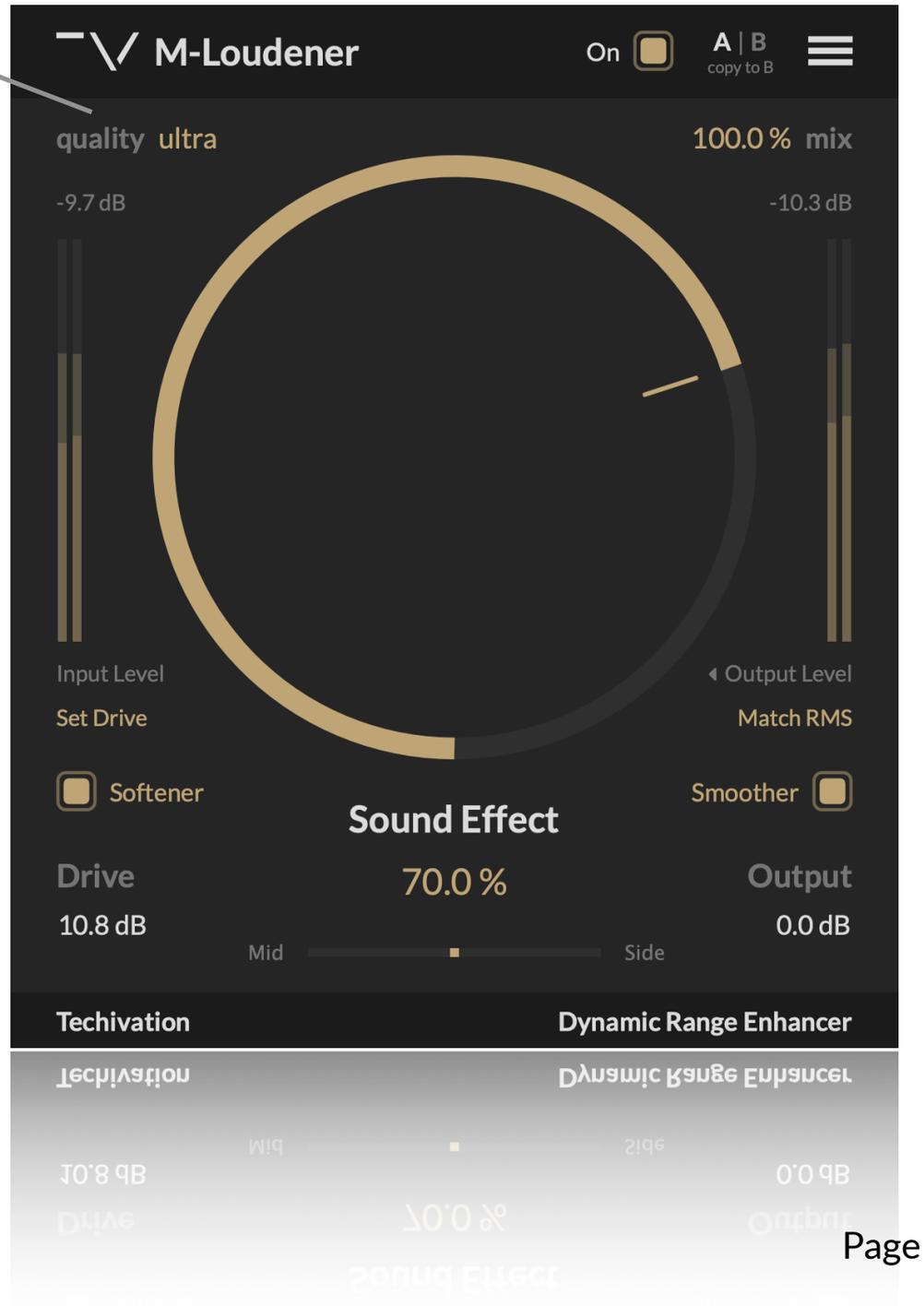


Techivation M-Loudener

Features

Oversampling up to 8X

Users can select the optimal oversampling setting based on their individual needs and system capabilities, balancing the trade-off between processing power and audio quality. While higher oversampling rates yield better results, they also require more processing resources. Consequently, the choice of oversampling rate should be made with consideration for the available computational power of the user's system to ensure efficient operation and optimal performance.

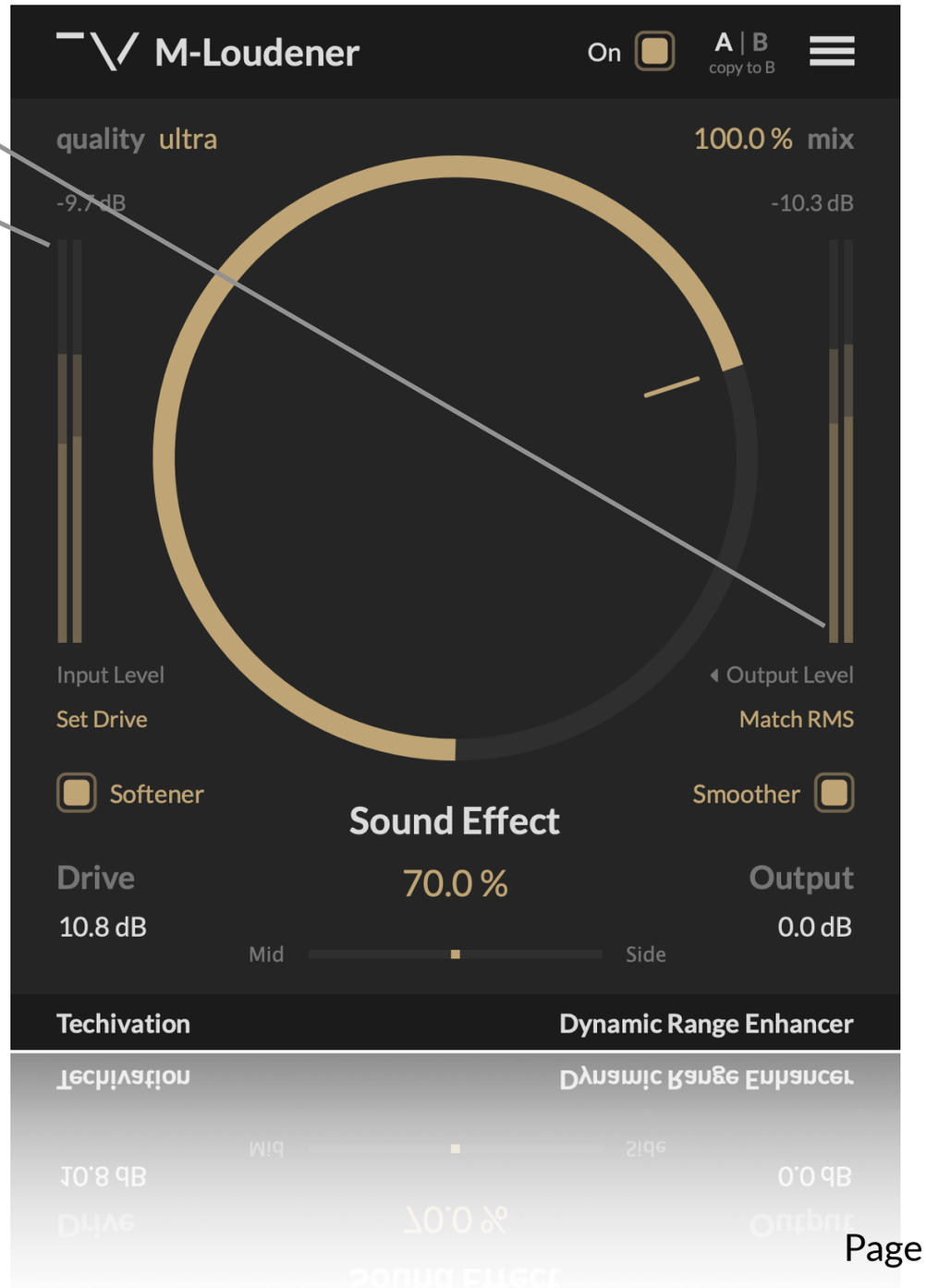



M-Loudener
quality good
100.0 % mix
Input Level
Output Level
Softener
Smoother
Sound Effect
70.0 %
Drive
0.0 dB
Output
0.0 dB
Mid
Side
Dynamic Range Enhancer
ADAM AUDIO
KRK
ROKIT 5
Focusrite ISA One
PRO MPA II
UNIVERSAL AUDIO

