



1.0.0

USER MANUAL

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1.1 INTRODUCTION

Welcome to **Sonic Air**, a state-of-the-art audio processing plugin designed to enhance your music production with advanced high-frequency enhancement and air boosting capabilities. **Sonic Air** provides precise control over high-frequency exciters and air bands, delivering clarity and a smooth analog harmonic tone to your mixes.

1.2 KEY FEATURES

HF EXCITER

Enhances high-frequency content to add brightness and presence to your mix. The HF Exciter parameter allows fine-tuning of the exciter amount to achieve the desired level of enhancement.

CUTOFF FREQUENCY

Sets the cutoff frequency for the HF Exciter, allowing precise control over which frequencies are affected. This control ranges from 2000 Hz to 10,000 Hz.

MID AIR AND HIGH AIR

Provides dynamic enhancement for the mid and high-frequency ranges, adding air and clarity. These controls adjust the intensity of the enhancement, bringing out details in your mix.

TRIM

Adjusts the output gain after processing to ensure the final mix level is balanced. This control ranges from -12 dB to +12 dB.

SMART CLIP 0dB

Includes a dual-stage clipping mechanism to prevent digital clipping and maintain pristine audio quality at high output levels. This feature combines soft clipping, hard clipping, and soft limiting to ensure the output does not exceed digital zero, providing both protection and a pleasing analog-like distortion.

2.1 USER INTERFACE - MAIN CONTROLS



HF Exciter (%): Adjusts the amount of high-frequency excitation.

Cutoff Frequency (Hz): Sets the cutoff frequency for the HF Exciter.

Mid Air (%): Controls the enhancement level for mid frequencies.

High Air (%): Controls the enhancement level for high frequencies.

Trim (dB): Adjusts the final output gain.

Clip 0dB (On/Off): Engages the Smart Clip 0dB feature, which uses dual-stage clipping:

- **Soft Clipping**: Gradually limits the signal as it approaches the threshold, providing smooth distortion.
- **Hard Clipping**: Ensures that the signal does not exceed the threshold, providing absolute protection against digital clipping.
- **Soft Limiting**: Adds an additional layer of control, reducing peaks in a more musical manner, preserving the natural dynamics of the audio.

2.2 USER INTERFACE - ADDITIONAL CONTROLS

PRECISE MOVEMENTS

Holding down the 'Shift' key while adjusting a knob will enable you to make precise movements. Allowing for finer control over the audio processing parameters.

RESET KNOB

Right clicking a knob will reset its value. This action will restore the knob or fader to its default or initial position. Alt + click also works (MacOS: 'option' + click).

ADJUST VALUE

Double-clicking a knob allows you to adjust its value directly. This action provides a quick and intuitive way to fine-tune parameters with precision.

UNDO/REDO

Access Undo and Redo from the menu bar to easily correct or reapply changes. Undo reverses the last adjustment, preventing errors, while Redo restores it, essential for efficient workflow and precise edits.

GUI OPACITY

From the menu bar, users can adjust the GUI Opacity from 0% to 100%. This control allows for varying the transparency of the plugin interface, offering better visibility of underlying work areas or personal preference adjustments.

RESIZE

The interface can be resized from 70% to 200% of its original size via the menu bar. This feature accommodates different screen sizes and resolutions, ensuring Sonic Surge is accessible and comfortably usable on a wide range of devices and display settings.

PRESET MENU

Accessible from the menu bar, the Preset Menu provides a comprehensive interface for browsing, loading, and selecting factory presets, enhancing the ease of finding the right settings for any session. Additionally, users can Load/Save, and Copy/Paste presets.

SETTING THE HF EXCITER

Adjust the HF Exciter parameter to enhance the high-frequency content in your mix. A higher percentage will increase the brightness and presence. Use the Cutoff Frequency parameter to control which high frequencies are affected.

USING MID AIR AND HIGH AIR ENHANCEMENTS

Mid Air and High Air controls add clarity and detail to your mix. Start with small increments to avoid over-enhancement. Mid Air is useful for enhancing the presence of instruments and vocals, while High Air brings out the shimmer and brightness.

INTERNAL DYNAMIC ENHANCEMENT

The plugin uses an internal dynamic enhancement technique that applies soft clipping to add harmonic distortion. This processing step adds warmth and character to your mix, making it sound more analog-like and musical.

TRANSIENT ENHANCEMENT

The plugin automatically applies transient enhancement to high-frequency content, making percussive elements and other transient-heavy sounds more prominent without adding harshness. This internal feature ensures that your mix retains clarity and impact.

Presets can be downloaded from ravegeneration.io and are regularly updated.

The 'Presets' folder will be auto-generated after launching the plugin for the first time, the folder is stored at:

Windows: C:\Users\[username]\Documents\Rave Generation\Sonic Air\Presets

MacOS: /Users/[username]/Documents/Rave Generation/Sonic Air/Presets