

**HoRNet Sleek** is our new *resonance suppressor* plugin.

**Sleek** employs real-time resonance detection to identify and automatically eliminate unwanted resonances improving the clarity of your audio recordings and reducing the harshness.

The **Sleek** algorithm identifies disproportionately high peaks by comparing a smoothed ('sleek') version of the incoming audio signal with the raw one (residual).

Instead of manually setting a traditional equalizer to notch out any resonance, you can simply set the frequency range for **Sleek** to focus on, and it will automatically attenuate or remove any frequencies with excessive energy.



**Sleek** is a versatile tool that can address resonances in various situations, such as sibilant vocals, poorly treated audio recordings, resonant drums, or even in sound design to remove unwanted imperfections.

**Sleek** offers a range of parameters that allow you to finely tune the level of correction required. The frequency spectrum display enables you to find problematic resonances and check the corresponding Sleek corrections in real-time.

This feature allows you to make precise adjustments to **Sleek** parameters, ensuring that the processing is fine-tuned to your exact preferences.

## Pre process EQ:

The **Pre-Process EQ** emphasizes (or de-emphasizes) the frequencies that need more attention and helps the **Sleek** algorithm focusing on. Specifically, the Pre-Equalizer enhances the differences between the smoothed and raw spectra, making them more pronounced and noticeable to the Sleek algorithm.

Within the Pre-Process EQ, you may find the 4 bands that are focused on different frequencies areas: *Low, Low Mid, High Mid* and *High*.

For each *Pre-Process EQ* band, you can find these parameters:

**Bypass:** This switch allows you to bypass any single equalizer band.

**Band Frequency:** This sets the main frequency of the band.

**Gain:** This sets the band gain at the set frequency, allowing you to emphasize or de-emphasize the frequencies under the selected band.

**Q:** This determines the width of the boost or cut around the center frequency. A higher Q value narrows the bandwidth, resulting in a more focused adjustment. A lower Q value widens the bandwidth, resulting in a broader adjustment.

## Processing Settings:

**Bypass:** the bypass switch allows to completely by pass the *Processing* stage.

**Lower** and **Upper** limits set the spectral window within which **Sleek** operates. By defining this window, you can instruct **Sleek** to focus its processing on particular frequency bands, allowing for a more targeted and precise attenuation of unwanted resonances.

The **Sleek Factor** adjusts the plugin's response to the residuals between the smoothed and raw spectrums.

Higher **Sleek Factor** values result in a more pronounced reaction of the plugin to the residuals;

**FiltersQ:** The FiltersQ parameter, in conjunction with the Sleek Factor and the number of Filters, dictates the precision level of Sleek. A higher Q value will result in a broader action by Sleek, while a lower Q value will provide a more precise and surgical tool to remove specific resonances.

**Attack:** Controls how quickly the processor reacts to resonances. Higher values result in a slower response, similar to compressors.

**Release:** Dictates how quickly the “filtering action” disappears after the corresponding resonances have vanished. Lower values result in a faster release, while higher values lead to a slower release.

**Gain Reduction:** Controls the amount of gain applied to the signal to reduce unwanted frequencies. The gain reduction is expressed as a percentage of the dB of the frequency peak (resonance) that needs to be reduced. Higher gain values result in more reduction.

**Load and Save Presets:** The plugin comes with a range of presets to help you get started and save your owns to be used in other projects.

The **Sleek** GUI provides a fully scalable user interface with dark, light, or automatic color schemes.

If you have any questions or need assistance with the Resonance Remover plugin, please contact our support team by submitting a **support request** here:

<https://www.hornetplugins.com/support/submit-support-request/>

We are here to help you get the most out of our products!