

Expressor™

Compressor / Limiter

Model 651



The "sound" you were looking for, but could not find! "Punch, slap, fat, pump, or squeeze" ... now you can get it fast ... get it clean with fully adjustable controls and unparalleled audio performance. The exclusive high frequency expander allows higher ratios without the "dullness" of other wideband devices. "SPR" restores bass clarity and punch without any increase in amplitude. Servo-balanced input and output allow use in any audio environment.

Applications

- Tracking, Mixing, Mastering
- P.A. Systems
- Fixed Installations
- Voice Processing
- Tape Duplication
- Post-Production

Features / Controls

- Input
- Attack
- Release
- Ratio
- Output
- High Frequency Expander*
- Soft & Hard Knee Compression
- Spectral Phase Refractor
- Link / Slave / External Sidechain
- Low-cut Filter on Sidechain
- Servo-balanced Input and Output
- Bargraph Output Level Meter (switchable – 10 or +4dB)
- Bargraph Gain Reduction Meter

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The selectable "SPR" (*Spectral Phase Reflector*) function of the Expressor is a totally new and exclusive feature for a Compressor - Limiter. Psychoacoustic degradation is caused by the additive time delays given to bass frequencies through the many acoustic and electronic stages of recording and reproduction. The SPR phase advances the critical bass frequency range without adding any bass level boost. This causes the ear to perceive a fuller bass range and bass power which cannot be generated using amplitude equalization alone. SPR can often bring unprecedented clarity and depth to voices and smooth out the effects of compression or limiting for a wide range of sounds live or recorded.

The "HFX" (*High Frequency Expander*), another exclusive feature of the Expressor, compensates for the "dullness" usually associated with compression and limiting. The HFX perfectly tracks the compression, permitting controlled "decompression" of the high frequencies up to a maximum of 6dB. The expansion has user adjustable ratio and corner frequency. The result is to dynamically restore sparkle and brightness to highly compressed material.

Servo - Balanced Input And Output Circuitry; Although more costly than conventional designs, servo balancing offers many advantages. The servo-balanced input circuit absorbs high commonmode voltages found on long cable runs without sacrificing headroom. The servo - balanced output is not only short circuit proof, but can be used single ended at any time without the usual 6dB loss of conventional circuits. To use the input or output single ended (unbalanced) the user need only ground the unused signal pin.

Specifications

Input

Max in	+27dBu
Input impedance	22kOhms

Output

Bandwidth 5 Hz to 100 kHz	+ 0, -0.2dB
THD @ +4dBm	0.006%
IMD (SMPTE) @ +10dBm	0.006%
Noise & Hum, unity gain	-85dBm
Max out	+ 27dBm
Output impedance	65 Ohms
Dynamic Range	112dB

Controls

Input	-15 to +15dB
Threshold	-20 to +20dBm
Attack time	.05 to 100 mS
Release	.04 to 4 S
Ratio	1.1:1 to 50:1
HF Expander:	
Ratio	0.1:1 to 1:1
Frequency	2kHz to 20kHz
Gain Makeup	-12 to +18dB

APHEX

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