Techivation M-Loudener

Features

Input-Output Meters



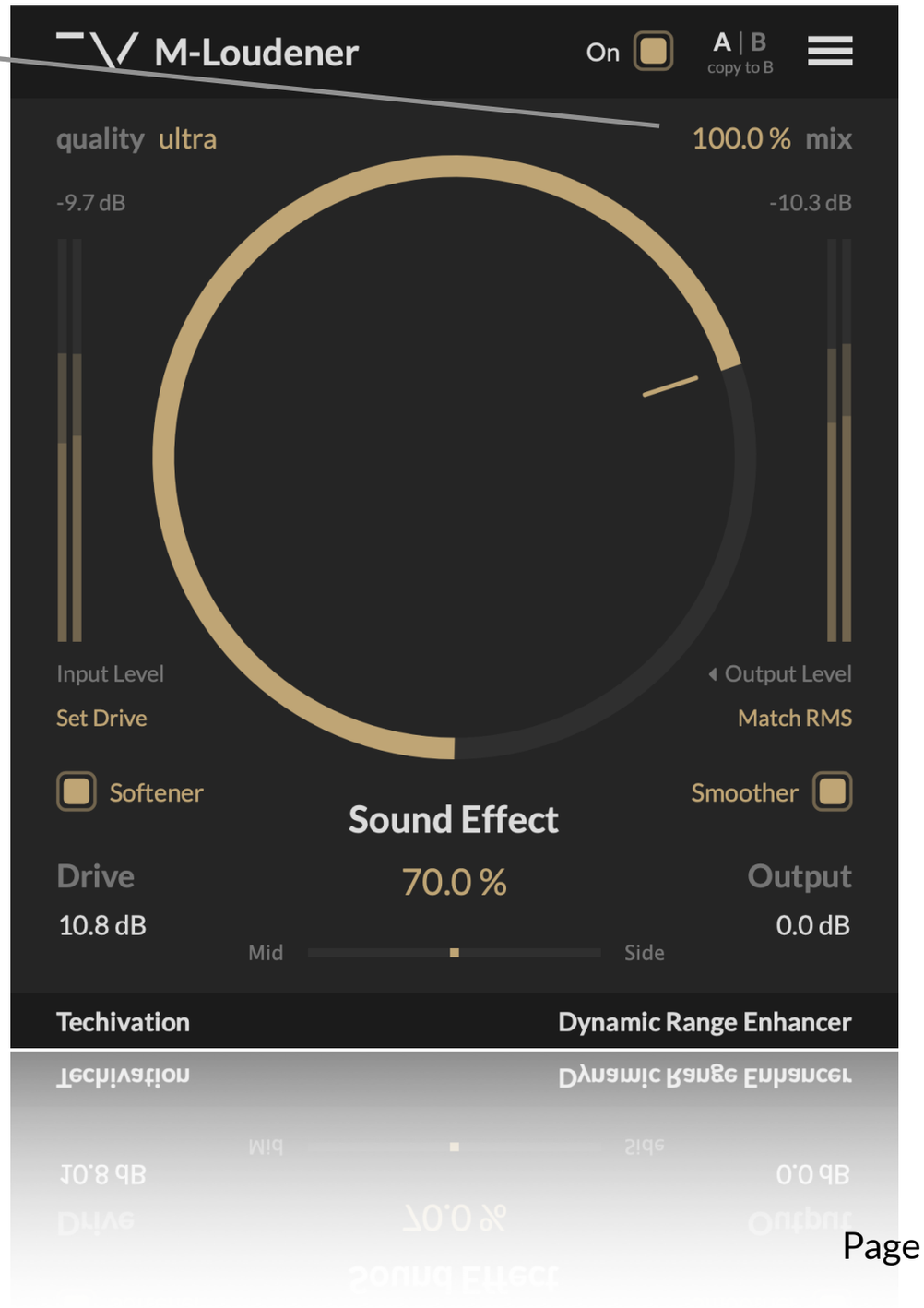
The plug-in features input and output peak meters that provide a visual representation of the available headroom, allowing for better control over the dynamic range. These meters offer a clear indication of the headroom present in both the input and output stages, ensuring that you can effectively manage and maintain the desired balance between loudness and dynamic range throughout the audio processing.

The labels above the meter bars indicate the peak level in decibels (dB). The darker colored moving bar displays the peak level, representing the maximum amplitude of the audio signal at any given moment. Meanwhile, the lighter colored bar visually represents the Root Mean Square (RMS) level, which provides an average measurement of the audio signal's power or loudness over time. These two bars work together to offer a comprehensive view of the audio's dynamic characteristics, helping you make informed decisions when adjusting your mix.

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Dry-Wet Mix

The 'Mix' control allows you to adjust the balance between the input and output signals, making it an ideal tool for parallel processing. With a range from 0% (effectively bypassing the plug-in) to 100% (full application of the plug-in effect), this versatile option lets you fine-tune the blend to achieve the desired sonic characteristics. By default, the 'Mix' control is set to 100%, and double-clicking on it will quickly reset it to this default value, providing a convenient way to return to the fully processed sound.



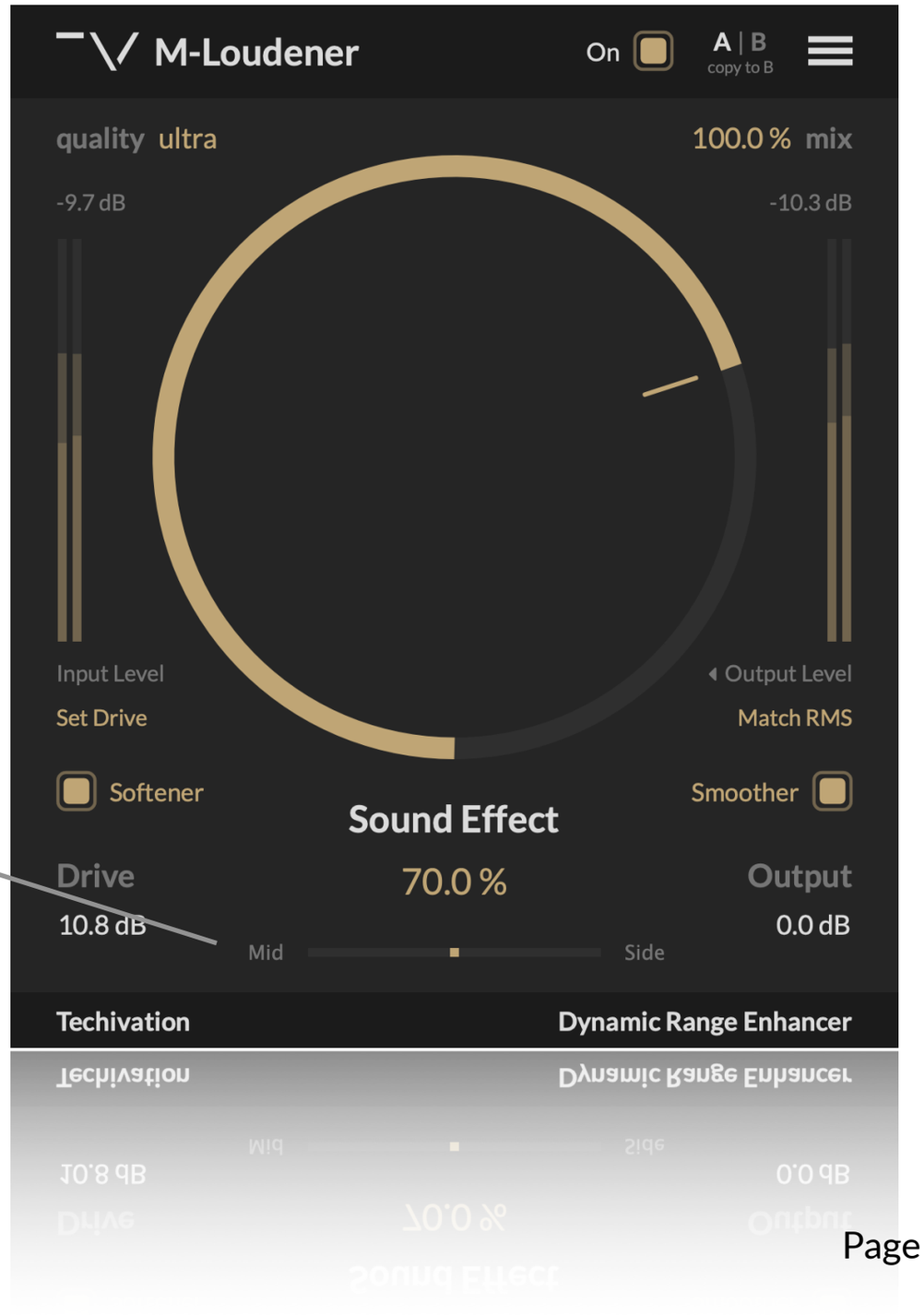
Techivation M-Loudener

Features

Mid-Side Control

The 'Mid/Side' control allows you to fine-tune the balance of the effect applied to the mid and side frequencies of your audio. By adjusting this parameter, you can enhance the punchiness, width, and stereo image of a track according to your preferences. This control provides a powerful way to sculpt the spatial qualities of your mix, creating a more immersive and engaging listening experience that highlights both the central elements and the wide stereo field.

