

Techivation M-EQ

User Manual



Techivation M-EQ

Overview

M-EQ is an adaptive linear phase equaliser plug-in that achieves more with fewer bands. Each of its three Smart Curve bands is more powerful than a combination of multiple traditional static or dynamic bands.

M-EQ Smart Curves continuously adapt their shapes to the input signal, ensuring boosts enhance only what is missing, and cuts reduce only what is excessive.

This means you can think in broader strokes: choose the general frequency range that needs more or less energy, set your desired gain amount, and let M-EQ handle the precise, surgical work with unmatched accuracy.

The intelligent Mix Assistant supercharges your workflow by analysing the track and suggesting an EQ setting that enhances the overall tonal balance.

With per-band saturation, M-EQ can be as transparent or as characterful as you like. Automatic gain compensation, mid-side processing, easy stereo balancing of individual bands, and variable slope low and high cut filters complete the package.

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Features

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- Band Range
- Band Gain
- Band Smart Curve
- Band Saturation
- Band Stereo Balance
- Band Solo
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Features

Band controls

At the heart of M-EQ are the three **Smart Curve bands**: Low, Mid, and High. Each band is highly adaptive, and the way you work with them is different from what you might be used to.

Rather than hunting for exact problem frequencies, you define broad regions that require attention. Set the range where you hear too much or too little energy, then dial in how much you want to add or remove. M-EQ will continuously adapt its curves to target the relevant parts of the frequency range, filling in gaps or reducing excess as needed. The surgical precision happens automatically, dynamically responding to the changing spectrum of your audio.

Band On/Off

“Band On/Off” enables or disables the band.



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Features

Band Range

“Band Range” sets the frequency range affected by the band.

The Range control also defines the base shape of the band’s curve. The intelligent adjustments made by M-EQ’s Smart Curves are confined by the band’s base shape, and will never exceed it. Therefore, the base shape of a band is the strongest adjustment the band is allowed to make.

- **Mid Band** is fixed to a bell base shape, with the width of the bell determined by the chosen range.
- **Low Band** has a variable base shape: as the bottom of the range approaches the minimum, the base shape morphs from a bell to a low shelf. The slope of the shelf is determined by the width of the range.
- **High Band** has a variable base shape: as the top of the range approaches the maximum, the base shape morphs from a bell to a high shelf. The slope of the shelf is determined by the width of the range.



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Features

Band Gain

“**Band Gain**” controls how much energy to add to or remove from the band’s frequency range. Smart Curves dynamically adjust how much boost or cut is applied to the frequencies of the band, but the amount never exceeds the set Gain.

Band Smart Curve

“**Band Smart Curve**” sets how much the band dynamically adapts to the incoming signal. When set above 0%, the band continuously measures the energy inside its frequency range and redistributes gain towards the areas that require it most. Boosts prioritise the less energetic parts of the signal, while cuts focus on removing energy from the loudest peaks.

This adaptive behaviour means you don't have to pinpoint the exact problem frequencies. Instead, you can set a broad target range and let M-EQ continuously find and address the frequencies that need adjustment as the audio evolves.

Lower Smart Curve values reduce this adaptive behaviour, making the band respond more like a traditional static EQ. At 0%, the band curve is fixed to its base shape.



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Features

Band Solo

“Band Solo” isolates the band so you can hear just the frequencies it affects.

Band Saturation

“Band Saturation” adds harmonic saturation to the frequency range of the band.

The style and intensity of the saturation effect for all bands is determined by the global Saturation Character control.

Band Stereo Balance

“Band Stereo Balance” allows you to pan the band effect between the stereo channels. The Balance slider affects both the gain adjustment and the saturation of the band.

Depending on the global “LR | MS” toggle state, the effect can be balanced between either Left and Right, or Mid and Side channels.



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Features

Filter Controls

M-EQ offers a pair of filters for cleaning up unwanted frequencies. The Low Cut filter attenuates everything below its Cutoff, making it easy to clean up low-end rumble and muddiness. The High Cut filter removes high-frequency energy above its Cutoff, helping tame brightness, hiss, and harsh edges.

Filter On/Off

“Filter On/Off” enables or disables the filter.

Filter Cutoff

“Filter Cutoff” sets the frequency where the filter starts attenuating unwanted spectral content.

Filter Slope

“Filter Slope” controls how steeply the signal is reduced beyond the Cutoff frequency. Higher values result in sharper filtering.



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Features

Mix Assist

The “**Mix Assist**” button enables the plug-in to capture and analyse the input and intelligently suggest an EQ configuration that improves the tonal balance of your track. M-EQ will capture 3.5 seconds of audio for the analysis. Make sure to play the busiest part of your track when capturing to get the best results.

