Temperance™ Lite

User Guide

Eventide®

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Eventide Inc.
One Alsan Way
Little Ferry, NJ 07643
201-641-1200
www.eventide.com

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Welcome

PART 1



1.1 About this Product

Thank you for using Eventide's Temperance™ Lite plug-in. Temperance Lite is a new Eventide reverb effect capable of producing unique spaces and out-of-this-world musical soundscapes. For over 50 years, innovative effects like these have made Eventide an industry leader, and we are proud that they continue to be in demand today.

Before you forget, please take a few minutes to register online. This helps us keep you informed of any important software updates and provide you with special offers that may only be available to registered users.

Temperance Lite **PART 2**

Temperance (*Tempered Ambiance*) Lite is another unrivaled Eventide take on reverberation. From doubling as a high quality studio reverb, pushing or pulling musical notes through a room, to creating unique filtered effects, Temperance Lite inspires the user to navigate these soundscapes with its unique capabilities and intuitive controls.

2.1 Under the Hood

Modal Reverb

Similar to the way an audio signal can be deconstructed into a series of individual sine waves, the idea behind a *Modal Reverb* is to break down a reverberant space into its individual resonances, or *modes of vibration*. We're calling this its Modal Response.

Each mode of vibration can then be re-created with a resonant filter that "rings" when stimulated. Imagine it's a tuning fork that vibrates with a specific frequency & unique characteristics when struck. If enough of these filters or tuning forks are combined, in theory you can create any type of reverberation.

And each one of Temperance Lite's Modal Responses (MRs) use thousands of these modes to create both original and familiar, highly detailed reverberant spaces.

Tempered Ambiance

Having access to the individual modes of a reverb affords many avenues for sound exploration. By assigning musical relevance to specific groups of modes, we can emphasize or de-emphasize the musical tuning of our reverb. In essence, Temperance Lite really can become a *Tempered Ambiance*.

2.2 Navigating the Plug-In

Temperance Lite's user interface is designed with an emphasis on user control and playability. Specifically, the knobs and control elements are easily adjusted with an up-and-down motion of the mouse/finger. Fine-tune drag is available via the ⌘ (Mac) or Ctrl (Windows) modifiers.

2.3 Tempering the Reverb

The plug-in window for Temperance Lite contains three components that determine the musical tuning (Tempering) of the reverb:

Tempering Controls

Temper Knob — Use this control to set the *amount* of tempering applied to the reverb.

Note Enable Buttons — Use these twelve buttons to *select* which musical notes will be applied when tempering the reverb via the Temper knob.

Temper Range Sliders — Use these two controls to determine which *section* of the reverb's spectrum to temper.

Temper Knob

At the heart of Temperance Lite lies its main Temper knob which has ultimate control over the amount of musical tuning (Tempering) applied to the reverb. The Temper knob must be set left or right of center to hear any of the effects of the other Tempering Controls.



Turning the Temper knob to the right will emphasize the resonances at the musical notes set by the currently selected Note Enable buttons while de-emphasizing all other components of the reverb.

When fully right, only the musically resonances set by the Note Enable buttons will be heard in the reverb.

Turning the Temper knob to the left of center will de-emphasize reverb resonances at the musical notes set by the currently selected Note Enable buttons while emphasizing all other components of the reverb.



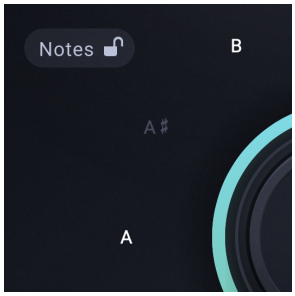
Note Enable and Temper Range controls will not affect the sound when the value of the Temper control is 0 (centered at 12:00).

Note Enable Buttons

The Note Enable buttons determine which notes of the Western 12-tone Equal Temperament scale will be used to temper the reverb. Each note selected by the Note Enable buttons are tempered across all octaves of the audio spectrum.

Single-clicking the Note Enable buttons or click-and-drag gestures around the note circle will toggle their active/inactive states.

