

# FDS-310



## **FDS-310**

The FDS-310 is a 2-way stereo or 3-way mono, sweepable crossover system built around our high quality 24dB/octave Linkwitz-Riley filters. Each frequency band has its own level control, frequency control, polarity reverse, mute button, signal present LED and peak signal warning LED. Internal "jumper" facilities include constant-directivity horn EQ, mono low linking. Frequency range in the 2-way stereo mode is 180Hz-2kHz, and in the 3-way mono mode is 180Hz-2kHz for low-mid range, and 800Hz-9kHz for mid-high range. It has internal jumpers to change all frequency ranges down in divisions of 10. Inputs and outputs are electronically balanced with both XLR and 1/4" TRS connectors.

## **TECHNICAL SPECIFICATION**

### **Input Section**

#### IMPEDANCE

12k $\Omega$

electronically balanced

#### MAX. INPUT LEVEL

+20dBm / dBu / dBv

#### THROUGH GAIN

With level control set at 0dB:

0dB Input to any output

Fully adjustable from  $-\infty$  to +6dB

#### INPUT CMRR

<-50dB @ 120Hz

<-50dB @ 10kHz

#### CONNECTOR

XLR 3-31 or equivalent

### **Output Section**

#### OUTPUT LEVEL

Electronically balanced and floating (MOL)

Before clipping

Balanced mode : +26dBv /dBu, 15.5v rms

Unbalanced mode : +20dBv /dBu, 7.75v rms

#### MINIMUM LOAD IMPEDANCE

Balanced or unbalanced output mode :

Driven at the M.O.L. 600 $\Omega$

#### OUTPUT IMPEDANCE 100 $\Omega$

#### FREQUENCY RESPONSE:

Between 20Hz to 20kHz +0.5dB.

Excluding input filtration In the midband

+0.2db.

Outputs summed with controls set to 0.0dB:

### **Crossover Filter**

#### CROSSOVER FILTRATION

-24dB / octave (fourth order) Linkwitz-Riley

#### TUNEABLE 2-WAY

LOW-HIGH range:180Hz to 2000Hz (2kHz)

Frequency range is divisible by 10 by internal switching

#### TUNEABLE 3-WAY

LOW - MID range:180Hz to 2000Hz (2kHz)

MID - HIGH range:800Hz to 9000Hz (9kHz)

#### INPUT FILTRATION

-18dB/octave ultra-sonic -3dB at 30kHz-6dB / octave sub-sonic - 3dB at 15Hz

See your local dealer or contact: **BSS Audio, Linkside House, Summit Road, Potters Bar, Hertfordshire EN6 3JB. United Kingdom.**

Tel: +44(0)1707 660667 Fax: +44(0)1707 660755

<http://www.bss.co.uk>

**USA Distribution: Harman Pro North America, 1449 Donelson Pike, Nashville TN 37217, USA.**

Tel: (615) 399 2199 Fax: (615) 367 9046

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## System Performance

### THD + NOISE

<0.03% THD up to MOL

Typically 0.01% at +6dBv / dBu output

### OUTPUT NOISE

Unweighted:> -85dB. 22Hz to 22kHz

Controls set at unity (0dB)

Inputs terminated with 600Ω

## General

### POWER REQUIREMENTS

Less than 30 watts 195-264V or 90-130V

50/60Hz

### OPERATING TEMPERATURE

+5°C (41°F) to 55°C (132°F)

### MOUNTING DIMENSIONS

44.5mm x 483mm x 216mm (ht x w x d) 1U /

1.75" x 19" x 8.5 inches

### NET WEIGHT

3.5kg (8lb)

### SHIPPING WEIGHT

4kg (9lb)(includes carton)

In keeping with our policy of continued improvement, BSS Audio, reserves the right to alter specifications without further notice. This product was designed developed and produced by BSS Audio, Hertfordshire, England.

A Harman International Company.

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