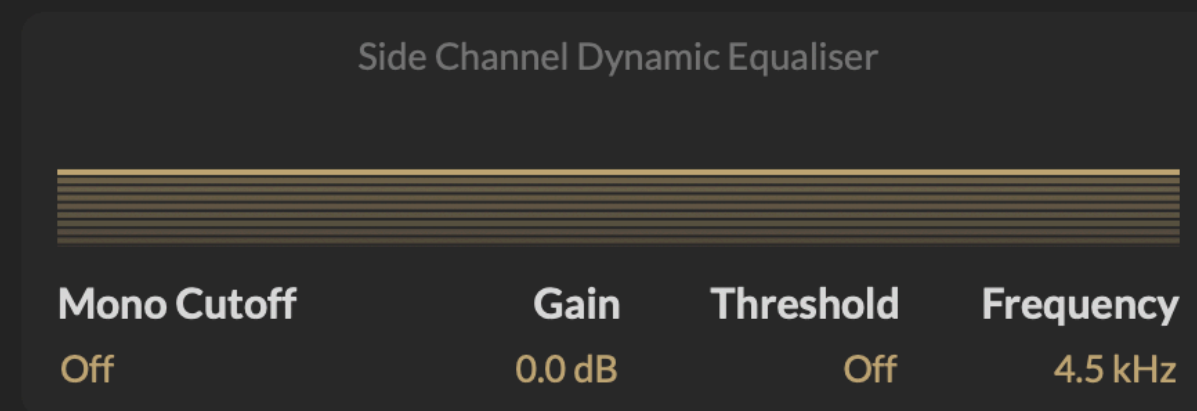
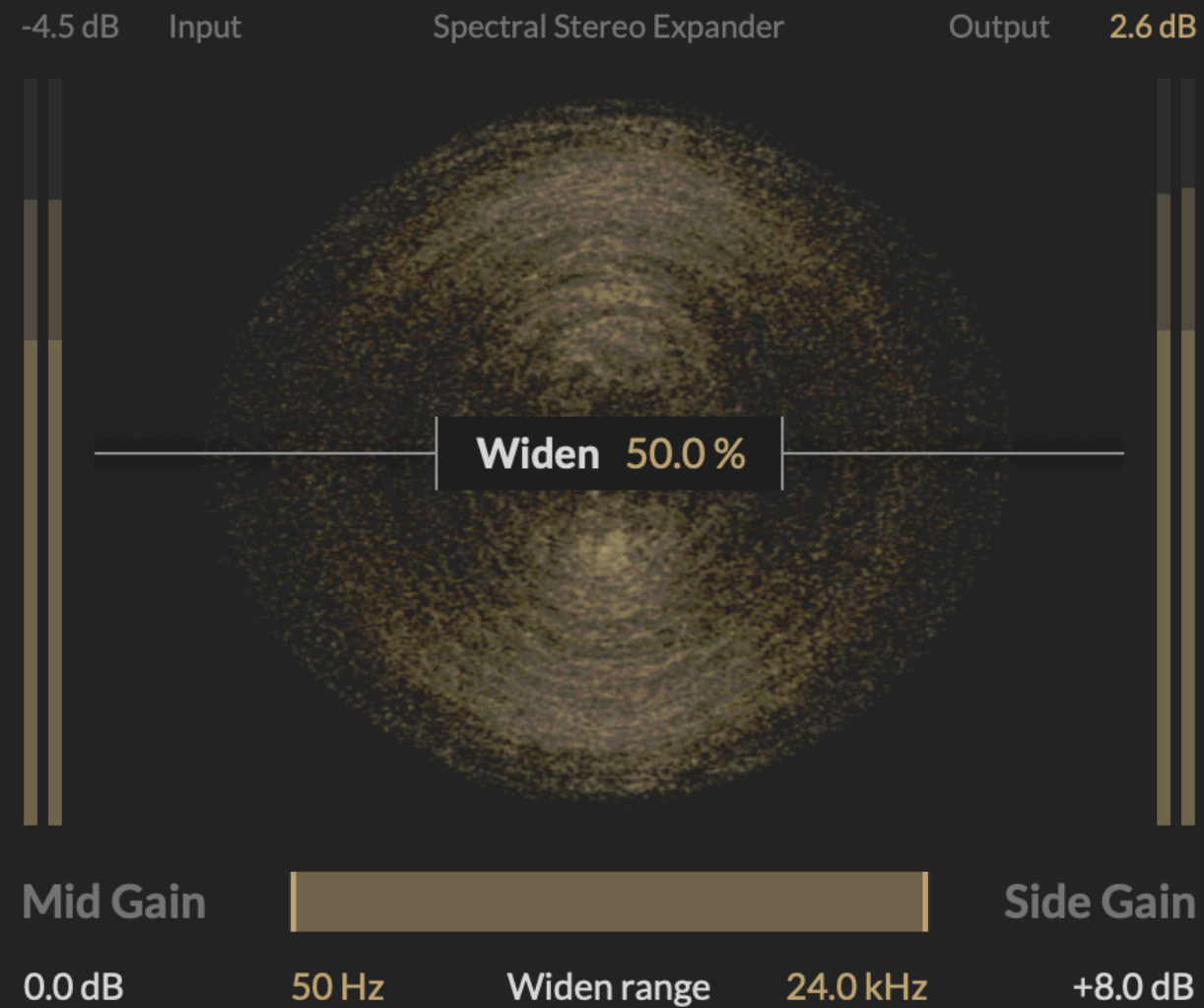


Techivation M-Imager

User Manual



Techivation M-Imager

Overview

M-Imager is a spectral stereo expander that brings natural width and dimension with unmatched quality. It excels both at stereoising mono inputs and enhancing stereo tracks, delivering mastering-grade results with perfect mono compatibility, clean transients, and no colouration.

M-Imager processes your audio as Mid and Side channels. The Mid channel is the mono centre of your track. The Side channel represents the difference between left and right channels and contains all the information about the stereo width and balance. By working with just the Side channel, M-Imager ensures perfect mono-compatibility.

At the heart of M-Imager is a custom phase-only, time-varying spectral decorrelator. It organically expands the Mid channel of your audio into the stereo field, leaving your tonal balance untouched. The phase rotations applied by our decorrelator are engineered to perfection, so transients stay razor-sharp, and punch and timing you dialled in remain exactly where you put them.

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Overview

Most wideners are static and fall apart on sustained notes. M-Imager gently lowers short-time inter-channel coherence with a controlled smooth phase drift. The result is stable, natural width without chorus shimmer, flanging, or that hollow “phasey” sheen.

A balanced stereo image is of utmost importance, especially for mastering. M-Imager continuously aligns the side energy so left/right balance never drifts, no matter how far you push the width.

On top of its advanced widening capabilities, M-Imager offers a dynamic Side channel EQ to further sculpt the stereo image. Firmly ground the lows in the middle, while making the sides breathe with the dynamics of your track!

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Features

- Widen
- Widen range
- Stereo field visualiser
- Mid Gain and Side Gain
- Mono Cutoff
- Side Dynamic EQ Frequency
- Side Dynamic EQ Gain
- Side Dynamic EQ Threshold
- Side Dynamic EQ Display
- Solo Mid and Solo Side
- Output
- Level meters
- Internal On-Off Switch
- Internal Menu
- Presets
- Scaleable GUI
- Guided Tour
- A/B Switch
- Undo-Redo Options
- Show/Hide Tooltips

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[Features](#)