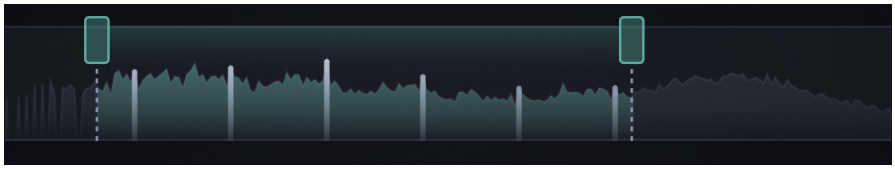
⌥ clicking on Mac or Alt clicking on Windows will reset/deactivate all notes if any are active, or activate all notes if all are deactivated.



Notes Lock — Use this button to lock the current Note Enable buttons to prevent preset changes from overwriting selected notes.

Temper Range Sliders

Use the Temper Range sliders to determine which section of the reverb's spectrum will be tempered by the other Tempering Controls.



Any section(s) outside the Temper Range sliders will remain un-tempered by the other Tempering Controls. Since selected notes are repeated across octaves, the Temper Range sliders are a way to focus the tempering to a specific portion of the reverb.

Controls

Low Temper Range
20Hz-20kHz
Adjusts the low frequency limit to temper the reverb. Any section of the reverb left of the slider will not be tempered.

High Temper Range
20Hz-20kHz
Adjusts the high frequency limit to temper the reverb. Any section of the reverb right of the slider will not be tempered.

Center Drag
20Hz-20kHz
Grab and drag anywhere between the Temper Range sliders to adjust both at the same time.

2.4 The NoteScape Visualizer

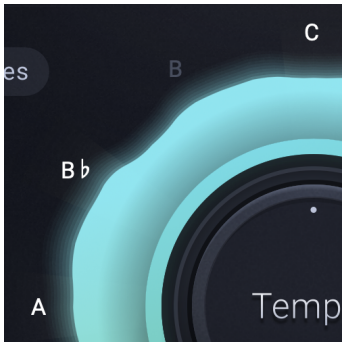
Organizes and displays the levels of musically emphasized and de-emphasized components in Temperance Lite's *wet* output. The NoteScape Visualizer takes all the energy and sums it into a one-octave circular meter around the Temper knob.

The NoteScape Visualizer dynamically responds to all reverb controls however, only the energy inside the Temper Range sliders will be displayed by the NoteScape.

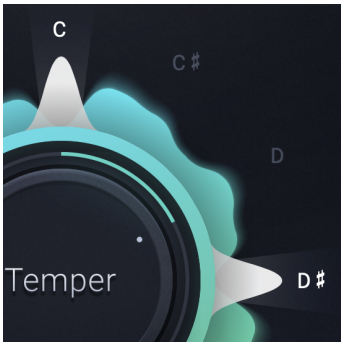
No Tempering

When the Temper knob is centered, no musical tempering is applied and Temperance Lite behaves like a normal reverb.

Although the NoteScape's outer ring displays the notes of the currently selected Note Enable buttons, the meter reflects the continuous energy distribution of the reverb.



Tempering



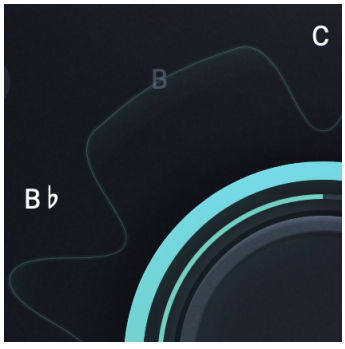
As Temper is set to the right and the reverb begins to emphasize musical notes, the NoteScape 's contours and colors reflect this new energy distribution.

Musical energy is differentiated from everything else, with each note contour representing its total across all octaves of the audio spectrum.

NoteScape Guide

Shows the anticipated outline of the NoteScape when adjusting Temper knob and Note Enable buttons settings. Use the guide as a helpful tool for understanding how these controls affect the sound of the reverb.

