



How does the rack version of the mpressor compare to its younger sibling, the mpressor 500?

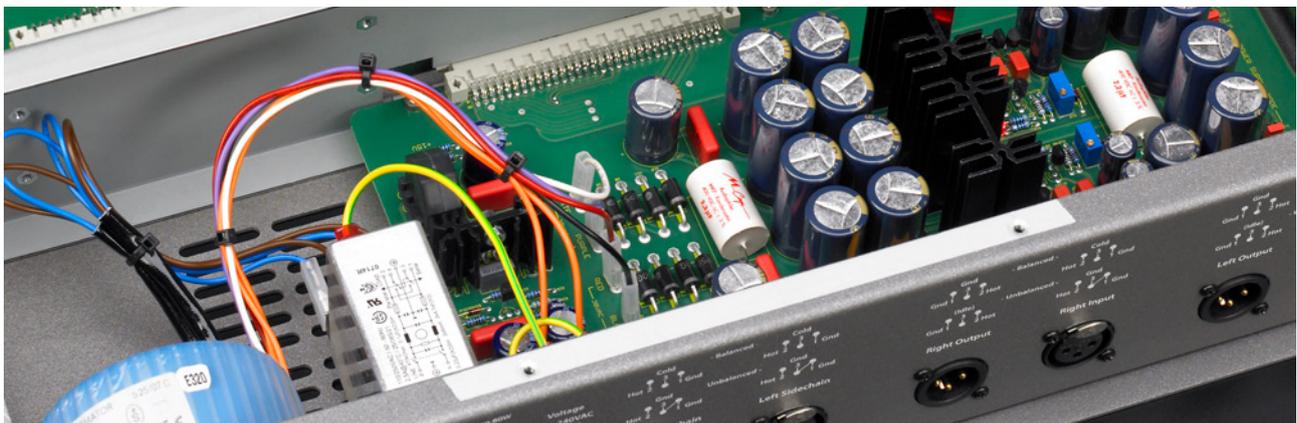
The voltage rails and the availability of space are certainly different in the 500 series format, therefore some adaptations had to be made. However, the true essentials which make an mpressor what it is have stayed the same: The complete sidechain and the discrete VCA element which is based on a transconductance topology.

Because of the limited space and connectors of 500 series modules, certain functions are only available on the rack version, but the mpressor 500 also comes with certain exclusive advantages, mentioned below.

Some parameter ranges (especially ratio and release) have been tweaked to make the mpressor 500 a little bit more 'universal' than its bigger brother, with longer release times and a finer ratio resolution for the less extreme settings.

Impulse response

Not a single 500 series rack in the market today comes even close when looking at the power supply of the mpressor rack. It is fully linear, well filtered, built with extreme amounts of capacity and the finest components available. This means that while the mpressor 500 is really good at it, the rack version is even superior in handling impulses and providing a super tight transient response.



Headroom

As a result of the different voltage rails in the 500 series format (+/-16V) and the rack version (+/-30V) the headroom of the mpressor rack is higher:

- Rack version max level: Input +25 dBu, Output +27 dBu
- 500 version max level: Input +21 dBu, Output +22 dBu

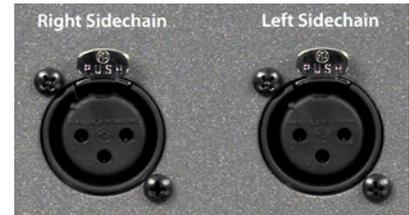
Niveau Filter



The mpressor rack comes with the Niveau Filter EQ, generating very useful and unique filter curves with a set of just two controllers. This feature could not be implemented into the 500 series module because the space was just not available on the front panel.

External Sidechain

The mpressor rack features external sidechain connectors which can be activated via a button on the front panel. The 500 series module does not have this feature as 500 series racks do not provide additional connectors other than input and output as a standard.



THD Boost

As a new function, the mpressor 500 comes with the switchable THD boost function for generating a grittier tone by the push of a button. Although the rack version also generates more THD when being driven harder, the switchable function of the module provides more flexibility in this regard.

Stereo Link

The mpressor 500 is a pure mono compressor. It does not come with an option to link the detectors when two units are being used for stereo. The rack version has two identical, completely separate channels, which can be stereo linked (with the exception of the Niveau Filter and the Makeup Gain, which need to be set identical manually).

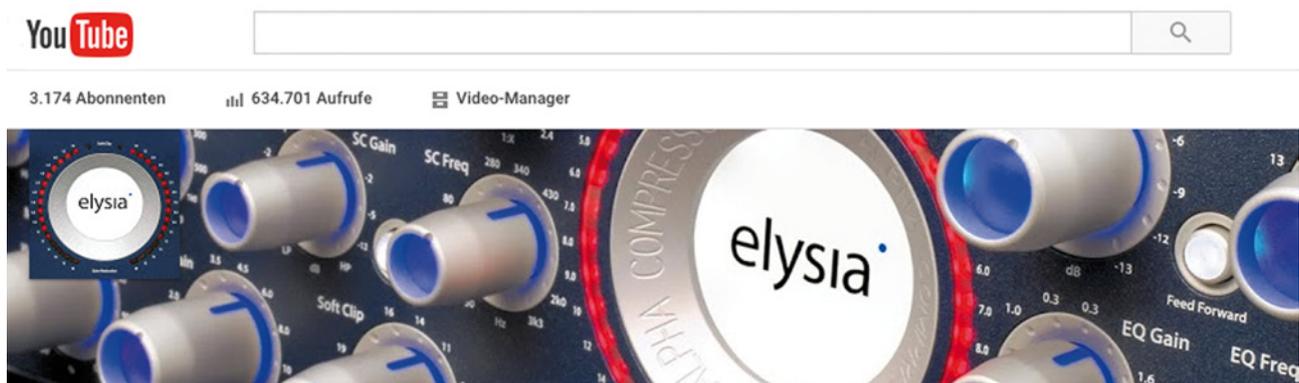


Stepped potentiometers



All six potentiometers on the mpressor 500 have 41 steps. Because of the more extreme ranges of the parameters of the rack version, all potentiometers responsible for setting the compression are not stepped in order not to miss the important in-between values. Only the potentiometers of the audio parameters which cannot be linked (Niveau Filter and Makeup Gain) have 23 steps for a more comfortable stereo operation.

To hear and see these two amazing compressors in action, please visit elysia's YouTube channel: www.youtube.com/user/elysiaTV



Feature	mprocessor rack	mprocessor 500
Discrete Class-A Topology No integrated circuits and no crossover distortion for a superior sound	✓	✓
Auto Fast The perfect attack setting for every situation – automated!	✓	✓
Lin Release Linear release curve as a standard for effective universal compression	✓	✓
Anti Log Release Antilogarithmic release curve moving dynamics (effect compression)	✓	✓
Negative Ratios Cool compression effects incl. heavy pumping, backward sounds, etc.	✓	✓
Gain Reduction Limiter Unique control over the compression process (max. amount of gain reduction)	✓	✓
Stepped Controllers Fast and precise recall with stepped potentiometers	23 steps On Filter and Gain	41 steps On all eight pots
Analog Dynamic LED Meter Finally, a fast LED meter with smooth value transitions	✓	✓
Niveau Filter A special EQ influencing the complete frequency spectrum with just two knobs	✓	✗
External Sidechain Control the compression process with external signal feeds	✓	✗
THD Boost On-the-fly signal coloration and saturation for a grittier flavor	✗	✓
Channels	2	1
Stereo Link	✓	✗
Headroom (input/output)	25/27 dBu	21/22 dBu
Form Factor	2 U	1 Slot