



SPL DYNAMAXX

The DynaMaxx is a 2-channel compressor/limiter with noise gate and features a unique de-compression function to expand dynamics. It is ideally suited for both subtle processing and extreme compression effects in creative projects.

Simpler and better

The DynaMaxx works more cleanly and with more musicality than traditional compressors: setting of the time constants for attack and release is adaptively automated, meaning the material itself optimizes the settings. This ensures that optimal compression is achieved during the entire processing according to the selected setting, not just for the musical passage that was used when setting up.

Naturally this kind of automation also increases productivity, and the DynaMaxx is extremely easy and efficient to use making it ideal for live applications as well as studio.

SPL's Double-VCA-Drive®

One critical circuitry innovation lends the DynaMaxx its outstanding tonal characteristics: Very low noise and distortion THAT 2181 VCAs are employed in the newly developed Double-VCA-Drive® circuit, reducing the risk of offset jumps, normally audible as compressor-typical popping or clicking, by 50%. In addition a differential amplifier is used to damp all undesired side-effects by more than 50 dB. Even at the highest compression ratios there is no high frequency damping; every amplitude in the bass, no matter how high, is processed without pumping. The noise values are reduced by another 3 dB over conventional designs, and the significant improvement in the VCA distortion performance approaches the limits of the test equipment.

De-compression

The de-compression function is used to restore the dynamic range to previously highly compressed

audio signals (samples, etc.). Very interesting effects can also be achieved in sound creation, since, for example, the dynamic characteristics of one signal (kick drum) can be transferred to a different one (layer sound) via the side chain.

Features

- Effects compression circuitry
- Stereo couple function
- Side chain inputs
- Balanced XLR and stereo jack terminals
- GND lift switch
- Internal power supply
- Relay hard bypass / power fail safety

Specifications

Inputs and outputs

Instrumentation amplifier, electronically balanced (differential), transformerless

Nominal input level	+6 dB
Input impedance	=22 kOhm
Output impedance	< 600 Ohm
Max. input level	+24 dBu
Max. output level	+22.4 dBu
Minimum load	600 Ohm
Relay hard bypass / power fail safety	

Measured data

Frequency response (100kHz= -3dB)	20 Hz-100 kHz
Common mode rejection	> 80 dBu @1 kHz
Total harmonic distortion	0.002% @ 1 kHz
Signal-to-noise ratio (CCIR 468)	-89 dBu
Signal-to-noise ratio (A-weighted)	-105 dBu

Power supply

Toroidal transformer	15 VA
Fuses (230/115 V)	315 mA/630 mA
Voltage selection switch	115 V / 230 V, GND lift switch

Dimensions

Standard EIA 19"/1U	482 x 44 x 237 mm
Weight	3.4 kg

Note: 0 dBu = 0.775 V

Martin Hömberg, Audio Professional (D)

"One doesn't have to leave any parameters to chance, and there is hardly anything to operate – all you really have to do is sit back and listen.

You really can't make a mistake when compressing or limiting, nor when adding the final noise gates. Plus you get the de-compressor functions, something not usually found in a compressor – here creativity can take the front seat. All in all the DynaMaxx gives you a musical, intuitive 'dynamic instrument' that is, by the way, also outstanding as a mastering compressor."

Jörg Küster, Keyboards (D)

"At a moderate price the user gets a well made, versatile and very good sounding device. Particularly deserving of mention is the ease of use, which quickly yields great results even for beginners and saves stressed-out studio pros untold time twiddling with the compressor parameters. I should also emphasize again the 'intelligence' of the automatic control, which knows how to process signals of all kinds with virtually no user intervention; there are allegedly compressors out there in which all the auto switch does is restore the control settings to their factory default values."

