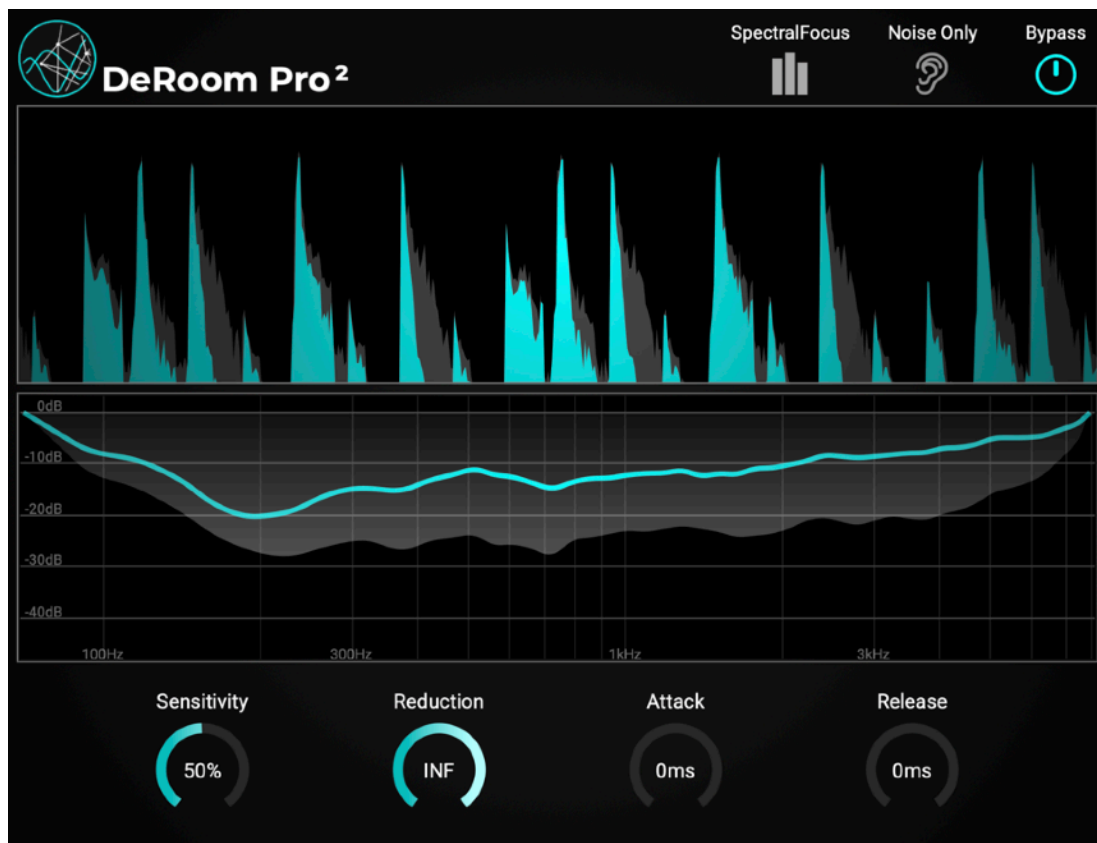


# DeRoom Pro

## REVERB SUPPRESSION

DeRoom Pro helps you to fix audio material which contains unwanted reverb and echo components. The underlying artificial intelligence algorithm first recognises the room conditions and then provides parameters to reduce or eliminate the resulting undesired parts of the signal. The plugin is optimised for speech recordings but also works with other signals as for example drums or percussion. In comparison to the regular DeRoom plugin, this professional version offers a lot more parameterisation possibilities along with an improved underlying algorithm.



# Content

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- Installation and activation
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## Specifications and system requirements

**Supported sample rates:** 44.1kHz,48kHz,88.2khz,96kHz,192kHz

**Supported channel layout:** Mono/Stereo

**Plugin formats:** AAX, VST3, AU

Generally, the plugin should work with most plugin host softwares. It has been tested and is officially compatible with: Reaper, ProTools 11 or higher, Nuendo, Cubase, Ableton Live.



