

# DP240

## 2IN 4OUT Loudspeaker Management System



- 2 Inputs and 4 Outputs with routing
- Dual 24 bits, 48 kHz sampling rate
- Crossover slopes of 6, 12, 18, 24, 36 48dB/Oct
- Full adjustable, limiter and delay per output
- Easy

### OVERVIEW

The NEXT DP240 is an accurate yet affordable sound processor, for professional sound system management, considerably more powerful than similarly priced units, providing a versatile and economical alternative for system designers.

This digital speaker processor delivers excellent sound quality and an impressive variety of processing functions. It features 2 inputs and 4 outputs, and has a 3 band parametric equalizer for each input. Outputs all feature crossover filters, 5 band parametric equalizer, phase inversion, gain, source selector, delay and fully featured high performance limiter with complete control over attack, release and threshold parameters. Other features included a choice of 6 to 48dB/Octave roll-off, and Butterworth, Bessel, Linkwitz-Riley or 12dB variable Q, responses.

Independent control of each high and low pass filter allows asymmetric crossover bands to be created. Inputs and outputs can be routed in multiple configurations to meet any requirement.

Three velocity-sensitive encoders provide a familiar and intuitive control format with all filter information displayed simultaneously on a backlit LCD screen. Full metering is provided for inputs and outputs, with mute/access buttons allowing quick set up and gain adjustment. The NEXT DP240 is provided with PC compatible control software for full system set up and management. Just complete your system set up in a real time basis and save your configuration in the processor via the delivered USB wire.

### TECHNICAL SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| <b>Inputs and Outputs</b>        |  |
| Input Impedance:                 | >10k   |
| Output Impedance:                | 50   |
| Maximum Level:                   | +20dBu   |
| Type:                            | Electronically balanced                          |
| <b>Audio Performance</b>         |  |
| Frequency Response:              | ± 0.5dB (20Hz to 20.000Hz)                       |
| Dynamic Range:                   | 95dB (unweighted)                                |
| CMMR:                            | >102dB (50Hz to 10.000Hz)                        |
| Crosstalk:                       | 100dB  |
| Distortion:                      | 0.005% (1.000Hz at +4dBu)                        |
| <b>Digital Audio Performance</b> |  |
| Processor (DSP):                 | 40Bit floating point                             |
| Sampling Rate:                   | 48kHz  |
| Analogue Converters:             | 24Bit  |
| Propagation Delay:               | 1,5ms  |
| <b>Audio Control Parameters</b>  |  |
| Gain:                            | -40dB to +6dB in 0.1dB steps                     |
| Polarity:                        | +/-  |
| Delay:                           | Up to 6.979ms (2.397m) per output                |
| <b>Equalization</b>              |  |
| Variable Equalizers:             | 7 output or 3 input and 5 output (selectable)    |
| Type:                            | Parametric                                       |
| Gain:                            | -30dB to +15dB in 0.1dB steps                    |
| Bandwidth:                       | 0.011 to 2.54 octaves (Q=0.5 to 128)             |
| <b>Crossover</b>                 |  |
| Available:                       | 2 individual filters per output                  |
| Type:                            | Butterworth, Linkwitz Riley, Bessel (variable Q) |
| Slopes:                          | 6dB to 48dB per octave                           |
| <b>Compressors and Limiters</b>  |  |
| Available:                       | 1 limiter per output channel                     |
| Threshold:                       | -10dB to +15dBu                                  |
| Attack:                          | 0,3ms to 90ms                                    |
| Release:                         | 2x to 32x the attack time                        |
| Compressor Ratio:                | 1:40   |
| <b>System Parameters</b>         |  |
| Nr. of Programs:                 | 30   |
| Delay Units:                     | ms, m  |
| Frequency Modes:                 | 36 steps/octave, 1Hz resolution                  |
| Security Locks:                  | Password   |
| Channel Names:                   | 5 characters                                     |
| <b>Front Panel Controls</b>      |  |

|                     |   |
|---------------------|---|
| Display:            | 2x 16 characters backlit LCD                    |
| Level Meters:       | 6 Segment LEDs                                  |
| Buttons:            | 6 mute/channel controls, 6 system menu controls |
| Dial Encoder:       | 3 speed-sensitive rotary encoder                |
| <b>Connectors</b>   |   |
| Audio Input:        | 3 pin XLR                                       |
| RS-232:             | Female DB-9                                     |
| USB:                | Type B  |
| Power:              | Standard IEC socket                             |
| <b>General</b>      |   |
| Power Requirements: | 90-250 VAC (50Hz - 60Hz) - 18VA                 |
| Dimensions (WxDxH): | 483mm x 168mm x 44.5mm                          |
| Net Weight:         | 3,6Kg   |