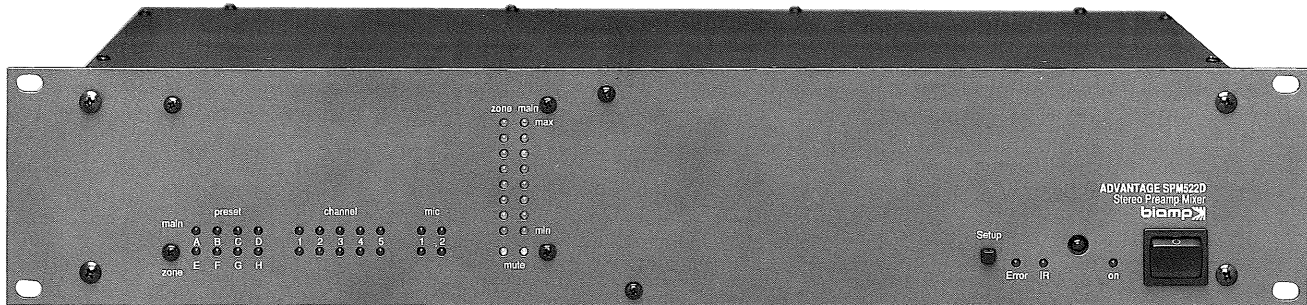


# SPM522D



## DIGITALLY CONTROLLED STEREO PREAMP/MIXER

The ADVANTAGE® SPM522D provides five stereo line inputs, two mono mic/line inputs, and two independent stereo outputs. With complete programmability and remote control, including input source selection for each output, page-zone routing of mic/line inputs, automatic page-over ducking, and storage of 8 non-volatile memory presets, the SPM522D is ideally suited for applications such as meeting rooms, restaurants, bars, and aerobics studios. The SPM522D is extremely versatile, allowing set-up to be customized for each specific application.

### FEATURES

- ◆ five stereo line inputs, with trim controls for level adjustment
- ◆ fifth input 30dB pad for input from distributed speaker lines
- ◆ fifth input 'override' via contact-closure or signal activation
- ◆ two balanced mic/line inputs, including inserts for processing
- ◆ 40dB trim, 30dB pad, and peak indicator on mic/line inputs
- ◆ +24 volt phantom power switchable on each mic/line input
- ◆ mic/line 'page-over' via contact-closure or signal activation
- ◆ independent stereo main & stereo zone balanced outputs
- ◆ stereo limiters with threshold control for each stereo output
- ◆ rear panel switches convert main or zone outputs to mono
- ◆ remote control selection of stereo source for each output
- ◆ remote control of tone and balance for each stereo source
- ◆ remote control of levels and muting for each mic/line input
- ◆ remote control of levels and muting for each stereo output
- ◆ four memory presets for each output, with levels and source
- ◆ 'combined' mode selectable for room combining applications
- ◆ remote control via infrared, wall-mount, and/or custom panel
- ◆ computer control and configuration via RS-232 serial port
- ◆ PC control software for Windows® 95 & serial cable included
- ◆ remote translator input for third-party 'serial' controllers
- ◆ front panel display of presets, source selections, and levels
- ◆ external remote display panel available as an option
- ◆ incorporates AES recommended grounding practices
- ◆ CE marked and UL / C-UL listed power source
- ◆ covered by Five Year "Gold Seal" Warranty

### ARCHITECT'S & ENGINEER'S SPECIFICATION

(available on floppy disk)

The stereo preamp/mixer shall provide five unbalanced stereo line inputs and two differentially balanced mono mic/line inputs. Each stereo line input shall include a rear panel screwdriver adjustable level control, and shall be capable of accepting either -10dB or +4dB signals. Inputs 1-3 shall be provided on RCA connectors, while Inputs 4 & 5 shall be provided on plug-in barrier strip. Stereo line input selection, including associated tone and balance settings, shall be via remote control. Additional rear panel screw terminals shall allow override selection of Input 5 via contact-closure and/or signal activation. Input 5 shall include a selectable internal 30dB pad, allowing direct input from distributed speaker lines. The mic/line inputs shall have 52dB of gain, and shall include rear panel screwdriver adjustable 40dB trim controls, 30dB pad switches, peak indicators, insert points, and +24V phantom power switches. The mic/line inputs shall be provided on plug-in barrier strips, with additional screw terminals provided for page-over ducking of stereo line input signals via contact-closure and/or signal activation. Independent adjustment of level and muting for each mic/line input shall be via remote control.