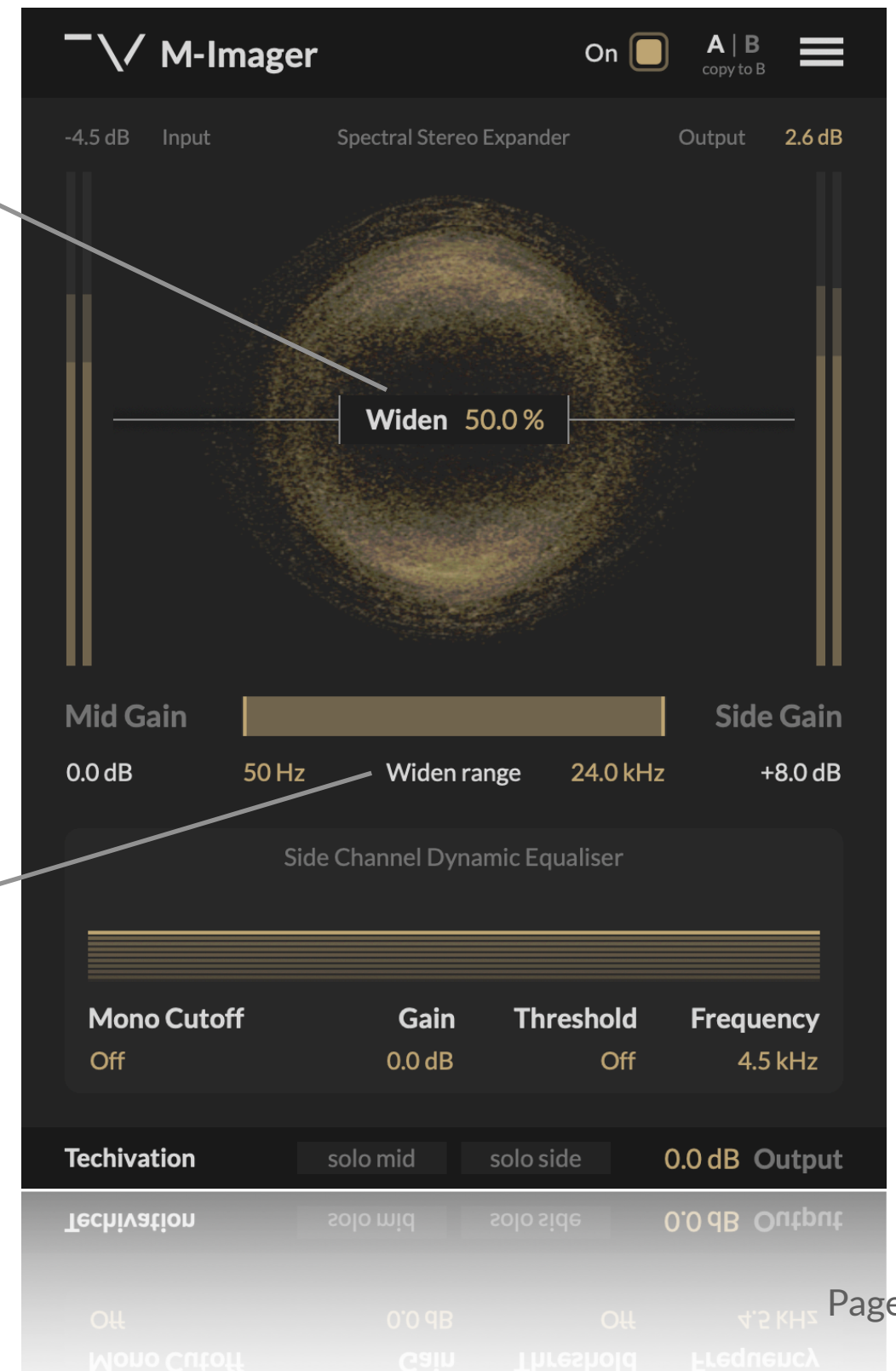
Widen

“**Widen**” controls the amount of the new Side signal generated from the original Mid channel. If the plug-in input is mono, setting “Widen” above 0% will expand it into stereo. If the input is already stereo, the generated Side signal will be added to the original Side channel, increasing the stereo width of the audio.

Widen range

“**Widen range**” targets the part of the spectrum that will be affected by stereo expansion of the “Widen” control. It limits the frequency range in which the new Side signal is generated.

Use this control to focus the stereo widening effect of M-Imager only where it’s needed. For example, you may want to keep the low end of your track grounded in the middle by targeting only higher frequencies.



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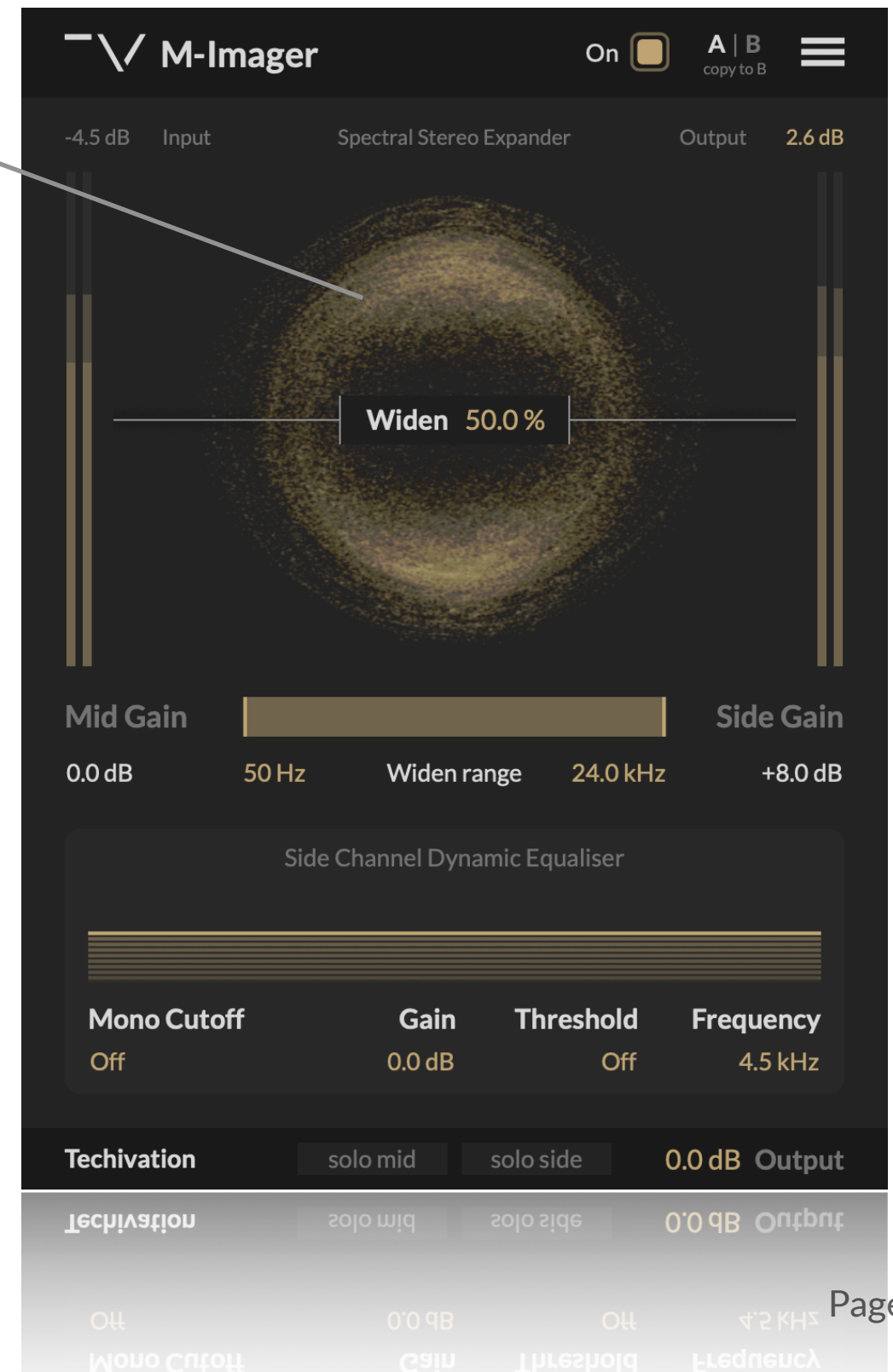
[Features](#)

Stereo field visualiser

Stereo field visualiser is a realtime decibel-valued goniometer that gives a comprehensive overview of your track's stereo image. It plots the momentary level of the left channel against the right channel, so you can see the width and balance of your track.

The width of the goniometer image represents the amount of difference between the left and right channels: wider image means more stereo spread. A mono signal is represented by a narrow vertical line on the goniometer as it lacks any stereo width.

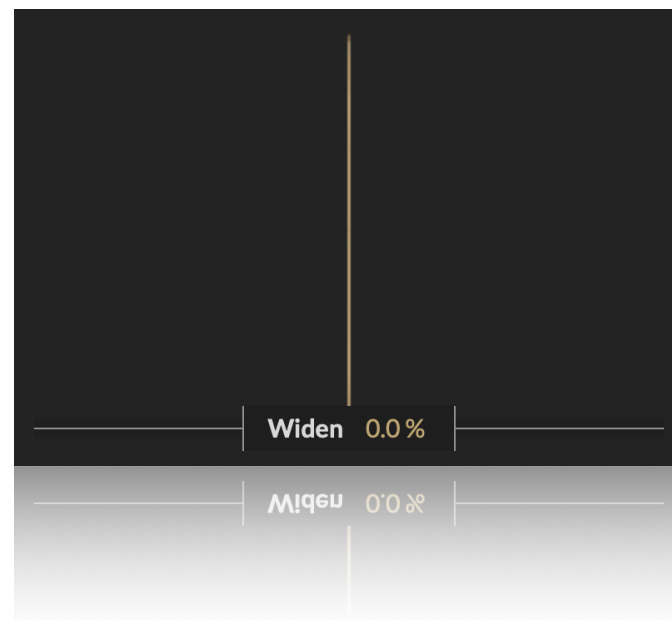
A balanced stereo image will show up as a cloud with symmetrical left and right halves on the goniometer. If the balance is shifted towards the left or right channel, the goniometer image will be tilted in the corresponding direction.



