

SR
S E R I E S



AHB

SOUND REINFORCEMENT

The **AHB SR Series** are a versatile range of sound mixing consoles designed for live sound usage and stereo or 4-track recording.

Constructed of high quality durable materials, designed and matched with components that allow ease of use, they represent the ideal equipment for high quality sound reinforcement through fixed installations or touring PA systems.

The panel colouring is designed so that under poor lighting conditions the graphics are easily read, where circumstances prevail, a connector is provided for gooseneck lights.

The SR series includes the following models:

SR8 stereo and mono outputs, 8 input channels.

SR12 stereo and mono outputs, 12 input channels.

SR16 stereo and mono outputs, 16 input channels.

SR24 stereo and mono outputs, 24 input channels.

SR416 four group, stereo and mono outputs, 16 input channels.

SR424 four group, stereo and mono outputs, 24 input channels.

All models use power supply AHB MPS8P.

CONSTRUCTION:

1. Steel control panel, stove enamel, epoxy silkscreen legend
2. Steel base, black finish with furniture trims
3. Channel circuit boards are individual, secured to control panel.
4. Internal bussbar circuits employ removable harness.
5. IC op amp circuit design with discreet transistor input pre amp.

ELECTRONIC PERFORMANCE:

0dBv=0.775 RMS 1kHz

OVU=+4dBv=1.23V RMS

GAIN:

| | |
|----------------------|-----------|
| MIC IN to GROUP OUT | +80dB max |
| MIC IN to L/R OUT | +70dB max |
| LINE IN to GROUP OUT | +50dB max |
| LINE IN to L/R OUT | +40dB max |
| GROUP to L/R OUT | +10dB max |
| L/R to MONO OUT | +6dB |

| | |
|-------------------------|-----------|
| FX RETURN to L/R OUT | +12dB max |
| AUX RETURN to GROUP OUT | +17dB max |

figures include 10dB input G group fader boost.

Input gain control range – 40dB

FREQUENCY RESPONSE:

Equaliser set to flat response –
20Hz-20kHz +0, -1dB.

OUTPUTS:

Max level +21dBv, recommended load 2K ohms or more. With 600 ohms load max level +18dBm.

DISTORTION:

THD typically 0.05% 20Hz-20kHz at normal levels and gain settings.

AC SUPPLY VOLTAGES:

Supply type MPS8P provides the DC supply for all mixer functions including 48V phantom power. It is factory set for operation on the required AC supply as follows:

| | |
|---------------|--------------------------------|
| Europe | 220/240v AC 50Hz |
| North America | 110/120v AC 60Hz |
| Japan | 100v or 110/120 or 220/240v AC |

The supply voltage setting may be altered to suit local requirements if required. BNC connector 1 to suit lamps rated 12-15v, 50m A, D.C.)

NOISE PERFORMANCE: RMS noise 20kHz bandwidth, ref OVU

| MODEL: | SR8 | SR12 | SR16 | SR24 | SR416 | SR424 |
|---|-------|-------|-------|-------|-------|-------|
| i STEREO OUTPUT, all inputs routed & faders closed. | -87dB | -85dB | -84dB | -81dB | -84dB | -81dB |
| ii GROUP OUTPUT, all inputs routed & faders closed. | -82dB | -80dB | -78dB | -74dB | -78dB | -74dB |
| iii AUX OUTPUT | -89dB | -84dB | -82dB | -79dB | -82dB | -79dB |

iv MICROPHONE INPUT equivalent noise -125dBm (200 ohm source).

EQUALISER:

HF continuously variable ± 12 dB with shelving characteristic at 8kHz.
3.5kHz continuously variable peak/dip ± 12 dB centred at 3.5kHz, Q=0.6
250Hz continuously variable peak/dip ± 12 dB centred at 250Hz.
LF continuously variable ± 12 dB with shelving characteristic at 80Hz.

Each model is shipped in protective packing with the power supply and one owner handbook which includes technical service data and schematics.

| DIMENSIONS MM (IN.) | SR8 | SR12 | SR16 | SR24 | SR416 | SR424 | MPS8P |
|---------------------|----------|----------|----------|----------|----------|-----------|-----------|
| WIDTH | 472 (19) | 600 (24) | 728 (29) | 984 (39) | 872 (35) | 1128 (45) | 85 (4) |
| HEIGHT | 100 (4) | 100 (4) | 100 (4) | 100 (4) | 100 (4) | 100 (4) | 75 (3) |
| FRONT TO BACK | 644 (26) | 644 (26) | 644 (26) | 644 (26) | 644 (26) | 644 (26) | 285 (112) |
| WEIGHT KG. (LBS.) | 16 (36) | 20 (44) | 25 (55) | 31 (69) | 26 (58) | 35 (77) | |

ALLEN AND HEATH BRENNEL LTD.