### MINIMUM SYSTEM REQUIREMENTS

Windows 7 (64-bit), 4 GB RAM, Dual-Core CPU 2GHz

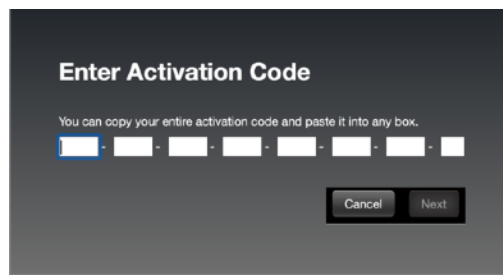
Max OS X 10.12, 4 GB RAM, Dual-Core CPU 2GHz

# Installation and activation

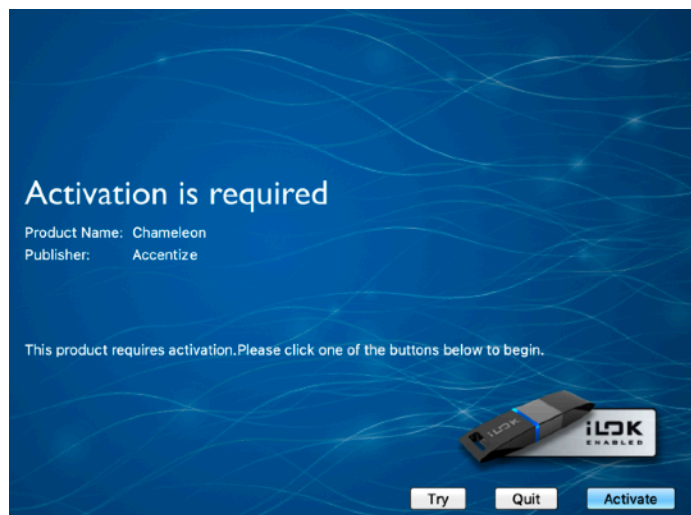
The plugin is distributed with an easy to use installer. In the installation process the usual audio plugin paths are set as a default. If you aren't using any custom path for your plugins you can leave everything as it is and just let the installer do its job. After the installation Chameleon should appear in the list of available plugins in your DAW.

To use Chameleon you will need to have a [free iLok account](#) and install the [iLok license manager](#).

After opening the iLok license manager app login to your account. Navigate to licenses and click "Redeem Activation Code". There you need to enter the code you received after purchasing the accentize plugin.