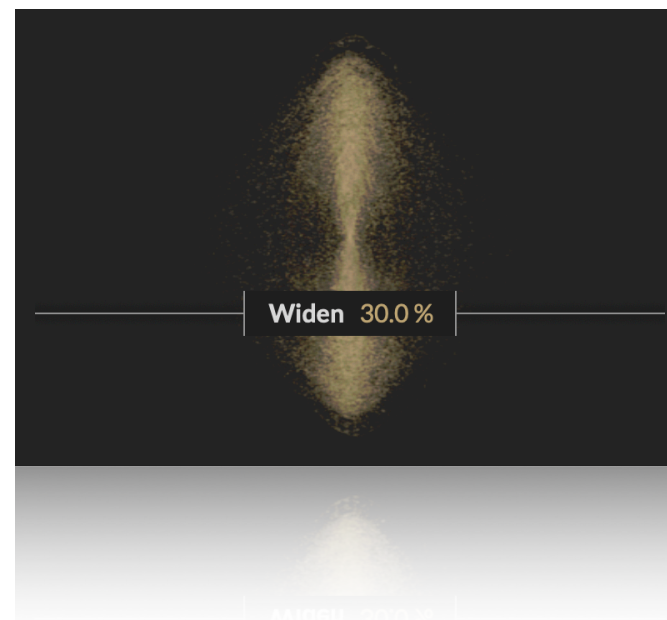
Techivation M-Imager

Features

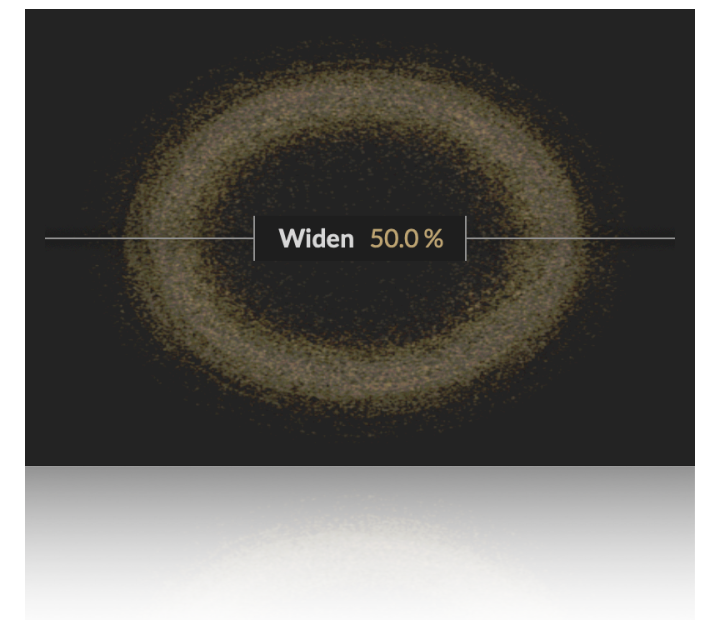
Mono signal



Narrow stereo field



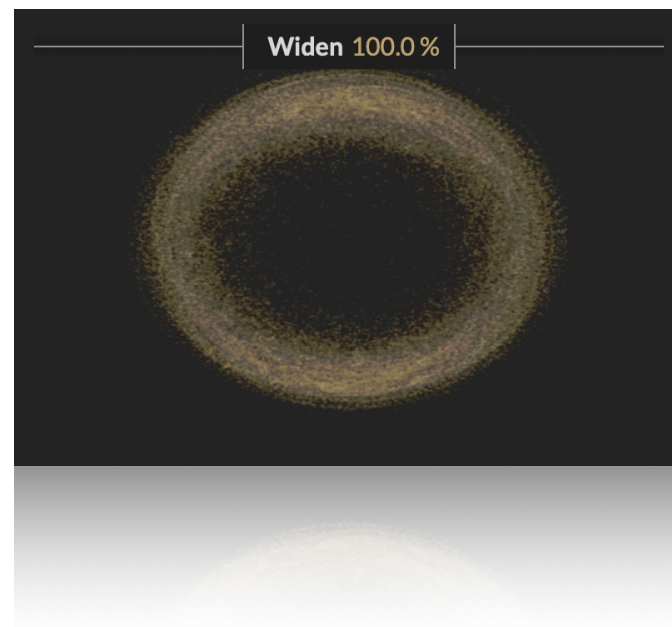
Wide stereo field



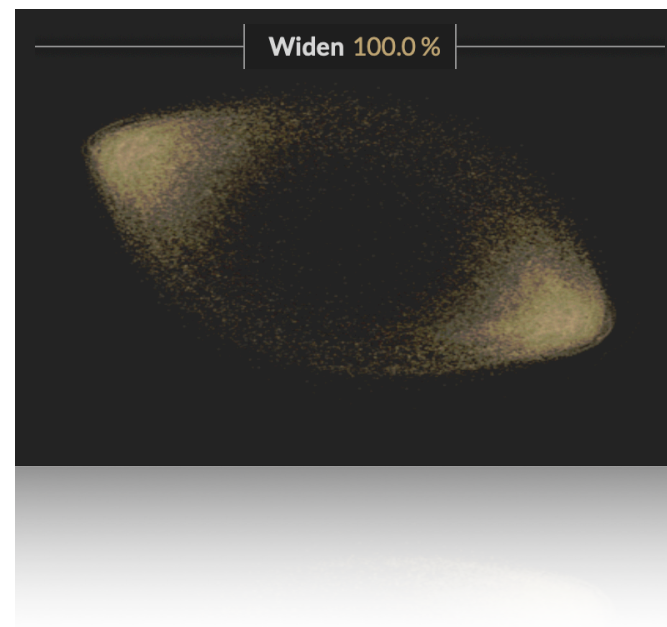
Techivation M-Imager

Features

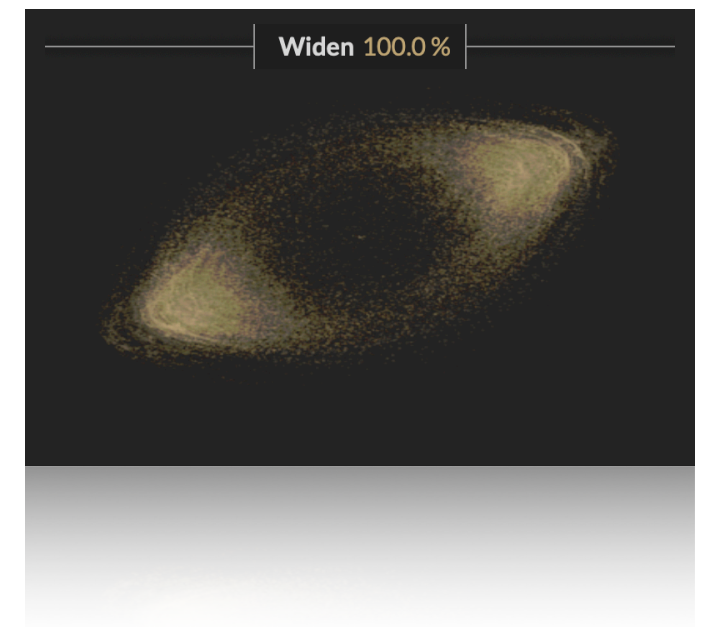
Centred balance



Left-leaning balance



Right-leaning balance



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[Features](#)

Mid Gain and Side Gain

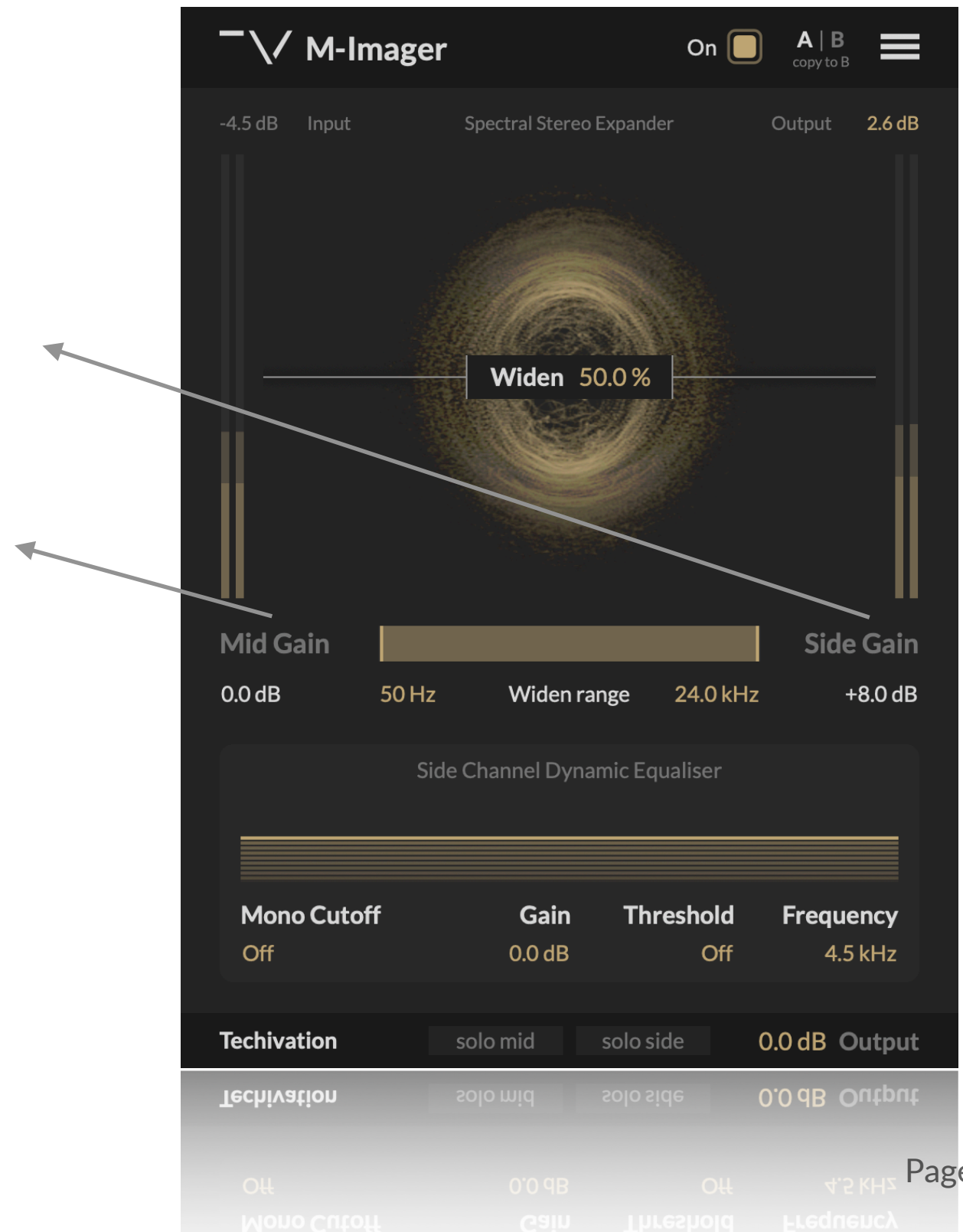
“Mid Gain” and “Side Gain” give you direct control over the levels of the Mid and Side channels.

“Side Gain” affects both the original Side signal and the new Side signal generated by the “Widen” control.

Boosting “Side Gain” increases the stereo width of your track. Cutting “Side Gain” results in a narrower stereo image.

“Mid Gain” is the only control that affects the Mid channel.

It is useful for carving out space in the middle of your mix. For example, when mixing background vocals, you can lower “Mid Gain” while boosting “Side Gain” to compensate. This will push the backing vocals out to the sides of the mix, leaving more space in the middle for the lead vocal.



