



logic systems
PRO AUDIO

DP2140
Specification Sheet
(Rev: 6 Dated: 24/10/2013)

The Logic Systems DP2140 loudspeaker management system represents the current state-of-the-art. Taking advantages of the latest advances in analogue to digital conversion and digital signal processing technologies the units achieve performance levels that have only recently been made possible.

Key features are:

- 2 in 4 out format with assignable input to output routing
- Input PEQ, HPF and delay
- Output PEQ, HPF, LPF, delay, polarity and limiting
- Linea Research minimal signal path design
- Sonically superb ADC/DAC combination; a carefully matched pairing of the best devices from Burr Brown and Wolfson
- Newly released family of Analogue Devices SHARC DSP
- Extended bandwidth; 96kHz sampling frequency provides for a nominally flat response to 40kHz
- Parameter knob and LCD provide a rapid, user-friendly control interface
- Networking capability to control multiple units via the Bv Net protocol
- Remote control of all functions via the 'Podware' software package



Cabinet	Handles	Tophat	M2o plate	Castors	Bracket Pt.	Inserts/Fly Points
DP2140	N/A	N/A	N/A	N/A	N/A	N/A

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General

Inputs:	• 2
Input impedance:	• >10k ohm electronically balanced
Maximum input level:	• +20dBu
Outputs:	• 4
Output impedance:	• <100 ohm, ground balanced
Maximum output level:	• +20dBu into 600 ohm load
Sample rate:	• 96kHz
Bit depth:	• 24 bit
Frequency response:	• 10Hz to 40kHz, +/- 3dB (filters disabled) • 20Hz to 20kHz, +/-0.5dB (filters disabled)
THD:	• <0.01%, (+10dBu, 20Hz to 20kHz, 30kHz bandwidth)
Dynamic range:	• >112dB (A weighted, 22kHz bandwidth) • >109dB (un-weighted, 22kHz bandwidth)
Serial comms data:	• 38.4kbaud, format: 8 data, 1 stop, no parity

Processing

Gain:	• +20dB to -80dB and mute, 0.2dB steps
Output channel source:	• Input A, Input B and SUM
HP filter frequency:	• Off, 10Hz to 25.4kHz, 1/36 octave steps
LP filter frequency:	• 10Hz to 25.4kHz and off, 1/36 octave steps
LP/HP filter type:	• 12, 18 & 24dB/octave Bessel and Butterworth • 12, 24 and 48dB/octave Linkwitz Riley • 4th or 8th order Hardman
Delay:	• Input 400ms, output 80ms
Limiter:	• High performance limiter, adjustable threshold in 0.2dB steps, automatic time constants
EQ frequency:	• 10Hz to 25kHz, 1/36 octave steps
EQ gain:	• +15dB to -15dB, 0.2dB steps
EQ width:	• 5.0 to 0.1 octaves bandwidth, 1/36 octave steps

Connectors

Audio inputs:	• 3 pin female XLR
Audio outputs:	• 3 pin male XLR
Serial comms:	• Rear panel RS232 connection
Network comms:	• Optional dual Cat 5 rear panel connections
Mains:	• 3 pin IEC
Mains power:	• Universal switch-mode PSU, 85v to 250v AC, 50 / 60Hz
Consumption:	• <25 watts
Dimensions:	• 482mm (W) x 44mm (H) x 180mm (D)
Packaged Dimensions:	• 580mm (W) x 65mm (H) x 330mm (D)
Weight:	• 2.7Kg

Cabinet	Handles	Tophat	M20 plate	Castors	Bracket Pt.	Inserts/Fly Points
DP2140	N/A	N/A	N/A	N/A	N/A	N/A