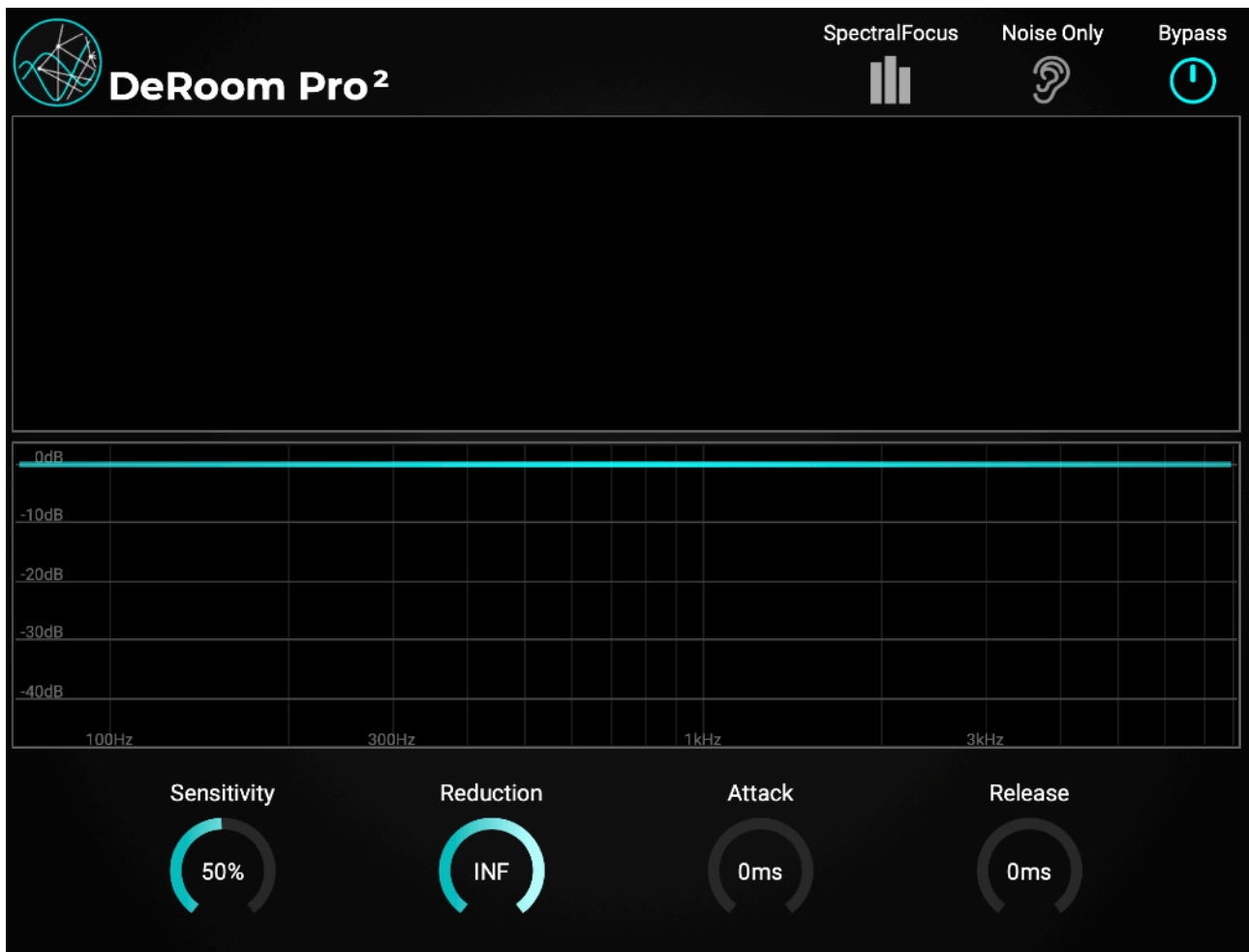


If you launch the plugin without activating it you will also see the option to use a 7-days free trial. The plugin license can either be placed on an physical iLok dongle (2<sup>nd</sup> generation or higher) or directly on a machine.

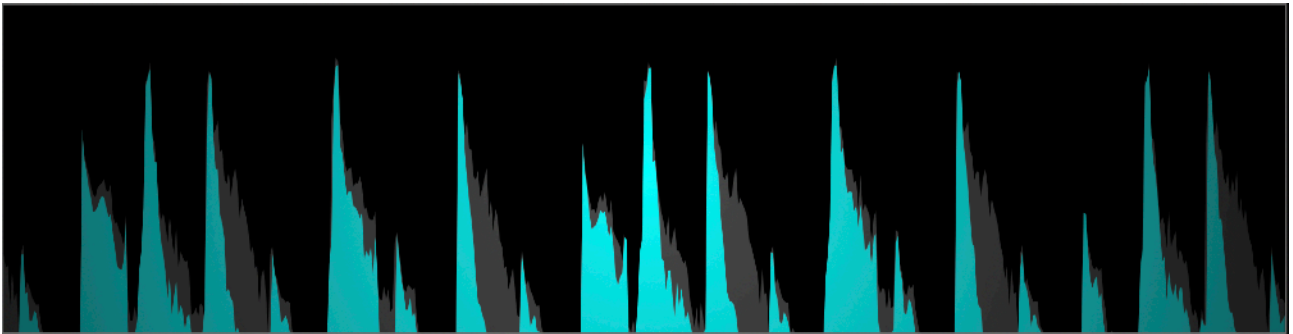


# User Interface

After installation and activation the plugin will be ready to use. By using machine learning approaches the available control parameters could be kept to a minimum in order to make the usability as comfortable as possible.