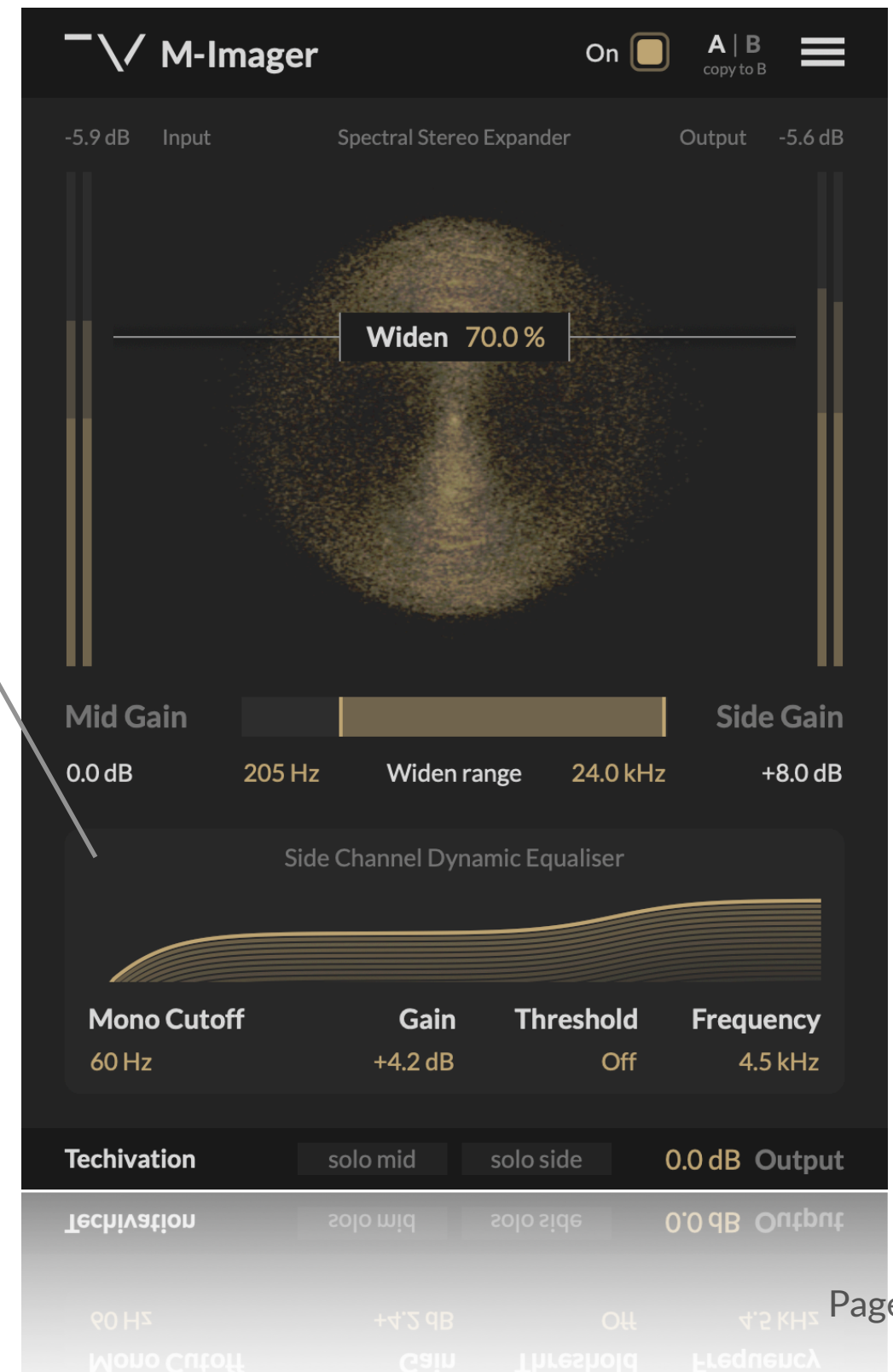
Techivation M-Imager

[Features](#)

Side Dynamic EQ

The “**Side Channel Dynamic Equaliser**” section of M-Imager controls the gentle linear-phase EQ that is applied just to the Side channel. It affects both the original and the generated Side signals.

Side Channel Dynamic EQ allows you to further sculpt the stereo image of your track while keeping the Mid channel unchanged for perfect mono compatibility. Optionally, you can use it as a dynamic EQ with the amount of boost or cut depending on the level of the Mid channel.



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[Features](#)

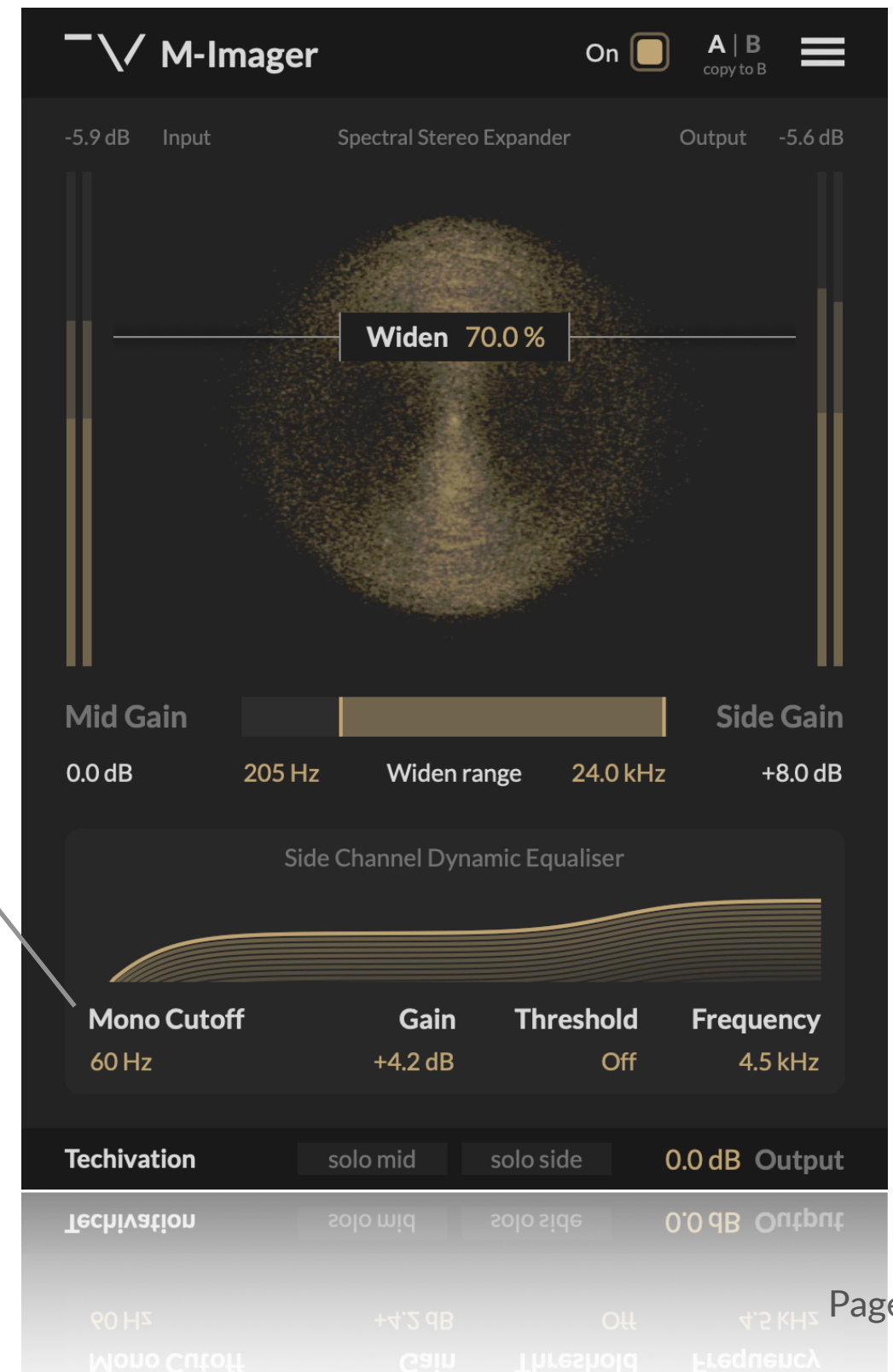
Side Channel Dynamic EQ offers the following controls:

- Mono Cutoff
- Frequency
- Gain
- Threshold
- Side Channel Equaliser Display

Mono Cutoff

“**Mono Cutoff**” sets the frequency below which the output will be gently rolled off to mono. This is achieved by applying a 9 dB/octave high-pass filter to the Side channel. This control can be set to “Off”, in which case no attenuation is applied to the Side signal.

Use this control to keep the low-end energy of your track grounded in the middle of the stereo image.



