

DGP231A is a Professional Digital Parametric/Graphic 31 bands Stereo Equalizer performing a High Precision set of 31 Parametric OR Shelving filters per channel. The **DGP231A** is a powerful professional Equalizer, providing also Hp/Lp filters up to 24dB/Oct, Delay and RMS Limiter, for improving the sound definition possibilities. The

DGP230A has 32 user memory presets available. It provides the following basic processes: 2x31 Band PEQ Bell OR Shelving filters, each filter can be singularly selected as Bell OR Shelving. Hp/Lp Filters up to 24dB/Oct each channel, Limiter each channel. Independent Channel Gain, Phase Control, Delay and Mute each Output channel.



Features

Outstanding Performance

Excellent sonic performance with 24bit high end converters, coupled with 96kHz sampling rate
Extremely low noise and distortion XLR Balanced inputs and outputs

Top-grade DSP Engine

31 band parametric equalization per channel
Each band can be switched to Bell, Low/High Shelving
Crossover filters with slopes from 6dB/Octave up to 24dB/ Octave including Butterworth, Bessel, Linkwitz-Riley
Each channel features a precision dynamic range controller composed of a Limiter working on RMS value of the limiter's input

Adjustable Delay time up to 1300 ms for every input and output channel
Phase correction per output channel

Direct PC/Network Connection

Rear panel USB connector for direct PC communications
RS485 connection for system setup, monitoring and control via fully manageable remote PC software

Control

Front panel interactive LCD display for local access and configuration
Front panel 7-LED level meter indicators per channel and Compressor/Limiter

Applications

- Auditoriums
- Houses of Worship
- Theaters
- Performing Art Centers
- Convention Centers
- Stadiums and Arenas
- Touring Musicians
- Stage Monitoring System digital



Audio

Analog Input	2 electronically balanced
Analog Output	2 electronically balanced
THD+N	0.005% at 1kHz 0dBu
S/N	>110dBA
Frequency Response	20Hz - 20kHz +/-1dB
AD & DA Converters	24bit
Ground Noise	-89 dBu

DSP & Processing

DSP Engine	MARANI® DSP, 24bit (data) x 96 bit (coeff.)
DSP Resolution	24x32 bit for filtering process; 96 bits resolution on intermediate computation results
Input Gain & Output Volume	Range from -12dB to +12dB
Parametric Equalization	31 filters per channel
Filter Type	Bell, Lo/Hi- Shelving
Filter Gain	From -15dBu up to +15dBu by 0.5dBu resolution steps
Center Frequency	Selectable with a 1/24th of octave resolution step from 20Hz up to 20kHz
Filter Q/BW	Q from 0.5 up to 3 by 0.05 resolution steps
Crossover Section HPF/LPF	Butterworth 6/12/18/24dB per octave Bessel, Linkwitz-Riley 12/24dB per octave Filter resolution 1/24th of octave
Peak Limiter	Threshold from 20dBu up to -10dBu Attack time from 5ms up to 200ms (1ms resolution up to 20ms, 10ms resolution up to 100ms and 20ms resolution up to 200ms) Release time from 0.1 sec up to 3 sec (0.1sec resolution)
Delay	1300 ms 10.4us increment/decrement steps per channel

General

Device Presets	32 Presets
Front Panel	2x24 character LCD display with green LED backlight 7-LED meter per input channel -20dBu to +15dBu, clip 7-LED meter per output channel -15dBu to +15dBu, Blue LED (Edit);Red LED (Mute) per channel NAV/PM1 Rotary encoder push button switch PM2, PM3, ENTER, ESC, UTILITY push button switches EDIT/MUTE/BYPASS push button per channel
Rear Panel	2 x XLR female connector (Input) 2 x XLR male connector (Output) 1 x XLR female connector for RS485 (Input) 1 x XLR male connector for RS485 (Output) USB type A connector 2 x Ground-lift toggle switch IEC C13 16A connector Power on/off switch
Main AC	90-240VAC (50/60Hz) - 40W
Dimensions	19"x 1.75"x 9" (483x44x229mm) 1RU
Weight, Net / Shipping	7.71 lbs (3.5 Kg) / 8.82 lb (4 Kg)

Specifications subject to change without notice

Designed in Italy Assembled in China

DGP231A