# DSP260

## 24-BIT DIGITAL SOUND SYSTEM PROCESSOR

# Preliminary



**With the DSP 260 digital 2-in-6 sound system manager, DYNACORD is continuing its proud tradition in the field of innovative digital signal processors.**

Based on the most modern hardware, this system manager offers tried-and-tested as well as new algorithms for the simple and swift construction of active multi-way systems. As much importance has been attached here by the developers to high user-friendliness as to the realization of an extremely favorable price.

24-bit sigma-delta AD/DA converters and a 32-bit floating-point signal processor make possible a dynamic range of 111 dB. In addition to the two analog inputs, a digital stereo input in AES/EBU format is available. A -6 dB pad switch in front of the AD converters offers additional security against overload when the device is connected to mixing desks with very high output levels. The 6 individually mutable outputs are electronically balanced and available on XLR sockets. For all inputs and outputs, easily read LED level meters are provided on the front panel.

Users can choose whether to configure their own systems at the device itself using the controls and display provided or else by means of the intuitive editing software.



3-way stereo, 2-way stereo + FR, 4-way mono + FR etc. Furthermore, factory presets compatible with those of the tried-and-tested DSP-244 are available for Dynacord loudspeaker systems.

In terms of DSP, the device offers parametric and graphic EQs as well as a delay function in the input and crossover, channel EQ, channel delay and a level control with limiter in each output channel.

An RS-232 interface allows Master/Slave operation of multiple devices as well as GPI switching of settings. A PC (the supplied editing software runs under Windows) can be connected via the USB interface on the front panel.

A variable parameter lockout function allows you to determine which settings and parameters can be accessed directly at the device. This

is just one of many features that make the DSP 260 an ideal choice also for the rental business.

The wealth of features combined with its outstanding audio performance and favorable price commend this audio system manager for a multitude of professional applications.
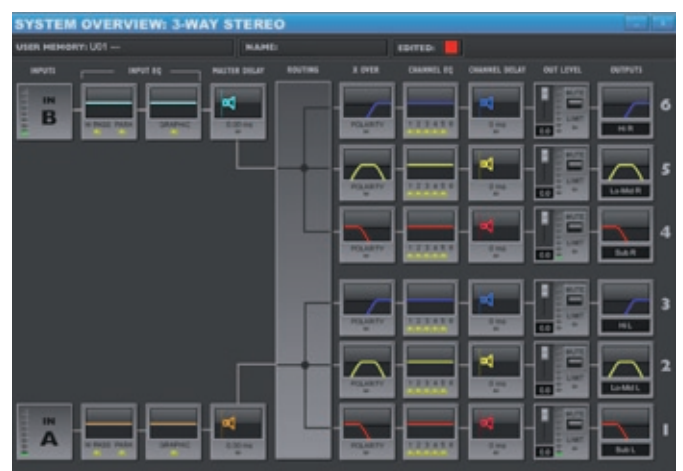


**DSP 260 Preliminary Technical Specifications**

| General | |
| --- | --- |
| Mains Voltage | 100-240 VAC  50-60 Hz |
| Power Consumption | 25W |
| **Audio** | |
| Analog Inputs | 2x XLR IN, electronically balanced<br>2x XLR THRU OUT, electronically balanced |
| Digital Inputs | 1x XLR AES/EBU IN |
| Nominal Input Voltage | 1.23 V / +4 dBu |
| Maximum Input Voltage<br>(Without -6dB Analog Pad Engaged) | 8.7 V / +21 dBu |
| Input Impedance | 10k ohm |
| Common Mode Rejection | -80 dB @ 1 kHz (typical) |
| A/D Conversion | 24-Bit Sigma-Delta |
| Outputs | 6x XLR OUT, electronically balanced |
| Nominal Output Voltage | 1.23 V / +4 dBu |
| Maximum Output Voltage | 8.7 V / +21 dBu |
| Output Impedance | 50 ohm |
| D/A Conversion | 24-Bit Sigma-Delta |
| Frequency Response | 10 Hz-22 kHz (+/- 0.5 dB) |
| THD+N | < 0.01% (band limited 22Hz-22kHz) |
| Dynamic Range | 111 dB unweighted, band limited 22 Hz - 22 kHz |
| **Interfaces** | |
| USB | USB Type B on front panel (PC Interface) |
| 9-pin DSUB | Software Configurable for GPI Preset Recall or<br>Master/Slave Connection to second DC-One unit |
| **Signal Processing** | |
| Sample Rate | 48 kHz |
| Data Format | 24-Bit |
| Internal Processing | 32-Bit Floating Point |
| **Physical** | |
| Dimensions (WxHxD) | 19 x 14 x 1.75 inches (482.6 x 355.6 x 44.45 mm) |
| Weight (Net) | 10.1 lb (4.6 kg) |
| Weight (Gross) | 13.0 lb (5.9 kg) |

# ◉ DYNACORD