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Features

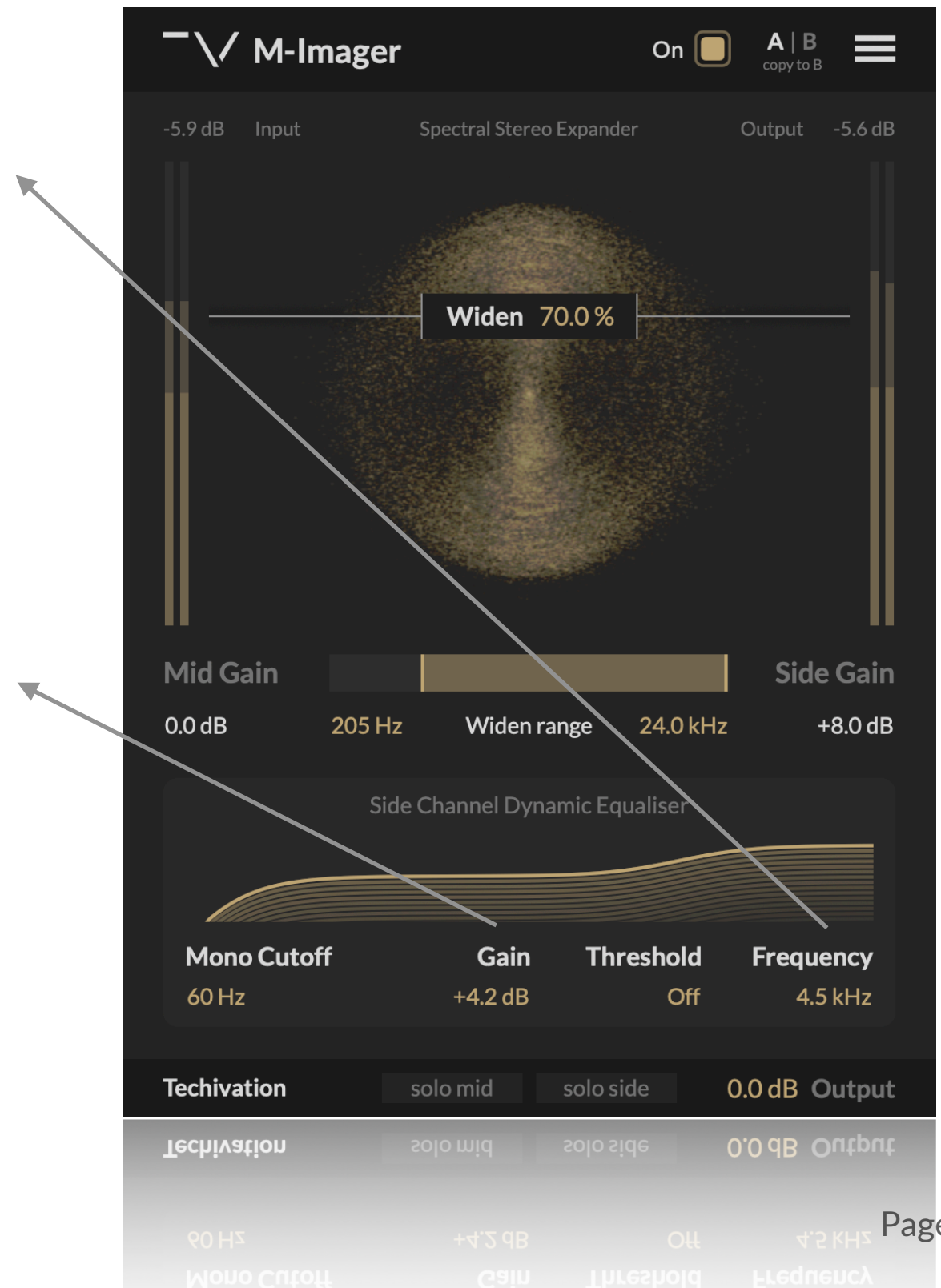
Frequency

The “**Frequency**” control sets the frequency of the high shelf EQ applied to the Side channel. Frequencies above this will be boosted or cut depending on the “**Gain**” value.

Gain

“**Gain**” adjusts the gain of the high shelf EQ applied to the Side channel. It determines how much the frequencies above the “**Frequency**” value will be cut or boosted.

When the “**Threshold**” control is enabled, “**Gain**” sets the maximum amount of boost or cut that can be applied by the dynamic EQ.



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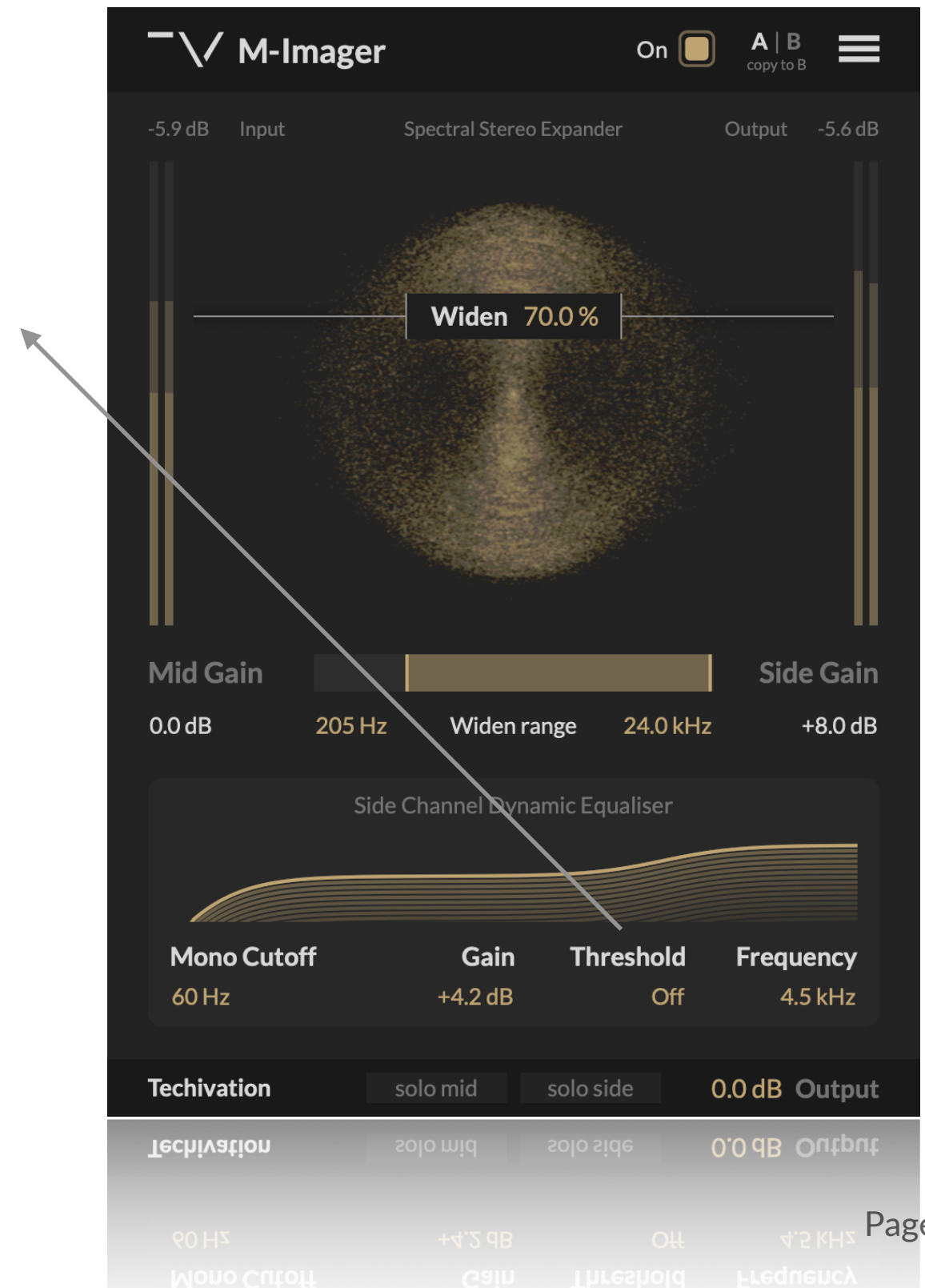
[Features](#)

Threshold

“**Threshold**” enables dynamic operation of the Side Channel EQ. It sets the threshold (in decibels) that the Mid signal needs to exceed for the full amount of high shelf “Gain” to be applied. When the Mid signal level is below the “Threshold”, a proportionally smaller amount of gain will be applied.

When “Threshold” is set to “Off”, the full “Gain” amount is always applied.

“Threshold” allows you to dynamically alter the stereo width and brightness of your track. Use it with a positive “Gain” amount to widen the louder parts more, accentuating the dynamics of your mix. Or use a negative amount of “Gain” to attenuate excessive high frequencies of the Side channel during the louder parts of your track.