By adjusting the 'Mid/Side' control, you can selectively apply this loudness enhancement to the mid and side frequencies, further optimizing the punchiness, width, and stereo image of your mix.

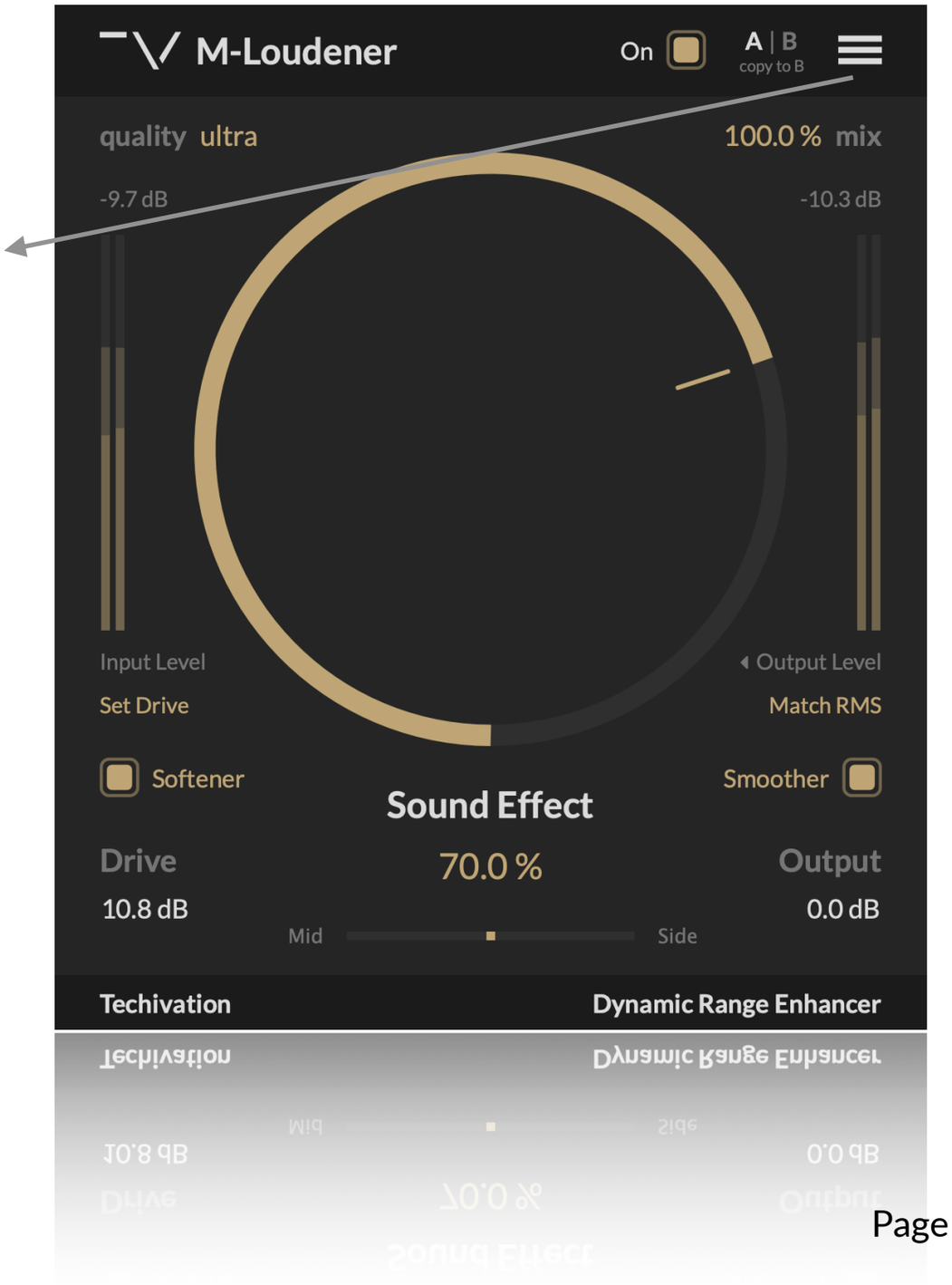


Techivation M-Loudener

Features

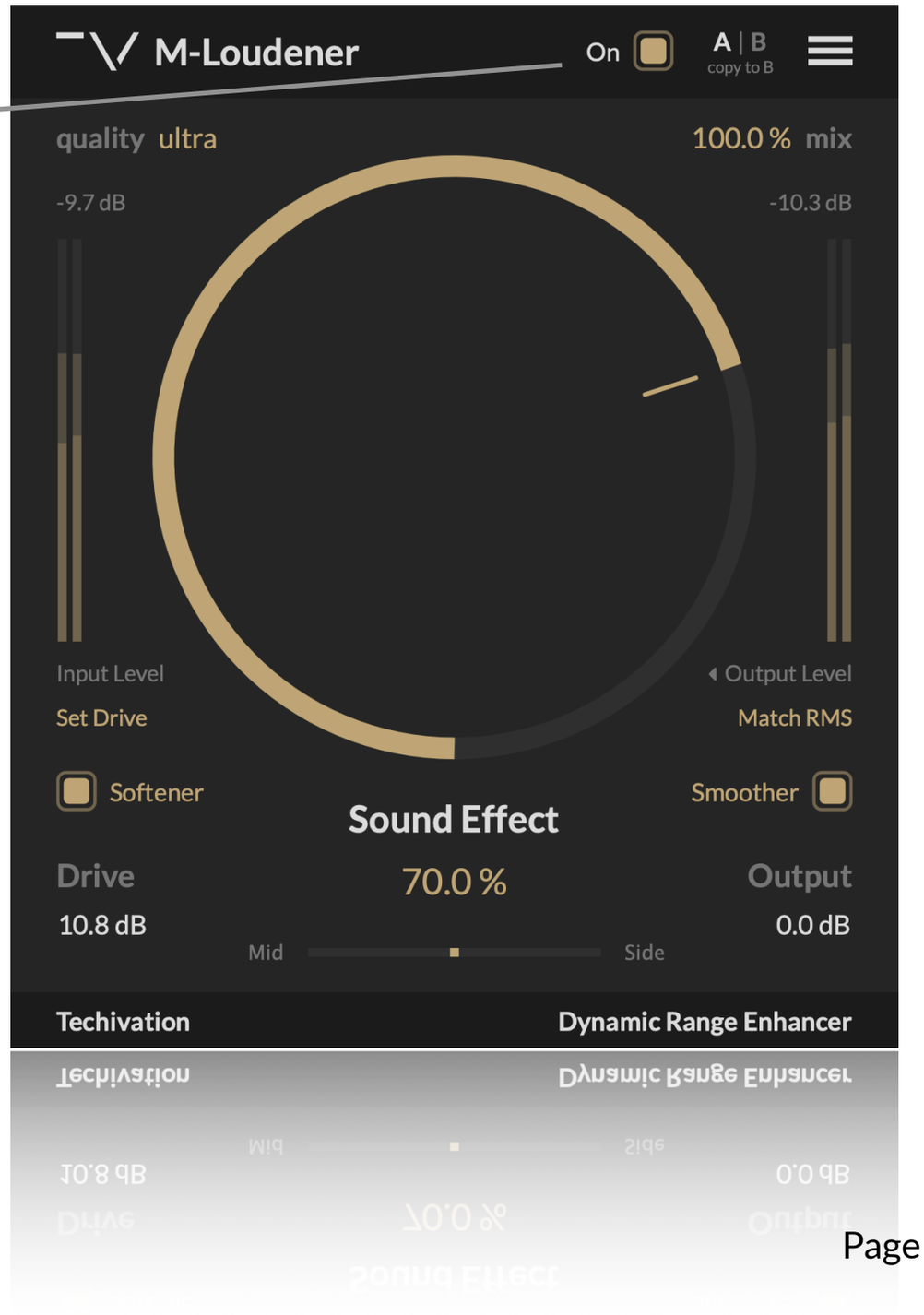
Presets

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 artifacts 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.

