



AUDIOSINGULARITY

Neurontube Rectify

User Manual - Version 1.0

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01 INTRODUCTION

Neurontube Rectify is a curated collection of analog equipment digitally reproduced with high attention to detail. The sound is heavily inspired by the 2000s era Mesa/Boogie Triple Rectifier amplifier platform (brand name not owned by or affiliated with AudioSingularity), including guitar pedals, amplifier behavior, cabinets, console coloration, and everything between them.

More than just recreating frequency response, Rectify focuses on interaction, dynamics, saturation behavior, and the physical feel of playing through real equipment. Whether you're recording heavy rhythm guitars, soaring leads, or ambient textures, Rectify delivers a complete guitar tone ecosystem inside a single plugin.

Neural Modeling	Captures real amplifier dynamics, feel, and harmonic behavior
Channels	Clean, Crunch, and High Gain – three distinct personalities
Cabinet Section	Integrated IR processor with multiple cab and mic options
Effects	Gate, Pitch Transpose, Tape Delay, Reverb
Console Section	Analog-style tube saturation and harmonic coloration
Stereo	Full stereo operation with Wide function
Formats	VST3, AU (macOS), AAX, Standalone

02 INSTALLATION

Download the installer from audiosingularity.com and follow these steps:

1 – Download	Visit audiosingularity.com/downloads for your OS installer.
2 – Run Installer	Launch the installer and follow the on-screen instructions.
3 – Select Formats	Choose VST3, AU (macOS only), AAX (macOS only), and/or Standalone.
4 – Open DAW	Launch your DAW. Rescan plugins if Rectify does not appear.
5 – Insert	Add Neurontube Rectify to an audio track and start playing.

Supported Formats

Format	Windows	macOS	Linux
VST3	✓	✓	✓
AU	—	✓	—
AAX	—	✓	—
Standalone	✓	✓	✓

On Linux, plugin discovery paths may vary depending on your DAW and distribution.

03 ACTIVATION

An internet connection is required for first-time activation.

1	Open Neurontube Rectify in your DAW or standalone application.
2	Enter your registered email address when prompted.
3	Enter your license key exactly as received – copy/paste recommended.
4	Click Activate. The plugin verifies your credentials online.
5	Once confirmed, Rectify is fully unlocked and ready to use.

04 SYSTEM REQUIREMENTS

macOS		Windows / Linux	
OS	Big Sur or newer	OS	Windows 10 or newer
CPU	Apple Silicon or Intel	CPU	Intel or AMD
RAM	8 GB recommended	RAM	8 GB recommended
Formats	AU, VST3, AAX	Formats	VST3

05 QUICK START GUIDE

Create a Track	Stereo tracks are recommended for the full experience. Mono is fully supported.
Insert Plugin	Add Neurontube Rectify as an insert effect on your guitar track.
Set Input Mode	Choose Left, Right, or Stereo based on your interface routing.
Browse Presets	Load a factory preset to start from a great base tone immediately.
Dial Your Sound	Explore amp channels, cabinets, and effects. Turn knobs, push limits, experiment.

Rectify was designed around an analog workflow. Explore it the same way you would explore real hardware – turn knobs, try combinations, and push controls creatively.

06 SIGNAL FLOW OVERVIEW

INPUT	GATE	TRANSCOPE	PRE FX	AMP	CABINET	POST FX	CONSOLE	OUTPUT
Input								Gain staging and level control before any processing.
Gate								Noise gate – removes unwanted noise during silent passages.
Transpose								Real-time pitch shifting for alternate tunings.
Pre FX								Pedals placed before the amplifier: overdrives, boosts, filters.
Amplifier								The core neural-modeled amplifier with three channels.
Cabinet								IR-based speaker and microphone simulation.
Post FX								Time-based effects after the cabinet: delay, reverb.
Console								Analog-style tube saturation and harmonic coloration.
Output								Final level trim before the signal leaves the plugin.

07 MAIN INTERFACE

The top section provides direct access to the full signal chain from a single view:

Input Volume

Noise Gate

Pitch Transpose

Input Mode Selector

Tuner

Pre FX Pedals

Amplifier

Cabinets

Post FX Pedals

Console

Wide Function

Mute

Output Volume

08 INPUT SECTION

Input Control

Adjusts the signal level entering the plugin. Avoid clipping and leave headroom for dynamic playing.

Input Mode

Selects how Rectify receives incoming audio from your interface.

Left	Left channel only. Ideal for odd-numbered interface inputs (1, 3, 5...)
Right	Right channel only. Ideal for even-numbered inputs (2, 4, 6...)
Stereo	Both channels. Use for stereo guitars, synths, or stereo reamping.

09 AMPLIFIER SECTION

Channels

Clean	Dynamic, open, responsive. Ideal for ambient textures, edge-of-breakup tones, and pedal platforms.
Crunch	Classic driven tones with harmonic richness. Ideal for hard rock, classic metal, and tight rhythms.
High Gain	Aggressive saturation for modern heavy guitar, downtuned instruments, and lead tones.

Controls

Gain	Amount of preamp distortion and saturation.
Bass	Low frequency response.
Mid	Midrange character and mix presence.
Treble	High frequency response and brightness.
Presence	Upper harmonic attack and bite.
Master	Overall output level and power amp interaction.

10 CONSOLE SECTION

The console section introduces analog-style tone shaping and tube saturation inspired by studio hardware. It adds depth, color, and harmonic richness to help guitars cut through dense mixes.

