# HORNET MULTICOMP PLUS

HoRNet Multicomp Plus is a very high quality and versatile plugin compressor. It's built on the foundation of the original Multicomp and features three compressor models (VCA, OPTO and FET) and an expander (based on the VCA model).

Multicomp Plus is perfect for every mixing need providing three compression colors, from the dry VCA to the very fat FET model, if you need analog warmth Multicomp Plus provides a different emulation for every model.

You don't have to worry about gain staging thanks to the internal makeup gain algorithm and the auto input and output gain adjustment.

If you don't like the hiss that comes with analog you can turn it off, and with the "Analog" knob you can dial the right amount of saturation.

Each model can be fed with an external side-chain, and the side-chain has two filters, a high pass and a low pass, both filters are full range, working from 20 to 20000Hz.

HoRNet Multicomp Plus features the standard attack, release, ratio and threshold controls, but brings compression to a new level providing a waveform display with both input and output signal so that is easy to monitor the processing that is taking place. Like every other HoRNet dynamics processor Multicomp Plus has a "RealGR" gain reduction meter. The meter moves at the speed of audio so you can "see" how fast the gain reduction is being applied, but the meter also has a peak hold function so that the maximum reduction applied in the last 2 seconds is always in front of you.

High quality processing is guaranteed by 2 or 4 times oversampling that drastically reduces the amount of aliasing distortion generated by the compression algorithm.

A handy dry / week knob allows you to create parallel compression with ease, the level of the wet signal is kept at the right spot by the adaptive make up gain algorithm.

1. **Threshold control**
   Sets the threshold of the compressor
2. **Ratio control**
   Sets the ratio of the compressor
3. **Attack control**
   Sets the attack time of the compressor
4. **Release control**
   Sets the release time of the compressor
5. **Gain reduction meter**
   This meter displays the gain reduction that is being applied to the signal, it moves at the same speed of the attack and release controls so that you can see how fast the processing is applied, the maximum gain reduction of the last 2 seconds is shown by the peak hold light
6. **Waveform display**
   In this area are displayed the waveforms of the input and output signal, input is in light gray, while output is yellow. The two waveform are one above the other and you can see the difference between the two waves in every moment
7. **Model selector**
   This switch let you choose between one of the four models, VCA (a RMS compressor), FET (a very fast feedback compressor), OPTO ( a feed forward design but with a very peculiar attack and release behavior) and Expander (an expander based on the VCA model)
8. **Side-chain selector**
   Lets you choose between the internal or external side-chain.
9. **Analog control**
   This control lets you decide the amount of analog saturation applied, when set to 1% no saturation is applied, 100% is the level of the original Multicomp and the right level for the emulation, 200% is an exaggerated saturation for more drastic effect
10. **Input control**
    Sets the input level
11. **Output control**
    Sets the output level
12. **Dry/Wet control**
    Lets you add back some of the original signal to the output for parallel compression effect
13. **Oversampling selector**
    Change the amount of oversampling between 0 (no oversampling) to 2, to 4. A four time oversampled processing allows more accuracy using more CPU.
14. **Bypass button**
    Bypass the processing and outputs the dry signal (after the input gain knob) so that it's easy to compare the signal with and without compression applied
15. **High pass control**
    Sets the frequency of the high pass filter on the compressor side chain, the filter is a 6dB/oct design
16. **Low pass control**
    Sets the frequency of the low pass filter on the compressor side chain, the filter is a 6dB/oct design
17. **Hiss button**
    Turns on or off the emulation of the typical noise made by analog equipment
18. **Auto input gain**
    When turned on the input gain is auto set so that the peak RMS value of the input signal is at -18dB
19. **Auto output gain**
    When turned on the output gain is auto set so that the peak RMS value of the output signal is at -18dB