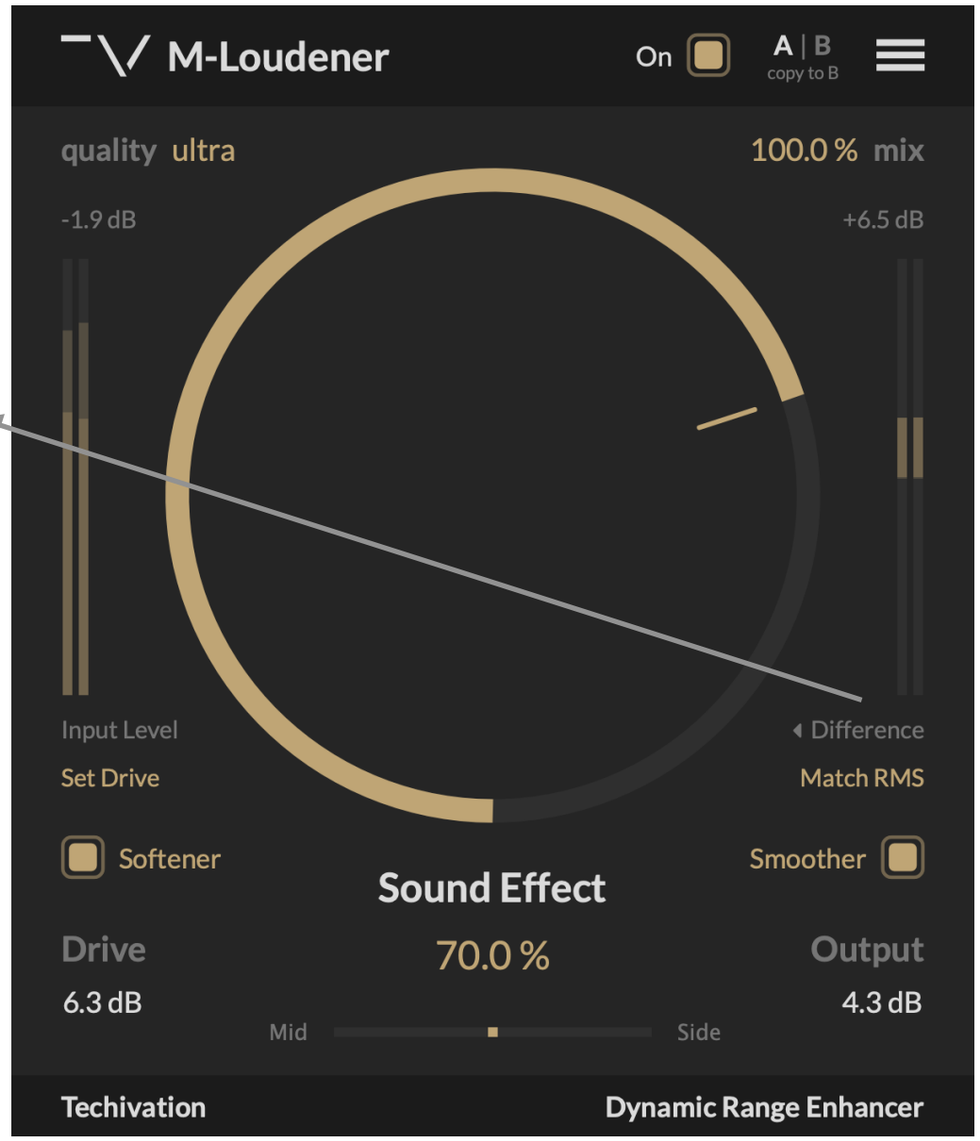
In addition to its primary function, the bypass/on control can also be particularly useful when working with automation processes within your DAW. By automating the bypass/on control, you can enable or disable the plug-in effect at specific points in your mix, allowing for dynamic and creative changes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

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Difference Meter

On the right-hand side of the interface, you will find two options for monitoring the audio signal: the 'Output' and 'Difference' meters. The 'Difference' meter displays the change in RMS levels between the input and output of the plugin.

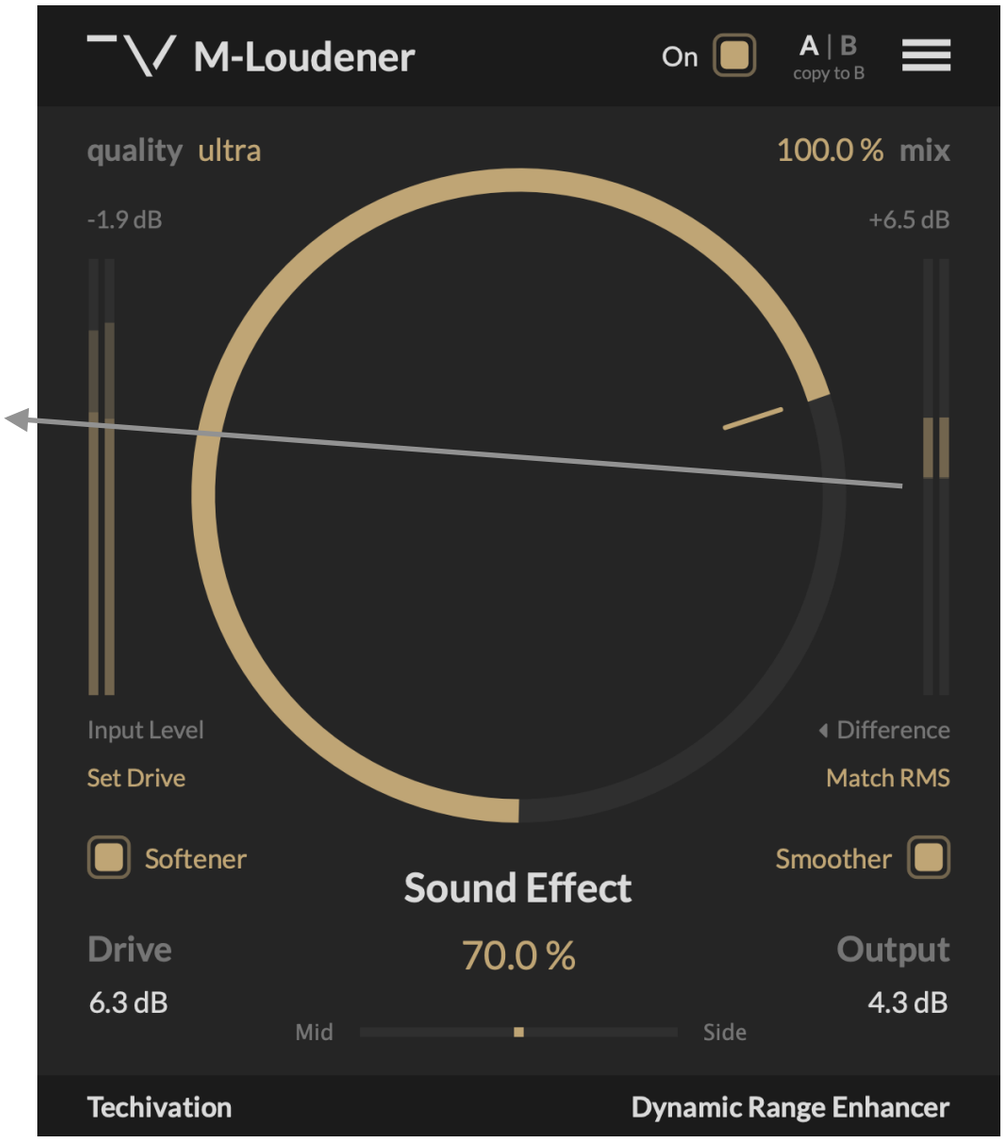
By using this meter, you can adjust the plugin's output to match the loudness of the input, resulting in a more accurate representation of the plugin's effect on the audio. This feature is particularly useful because it allows you to maintain the same loudness while increasing headroom, which is the amount of space between the loudest part of the audio signal and the maximum level that can be recorded or played back without distortion. By adjusting the output to match the input, you can hear the plugin's effect more clearly without introducing any additional gain.



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Difference Meter

It's important to note that when you match the difference, the RMS loudness of the output will be the same as the input, but because the plugin generates new harmonics, the perceived loudness can still be higher.

