

FDS-388



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The OMNIDRIVE system represents a radical step forward in DSP processing for loudspeaker management, incorporating two channels of 4-way crossover, parametric equalisation, digital delay lines and limiters, and is designed for use in all areas of sound control. A compact 2U chassis means reduced interconnections cabling and rack weight, while increasing rack space availability. Major facilities include password protection, automatic correction for HF response with humidity and delays with temperature.

The user front-end is remarkably simple, combining a real-time graphical display with an analogue-like output control section with led meters for full indication of system performance. The screen shows crossover response, EQ curves plus delay and limiter data in high-resolution graphics. System settings can be stored in up to 60 user memories, for quick and easy setup.

The crossover sections can be configured as stereo 2, 3 or 4 way, with the option of setting one stereo band as a mono-lo output for sub-bass processing. Various filter types may be selected with slopes of 12, 18 or 24 db per octave.

Parametric EQ is provided as two sections of fully adjustable EQ per band of processing, one section being configured as a 0-180 degree adjustable phase control, with polarity switching as standard through a separate independent function. The EQ range is 15Hz

to 16kHz, gain adjustable ± 15 db, with a Q from 0.05 to 3 octaves, switchable between bell or shelving response.

The limiters are located mid-band, an optimal configuration originated by BSS and now widely adopted. Each band also incorporates a delay line, with adjustable delay in unusually fine 11 microsecond steps up to 650 milliseconds and displayed in feet, metres or milliseconds.

Other Features:

Data Archive to PCMCIA memory card.

Optional Digital I/O cards.

Optional Humidity / Temperature auto correction system.

MIDI Interface / Open Architecture port

(Filters flat, sample rate 48kHz, without balancing transformers, unless specified)

TECHNICAL SPECIFICATION

Input Section

IMPEDANCE

10k Ω , Electronically Balanced

MAX. INPUT LEVEL

+20dBu, balanced

DYNAMIC RANGE

Typically 105dB

Analogue In/Out, unweighted, 20Hz-20kHz

CONNECTOR

(Analog) XLR3-31 or equivalent

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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Output Section

OUTPUTS

Electronically balanced and floating

MAX. OUTPUT LEVEL

+20dBu into 600 Ω , balanced

CONNECTOR

(Analog) XLR3-32 or equivalent

Crossover Filters

FILTER TYPES

Bessel, Butterworth, or Linkwitz-Riley

FILTER SLOPES

Global selection of 12, 18, or 24dB per octave. Individual band edges may be set to any of the three slopes.

CROSSOVER POINTS

Fully adjustable for overlap/underlap

Equaliser Sections

BANDS

2 Parametric sections per output

FREQUENCY RANGE

Adjustable, 15Hz-16kHz

Q (BANDWIDTH)

Adjustable, 0.05 to 3 Octaves

GAIN

Adjustable, +/-15dB

Delays

NUMBER

1 per output plus overall delay

RANGE

Adjustable, 0 to 650 Milliseconds

STEPS

11 Microsecond

READOUT/ADJUSTMENT

Feet, Metres, or Milliseconds

Limiters

TYPE

Peak

LOCATION

Mid-Filter

THRESHOLD

Adjustable, -10 to +16dBu

System Performance

FREQUENCY RESPONSE

15Hz-20kHz, ± 0.25 dB

DISTORTION (THD)

<0.01%, 20Hz-20kHz, @+10dBu

GROUP DELAY DISTORTION

< ± 5 microseconds, 20Hz-20kHz

CHANNEL SEPARATION

>80dB, 20Hz-20kHz

STEREO TRACKING

<5 degrees, 20Hz-20kHz

General

POWER REQUIREMENTS

AC Mains, 120V (99-121V), or 240V (204-264V), selectable, plus internal 100V setting. 50/60Hz, <60VA

WEIGHT

9Kgs (20lbs)

DIMENSIONS

2U Rack Mount, 88mm x 482mm x 355mm
3.5" x 19" x 14"

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Options

AES/EBU Input Card
AES/EBU Input/Output card
Input/Output balancing transformers
Meteorology Probe

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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