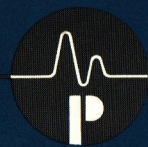
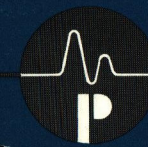


SDA-8

STEREO DISTRIBUTION AMPLIFIER



PACIFIC RECORDERS & ENGINEERING CORPORATION
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PACIFIC RECORDERS & ENGINEERING CORPORATION

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FEATURES: ■ BRIDGING STEREO INPUT TO EIGHT STEREO OUTPUTS ■ HIGH OUTPUT LEVEL, HEADROOM CAPABILITY ■ ADJUSTABLE GAIN, UNITY TO 30 dB ■ BRIDGING/TERMINATING INPUT MODE SELECTION ■ VERY LOW NOISE AND DISTORTION ■ EXCELLENT FREQUENCY AND TRANSIENT RESPONSE ■ TRUE VU METERING, SWITCHABLE TO INPUTS/OUTPUTS ■ XLR - TYPE INPUT/OUTPUT CONNECTORS ■ EFFECTIVE RF SUPPRESSION

The SDA - 8 is a high quality stereo distribution amplifier designed for general purpose use in professional audio systems. While designed as a stereo amplifier, the SDA - 8 features excellent crosstalk isolation between the stereo channels, and, therefore is also an ideal distribution amplifier for two monaural signals.

The inputs are balanced bridging, 25K ohm, which are switchable to 600 ohm terminating. The stereo bridging inputs may be parallel fed from a common signal thus providing sixteen outputs. Careful attention to the input transformer and amplifier designs has insured excellent frequency and transient response while minimizing noise and distortion.

The gain of each stereo channel may be adjusted from unity to 30 dB. This wide range makes SDA - 8 the universal amplifier for broadcast signal distribution. The gain controls are feed-back type which maintain optimum noise and headroom performance for all gain settings.

The distribution outputs are differential, balanced to ground, and designed to drive 600 ohm or higher (bridging) loads. Each output is capable of simultaneous level in excess of +26 dBm into 600 ohm loads, and +27 dBm into 10K ohm or greater bridging loads.

The VU meters conform to ASA specifications and are switch-

able from output to input reading. The meters are driven by bridging buffer amplifiers which isolate the distortion products of the meter movement rectifiers. The buffer amplifiers allow a "0" VU calibration trim range of +4 dBm to +8 dBm.

The amplifier and power supply designs are a combination of discrete and integrated circuitry. All components are conservatively rated for high performance, long life operation. The amplifier is constructed on an epoxy glass, double-sided PC board. The use of an extensive ground plane shield on the component side of the circuit board, in addition to decoupling and bypass techniques, ensures amplifier stability in high RF environments.

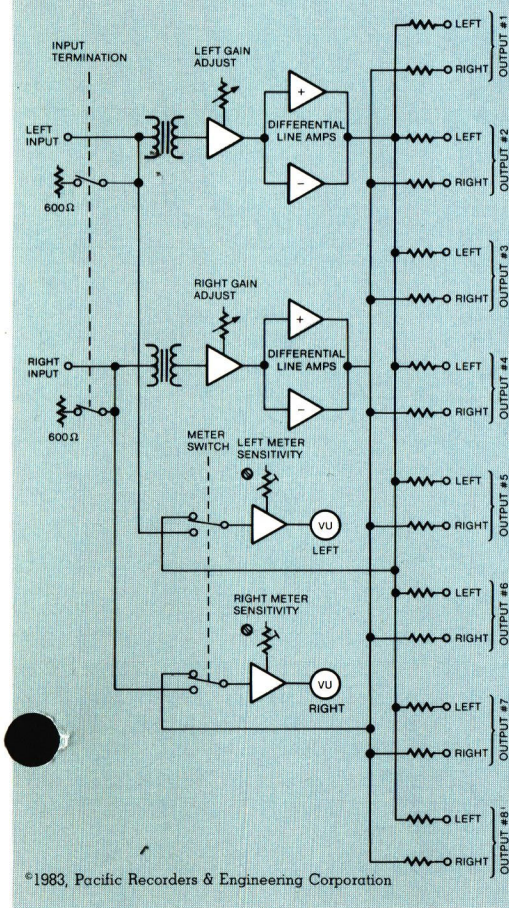
STEREO DISTRIBUTION AMPLIFIER CONTROL FUNCTIONS:

Input Termination switch provides a 600 ohm termination for the bridging inputs.

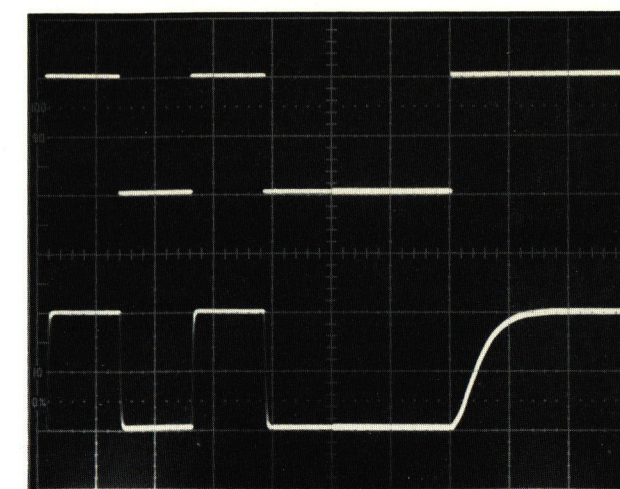
Meter Input/Output switch selects the meter monitoring source. INPUT reads the level at the amplifier input connectors; OUTPUT reads the pre-split level of the output amplifiers

Gain Trim controls have a range of unity to 30 dB input to output gain.

SDA - 8 Functional Block Diagram



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Upper Trace
2KHz Square
Wave Input
Lower Trace
Amplifier Output
Left Trace
0.2 ms/div
Right Trace
10 μs/div
Amplifier Output
Rise Time: 9 μs
Overshoot: 0%
Ringing: None

SDA - 8 TECHNICAL SPECIFICATIONS

Source Impedance	600 ohms
Input Impedance	25K ohms, balanced and floating, transformer isolated.
Gain Range	Unity to 30 dB.
Outputs	Eight balanced, differential outputs per channel.
Load Impedance	600 ohms or greater per output
Source Impedance	78 ohms, resistive
Nominal Output Level	+8 dBm. VU meter may be recalibrated for +4 dBm reference.
Maximum Output Level	+26 dBm into eight 600 ohm loads, +27 dBm into bridging loads.
Output Isolation	Short circuit of any one output results in no amplitude change at other outputs.
Crosstalk Isolation	Greater than 80 db, 20Hz to 20KHz
Frequency Response	20Hz to 20KHz, +0, -0.7 dB
Input Noise	-112 dBm RMS equivalent input noise, 600 ohm source, 20KHz bandwidth.
Output Noise	-82 dB below output, (reference +8 dBm), 600 ohm source, 20KHz bandwidth, 30 dB gain.
Distortion, T.H.D.	Less than 0.005% @ 1KHz, +8 dBm. Less than 0.07% @ 1KHz, +26 dBm. Less than 0.06%, 20Hz to 20KHz, +8 dBm.
Distortion I.M.	Less than 0.003% SMPTE, +8 dBm. Less than 0.03% SMPTE, +26 dBm.
Square Wave Response	Rise time less than 10 μs. No overshoot or ringing. 2 KHz square wave test signal.