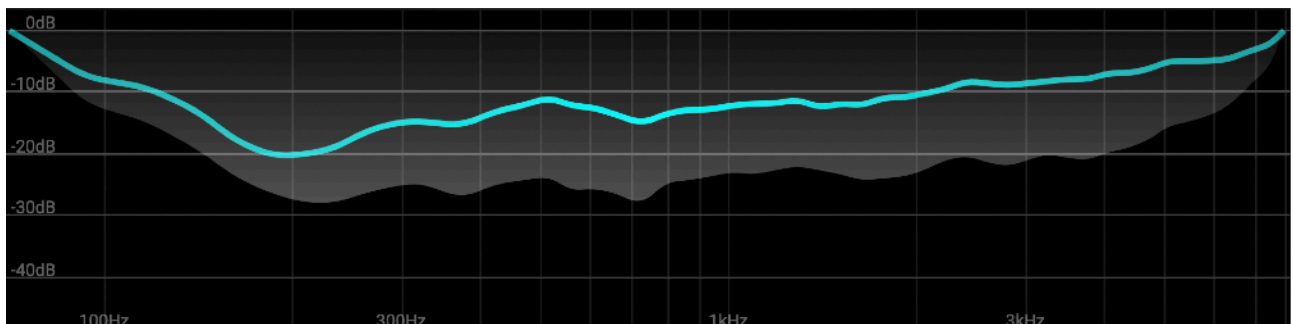


## Signal View



The upper visualisation shows the signal which is passing through the plugin either as waveform or spectrogram view. In waveform view the grey signal is the input signal while the coloured part is the signal after removing reverb.

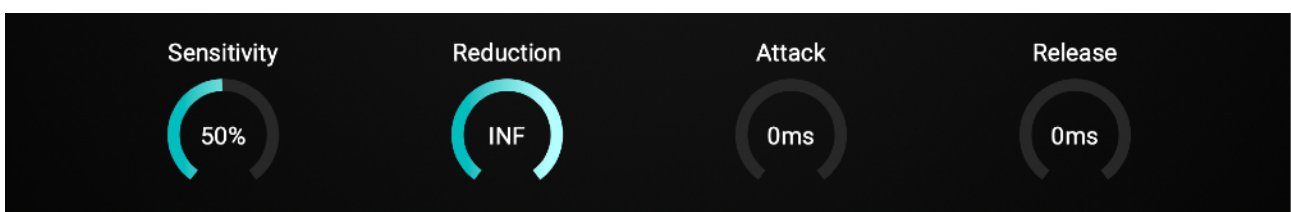
## Gain View



The second visualisation shows the applied gain across the frequency spectrum. While playing audio it will be shown at which time which frequency gets reduced by which amount in order to suppress reverb.

## Main Controls

The main parameters are **Sensitivity**, **Reduction**, **Attack** and **Release**:



**Sensitivity** controls how aggressively the algorithm differentiates between reverb and signal components. With a low sensitivity the plugin will detect less reverb but will preserve as much as signal as possible. Turning the parameter to higher values will result in more aggressive reverb reduction. You can use this parameter to find the best trade-off between suppressing as much reverb as possible while having minimum artefacts in the desired signal.

**Reduction** defines how much reverb the plugin should suppress. If it is set to zero the signal will pass through unaffected. When set to INF DeRoom Pro will try to remove the entire room reverb information from the signal.