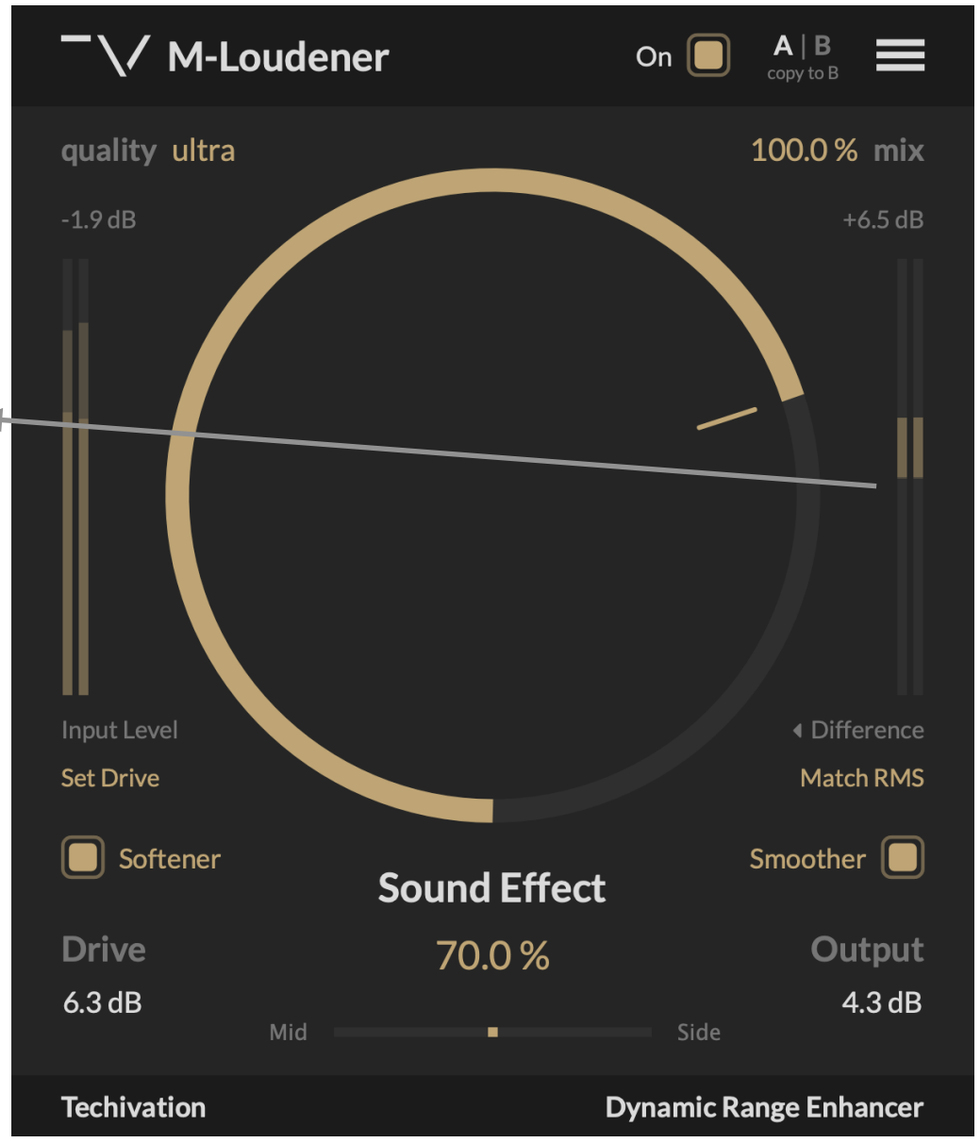


If you want to maintain the same loudness level while increasing headroom using M-Loudener, you need to set the 'Difference' meter to 0. This can be achieved by using the 'Match RMS' feature, which ensures that the RMS loudness of the output matches that of the input. By doing this, you can increase the headroom without changing the perceived loudness of the audio.

Techivation M-Loudener

Difference Meter

On the other hand, if you want M-Loudener to increase the perceived loudness of the audio, you need to set the 'Difference' meter to a value greater than 0. In this case, you can leave the 'Output' meter at 0, and the plugin will increase the loudness of the audio by generating new harmonics. However, it's important to note that increasing the loudness in this way can also increase the risk of clipping or distortion, so it's important to use your ears and monitor the audio carefully to avoid any unwanted artifacts.

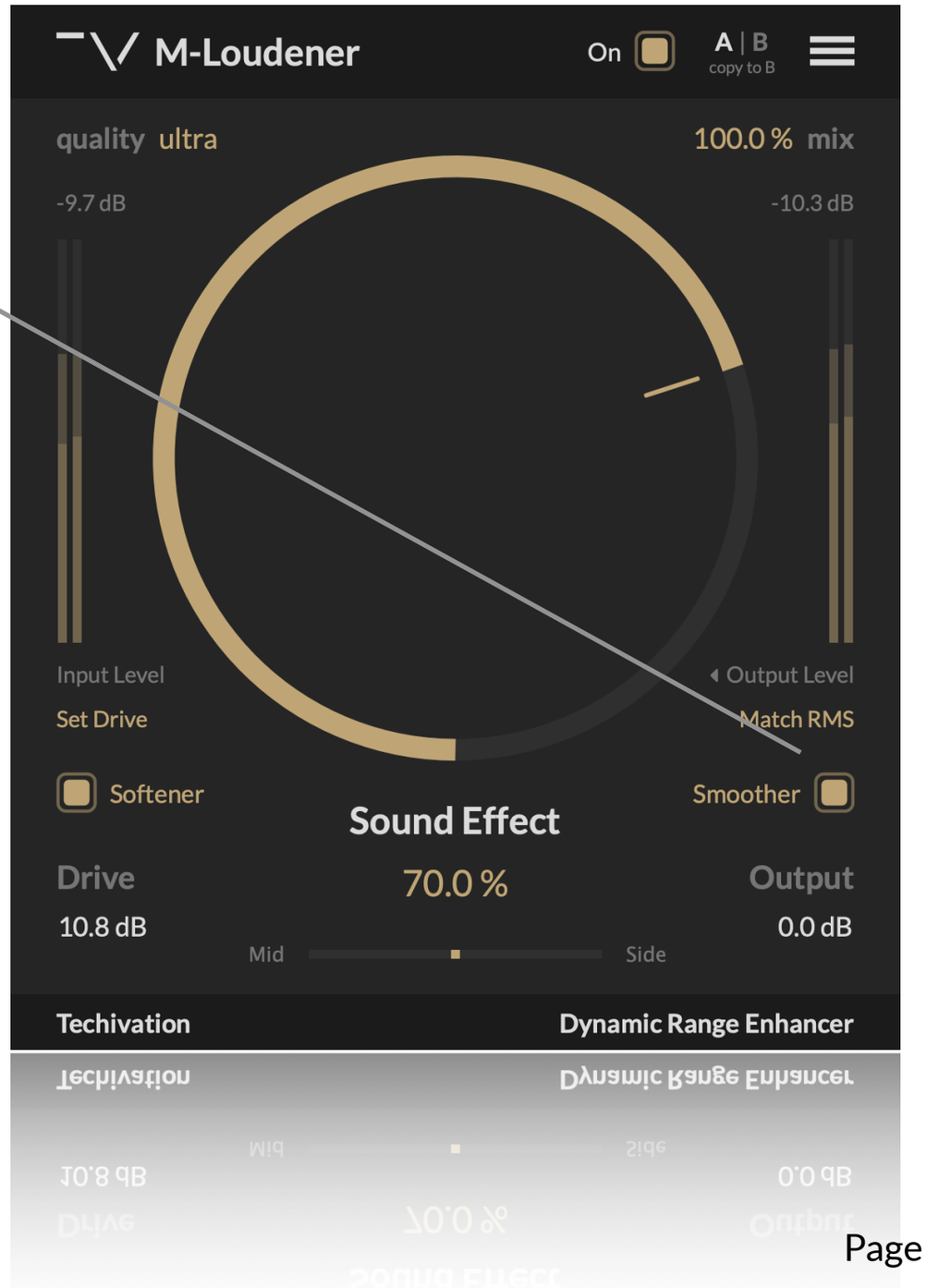


Techivation M-Loudener

Features

Match RMS

Clicking on the ‘Match RMS’ while the playback is on adjusts the output audio levels to match the input’s RMS value. For example, if your track has an RMS of -12 dB, selecting 'Match RMS' will ensure that the output signal retains the -12 dB RMS after applying the plug-in effect.



The ‘Match RMS’ feature is not a selective tool, but a one-time clickable option that automatically balances input and output RMS levels during playback. It serves as a helpful starting point when using the plug-in, and also helps to hear the exact effect of the plug-in on the sound’s punchiness, thickness, width, and character without a change in the perceived loudness.

After finding an appropriate balance between input and output levels to maintain consistent headroom, you can utilize the 'Drive' option for additional headroom and tweak the 'Output' for increased loudness.