Gain Compensation

“**Gain Compensation**” applies a fixed level adjustment based on the overall EQ curve to maintain consistent loudness with the input signal. The amount of compensation is estimated based solely on the EQ parameters, and does not depend on the input signal. This means that the amount of Gain Compensation never changes, unless you adjust an EQ parameter. Therefore, it is safe to keep Gain Compensation always enabled as it will never introduce any unwanted dynamic gain changes to your audio.



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Features

Mix Assist



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Features

Saturation Character

“**Saturation Character**” controls the style and intensity of the band Saturation effect. Higher values result in warmer and more driven saturation sound, while lower settings deliver subtle thickening.

Smart Curve Smoothing

“**Smart Curve Smoothing**” controls the scale of the Smart Curve dynamic adjustments. Lower values result in more precise and surgical Smart Curve adjustments, while higher values offer a softer and more gentle effect.

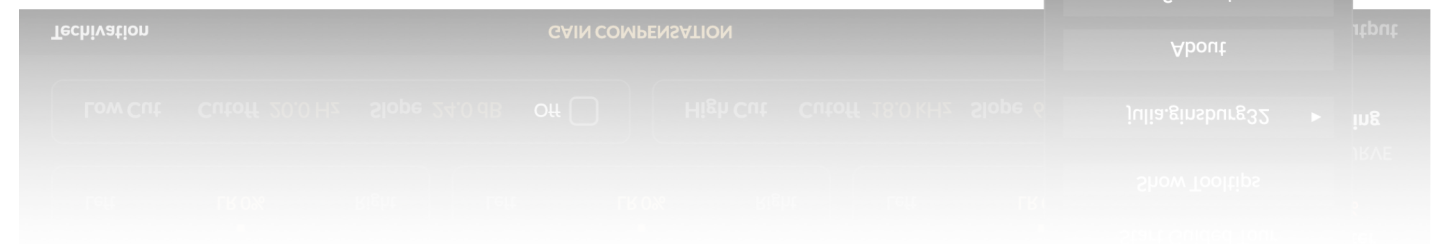


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Features

Saturation Quality

The “**Saturation Quality**” option in the main menu sets the oversampling amount for the band Saturation effect. Oversampling 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. You can choose from four settings to achieve the desired balance between performance and audio quality: “Standard (1X)”, “Good (2X)”, “Great (4X)”, or “Ultra (8X)”.



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Features

EQ Curve Display

The **EQ Curve Display** is a visual aid that helps you see what M-EQ is doing at a glance.

The golden curve represents the total spectral adjustment performed by M-EQ, updated in real time to show the dynamic Smart Curve corrections.

When you hover over one of the bands, the corresponding base shape curve is displayed in blue to help with setting the band parameters.

By default, the input spectrum visualiser is displayed behind the EQ curve to assist with your EQ decisions. Using the “Analyser Mode” option in the main menu, you can choose between showing the input or output spectrum, or completely disabling the spectrum visualiser to rely entirely on your ears.



EQ Display Scale

The “**EQ Display Scale**” option in the main menu sets the the vertical scale of the EQ curve graphic in decibels.

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Features

LR|MS

The “LR|MS” (Left-Right / Mid-Side) toggle switches M-EQ processing between LR (left-right) and MS (mid-side) modes. In LR mode, the plug-in processes the left and the right channels independently. If you need to preserve the stereo balance of your track, switch the processing to MS mode.

Output

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

Mix

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



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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.



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Features

Plug-in Menu

A quick menu of useful features:

- Undo
- Redo
- Saturation Quality
- Analyser Mode
- EQ Display Scale
- 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 **M-EQ** 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.



