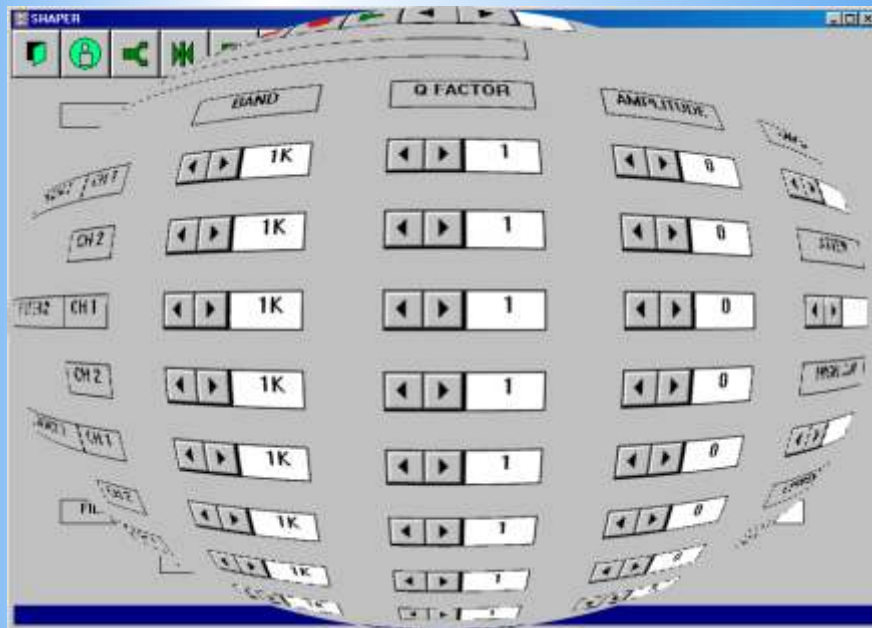
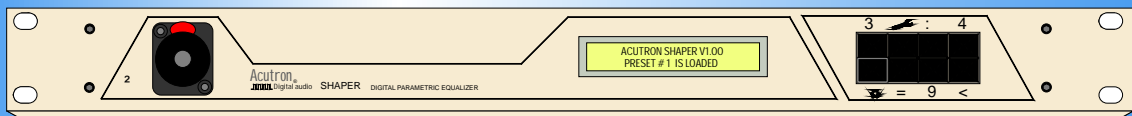


SHAPER

Digital 4-Band Parametric Equalizer/Limiter



DESCRIPTION

The SHAPER Equalizer/Dynamics Controller is used to recover subjectively unsuitable signals, to correct for room acoustics and also to constrain an incoming signal which dynamic range does not fit the transmission or recording media limitations.

APPLICATIONS

- In PA systems where the audio signal must be equalized and band-limited
- As a general-purpose processor

FEATURES

- 48kHz professional sample rate
- Fully RF filtered
- Automatic bypass on power loss
- All I/O is balanced
- DSP-driven with robust V.11/V.28 communications
- Configuration (up to 13 presets) and ID kept in FLASH non-volatile memory
- Units may be as far as 1200m from controller in the EIA-485/V.11 interface case
- Microphone as well as line input
- 24-bit converter/16-bit processing
- Fully EEC 55103 compliant according to 89/336/EMC
- Programmable threshold for limiter section
- 4-band Equalizer and high/low cut filters built-in
- Individual equalizer settings for each channel
- LCD display and keyboard for simplified programming
- Includes a Windows™ 32-bit 98/NT/2000/XP configuration application, controlling the device through an EIA-232 interface (EIA-485/V.11 using a SA2 board, not supplied)

SPECIFICATIONS

Conversion	24bit
Freq. response	20Hz-22kHz ± 1.5 dB
Sample rate	48kHz
Noise	<-75dBA
CMRR	>40dB, 20Hz-20kHz
THD+N	<0.15% 20-10kHz
Crosstalk	>70dB 1kHz (>55dB 20kHz)
Dynamic range	>85dB
Overload level	+10 dBU
Input Impedance	100k Ω balanced
Output Impedance	600 Ω balanced

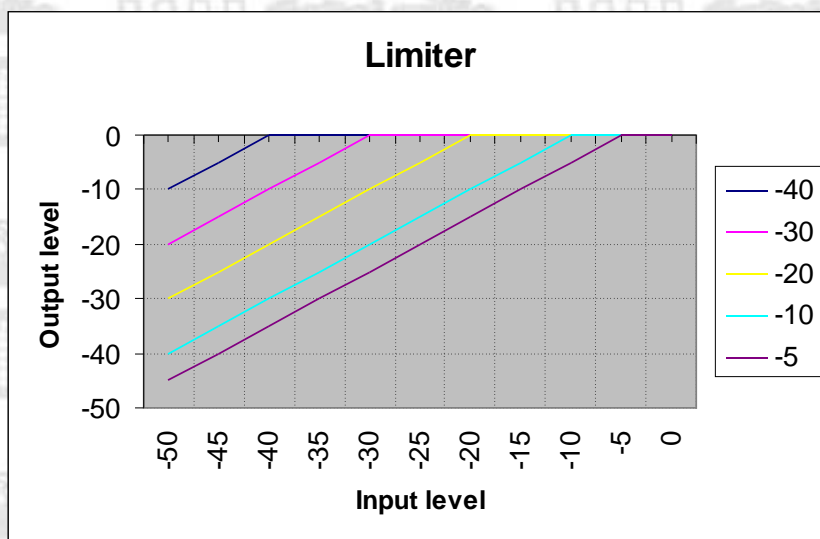
Equalizer

Bands	4
Equalizer	± 12 dB Q=1-16
Center Frequency	200-16kHz
Band-limit filters	100-400Hz, 4-20kHz

Limiter

Threshold	-36/0dBu
Attack	2mS
Hold	2s
Release	5s
Physical	19" rack, 1U 350mm depth
Weight	3.0 Kg
Power supply	115/230VA @ 5VA
Operating temp.	0-40°C

SHAPER V1.11 2003-11-13
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