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Features

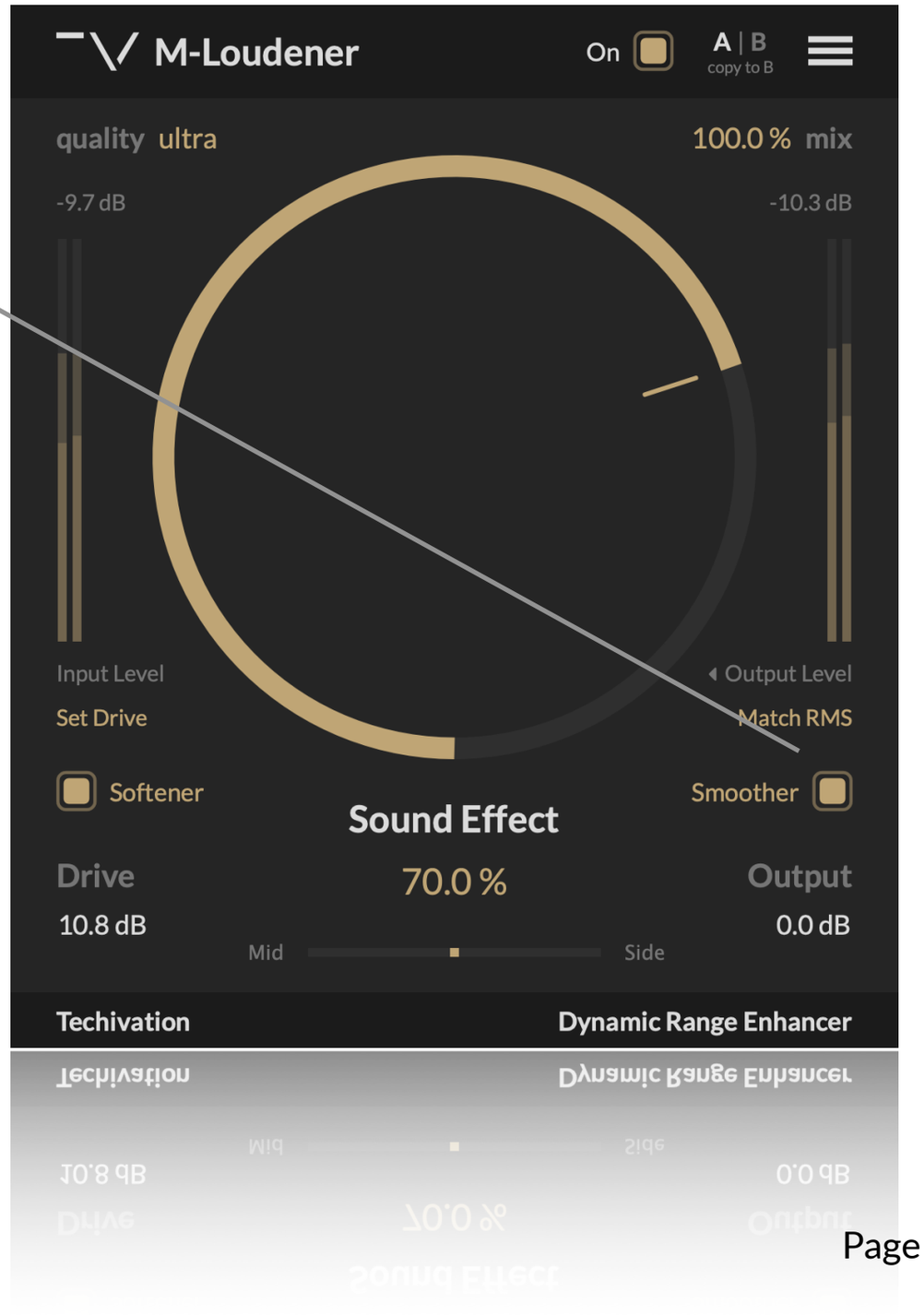
RMS Match

There are a couple of important points to keep in mind when using M-Loudener's 'Match RMS' feature:

1. If you change any of the plugin settings, such as Sound Effect, Drive, Softener, Smoother, Mix, or MidSide, you may need to use the 'Match RMS' feature again to ensure that the output loudness remains consistent with the input.

2. If you have automation set up for the plugin's 'Output' parameter, the 'Match RMS' button will have no effect. This is because automation always takes priority over manual adjustments made using the plugin's interface.

In summary, if you make any changes to the plugin's settings or have automation set up for any of the parameters, it's important to monitor the audio carefully and adjust the 'Match RMS' feature as needed to ensure the desired loudness and headroom levels are maintained.




M-Loudener/Master
M-Loudener
On
100.0 % mix
quality good
2.0 dB
Softener
Sound Effect
Smoother
Drive
64.4 %
Output
0.0 dB
2.0 dB
Techivation
Dynamic Range Enhancer
Techivation Plugins
Products
Support
Blog
About
Get M-Loudener
Log in

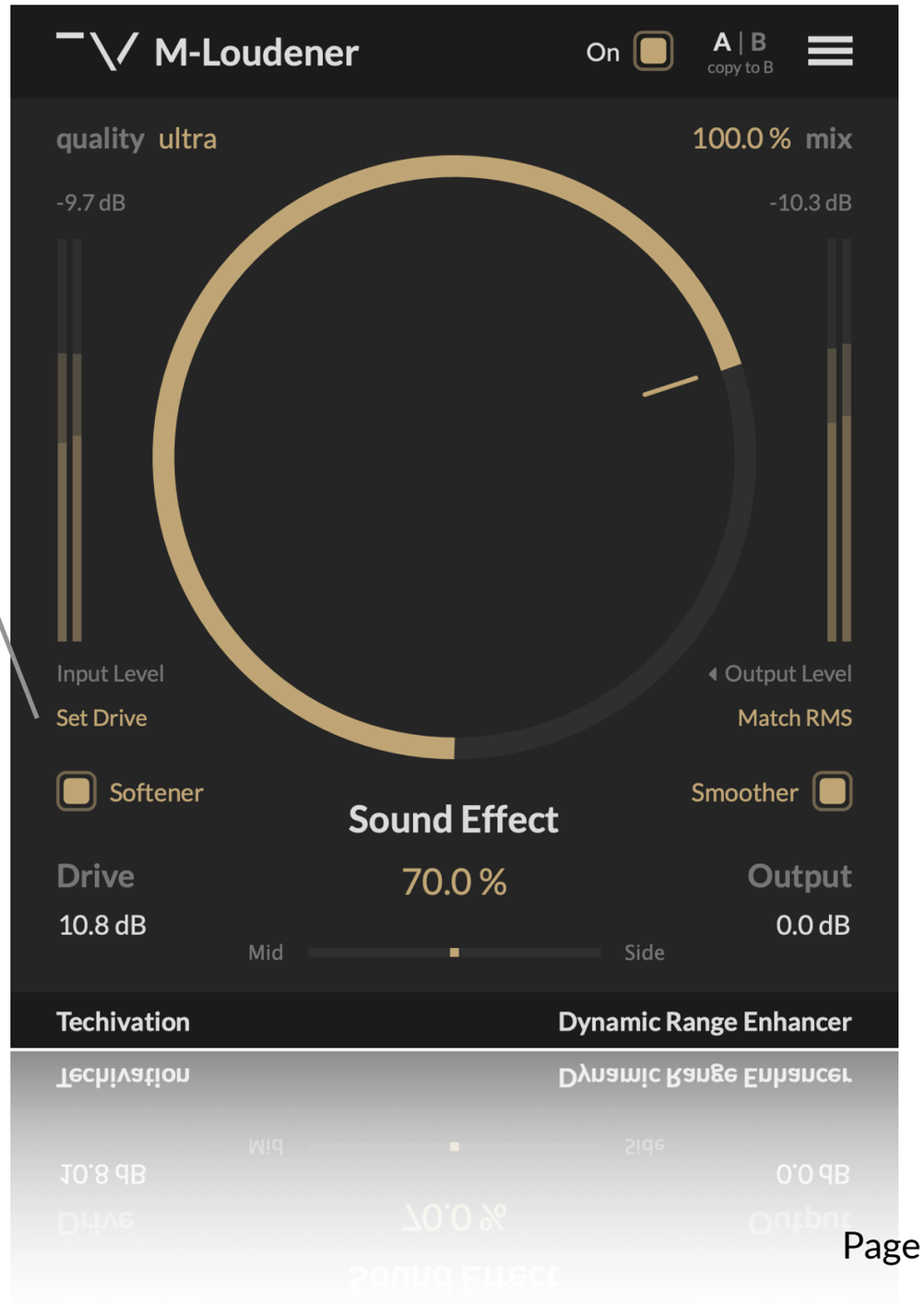
Techivation M-Loudener

‘Set Drive’ Option

When you use the 'Set Drive' button in M-Loudener, the plugin uses the peak hold value displayed above the meter to set the Drive parameter. Similar to the 'Match RMS' button, this feature is a one-time clickable option that can be triggered during playback, modifying the 'Drive' value with a single click.

