Outer Space 2

User Guide

v2.0

Outer Space 2

The Space Echo Plugin

Outer Space is a faithful emulation plugin of a famous vintage tape echo made in the early seventies.

As the original unit, Outer Space features a tape echo section with three playback heads and two spring reverb tanks.

We have modelled three different tape frequency responses and saturations, along with all the analog imperfections of tape recording/playback.

We have also modelled the ballistic response of the delay rate (repeat rate) which can create eerie pitch shifts (due to the Doppler effect), one of the classic tape echo-based sound effects.

Installation

macOS

• Double click on the DMG archive to extract it
• Right click on the PKG installer and click open
• Follow the instructions to install the plug-in(s)

Windows

• Extract the ZIP archive
• Double click on the setup file (.exe)
• Follow the instructions to install the plug-in(s)

Linux

• Extract the tarball archive
• Run ./install.sh
• Follow the instructions to install the plug-in(s)

Registration

You can open the registration window by clicking on the icon ☰ next to the bypass button, in the top-right corner.

Online

- If you haven't created an account yet, you can [sign up here](#)
- Just input your credentials into the text fields and click on Log In.

Offline

- Download the license file from your [account](#).
- Just drag and drop the license into the registration window or click on the *Load License File* button and browse to the downloaded license.

Parameters

Input	Controls the volume of the input signal
Output	Controls the volume of the output signal
Mode Selector	Chooses between 12 different modes (see below)
Bass	Boosts/cuts the low frequencies of the echo signal
Treble	Boosts/cuts the high frequencies of the echo signal
Decay	Selects a short or long decay for the spring reverb
Type	Selects a dark or bright type of spring reverb tank
Reverb Volume	Controls the amount of reverb signal
Repeat Rate	Controls the rate of the echo signal, emulating the changes in speed of the tape
Intensity	Controls the amount of feedback, increasing the amount of repetitions in the echo signal
WOW/Flutter	Controls the amount of pitch and volume imperfections
Echo Volume	Controls the amount of echo signal
Send	Also known as "Dub" switch, when set to off the echo section will not receive any input, but will continue to play any feedback
Wet Only	Disables the Dry signal
Noise	Controls the amount of background noise
Tone	Changes the tone of the background noise
Envelope	Enables/disables the envelope to activate the noise only when an input signal is passing through
Sync	Syncs the delay time to the host/DAW BPM

Preamp	Toggles the preamp emulation on the input on/off
Oversample	You can oversample the Echo section and/or the Preamp section
Sot Clip	Toggles the soft limiter on/off
HQ	Toggles the HQ mode on/off, it may increase the CPU usage
EQ to Reverb	By default, the EQ section affects the Echo section only by enabling this option, the EQ will also affect the Reverb section
Mono Sum	When the plugin is loaded on a stereo track, enabling this will merge both left and right channel
Stereo	Toggles an additional delay only on the right channel
Delay	Controls the amount of delay to apply to the right channel
Touch	Emulates pitch modulation when touching the tape/heads
Drop	Emulates volume drops when touching the tape/heads
Tape Type	Selects between three kinds of tape emulations
Vol (1, 2, 3)	Controls the volume for the selected head
Pan (1, 2, 3)	Controls the pan for the selected head
Low Cut	Controls a high-pass filter inside the feedback loop
Hi Cut	Controls a low-pass filter inside the feedback loop
Drops	Controls the amount of volume loss in the tape emulation
Pre-Emphasis	Boosts high frequencies before the tape emulation section
Rate Ballistic	Adjusts the amount of time the Repeat Rate knob takes to get to the desired value
Variable Speed	Adjusts the Repeat Rate by an additional +/- 50 ms

Head Selectors

The head selectors control the delay time for each head in milliseconds.
You can also sync the time to the host/DAW BPM by clicking on the Sync switch.

Tape Modelling

We've modelled three different tape types. The original **RT-1L**, a more **modern** replacement, and an **older** worn-out tape. Each tape will affect the sound in a subtle but different way, especially at higher feedback (*Intensity*) settings.
WOW/Flutter, *Drops*, and other parameters will also change according to the selected tape, creating different amounts of pitch and volume changes.
Changing the speed of the repetitions (*Repeat Rate*) will also affect the tape frequency response.

