



The *DSP-4080* is a powerful DSP based audio processor, ideally suited for install and live applications, where it combines the functions of a multitude of conventional products in a compact unit, with extensive remote control capabilities.

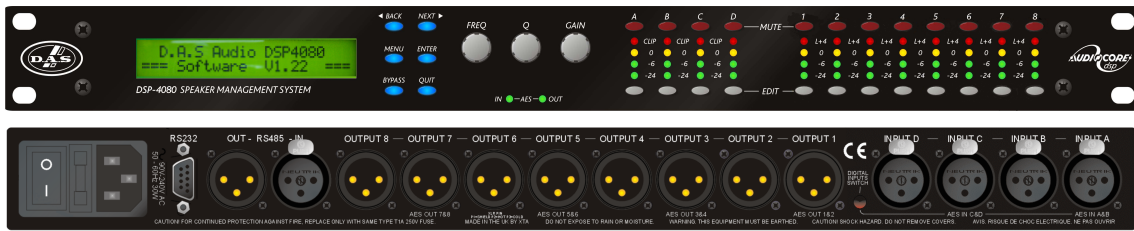
## Features

- 4 inputs and 8 outputs - native processing runs at 96k resulting in wider bandwidth (over 30kHz).
- Optimized converters - lower noise and optimized distortion figures.
- Extended processing capabilities - 9 full bandwidth parametric bands available on every output, all switchable between PEQ, high and low shelving responses, high / low pass variable 'Q' filters, Notch filter, Bandpass filter, All pass filter, Phase filter, and elliptical filters.
- Crossover filters on each output offer 48dB/Oct. responses. A gentle 6dB/Oct roll-off response is also included.
- Flexible routing matrix available - in addition to standard fixed configurations such as 2 x 3 way (standard configs are still implemented), any output may be fed from any input or sum of inputs. Edit buttons show routing instantly when pressed.
- Program and Clip Limiters - Look-ahead limiters with automatic and manual time constant facilities.
- Delay memory allows for up to 650mS from any input to any output - extra fine delay resolution on outputs for driver alignment, in 30nS (0.1mm) steps!
- Extended memory capacity - user memories extended from 9 to a maximum of 256.
- Remote control via RS232 or RS485 ports, with AudioCore software.
- 2 x 24 character display with new low profile buttons.
- Auto switching power supply works worldwide on all voltages.

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## Specifications

**Inputs:** 4 electronically balanced  
 Impedance: > 10k ohms.  
 CMRR : >65dB 50Hz - 10kHz.  
 MUTE : ON/OFF

**Outputs:** 8 electronically balanced  
 Source Imp: < 60 ohms  
 Min. Load: 600 ohms  
 Max. Level: +20dBm into 600 ohms  
 MUTE : ON/OFF

**Frequency Resp.:** ±½dB 20Hz-20kHz  
 -3dB @ 32kHz

**Dyn. Range:** >116dB 20Hz-20kHz unweighted

**Distortion:** < .02%@1kHz,+18dBm

Maximum Delay: 650 mS

Min Step Size: 0.3uS

**Input Gain:** +6dB to -40dB in 0.1dB steps

**Output Gain:** +15dB to -40dB in 0.1dB steps

### Parametric Equalisation

8 per Input / 9 Sections per Output  
 Filter Gain: +15dB to -30dB in 0.1dB steps  
 Freq. Range: 19.7Hz - 32kHz, 1/36 octave steps  
 Filter Q / BW: 0.4 to 128 / 2.5 to 0.008  
 (Sections switched to shelving response)  
 Low frequency: 19.2Hz - 1kHz  
 High frequency: 1kHz - 32kHz  
 Shelf gains: ±15dB in 0.1dB steps

### High and Lowpass Filters

Filters: 1 of each per output.  
 Freq. Range HPF: 10Hz - 16kHz  
 1/36 octave steps.  
 Freq. Range LPF: 35Hz - 22kHz  
 1/36 octave steps.  
 Responses:  
 1<sup>st</sup> Order 6dB/Oct.  
 Bessel/Butterworth/Linkwitz-Riley 12-24-48dB/Oct.  
 Bessel/Butterworth 18dB/Oct.

### Limiters

Program Limiter:  
 Threshold: +22dBu to -10dBu  
 Attack time: 0.3 to 90 milliseconds  
 Release time: 2/4/8/16/32 x Attack time

“D-Max” Limiter:  
 Attack Time: -60uS  
 Release Time: Slow/Medium/Fast

**Display:** 2 x 24 Character LCD

**Input meter:** 4 x 4 point, -24dB to digital clip

**Output meter:** 8 x 4 point, -24dB to +4dB into limit

### Connectors

Inputs: 3 pin female XLR  
 Outputs: 3 pin male XLR  
 External: 9 pin DEE connector (RS232)  
 RS485: 3 pin male XLR (out) 3 pin male XLR (in)  
 Power: 3 pin IEC

**Power:** 60 to 250V ±15% @ 50/60Hz

**Consumption:** < 30 watts.

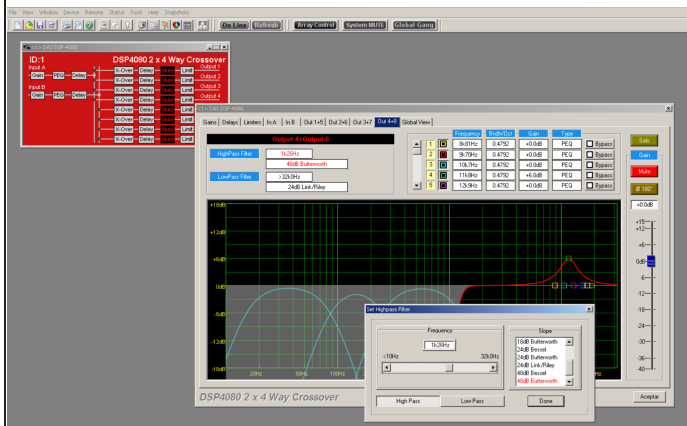
**Weight:** 3.3kg. Net (4.7kg. Shipping)  
 7.26lb. Net (10.34lb. Shipping)

**Size:** 44 x 482 x 300 (mm)  
 1.75"(1U) x 19" x 11.8"

Due to continuing product improvement the above specifications are subject to change.

**Latency:** 1.5mS (analogue in – analogue out @ 96kHz)

Remote Control by:



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