It's important to note that if you click the 'Set Drive' button when the audio isn't at its loudest point, you may end up with too much Drive and audible distortion. So to avoid distortion, it's best to play the loudest part of the track when using the 'Set Drive' button.

The ‘Set Drive’ feature ensures that the audio peaks hit the transfer curve at the right spot, where you get enough of the effect without introducing any distortion. However, it's important to remember that 'Set Drive' is only a suggestion and that you can still manually adjust the Drive parameter to increase the perceived loudness further, as long as it still sounds desired to you.



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Features

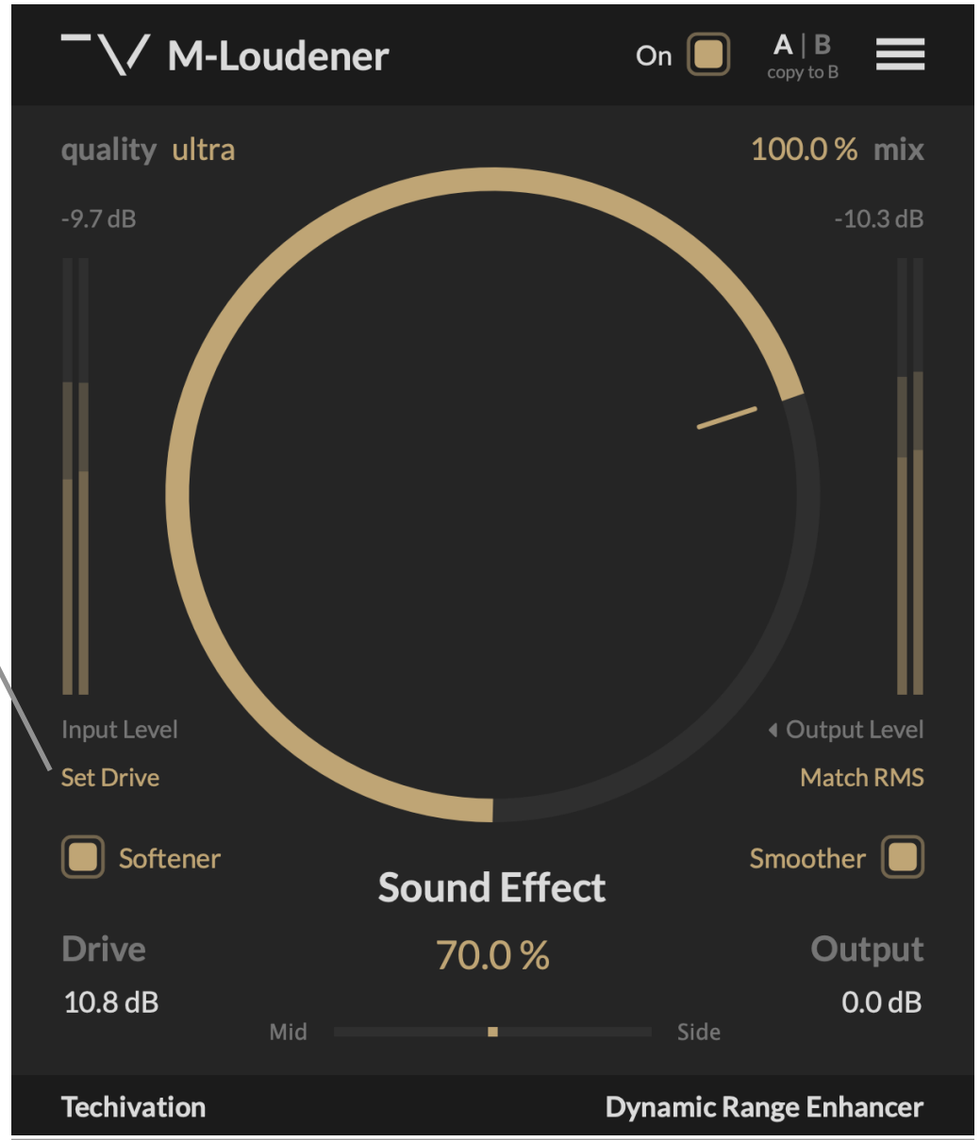
‘Set Drive’ Option

In summary, the 'Set Drive' button is a useful tool for setting the Drive parameter to a safe level quickly, but it's essential to monitor the audio carefully and make manual adjustments as needed to achieve the desired loudness and avoid any unwanted distortion.

There are a couple of important points to keep in mind when using the ‘Set Drive feature:

1. If you have automation set up for the plugin's 'Drive' parameter, the 'Set Drive' button will have no effect. This is because automation always takes priority over manual adjustments made using the plugin's interface.

2. You should always play the loudest part of the track when using the "Set Drive" button, and it only works while the playback is on.



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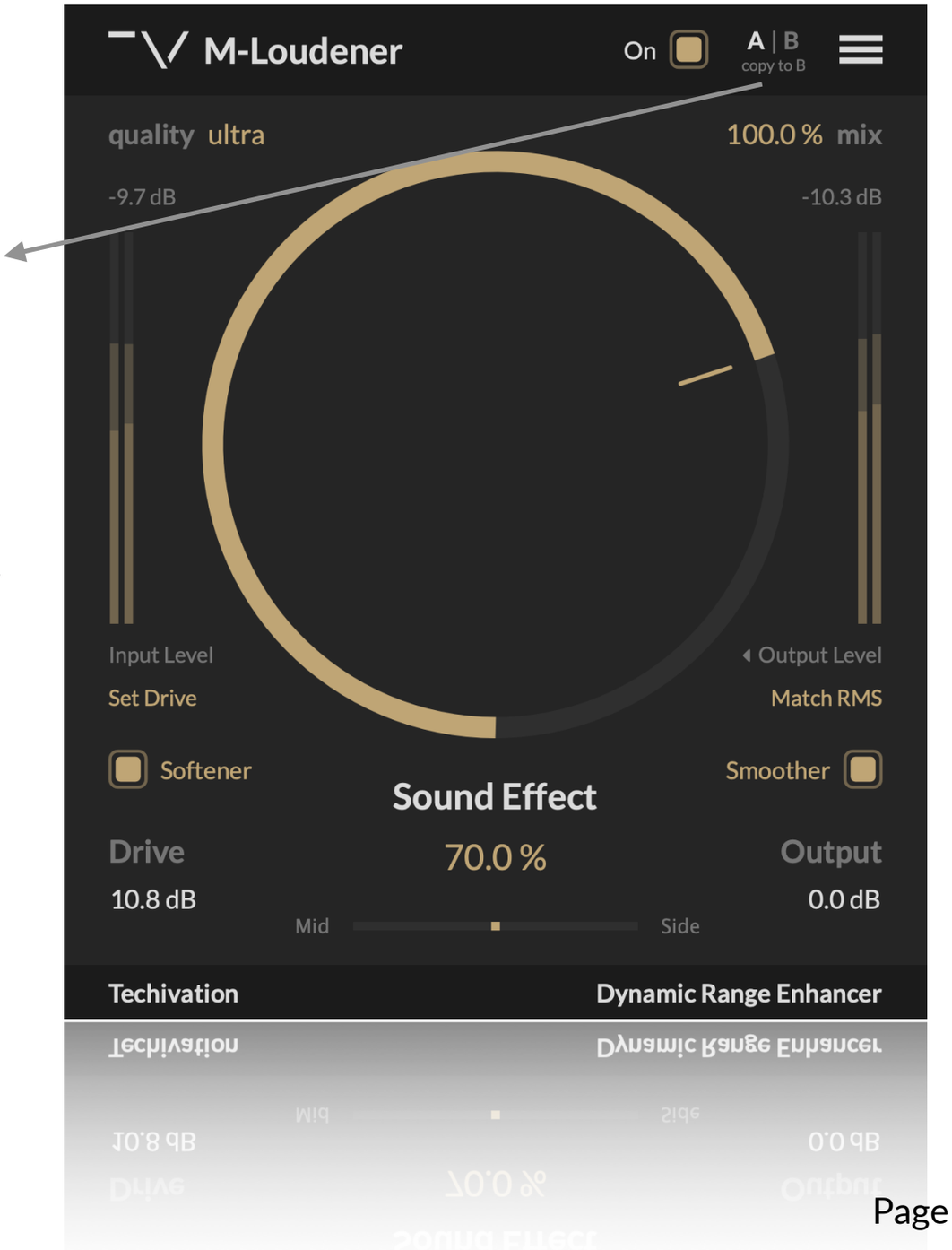
Features

