

DP48

Loudspeaker Management System



Features & Benefit

- ✓ **4**-channel input, 8-channel output
- ✓ **H**igh Performance 24-bit A/D and D/A Converters
- ✓ **A**ccurate 1 Hz Frequency Resolution
- ✓ **32**-bit (40-bit floating point) DSP (Highly accurate digital processing)
- ✓ **6**-Band Parametric Equalizers for each Input and Output
- ✓ **F**ull-Function Limiters on Output Channels
- ✓ **B**acklit 4-Line x 32 Character LCD Display
- ✓ **F**ull 5-segment LEDs on every Input and Output
- ✓ **S**torage up to 30 Program Setups
- ✓ **U**SB interfaces for PC Control and Configuration
- ✓ **P**ink noise and single frequency generator
- ✓ **S**ecurity Lock

The DP48 is a digital system processors which offer a whole new level of performance with Complete Equalization and Loudspeaker Control System designed for the touring or fixed sound installation markets. The absolute latest in available technology is utilized with 32-bit (40-bit floating point) processors and high performance 24-bit Analog Converters.

The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices. A complete set of parameters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters. Precise frequency control is achieved with its 1 Hz resolution. Inputs and outputs can be routed in multiple configurations to meet any requirement.

The DP48 can be controlled or configured in real time on the front panel or with the intuitive PC GUI accessed via the USB. Software upgrade for CPU and DSP via PC keeps the device current with newly developed algorithms and functions once available. Multiple setup storage and system security complete this professional package.



Specifications

Inputs and Outputs

- Input Impedance: >10k Ohms
- Output Impedance: 50 Ohms
- Maximum Level: +12dBu
- Type: Electronically balanced

Audio Performance

- Frequency Response: +/- 0.1dB (20 to 20 kHz)
- Dynamic Range: 115dB type (unweighted)
- CMMR: > 60dB (50 to 10 kHz)
- Crosstalk: < -100dB
- Distortion: 0.002% (1 kHz @+4dBu)

Digital Audio Performance

- Processor: 32-bit (40-bit floating point)
- Sampling Rate: 96 kHz
- Analog Converters: High Performance 24-bit
- Propagation Delay: 1.5ms

Front Panel Controls

- Display: 4 x 32 Character Backlit LCD
- Level Meters: 5 segment LED
- Buttons: Mute/Edit Controls
- One Touch Menu Controls
- 4 Ways Menu Controls
- Dial Encoder: Embedded Thumb Wheel

Connectors

- Audio: 3-pin XLR
- RS-485 X 2
- USB: Type B
- Power: Standard IEC Socket

General

- Power: 110/240 VAC (50-60Hz)
- Dimensions: 19"x1.75"x9" (483x44x229 mm)
- Weight: 7lbs / 3.2kg

Audio Control Parameters

- Gain: -40 to +12dB in 0.1dB steps
- Polarity: +/-
- Delay: Up to 1000ms per I/O
- Parametric Equalizers (6 per I/O)
- Type: Parametric, Hi-shelf, Lo-shelf
- Gain: -30 to +15dB in 0.1dB steps
- Bandwidth: 0.05 to 3 octaves (Q=0.404 to 28.852)
- Crossover Filters (2 per Input / Output)
- Filter Types: Butterworth, Bessel, Linkwitz Riley
- Slopes: 12 to 48dB/Oct
- Limiters
- Threshold: -20 to +20dBu
- Attack: 0.3 to 100ms
- Release: 2 to 32X the attack time

System Parameters

- No. of Programs: 30, (10 factory programs and 20 user define)
- Program Names: 15 character length
- Delay Units: ms, ft, m
- Frequency Modes: 36 steps/Oct, 1Hz resolution
- Security Lock: Lock/Unlock
- Copy channels: All parameters (with PC software)
- Channel Names: 6 character length

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