Two independent balanced stereo outputs shall be provided on plug-in barrier strips. Each stereo output shall include a rear panel switch for mono operation, and a built-in stereo limiter with a rear panel screwdriver adjustable threshold control and indicator. Independent adjustment of source, level, and muting for each stereo output shall be via remote control. Each output shall have four non-volatile memory presets, which allow storage and recall of adjustment settings via remote control. A combining mode, selectable via remote control, shall cause the two outputs to function together. A front panel display shall indicate preset, stereo source, mic/line input, and relative level for each output. An external display panel shall be optional. Rear panel connectors shall accept infrared, wall-mount, custom, and/or third-party remote control options. A rear panel serial port shall allow computer control and configuration via an IBM compatible personal computer. Windows® 95 software and a serial cable shall be included.

The stereo preamp/mixer shall have a Frequency Response of +0/-2dB from 20Hz to 20kHz at +4dBu. THD + Noise shall be less than 0.05% from 20Hz to 20kHz at +4dBu. Output Noise shall be less than -75dBu from 20Hz to 20kHz at nominal levels. Mic/Line Equivalent Input Noise shall be less than -127dBu. Power Consumption shall be less than 18 Watts. Dimensions shall be 3.5 inches high (2 rack spaces), 19 inches wide, and 7.5 inches deep. Weight shall be 8.5 lbs. Warranty coverage shall be 5 years. The unit shall be CE marked with a UL / C-UL listed power source, and shall incorporate AES recommended grounding practices.

The stereo preamp/mixer shall be an ADVANTAGE® SPM522D.

