

BSP2.6

DIGITAL LOUDSPEAKER MANAGEMENT SYSTEM



Signal Processing

The Acoustic Technologies BSP2.6 loudspeaker management system is a high performance, easy to use signal processor for loudspeaker systems, providing processing for up to stereo 3-way or mono 6-way configurations. The BSP2.6 provides generous amounts of signal processing capability and a wide variety of crossover shapes.

The unit may be controlled just as comprehensively from its front panel, or by using the PodWare software application. PodWare can operate a single BSP2.6, or can optionally control a multi-km network of products using the BvNET networking standard.

The BSP2.6 uses 96kHz sampling rate, Burr-Brown analogue-to-digital converter, the renowned Wolfson multi-bit digital-to-analogue converter, and a powerful 3rd generation Sharc Digital signal Processor. All this adds up to deliver the ultimate in sonic transparency and a stunning open, natural sound quality.

The BSP2.6 is capable of crossovers up to 8th order (48dB/Octave). In addition to the usual Butterworth, Linkwitz-Riley and Bessel filter shapes, the BSP2.6 also provides access to Hardman crossover filtering. Hardman filters produce much steeper cutoff slopes for a given order than conventional crossover alignments, without any additional group delay. This allows a lower order filter to be used without sacrificing cut-off characteristics, but with smoother group delay and less severe phase penalties, giving a more natural sound. Hardman filters also provide identical phase characteristics between adjacent bands (like Linkwitz-Riley), so the polar performance is rock steady.

Key Features

- SysTune Compatible
- BvNET Connectivity & Control
- Easy, Intuitive Interface
- Backlit Multi-function Display
- Industry Standard 19" Rackmount Chassis
- 2 Balanced XLR Inputs, 6 Balanced XLR Outputs

Overview

- Dimensions: 1 Rack Unit High, 254mm deep
- Weight: 2.7kg
- Finish: Black Brushed Aluminium



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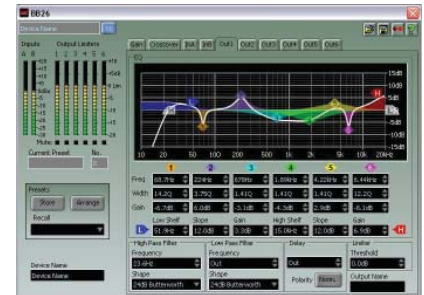
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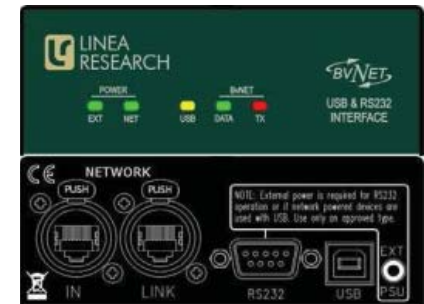
Specifications

- Technical**
 - Input impedance: >10k Ohm balanced
 - Output Imp: <100R Gnd balanced
 - Max Input level: +20dBu
 - Max Output level: +20dBu into 600R
 - Sample rate: 96kHz
 - Frequency Resp: 20Hz - 20kHz +/-0.5dB
10Hz - 40kHz +/- 3dB
 - Dynamic range : >110dB Typ. (20Hz - 20kHz)
 - THD (20Hz-20kHz): <0.008% Typ.
 - Power consumption: 25W max.
- Connectors**
 - Audio Inputs: 3 pin female XLR
 - Audio Outputs: 3 pin male XLR
 - Comms: 9 pin female D
 - Mains: 3 pin IEC
- Environmental**
 - Temperature: 0 to +55°C
 - Humidity: 0 to 80% RH (non-condensing)
 - Dimensions
- Physical**
 - Dimension: 482mm (W) 44mm (H) 254mm (D)
 - Weight: 2.7kg net
- Parameter Ranges**
 - Input Gain: -80 to +20dB
 - Input Delay: 0 to 405ms
 - Input HPF Freq: 20Hz to 25kHz
 - Input HPF shapes: 1st order, Bes12, But12, LR12, Bes18, But18<Bes24, But24, LR24, Hardman4th
 - Output Gain: -80 to +20dB
 - Output Polarity: Norm, Invert
 - Output Delay: 0 to 80ms
 - Output HPF Freq: 20Hz to 25kHz
 - Output HPF shapes: 1st order, Bes12, But12, LR12, Bes18, But18<Bes24, But24, LR24, Hardman4th, But48, LR48, Hardman8th
 - Output LPF Freq: 20Hz to 25kHz
 - Output LPF shapes: 1st order, Bes12, But12, LR12, Bes18, But18<Bes24, But24, LR24, Hardman4th, But48, LR48, Hardman8th
 - Output Lim Thresh: -40 to +20dBu
 - Para EQ Freq: 10Hz to 25kHz
 - Para EQ Width: 0.1 to 5.2 Oct
 - Para EQ Gain: Q 0.2 to 14.2
 - Para EQ Slope: -15 to +15dB
 - Para EQ Slope: 6 to 12dB
 - Shelf EQ Freq: 10Hz to 25kHz
 - Shelf EQ Gain: -15 to +15dB

Screen Shots



BvNET Box Optional



Acoustic Technologies

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