

SPEAKERS

USER GUIDE

v1.1

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SPEAKERS

<u>Speakers</u> is a plugin that simulates **speakers** and **microphones** using our state-of-the-art convolution engine.

Shape any sound to give the illusion that it's being played by an old telephone, radio, or classic cabinet; or shape it like it's being recorded by a vintage ribbon microphone or even a toy recorder.

Apply EQ, distortion, compression, filtering, and background noise to your tracks. The signal flow is fully customizable.

Speakers is a zero-latency* post-production dream plugin. No iLok or any other dongle required!

Speakers features:

- **50 speakers:** cabinets, devices, phones, radios, speakers, toys
- **32 microphones:** condensers, dynamics, phones, ribbons, and more
- **18 distortion/degradation algorightms:** from carbon mic overdrive to GSM interference
- 42 background noises: devices, places, organic, and more

INSTALLATION

MAC OS

- 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)

REGISTRATION

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

You can choose between Online and Offline authorization.

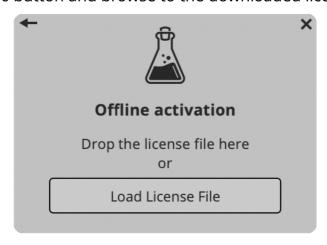
ONLINE

- If you haven't created an account yet, you can <u>signup here</u> using the same email address used at check out.
- Just input your credentials into the text fields and click on Log In



OFFLINE

- Download the license file from your account.
- Copy the file to your offline computer.
- 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

LIST

Microphone / Speaker

Pitch Changes the pitch of the impulse response

Echo Controls the time of the impulse response echo

Feedback Controls the feedback of the impulse response echo

Balance Controls the balance/pan of the wet signal

Mix Controls the mix between dry and wet signal

Output Controls the amount of output gain

Phase Inverts the phase of the signal, it can useful to avoid phasing issues

Distortion

Type Selects between the different types of distortion or degradation

algorithms: Carbon Mic, Classic, Diode Clipper, Foldover, Soft Drive,

Tape, Valve, Bit Crusher, Clicks, Drops, GSM, Interference, Quantization, Radio Gate, Robotization, Telecom, VoIP, Warble

The controls in this section change depending on the selected algorithm

Amount Controls the amount of effect to apply

Gain Controls the output gain of the effect

Bits Reduces the bit-depth of the sound causing distortion

Downsample Reduces the samplerate frequency causing aliasing

Rate Controls the rate of the modulation effect

Errors Controls the amount of simulated errors in the effect

FFT Size Changes the FFT size of the algorithm, this affects the timbre of the

sound and the reported latency

Pre Emphasis Controls the amount of pre emphasis filtering in the Tape algorithm

Smoothness Controls the release amount of the Radio Gate algorithm

Tone Controls the internal lowpass filter in the Valve algorithm

Compressor

Envelope Controls the speed response of the compression

Amount Controls the amount of compression to apply to the signal

Filter

Type Selects between LowPass, HighPass, BandPass, and Notch

Cutoff Controls the frequency cutof of the filter

Resonance Controls the amount of resonance of the filter

Background Noise

Type Selects between the different types of background noises

Pitch Controls the pitch/speed of the noise

Balance Controls the balance/pan of the noise

Level Controls the output volume of the noise

Envelope - the envelope reduces the noise with the input signal

off the envelope is disabled

+ the envelope increases the noise with the input signal

By clicking on the Wrench Tool icon you can access the Attack and Release controls for the envelope.

Master

Routing Preview the current signal flow and shows the routing window

Input Controls the amount of gain to apply to the input (-24dB, +24dB)

Soft Clip Applies a soft clip curve to the wet signal

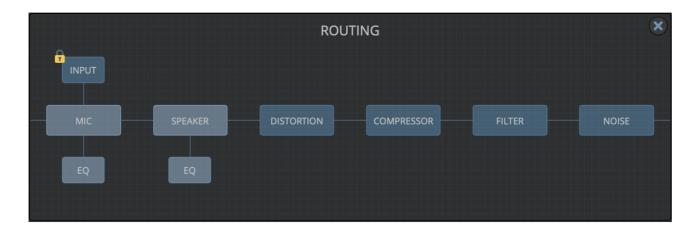
Dry Controls the amount of dry signal

Wet Controls the amount of wet signal

ROUTING

Speakers features a very flexible routing page: each module can be rearranged with a simple drag and drop.

You can also change the Input position when it's not locked.



- Rearrange the modules with a simple drag and drop
- Disable a module with CMD or CTRL + Click
- Change the Input position, make sure the lock is open by clicking on it

EQUALIZERS

To further sculpt the sound, both the Speaker and Microphone sections feature a 5-band EQ. To open the EQ, click on the wrench tool icon. Double click on each band (dot) to reset the band.

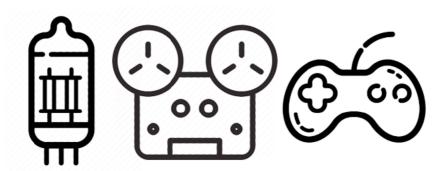


DISTORTION / DEGRADATION

Speakers features all kind of distortion and degradation algorithms for post-production.

Distortion: Carbon Mic, Classic Drive, Diode Clipper, Foldover, Soft Drive, Tape, Valve.

Degradation: Bit Crusher, Clicks, Drops, GSM, Interference, Quantization, Radio Gate, Robotization, Telecom, VoIP, Warble.



BACKGROUND NOISE

Speakers features a selection of background noises divided into 4 categories: *Devices, Places, Organics, Noises.*

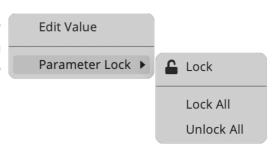
You can also easily add your own if you want. Click on the drop-down menu and choose "Open noise folder". Every subfolder will be treated as a separate category. You need to reload the plugin to see the new samples in Speakers.

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.



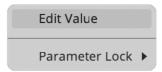
Lock/Unlock If locked, the parameter won't be updated when changing presets

Lock All No parameters will be updated

Unlock All All parameters will be updated

EDIT VALUE

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



By clicking on the \equiv icon you can access additional features.

USE MIX CONTROL

When enabled, the Dry and Wet controls are replaced by a single Mix control. This option is *global* and will affect all instances of Speakers.

LOAD MODELS IN AUDIO THREAD

When enabled, Mic and Speaker models are loaded from the audio thread instead of a separate background thread. While increasing the CPU usage, this option can potentially fix issues with offline rendering.

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.

ENABLE/DISABLE GUI ACCELERATION

You can enable or disable the GUI acceleration supported by your system. The current and default library is OpenGL.

DARK / LIGHT THEME

You can choose a dark or light appearance for menus, popup values, and windows. This option is *global* and it will affect all AudioThing plugins.

END

WHERE IS EVERYTHING?

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

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/

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\

Data: \Users\Public\Public Documents\AudioThing\

CREDITS

DSP & Code: Carlo Castellano

Impulses: Emanuele Cioncoloni, Stewart Tavener, Carlo Castellano

Design: John Gordon (vstyler) QA Engineer: 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 help or any question, feel free to contact us here: www.audiothing.net/contact/

