

ADDA



Thank you for downloading HoRNet ADDA, the analog to digital and digital to analog converter emulation.

We designed this plugin to bring back the charme of early digital gear with all the imperfections and rawness that are an integral part the sound fo the late 80s and early 90s. With ADDA you can emulate both high quality and low quality converters to give your samples and track more grit and character if needed.



Pre-emphasis and de-emphasis filters

The upper part of the ADDA interface is occupied by the pre emphasis and de emphasis controls, this filters are digital filters that are placed before the virtual ADC and after the virtual DAC filter and provides a high shelf each that can be used to shape the sound before the processing happens. You can set both the frequency and the gain independently for a more creative effects but by default they are linked together so they act at the same frequency and boost in the pre emphasis one results in a cut of the same amount in the de emphasis one.

Link I/O

This control allows you to link the input and output controls of the analog stages of ADDA thus allowing you to drive more the plugin while keeping the loudness constant since a boost in the input corresponds to an equal gain reduction at the output.

Oversampling

From this dropdown you can choose the amount of internal oversampling used by the plugin, you can choose up to 4x oversampling, or the default "Auto" option that ensures the needed bandwidth for processing according to the sample rate set in your DAW.

Analog Input

This section emulates the analog input of an AD converter, it can be conveniently disabled if you want a pure digital processing and allows you to add analog saturation to your signal. A handy saturation knob allows you to define the amount of distortion added. Analog hiss is emulated but can be turned off if not desired.

At the bottom of the module you can find the input peak meter that shows the input level.

A/D Conversion

This section implements the virtual analog to digital converter and takes care of reducing the number of bits of the signal to the required level. Reducing the number of bits increase what is called "quantization noise" which is a typical digital artifact and determines the signal to noise ratio of the AD converter.

Here you can also set the resampling frequency so you can emulate the device working at a different sample rate. This option actually changes the bandwidth and can introduce lots of aliasing, for this reason we have provided four different resampling algorithms that you can chose from from the dirtiest one (None) to the cleanest one (Cubic). The antialias filter can be enabled or disabled.

Both the bit reducer and the resampler can be enabled or disabled if you don't want to use them.

D/A Conversion

This section implements the virtual digital to analog converter and allows you to set the bit depth of the converter (thus changing the level of the quantization noise) and also allows you to change the level of the dithering noise (which is usually used to cover the quantization noise which is less acoustically pleasant than noise)

Of course also this module can be turned on or off.

Analog Output

This section emulates the analog output of a DA converter, it can be conveniently disabled if you want a pure digital processing and allows you to add analog saturation to your signal. A handy saturation knob allows you to define the amount of distortion added. Analog hiss is emulated but can be turned off if not desired.

At the bottom of the module you can find the output peak meter that shows the output level.

Automatic Light and Dark Mode Interface:

HoRNet ADDA supports automatic interface color switching between light and dark modes, based on your operating system settings. Enjoy a visually pleasing experience that seamlessly integrates with your preferred system appearance.

HoRNet ADDA brings back the sound of early digital equipment and can make wonders if used with delays and reverbs or with samples to recreate the vibe of those 80s and 90s productions.