The NoteScape Guide will appear only when interacting with the Temper knob and Note Enable buttons.



2.5 The Spectrum Analyzer

The Spectrum Analyzer plots Temperance Lite's audio frequencies (x-axis) vs levels (y-axis) of the reverb's ***wet*** output.

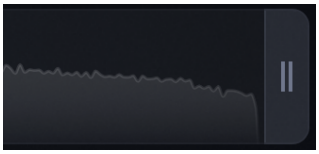


In addition, when the Temper knob is set to the right, the Spectrum Analyzer highlights which parts of the audio spectrum are considered notes (shown in white) as determined by the *currently selected* Note Enable buttons.

When the Temper knob is set to the left, the Spectrum Analyzer will begin to darken selected notes, fully removing them from the plot when the Temper knob reaches its left endpoint.

Any section of the reverb outside of the Temper Range sliders will not be affected the by the other Tempering Contols and will appear gray in the Spectrum Analyzer.

Lowcut & Highcut Range Sliders



At the ends of the Spectrum Analyzer are two sliders that control the bandwidth of Temperance Lite's wet output via Lowcut & Highcut Filters.

Controls

Lowcut Slider
20Hz-20kHz

Adjusts the low frequency limit of the reverb's wet output. Moving from left to right removes reverb low-end.

Highcut Slider
20Hz-20kHz

Adjusts the high frequency limit of the reverb's wet output. Moving from right to left removes reverb high-end.

Center Drag
20Hz-20kHz

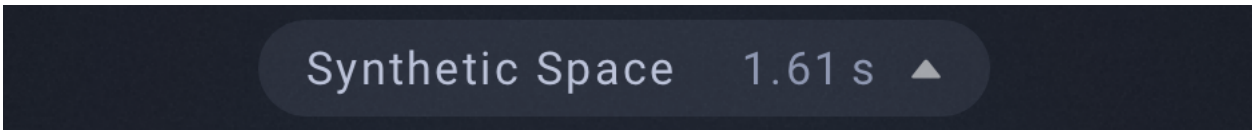
Adjusts both sliders together for cool filtering effects. Grab and drag somewhere between the Lowcut/Highcut sliders and below the Temper Range sliders to utilize.

2.6 Main Reverb Controls

Temperance Lite's other controls, though not used for tempering, can have a great impact on the overall sound of the plug-in. Below is a list of all its other controls:

Modal Response (MR) Dropdown

Selects the Modal Response (the foundational reverb sound of the plug-in) and displays its decay time (RT60) as of function of both the Decay and Size controls.



One of the advantages of a *Modal Reverb* is its inherent flexibility in creating different types of reverberation from natural spaces, hardware/software emulations, to completely novel synthetic sounds. Below is the list of available MRs in Temperance Lite:

Bright Room
3.25 s
Recreation of an FDN-based (feedback delay network) digital reverb in Eventide's SP2016 signal processor hardware.

Large Studio
1.86 s
Recreation of a large and well-balanced recording studio's live room.

Synthetic Space
1.61 s
A theoretical large space with an altered dispersion that causes higher frequencies to arrive slightly ahead of lower ones.

Other Controls

Pre-Delay
0-2 seconds
Sets the amount of delay before the reverb.

Mix
0-100%
Adjusts the balance between the dry and wet signals at the output. When centered, the default value is 50%.



Special thanks to Ralph Kessler of Pinguin Ing.Buero (www.masterpinguin.de) for his carefully recorded IRs used in the analysis and creation of the Large Studio MR.

Mix Lock
ON-OFF

Locks the current Mix setting, useful for auditioning presets without changing your dry to wet balance.

Decay
0.01-30x

Adjusts the overall decay time of the reverb. This is a multiplier applied to the base MR selected and scales the decay time accordingly. When centered, the default multiplier is 1x.

Size
50-200%

Scales the size of the currently selected MR by adjusting the frequencies and decay times of the modes. Affects reverb decay length and RT60 will be adjusted accordingly. When centered, the default value is 100%.