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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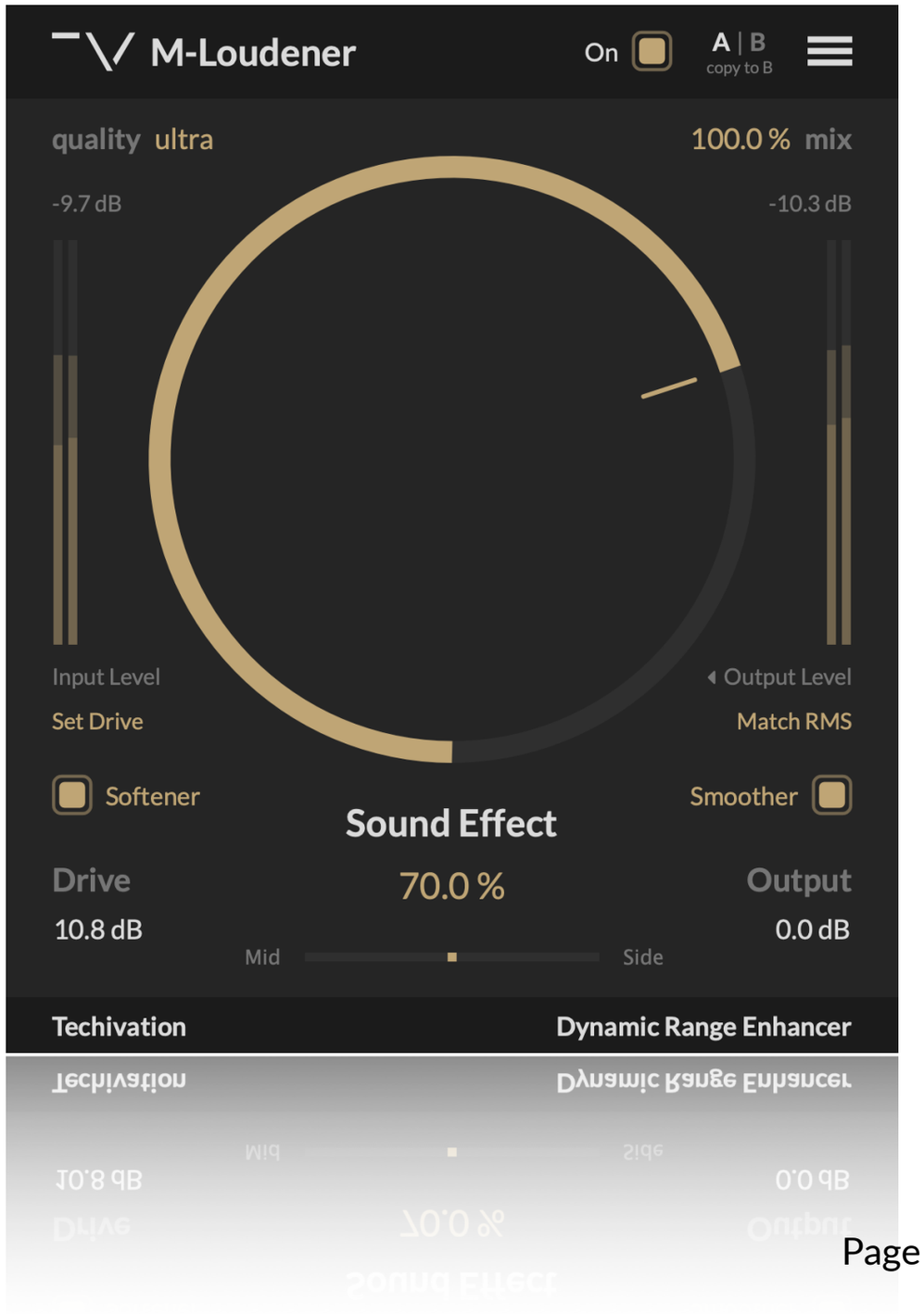
Features

Undo/Redo

The M-Loudener 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.



GUI Scale

The interface scaling feature in M-Loudener 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-Loudener 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. Overall, the interface scaling feature in M-Loudener provides a valuable level of customization and flexibility in your audio production, making it easier to navigate and control the plug-in to achieve your desired sound.

Tooltips

M-Loudener 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.

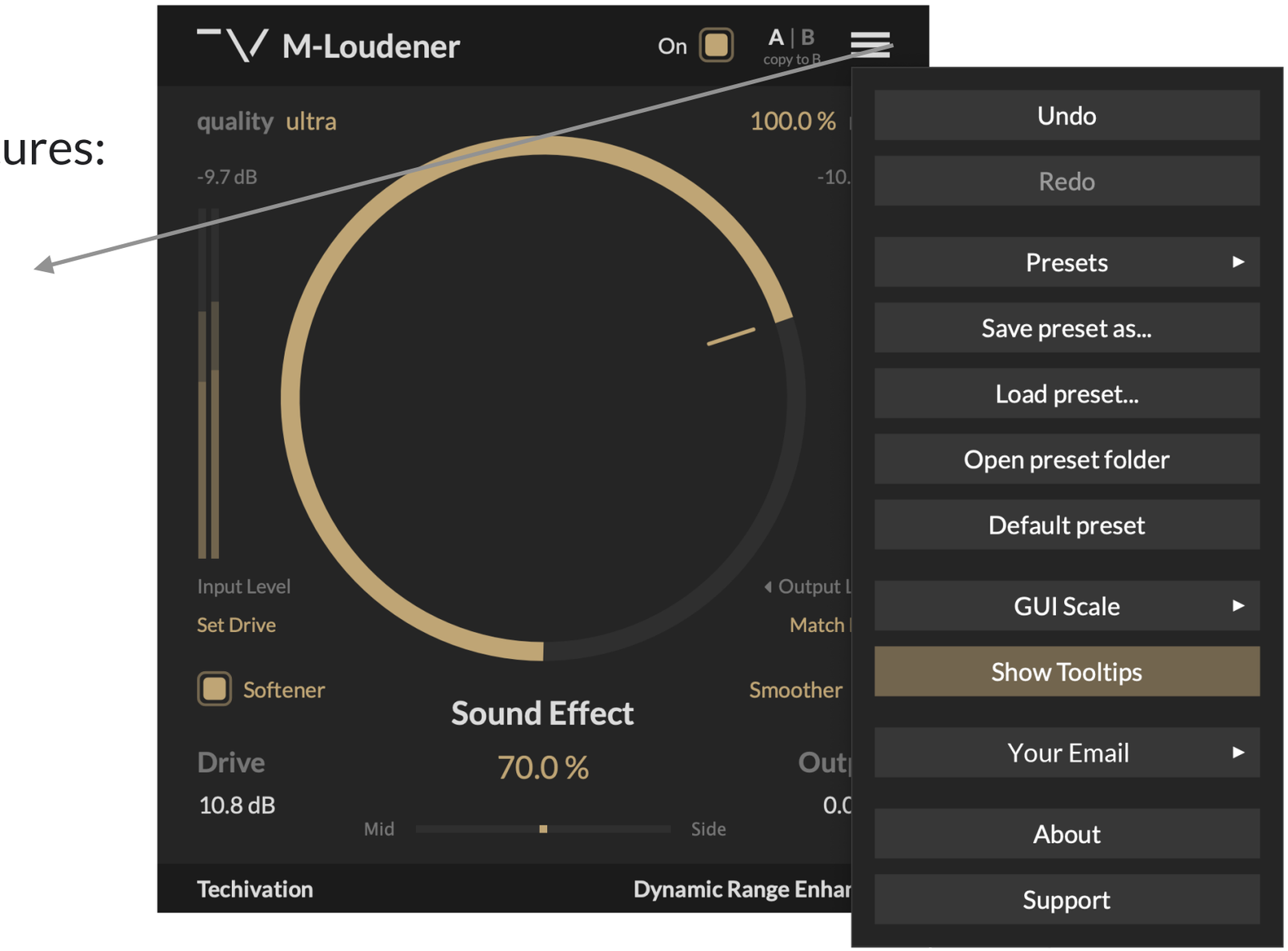
They can provide helpful information about each parameter, including its function, range, and how it affects the audio signal. Enabling the tooltips option is a great way to speed up your workflow and make it easier to work with the M-Loudener plugin. If you're not sure what a particular control does, simply hover your mouse over it to get a quick and informative tooltip.

Techivation M-Loudener

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-Loudener

Compatibility

Plugin formats: VST, VST3, AU, AAX.
Platforms supported: Mac OS X 10.12 (macOS Sierra) or higher Intel & Native M1/2 | 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-Loudener 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-Loudener 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.

Techivation M-Loudener

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."


MURRAY
M-Loudener
Sound Effect
Drive
50.0 %
Output
Dynamic Range Enhancer