

# Wah-Wah

The HoRNet Wah-Wah is a digital replica of a vintage effect from the 70s made famous by guitarist and keyboard players around the world. This pedal represent a real signature sound for funky music and is an essential tool in every guitar player setup.

The effect is created using a resonant band pass filter, the pedal changes the frequency of the resonance and creates the typical “wah” sound. Due to the simplistic design of the circuit the Q of the filter and its gain is not constant and both get gentler when the pedal is completely pressed down, also the filter resonance is obtained through a feedback in the simple transistor amplifier and creates different level of distortion at different filter frequencies, this gives the effect a distinct sound that can’t be achieved with modern designs (and in fact after many years this kind of wah effect is still one of the favorite of many musicians).

We faithfully recreated the sound of the pedal starting from the analysis of the circuit diagram, then simulated it and measured the response. After having created a very good sounding wah effect by itself we added an envelope follower that will let you modulate the “wah” sound with attack and release set independently so you will be able to have a sort of “auto wah”. The modulation happens relatively to the current pedal position so you can get many different kind of sound, from the mid low “woh” to the screaming high “wah”, of course you can set the modulation level from “none” to “full”. As with any of the HoRNet Plugins the analog saturation given by the internal transistor amplifier can be turned of if you want a cleaner sound (but you probably won’t since it’s really cool and an important part of the effect sound)

## Features:

Classic wah-wah effect emulation

Analog saturation

Auto wah with attack and release

Mac OS X (>=10.5 Intel only) and Windows support.

64-bit compatibility both on Mac and Windows.

Audio Units VST2.4, VST3, RTAS and AAX format.

Displays the current pedal position

Sets the pedal position and consequently the filter parameters. When the envelope mod. amount is higher than 0% sets the reference point for the modulation

Turns analog saturation on and off

Enable output level compensation



Sets the auto wah modulation amount

Sets the auto wah modulation attack

Sets the auto wah modulation release

Enables the “midi learn” function

Displays and sets the midi control change number