Output Level
-60-+12dB

Slider that adjusts the levels coming out of Temperance Lite. This will affect both the dry and wet signals.

Bypass
ON-OFF

Engage to bypass the entire plug-in. When bypassed (lit red), audio output is fed directly from input.

Global Tuning Parameters

Use the Tuning Fork icon located to the right of the MR Dropdown to bring up the Global Tuning Parameters dialog. From here, you can edit:



Reference Frequency
400-500Hz

Adjusts the ***absolute*** global tuning reference used for Tempering. 440 Hz is the default setting following the ISO 16:1975 standard for A4 above middle C.

Fine Tune
-50-+50 cents

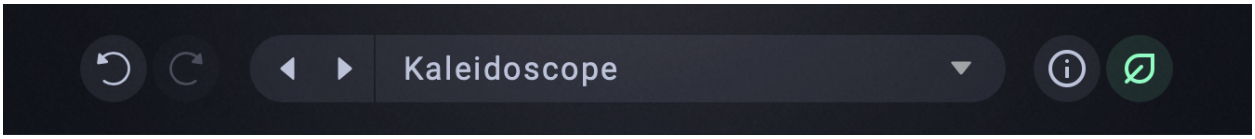
Adjusts the ***relative*** global tuning of the notes selected by the Note Enable buttons used for Tempering. Each musical semitone is 100 cents. Adjustment is ***relative*** to tuning set by the the Reference Frequency control. 0 cents is default.

Both Reference Frequency and Fine Tune settings are saved uniquely with each instance of Temperance Lite (not per preset).

An orange dot next to the fork indicates a change from default of either Reference Frequency or Fine Tune.

Preset Bar

PART 3



Located at the top of the Temperance Lite Plug-In, the Preset Bar lets you load and save presets, along with several other features.

When Temperance Lite is installed, the factory preset library is placed in the following platform-specific location:

Mac	`<user>/Music/Eventide/Temperance Lite/Presets`
Windows	`<user>/Documents/Eventide/Temperance Lite/Presets`

Within the `Presets` folder are two sub-folders: `Factory Presets` and `User Presets`. The first contains the presets that come with the plug-in. The second is for storing any presets that you create. You can create sub-folders within the `User Presets` folder for organizing your presets if you wish. Presets for Temperance Lite have a **.tidex** extension and can be saved or loaded from the Temperance Lite preset bar in any supported DAW.

> ⚠ *Many DAWs offer an additional generic preset bar that saves DAW-specific presets to a separate location. We strongly recommend only saving your presets using the Temperance Lite preset bar to ensure that your presets will be accessible from any DAW and fully compatible with the plug-in.*

Controls

Undo The Undo button undoes the last change, and restores the plug-in to the previous state. Pressing this button multiple times will move you backwards in the plug-in's state history.

Redo The Redo button reverses the last undo command, if any. Pressing this button multiple times will move you forwards in the plug-in's state history.

Previous Preset Loads the preset before the current preset in the preset menu.

Next Preset Loads the preset after the current preset in the preset menu.

Preset Chooser Choose a preset from the Factory or User preset collections.

- **Save as...** Save the preset with a new name or location.
- **Load...** Open a preset from a location on disk.
- **Import...** Copy a preset from a location on disk into the User preset collection.

Info Icon Opens a drop-down menu with various help topics and settings.

- **User Guide** – Open this document.
- **Webpage** – Launches the Temperance Lite webpage.
- **Accidentals** – Choose the preferred accidentals used for the Note Enable buttons (sharps or flats).
- **Tooltips** – Select to activate/deactivate Tooltips for all controls.

Eco Mode Raises or lowers the total mode count used to create the Modal Response, affecting the overall CPU load. Turn the leaf green to enable **Eco Mode** and save some CPU cycles for more instances of Temperance Lite.

Conclusion

PART 4

We hope you enjoy the Temperance Lite plug-in and put it to good use in all of your mixes. Please be sure to check out Eventide's other native plug-in offerings for more unique and interesting effects.

For further questions or support, head over to the user forums.