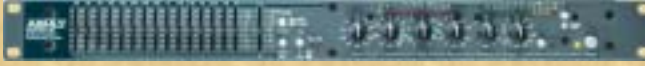


Signal Processors

DPX-100 GRAPHIC EQUALIZER & COMPRESSOR



The DPX Series was created to provide a simple solution for systems requiring general EQ and comp/limiting. Two products are available, the DPX-100 Graphic Equalizer & Compressor/Limiter and DPX-200 Parametric Equalizer & Compressor/Limiter. The equalizer section and compressor/limiter may be used independently or chained together in series. Audio connections are balanced XLR and 1/4" TRS.

Using proven circuitry from our popular MQX and PQX series equalizers and combining these features with our CLX series compressor/limiters provides two tools no audio system should be without. By combining the features and benefits of two processors into one unit, the result is two powerful tools providing a simple solution to everyday audio applications.

The EQ section of the DPX-100 is a 15-band, constant Q, 2/3 octave, ISO center, precision wein bridge filter design. Other EQ features are: frequency range from 25Hz to 16KHz, selectable 15dB or 6dB range, 25mm faders with 'center off' position, EQ in/out switch, signal present and clip LEDs and switchable 18dB/octave -20Hz high pass filter.

Two separate inputs are available in the DPX-200; a microphone preamp with input pad and a line input. The EQ section consists of 4 bands of filtering; two full-bandwidth parametric EQs as well as a low-shelf and high-shelf filter. Other EQ features are: in/out switching for each filter, cut and boost of 15dB, signal present and clip LEDs, and master EQ level control.

The compressor/limiter section uses peak detection circuitry and has individual controls for gain, threshold, ratio, attack, release and output level. More compressor/limiter features include: in/out switch, 11-stage LED gain reduction meter, selectable 11-stage LED input/output level meter, and a detector patch point for frequency-selective limiting or ducking.

FEATURES:

DPX-100

- Precision Wein-bridge filters
- Constant "Q" design for low ripple and minimum interaction
- High quality detented 25mm faders
- Compressor/Limiter use peak detection circuitry
- Balanced Inputs and Outputs
- XLR and 1/4" TRS audio connections

DPX-200

- Separate Mic Pre and Line Inputs
- 2 fully parametric bands
- Parametric filters tunable from 20Hz to 20KHz
- Adjustable bandwidth from 3 1/3 to 1/20 of an octave
- High and Low Shelf filters
- True reciprocal curves
- Individual band in/out bypass switching
- Balanced Inputs and Outputs
- XLR, 1/4" TRS audio connections



DPX-200 PARAMETRIC EQUALIZER & COMPRESSOR



DPX SPECIFICATIONS:

DPX-100 Graphic Equalizer & Compressor/Limiter
Graphic EQ

Input Impedance: 20K ohm Balanced, 10k ohm Unbalanced
Max. Input Level: +23dBu
Output Impedance: 200 ohm Balanced, 100 ohm Unbalanced
Max. Output Level: +23dBu
Frequency Response: \pm .25dB 20-Hz-20kHz
Total Harmonic Distortion: < 0.01% @ +20dBu
IM Distortion (SMPTE): < 0.01% @ +20dBu
Output Hum and Noise: -95dBu (typ., 20Hz-20kHz unweighted)
Filter Type: Constant Q/Wein Bridge
Bandwidth: 2/3 octave
Tolerance: \pm 3%
Range: \pm 6 or \pm 15 dB
Subsonic Filter: 18dB/octave @ 20Hz

DPX-200 Parametric Equalizer & Compressor/Limiter

Input Section

Mic Input Impedance: $>/=$ 1K ohm
Line Input Impedance: 20K ohm Balanced, 10k ohm Unbalanced
Mic Input Connection: XLR
Mic Gain: 55dB \pm 2dB without pad
Line Input Gain: 15dB
Mic Gain Range: +20dB to +55dB
Line Gain Range: (-) infinity to +15dB
Phantom Power: 48VDC

Parametric EQ

Max. Input Level: +22dBu
Output Impedance: 200 ohm Balanced, 100 ohm Unbalanced
Max. Output Level: +22dBu
Frequency Response: 20Hz - 20KHz, \pm .2dB
Total Harmonic Distortion: < 0.01% @ +4dBu 20Hz - 20KHz
Output Hum and Noise: -90dBu (typ., 20Hz-20kHz unweighted)
Bandwidth: 3 1/3 - 1/20 octave
Peaking Frequency: 20Hz - 20KHz
Range: \pm 15 dB
Low Shelving Frequency: 40 - 400Hz
High Shelving Frequency: 1.6K - 16KHz
Range: \pm 15 dB

Compressor/Limiter

Gain: +/-15dB, Threshold: -40dBu +22dBu
Ratio: 2:1 to infinite
Attack Time: 200uSec - 20mSec
Release Time: 0.1Sec - 3Sec
Output: -40dBu - +20dBu
Input Impedance: 20k Ohms, 10k ohm Unbalanced
Output Impedance: 200 ohm Balanced, 100 ohm Unbalanced
Frequency Response: +/- 0.2dB 20Hz-20kHz
THD: <0.01%, +15dBu, 1kHz <0.15%, +15dBu, 20Hz-20kHz
Output Hum and Noise: -95dBu, (typ.) unity gain

I/O Connectors: XLR, 1/4" TRS

Power Requirements: 90-125VAC, 50-60Hz, 10W (240V available)

Shipping Weight: 8 lbs.

Dimensions: 19"W x 1.75"H x 6"D