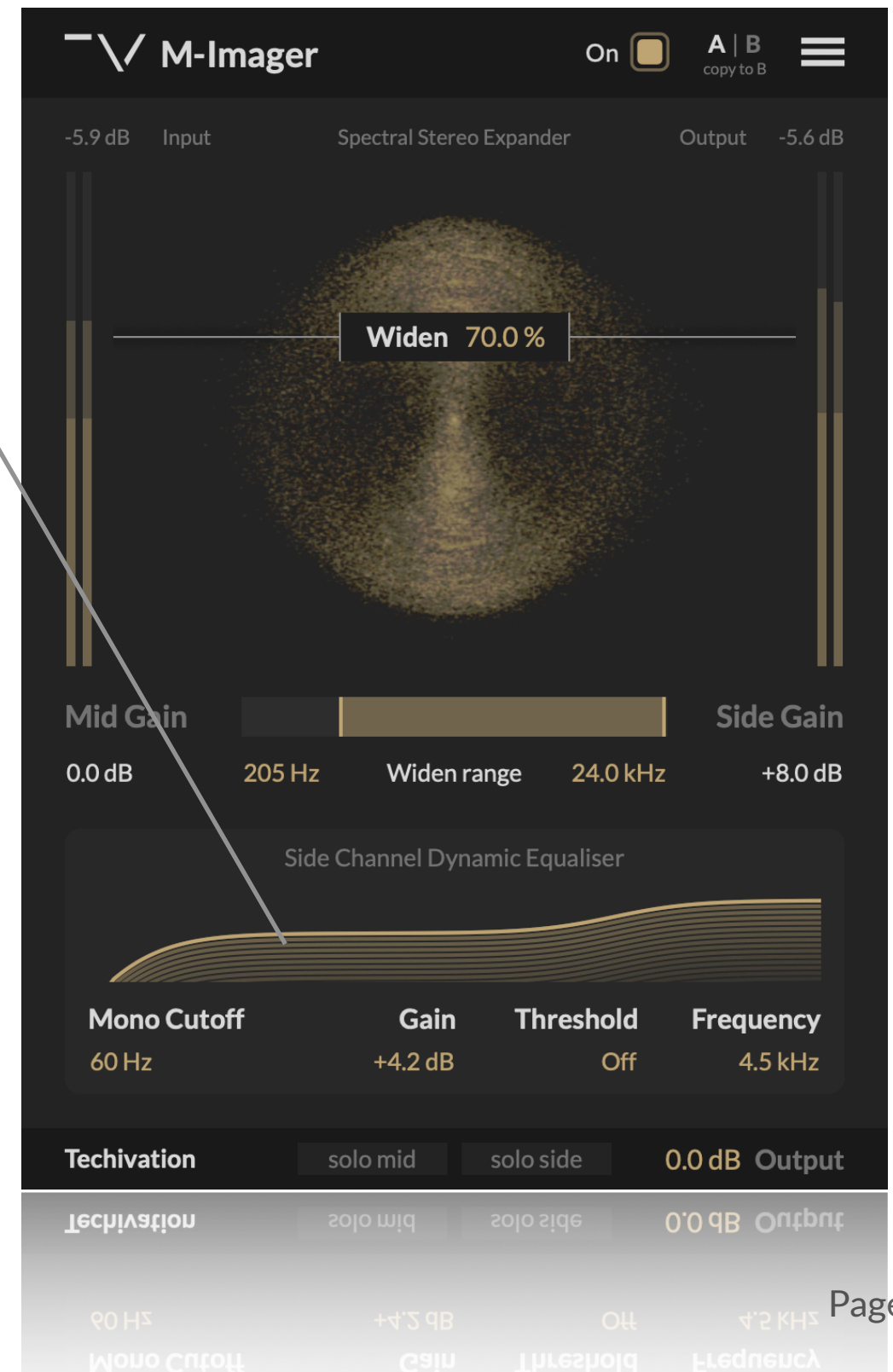
Techivation M-Imager

Features

Side Dynamic EQ Display

Side Channel Dynamic Equaliser display shows the current EQ curve applied to the Side channel and lets you intuitively set “Mono Cutoff”, “Frequency”, and “Gain” parameters.

The golden curve shows the maximum adjustment the EQ can make. The striped fill shows the current amount of EQ gain applied. It changes dynamically based on the Mid channel level when the “Threshold” control is enabled. When “Threshold” is set to “Off”, the EQ operates statically and the striped fill matches the golden curve.



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Features

Input-Output Level Meters

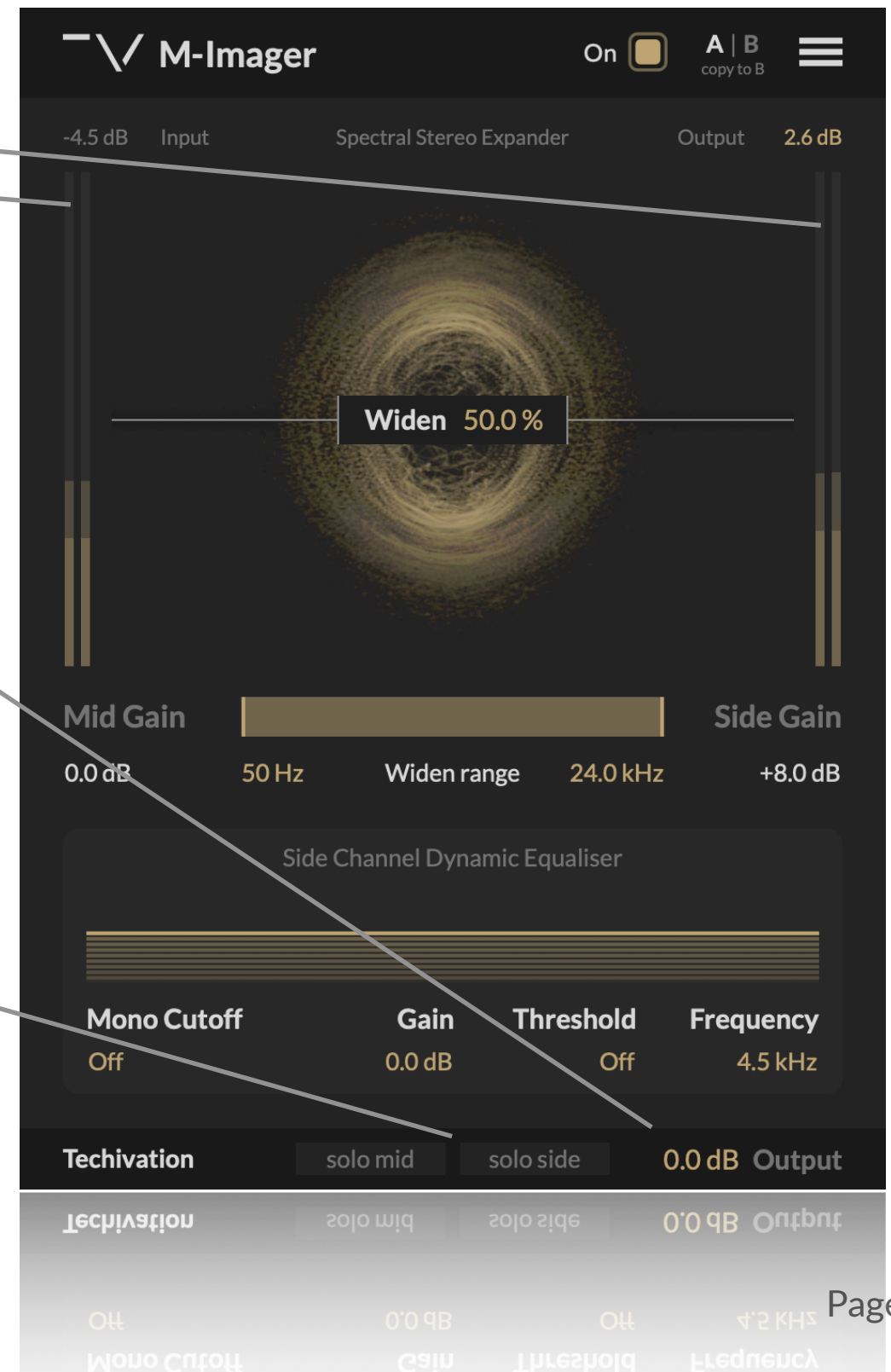
Input and Output meters show the audio levels of the signal before and after processing in real time.

Output

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

Solo Mid and Solo Side

“Solo Mid” and “Solo Side” let you listen to just the Mid or just the Side channel in isolation. Use these controls to hear exactly what the plug-in is doing to the stereo image of your track.



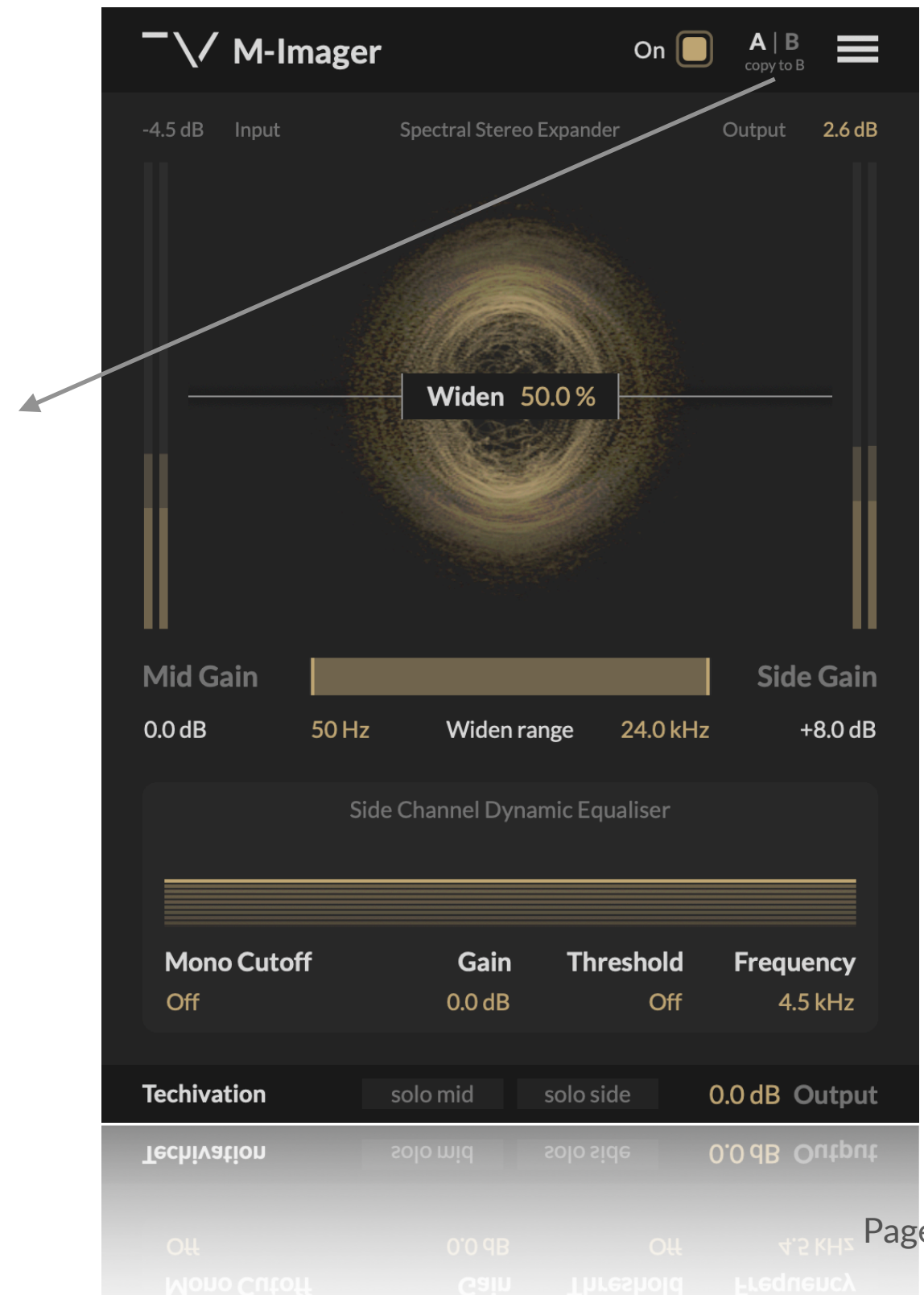
Techivation M-Imager

[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.



