

KS-26 PROCESSOR

FEATURES

Bag End Minimal Signal Path Design Extended Bandwidth
Sonically Superb ADC/DAC
Combination Rapid, User-Friendly Control Interface

DESCRIPTION

The Bag End Kairos DSP series of loudspeaker processors represent the current state-of-the-art. Taking advantage of the latest advances in analog to digital conversion and digital signal processing technologies the units achieve performance levels that have only recently been made possible.



TECHNICAL SPECIFICATIONS

General

Inputs

2

Input Impedance

> 10k Ohm Electronically Balanced

Maximum Input Level

+20dBu 11.0 V Peak

Outputs

6

Output Impedance

<100 Ohm, Ground Balanced

Maximum Output Level

+20dBu into 600ohm load 11.0 V Peak

Sample Rate

96kHz

Bit Depth

24bit

Frequency Response

20Hz 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)
>110dB (unweighted, 22kHz bandwidth)

Serial Comms Data

115.2kbaud, format: 8 data, 1 stop, no parity

Processing

Gain

+20dB to -80dB and mute, 0.2dB steps

Output Ch. Source

Input A, Input B, and SUM

HP filter frequency

Off, 20Hz to 25.4 kHz, 1/36 octave steps

LP filter frequency

20Hz to 25.4kHz and off, 1/36 octave steps

LP / HP filter frequency

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

DB9.

Network comms

Future option

Mains

3pin IEC

Mains Power

Universal switch-mode PSU, 85v to 250v AC, 50/60Hz

Consumption

<25watts

Dimensions

44mm (H), 482mm (W), 254mm (D)

Weight

2.7 Kgs. net

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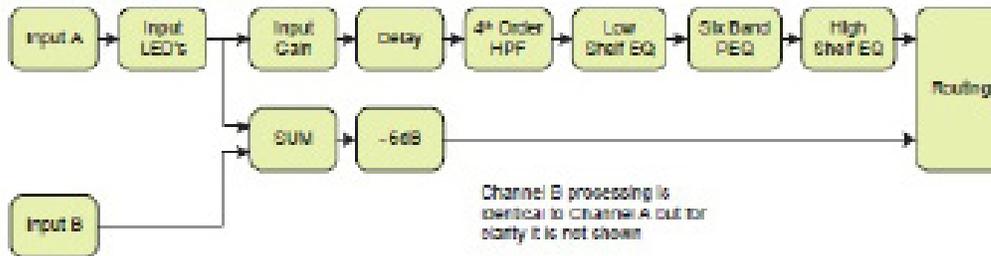


ABOUT BAG END® LOUDSPEAKERS

Bag End loudspeakers began in 1976 in a small shop by people dedicated to the pursuit of making high quality loudspeaker systems. Over the decades Bag End® has employed the very best construction techniques and innovative acoustical designs into their products. The ground breaking introductions of the Time-Align® and EL™ Technologies into sound reinforcement and studio monitor loudspeakers in the 1980's was followed by Minima One™ self-powered systems and the highly unique E-Trap™, electronic bass trap. Over the decades, Bag End® has been a leader in providing uniquely good sounding products and extraordinary service to our customers world wide.

DSP PROCESSING LAYOUT

Input DSP block diagram



Output DSP block diagram