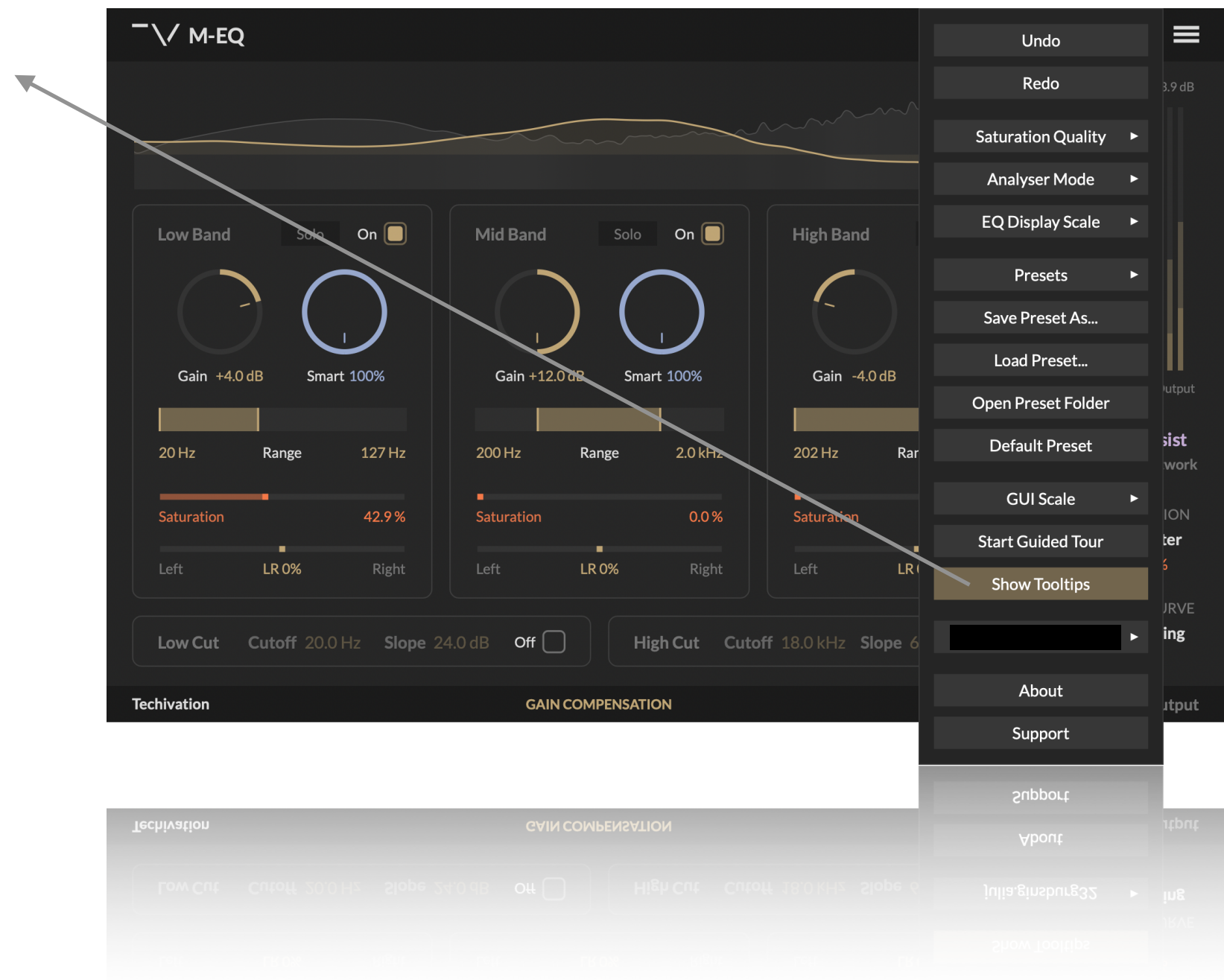
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Features

Tooltips

M-EQ features a handy "tooltips" option that you can enable or disable from the plug-in 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-EQ 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.

