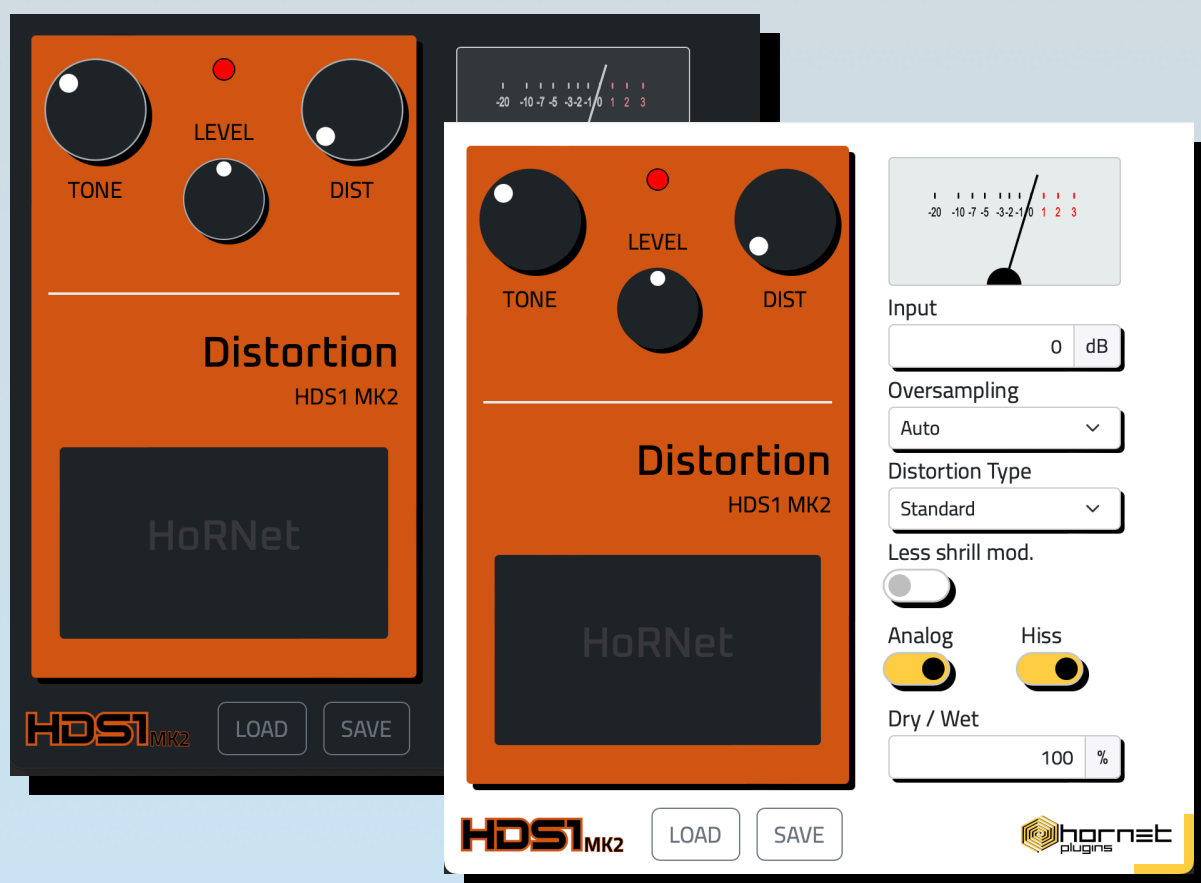The **HoRNet HDS1 MK2** is a guitar distortion effect (not just for guitarists) modelled after a Japanese iconic orange pedal. This legendary pedal has shaped the music for almost half a century, defining the tones of numerous rock guitarists and leaving its mark on the grunge sound and even on the acid music scene (when paired with a renowned silver box).

The new **HoRNet HDS1 MK2** takes our original *HoRNet HDS1* to the next level by introducing a range of new features and expanding its range of mods emulations, offering you a broader palette of tones to explore.

The **HDS1 MK2** core is made by three different stages: a simple **transistor boost**, a **dual op-amp amplifier** and a **diode clipper**. The first stage shapes the frequency response by boosting the higher frequencies; the second stage enhances the gain for the clipping stage and provides a variable lowpass filter modulated by the gain amount (increasing the gain lower the cutoff point). Finally the diode clipper brutally limits the signal and adds the hard distortion.

The distortion created by the classic version of this guitar effect is symmetrical and adds even harmonics. For this reason -while extremely powerful as distortion effect- could also be a little

harsh. To mitigate the harshness of the pedal many mods has been developed and the **HDS1 MK2** offers many of them along with the original sound of the unmodified pedal:

the **ULTRA mod** emulation creates an asymmetrical distortion and introduces odd harmonics for a more smooth and pleasant sound.

The **SEEING EYE** mod increases the amount of available gain by carefully tuning the the tone control circuitry;

The **LESS SHRILL** mod addresses the pedal tendency to produce a harsh or "shrill" high-end tone, especially at higher distortion settings. This mod aims to tame the high frequencies, make the pedal's tone more balanced and roll over the highs.

To help to shape your sound, behind its mods the **HoRNet HDS1 MK2** offers:

Adjustable effect level: fine-tune the distortion intensity;

Tone control: adjust your tone from dark to bright;

Improved analog emulation: enhances the **HDS1 MK2**'s emulation of analog circuitry, making it more authentic and responsive;

Dry / Wet knob: For carefully blending the clean and distorted signals to achieve your signature sound;

VU meter: for visually monitoring and adjusting the signal level passing through the pedal;

Oversampling: up to 16x with auto option, to improve the audio quality and reduce aliasing artefacts in the **HDS1 MK2** signal processing;

Resizable UI: to easily adapt the **HDS1 MK2** GUI to each pedal board ... I mean to each screen.

Presets Save: for easily save your favorite sounds

If you have any questions or need assistance with the **HDS1 MK2** 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!