Mode Selector

Just like the original unit, with the Mode selector you can choose 12 different combinations of echo playback heads and reverb (4 Echo only, 7 Echo+Reverb, 1 Reverb only).
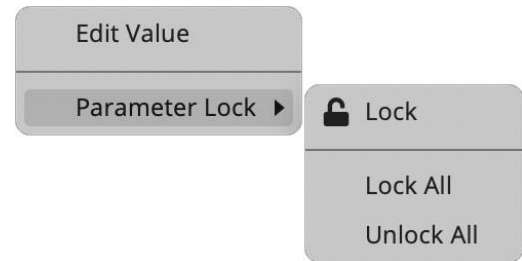
	ECHO				ECHO + REVERB							REVERB
	1	2	3	4	5	6	7	8	9	10	11	12
HEAD 1	•				•			•		•	•	
HEAD 2		•		•		•		•	•		•	
HEAD 3			•	•			•		•	•	•	
REVERB					•	•	•	•	•	•	•	•

Features

Parameter Lock

If you want to keep the value of one or more parameters while changing presets, or when using the randomizer button, you can use the *Parameter Lock* feature.
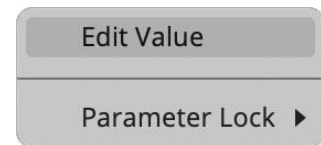
Right click on a parameter and choose *Parameter Lock*.

Lock / Unlock	If locked, the parameter won't be updated when changing presets
Lock All	Locks all parameters
Unlock All	Unlocks all parameters

Edit Value

You can also manually change the value for knobs and sliders. Right-click on a parameter and choose *Edit Value*. You can also access this feature with SHIFT + Click.

By clicking on the icon ☰ you can access additional features.

Clear Buffer

When enabled, every time your host/DAW starts playback or resets, the plugin will clear the feedback loop of the Echo section. You have two options: Host Playback and Host Reset. Since every DAW is different, you might need to try both settings to see what works best in your system.

Oversample

You can enable the oversample on the Echo section, Preamp section, or both.
The CPU will increase, but the aliasing will be highly reduced.

Tolex Case Sound

If this option is enabled, by clicking on the tolex case in the interface you can hear a "thump" sound. If the reverb is enabled, you'll be able to hear the spring reverb sound, almost like when you hit the real hardware…which you shouldn't do!

Window Size

You can resize the plugin window using three predefined sizes (*small, standard, big*). You can also resize the plugin window by clicking and dragging the bottom-right corner of the interface. Double-clicking will reset to the standard size.

Preset Copy / Paste

You can easily share presets by using this Copy/Paste feature.

Copy to Clipboard   The status of all parameters will be saved to the Clipboard

Paste from Clipboard   Load a preset from the Clipboard

Enable / Disable Notifications

You can enable or disable the notifications for updates and news (shown by the bell icon). This option is global and it will affect all AudioThing plugins.

Swap Mouse Buttons

If you are using the right button as your primary mouse button, the plugin might not recognize it. Use this option to enable it internally in the plugin.
This option is global and it will affect all AudioThing plugins.

GUI Acceleration

You can enable or disable the GUI acceleration supported by your system.

End

Where is everything?

The installer will place the plugins, presets, and other data in these folders.

macOS

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/*

CLAP   */Library/Audio/Plug-ins/CLAP/*

Data   */Users/Shared/AudioThing/*

Windows

VST   *custom path from installer*

VST3   *\Program Files\Common Files\VST3*

AAX   *\Program Files\Common Files\Avid\Audio\Plug-Ins*

CLAP   *\Program Files\Common Files\CLAP*

Data   *\Users\Public\Public Documents\AudioThing*

Linux

VST   *~/.vst/*

VST3   *~/.vst3/*

CLAP   *~/.clap/*

Data   *~/.local/share/AudioThing/*

Credits

DSP & Code   *Carlo Castellano*

Design   *John Gordon*

QA   *Giuseppe Marrazzo*

EULA

Please visit www.audiothing.net/eula/ to review this product EULA.

Thank You

Thank you for your purchase! We hope you will have as much fun using it as we had making this product.

For support, please visit www.audiothing.net/support/

For further help or any questions, please contact us here: www.audiothing.net/contact/

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