DATA SHEET
DYNASOUND® DS3002
NETWORKED SOUND MASKING, PAGING AND MUSIC PROCESSOR

The DS3002 is designed to provide sound masking, paging and music functions for centralized and networked sound masking systems. Each DS3002 provides four independent sound masking generators, each having 1/3 octave band equalization, adjustable high pass and low pass filters. Additionally, two balanced line level inputs, two balanced line level outputs and a matrix mixer facilitate configuring any mix of incoming signals with any of the sound masking generators and then routed to any of the outputs. Input processing includes per channel level control, equalization and configurable "softknee" compression. Output processing includes per channel level control for both analog and network audio. This feature provides unique functionality for use in traditional 70V centralized systems, networked addressable systems or systems combining both approaches.

FEATURES

- Four sound masking generators with 1/3 octave band EQ, high and low pass filters
- Two balanced inputs with level controls, equalizers and compressors
- Two balanced outputs with level control
- Matrix mixer allows any combination of inputs and sound masking to be routed to any of the balanced outputs, or to the network audio

- CobraNet™ digital audio network ready on all inputs and outputs
- ETL Listed to conform to UL 62368-1 and CSA C22.2 62368-1
- Met Works with WELL licensing criteria for sound masking
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The sound masking processor shall be a Dynasound® DS3002. The unit shall provide CobraNet™ capability for all inputs and outputs. The 1 RU DSP 2 x 2 processor shall provide four separate sound masking generators, each having low pass, high pass and 1/3 octave band equalization. The unit shall be equipped with an Ethernet connection (RJ-45) to provide control and monitoring over a standard switched network, or from a single PC. The unit shall provide two balanced line level inputs for paging and music and shall provide equalization and compression for each input signal. The unit shall provide two balanced line level outputs and shall incorporate a matrix mixer giving each output (CobraNet and balanced outputs) access to any combination of input signals. Total harmonic distortion 20 Hz - 20kHz shall be less then .01%. Power consumption shall be 2 watts maximum @ 16VAC.

DYNASOUND DS3002 SPECIFICATIONS

Frequency Response[1]	
Sound Masking:	100Hz to 10kHz
Music/Paging:	20Hz to 20kHz
Sound Masking Equalization (125Hz - 10kHz):	1/3 Octave Bands
Masking	
Number of Masking Zones:	Up to 2
Number of Non-Correlated Masking Sources:	4
Masking Level Adjustment:	via Privacy Manager Software
Audio Inputs	
Input Connector Type:	Captive Screw Terminal
Number of Inputs:	2 (Mono)
Input Level:	Line Level
Input Level Adjustment:	n/a
Input Impedance:	20kΩ balanced / 10kΩ unbalanced
Audio Outputs	
Outputs Connector Type:	Captive Screw Terminal
Number of Outputs:	2 (Mono)
Output Level:	Line Level
Nominal Output Impedance:	150Ω
Emergency Mute	
Function:	Optional via Software
Connector:	DS-CP8200

Network Connection:	RJ-45 with Ethernet cable (Cat 5e and above)
Power Supply	
Operating Voltage:	120VAC 50/60Hz
Output:	16VAC @ 1.0A
Max. Power Consumption (16VAC):	22W
Included Accessories:	Ethernet Crossover Cable
Overall Dimensions	
Height:	1.75 inches (44mm)
Width:	19 inches (483mm)
Depth:	8 inches (203mm)
Weight:	6 lbs (2.7kg)
Environmental:	
Ambient Operating Temperature Range:	14 - 104° F (-10 – 40° C)
Humidity:	0-95% relative humidity (non-condensing)
Altitude:	0-6,600 ft (0-2000m) MSL
Compliance:	ETL listed (USA)

DYNASOUND DS3002 BACK PANEL

USE WITH:

DESCRIPTION	SKU
Network Sound Masking Processor and Loudspeaker Controller	DS8000
24 Port PoE Switch	DSPoE24
Amplifier (for 70V systems)	DSLG22
Attenuator Panels (for 70V systems)	DSRMP

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