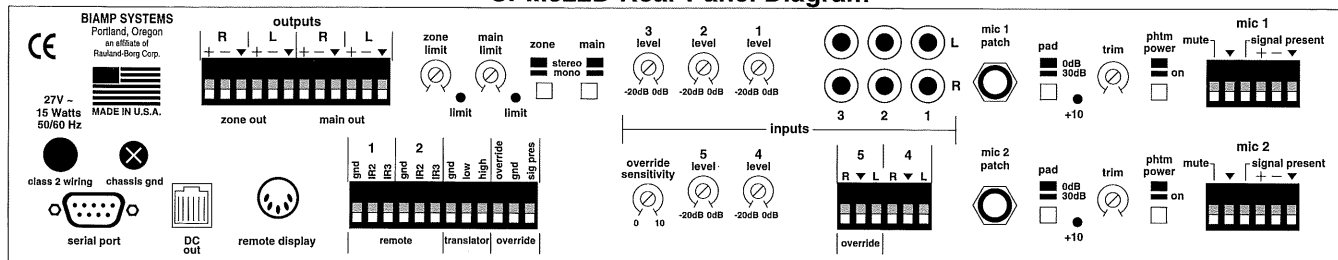
# SPM522D

## SPECIFICATIONS

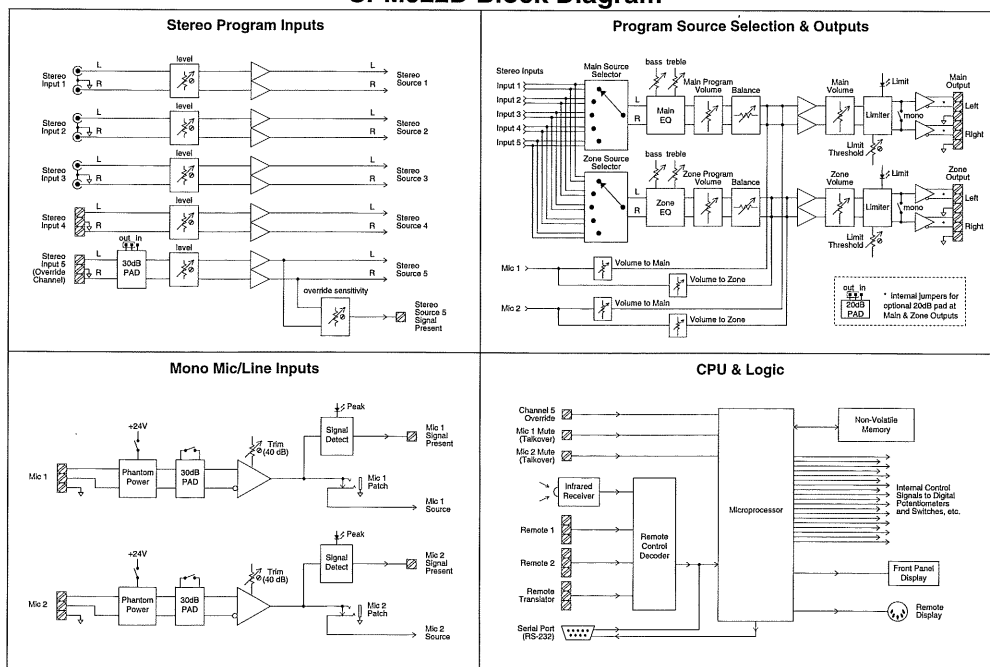
<b>Frequency Response</b> (20Hz-20kHz @ +4dBu):	+0/-2dB
<b>THD + Noise</b> (20Hz-20kHz @ +4dBu):	< 0.05%
<b>Output Noise</b> (20Hz-20kHz @ nominal levels):	< -75dBu
<b>Equivalent Input Noise</b> (20Hz-20kHz, 150Ω @ Mic/Line Input):	-127dBu
<b>Maximum Gain</b> (Mic/Line Input to Main/Zone Outputs):	75dB
<b>Input Trim Gain Range:</b>	
Mic/Line Inputs (30dB pad out)	+52dB to +14dB
Stereo Line Inputs (30dB pad out - Input 5)	+10dB to -50dB
<b>Input Impedance:</b>	
Mic/Line Inputs (balanced)	2k ohms
Mic Patch (unbalanced)	5.4k ohms
Stereo Line Inputs (unbalanced)	7k ohms
Stereo Line Input 5 (30dB pad in)	20k ohms
<b>Maximum Input:</b>	
Mic/Line Inputs (balanced)	+33dBu
Mic Patch (unbalanced)	+18dBu
Stereo Line Inputs (unbalanced)	+27dBu
Stereo Line Input 5 (30dB pad in)	+39.2dBu (70.7V)

<b>Output Impedance:</b>	
Main Output (balanced)	100 ohms
Zone Output (balanced)	100 ohms
Mic Patch (unbalanced)	100 ohms
<b>Maximum Output:</b>	
Main Output (balanced)	+24dBu
Zone Output (balanced)	+24dBu
Mic Patch (unbalanced)	+18dBu
<b>Stereo Limiter Threshold Range</b> (Main/Zone balanced):	+24dBu to +9dBu
<b>Phantom Power</b> (Mic/Line Inputs only):	+24 Volts DC
<b>DC Out:</b>	±12 VDC @ 20mA max.
<b>Power Requirements:</b>	110/220VAC 50/60Hz
<b>Power Consumption:</b>	18 Watts max.
<b>Dimensions:</b>	
height (2 rack space)	3.5 inches (89mm)
width	19 inches (483mm)
depth	7.5 inches (191mm)
<b>Weight:</b>	8.5 lbs. (3.86kg)

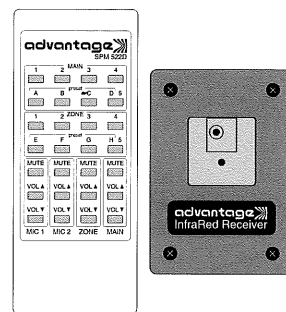
## SPM522D Rear Panel Diagram



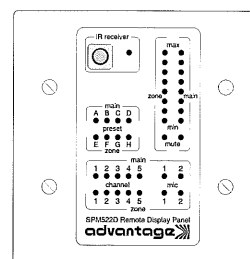
## SPM522D Block Diagram



## Transmitter & Receiver



## Remote Display Panel



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