Tube Saturation

The Console Tube knob is highly sensitive and adds substantial analog-style tube saturation. Higher settings increase harmonic content and perceived presence, but also raise the noise floor and CPU usage. Setting the knob to zero reduces both latency and CPU load.

Use the gate to control noise at higher Tube settings. Avoid excessive saturation on already compressed tones.

11 CABINET SECTION

Integrated impulse response (IR) processing for realistic speaker and microphone simulation. Multiple cabinet models and microphone options allow precise control over the speaker response.

Cabinet Models	Multiple types modeled from real speaker enclosures.
Microphone Options	Several mic models with distinct tonal characters.
Position	Microphone placement relative to the speaker cone.
Distance	Microphone distance for room interaction control.
Room Simulation	Adds realistic room ambience and early reflections.
Bypass	Disable the cabinet for use with external IR loaders or direct output.
External IR	Load any third-party IR via "Load External IR..." in the mic list.
Phase Alignment	Imported IRs are automatically phase-aligned for coherent blending.

12 EFFECTS SECTION

Noise Gate

Reduces noise and hum during high-gain playing, especially during silent passages.

Pitch Transpose

Real-time pitch shifting for alternate tunings without retuning your guitar. Some audible artifacts are expected due to the real-time cut/resample/crossfade processing. CPU intensive – disable for lowest latency.

Delay

Stereo ping pong delay with tap tempo. Operates in full ping pong mode when cabinets are panned in stereo.

Time	Delay time in ms or synced to DAW tempo.
Feedback	Number of delay repeats.
Mix	Dry/wet blend.
Tone	Frequency character of the delay repeats.
Tape/Digital	Blends warm tape character with clean digital precision.

The tape delay bias parameter can be automated directly in your DAW.

Reverb

Modes	Multiple algorithm types: room, hall, plate, shimmer, and more.
Tone	Tonal character of the reverb tail.
Size	Space size and decay length.
Mix	Dry/wet blend. Shimmer mode allows fully wet operation for ambient processing.

13 STEREO TOOLS

Wide Function

Expands the stereo image. Useful for practice and live playing. May introduce phase artifacts on some material – use with care in critical mix situations.

14 OUTPUT SECTION

The Output control sets the final plugin output level after all processing. Use to match levels with other tracks or compensate for gain changes in the chain.

15 PRESET SYSTEM

Factory presets provide both ready-to-use tones and starting points for customization.

2000s Metal	Thick, saturated tones inspired by the classic Mesa/Boogie era.
Metalcore	Tight low-end, scooped mids, aggressive attack.
Hardcore	Raw, punchy, mid-forward rhythm tones.
Modern Metal	High-definition clarity with extreme gain.
Rock	Versatile crunch and driven tones for hard rock.
Lead Guitar	Singing sustain and presence for soloing.
Ambient	Wide, atmospheric presets with lush reverb and delay.
Clean	Dynamic, sparkly cleans for arpeggios and chord work.
Studio Ready	Mix-optimized presets for immediate use in productions.

Import & Export

Export (E X P O)	Press the keys in sequence to export all user presets.
Import (I M P O)	Press the keys in sequence to import presets from a file.

Importing overwrites all current user presets. Factory presets are always preserved.

16 STANDALONE VERSION

Use Neurontube Rectify without opening a DAW – ideal for practice and tone exploration.

Audio Device	Select your interface and configure sample rate and buffer size.
Monitoring	Low latency direct monitoring for real-time playing.
Presets	Full access to all factory and user presets.

17 PERFORMANCE & OPTIMIZATION

Pitch Transpose	CPU intensive – disable during tracking and monitoring.
Console Tube	Setting to zero reduces latency and CPU significantly.
Console Off	Disabling the Console section entirely gives peak efficiency.
Buffer Size	Increase if experiencing crackles under high CPU load.
Multiple Instances	Keep Transpose off and Tube at zero for large sessions.

For minimum latency – live tracking, monitoring, large sessions – disable Pitch Transpose and keep Console Tube at zero.

18 TROUBLESHOOTING

Plugin Does Not Appear in DAW

- Perform a manual plugin rescan in your DAW preferences.
- Verify the installation path matches your DAW's scan paths.
- Confirm your DAW supports the installed plugin format.

No Sound

- Verify your audio interface is selected.
- Check input monitoring is enabled on the track.
- Confirm the cabinet section is active (not bypassed).
- Check input and output levels.

Crackles or Dropouts

- Increase the audio buffer size.
- Close background applications consuming CPU.
- Update your audio interface drivers.
- Disable Pitch Transpose and reduce Console Tube.

High CPU Usage

- Disable Pitch Transpose when not in use.
- Set Console Tube to zero or disable the Console section.
- Freeze tracks with Rectify when not actively editing.

19 FAQ

Q: Is Rectify compatible with Apple Silicon?

A: Yes. Runs natively on Apple Silicon via AU and VST3.

Q: Does Rectify support DAW automation?

A: Yes. All major parameters support automation, including the tape delay bias.

Q: Can I use third-party impulse responses?

A: Yes. Load any IR via "Load External IR..." in the cabinet section. IRs are auto phase-aligned.

Q: Is stereo recommended?

A: Yes. Several presets and features including ping pong delay and console panning are designed for stereo. Mono is fully supported.

Q: Is Rectify available on Linux?

A: Yes, as a VST3 plugin. Plugin paths may vary by DAW and distribution.

Q: What happens when I import presets?

A: All current user presets are overwritten. Factory presets are always preserved.

Q: How do I reduce CPU usage?

A: Disable Pitch Transpose and set Console Tube to zero, or disable the Console section.

20 CREDITS & SUPPORT

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