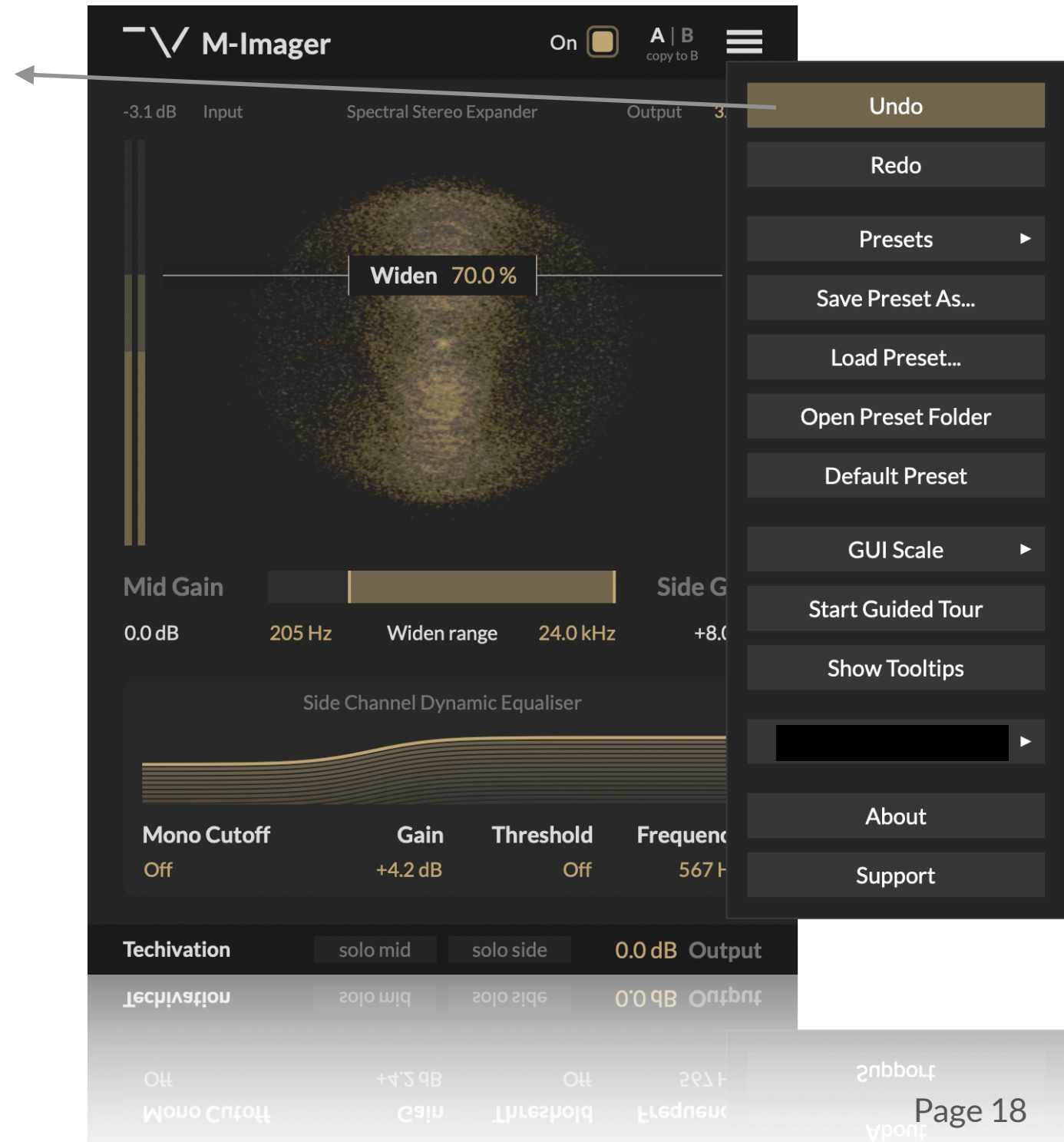
Techivation M-Imager

Features

Undo/Redo

The M-Imager 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.



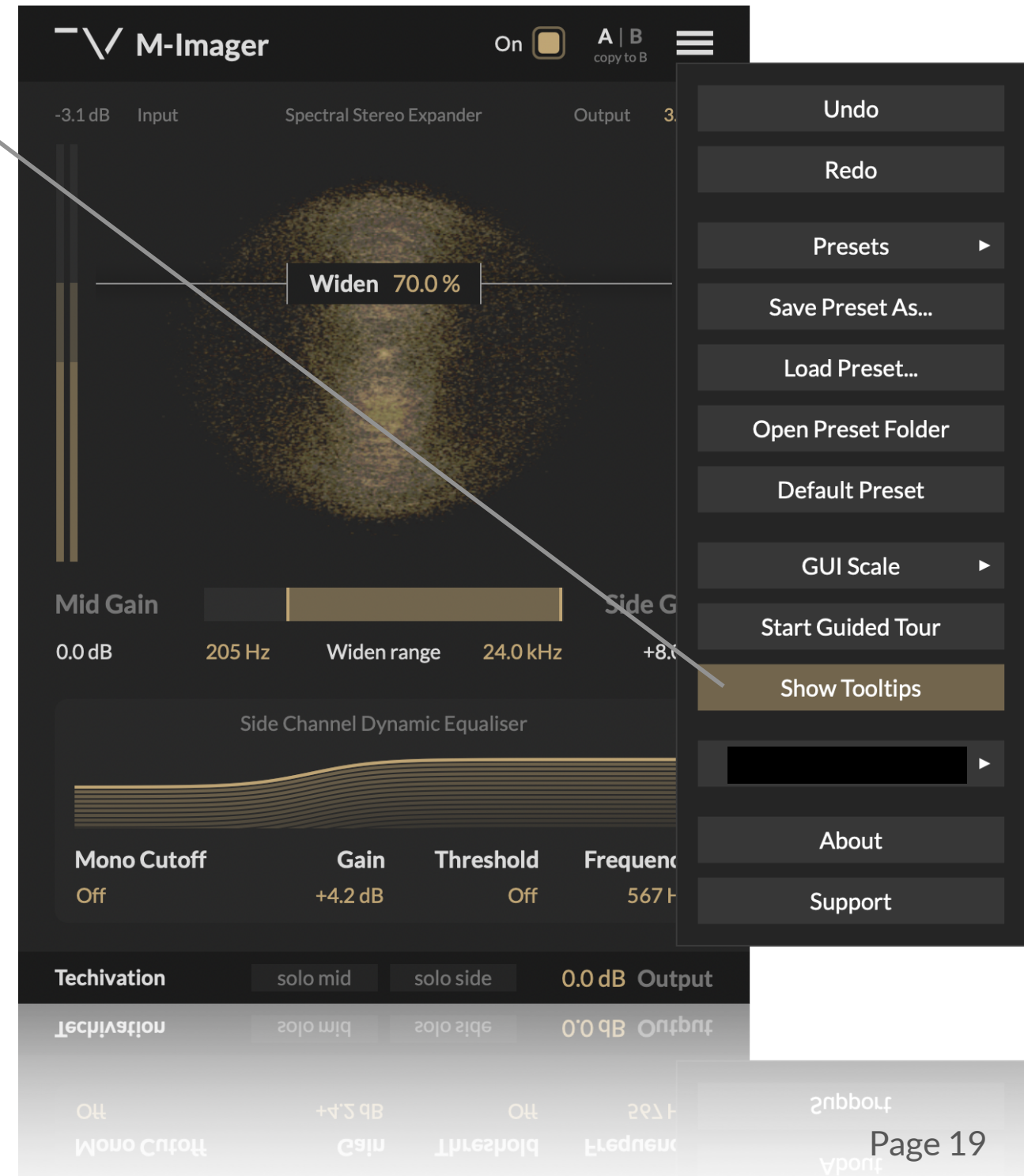
Techivation M-Imager

Features

Tooltips

M-Imager features a handy "tooltips" option that you can enable or disable from the plug-in'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 plug-in, 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-Imager plug-in. If you are not sure what a particular control does, simply hover your mouse over it to get a quick and informative tooltip.