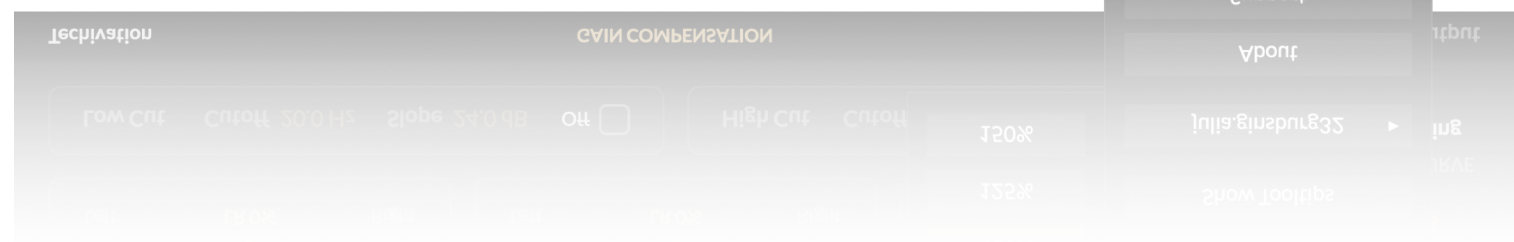


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Features

GUI Scale

The interface scaling feature in **M-EQ** 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-EQ** 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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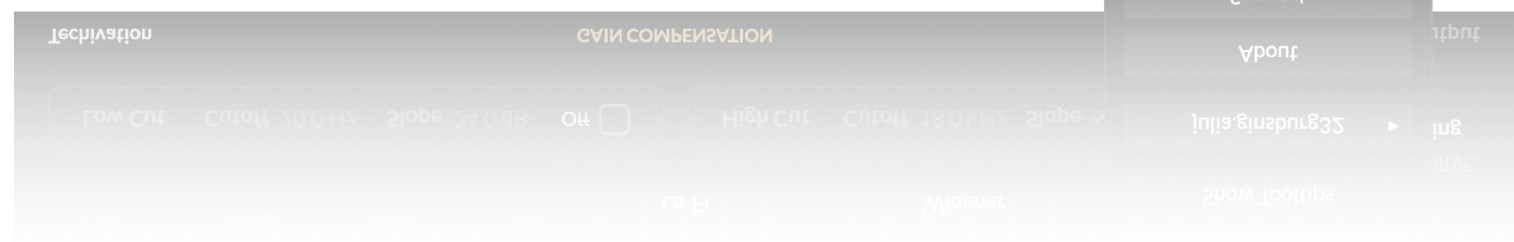
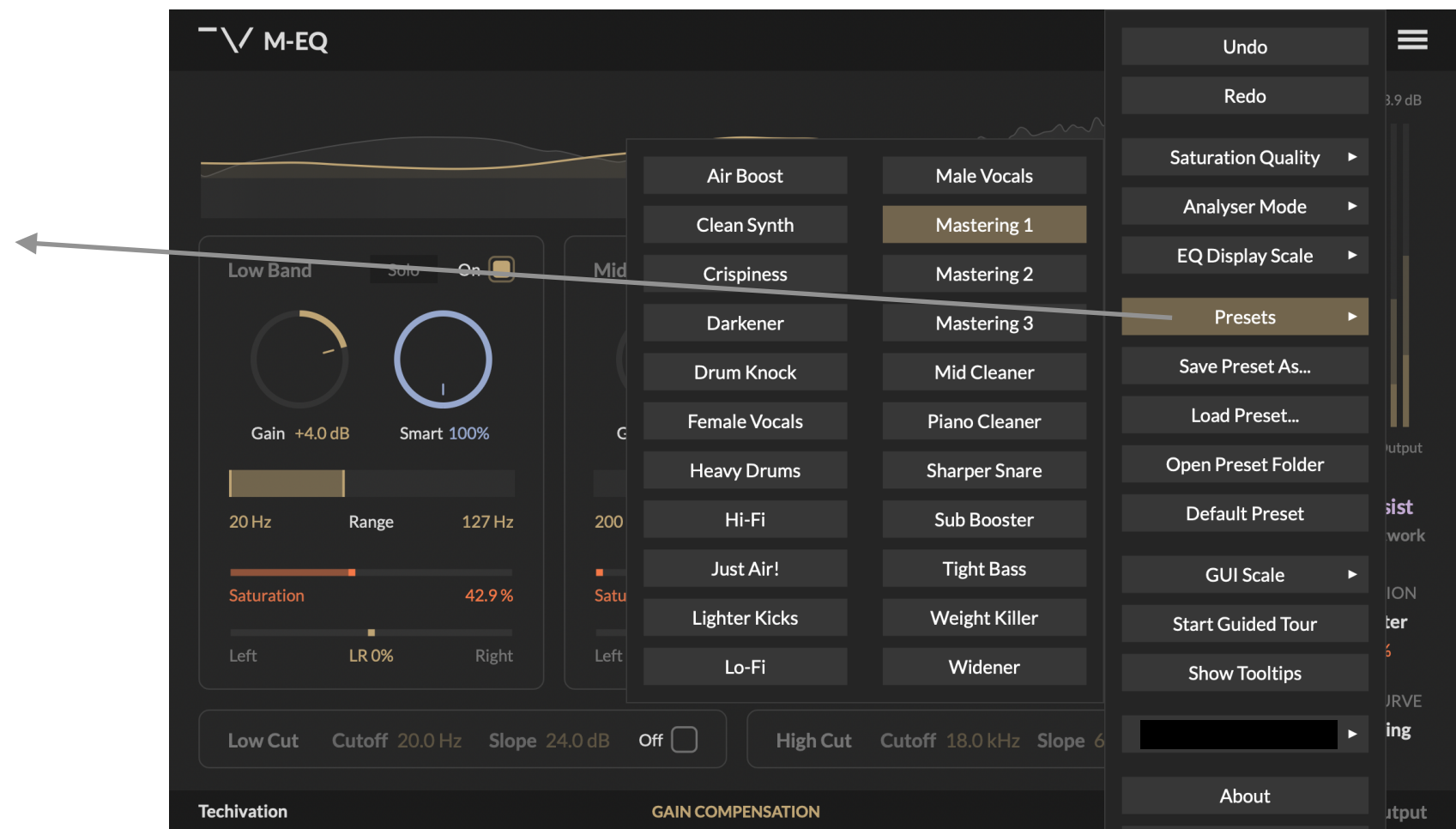
Features

Presets

The plug-in offers the convenience of 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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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-EQ 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-EQ 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

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.'