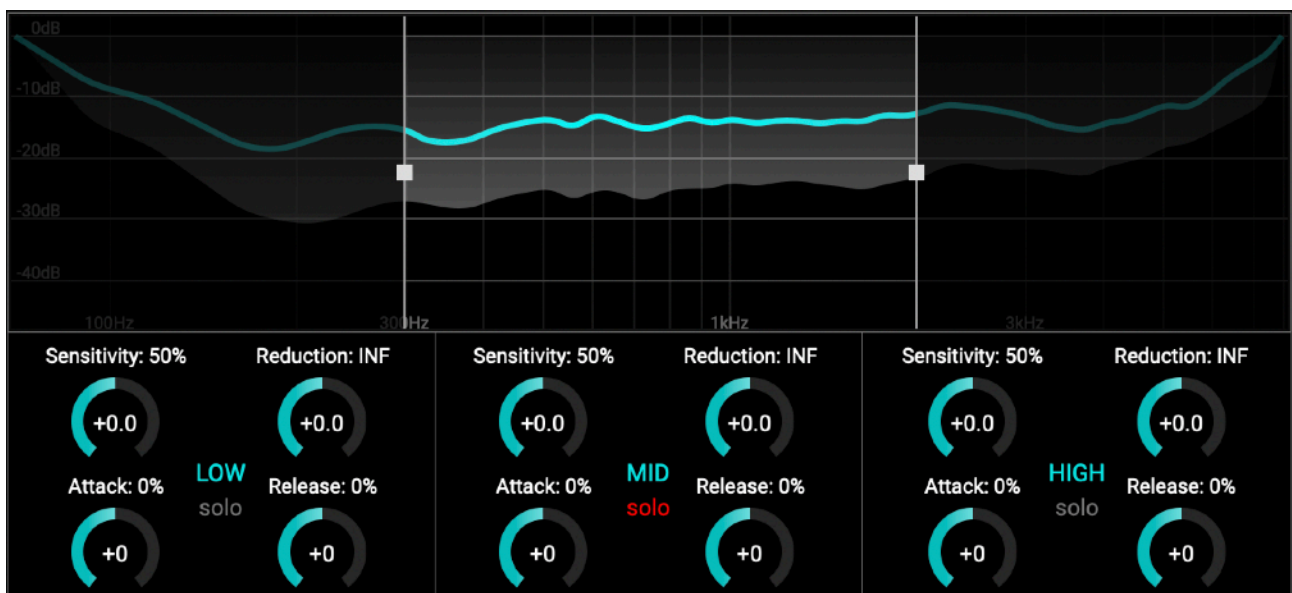
**Attack** and **Release** control the timing of the gain changes. The default values are 0ms for both and in most cases no modification is necessary. However, sometimes the reverb suppression can result in some sort of “pumping” artefacts and it might help to slow down how the gains kick in (attack) or open up (release).

## Header Bar Controls

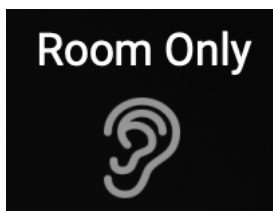
### Spectral Focus



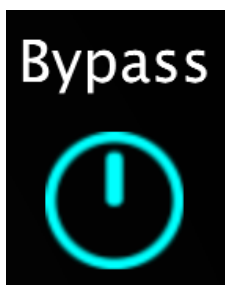
Toggles between **Broadband** and **Spectral Focus** Mode. In Spectral Focus Mode all main parameters can be adjusted in three different bands.



The crossover frequencies of the bands can be set by dragging the white squares of the band limit lines across the spectrum:  
By clicking on a band you can solo listen to only this frequency region.



When **RoomOnly** listening mode is activated only the suppressed reverb will be audible. This mode can be useful to double-check that no desired components are removed from the signal.



The Bypass button completely bypasses all processing and the signal passed through unaffected.



When the plugin is used on a stereo track an additional "Link L+R" button will appear at the top. Usually this should be activated to obtain best results. When active DeRoomPro estimates the same gain for both channels based on the sum of the input signal. In some cases, when individual channel processing is required you can simply turn off the linking.

## How-to

In this section you get a short set of instructions how you should start if you want to de-room a recording:

1. Start with spectral focus mode turned off.
2. Turn up the reduction parameter to INF
3. Leave the sensitivity at 50%
4. Leave Attack and Release at 0ms
5. Adjust the sensitivity setting until you find the ideal trade-off between full room sound reduction and arising artefacts
6. Adjust the reduction parameter to the desired amount of room sound reduction. Leave it at 100% if you want full room sound reduction
7. If the applied gain moves too quickly or pumping artefacts come up, you can use attack and release times to tackle those problems.
8. In case you want different reduction behaviour for different frequency, then switch to spectral focus mode and adjust the parameters for three separate bands as needed.



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