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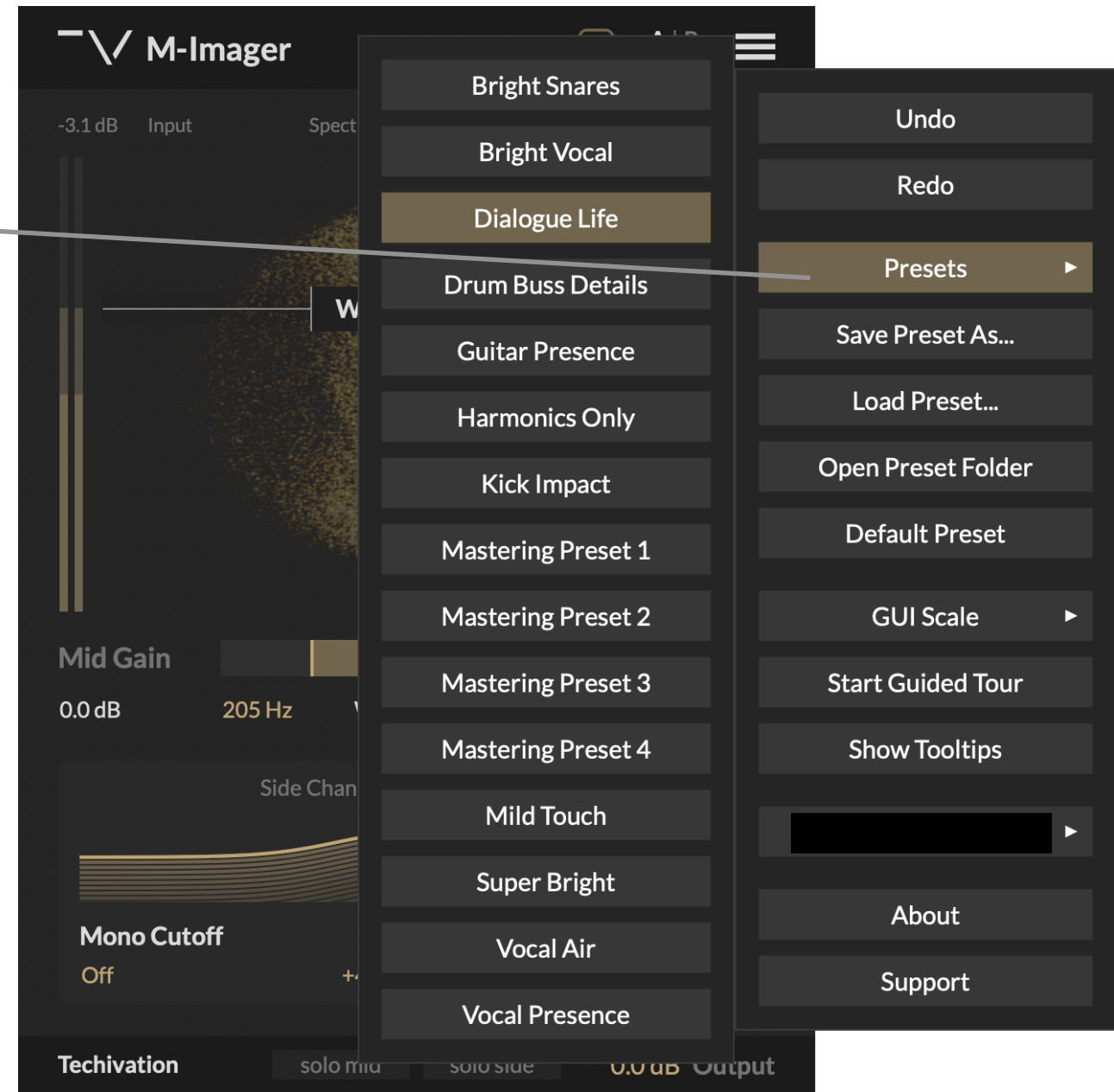
[Features](#)

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.

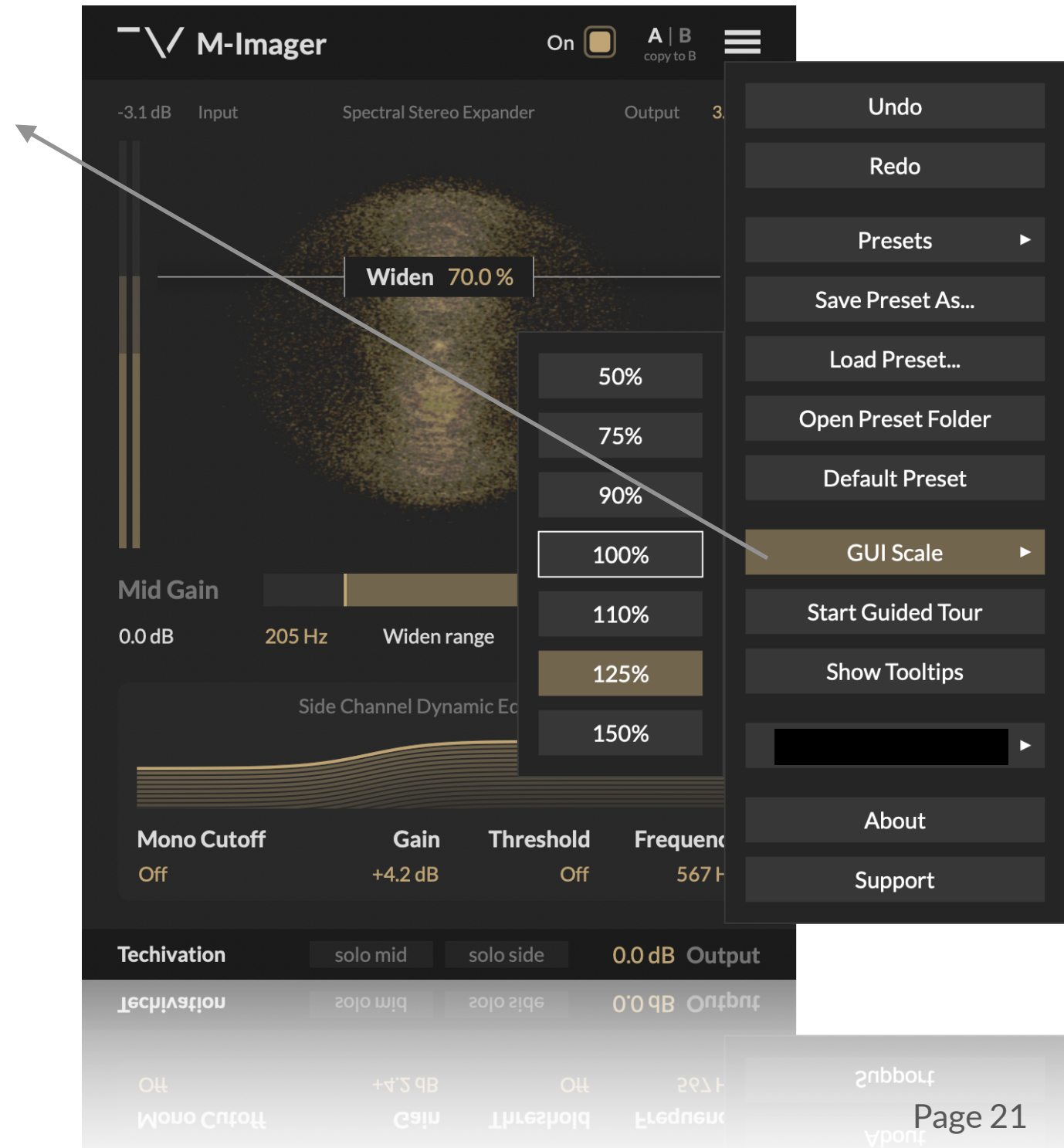


Techivation M-Imager

Features

GUI Scale

The interface scaling feature in M-Imager 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 M-Imager 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.



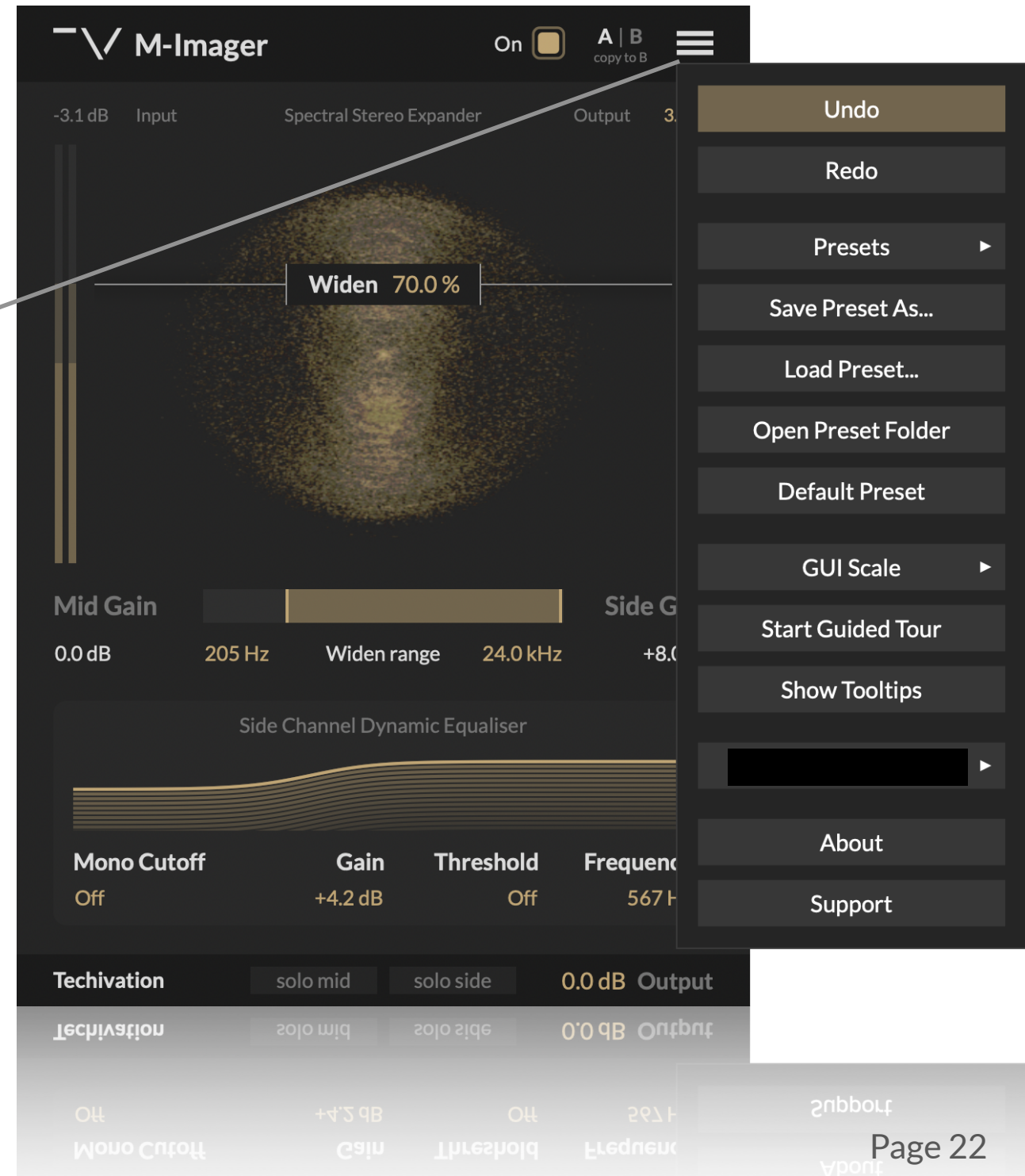
Techivation M-Imager

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



Techivation M-Imager

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

M-Imager 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 [M-Imager](#) 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

Techivation M-Imager

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.'