In line with our policy of continuous product improvement, we reserve the right to amend the design and specification of equipment without notice.

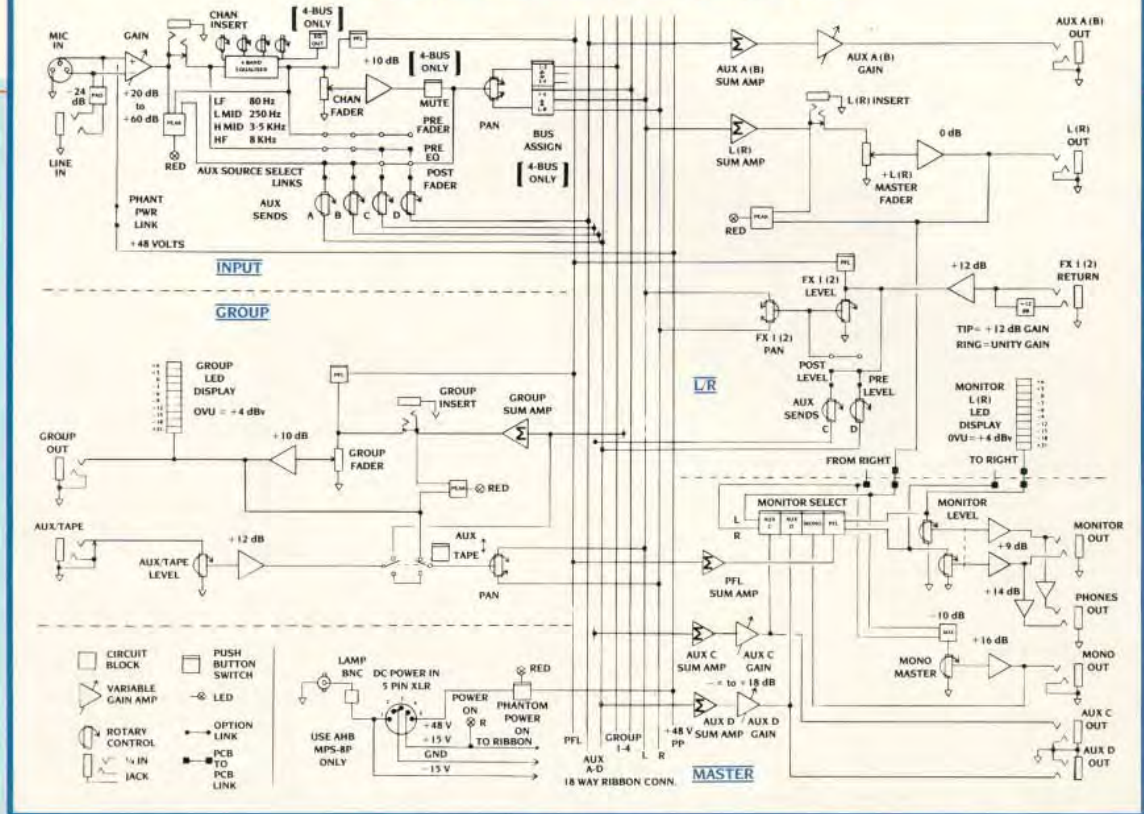
CONTROL FUNCTIONS

| INPUT CHANNEL | GROUPS | OUTPUT CHANNELS | MASTER |
|---|---|--|---|
| <p>1/4" line level Input Jack accepts balanced or unbalanced signals.</p> <p>XLR Microphone input electronically balanced.</p> <p>Pre-Equaliser Insertion Point allowing processing equipment to be patched into individual channels.</p> <p>Channel Gain control 10dB to 60dB range.</p> <p>4 Band Fixed E.Q. High Frequency Shelving 8KHz High Mid Frequency Peaking 3KHz Low Mid Frequency Peaking 250KHz Low Frequency Shelving 80Hz E.Q. By-pass Switch*</p> <p>4 Auxiliary Sends 2 pre fader/pre E.Q. 2 post fader Configuration user Modifiable A & B used as effects sends C & D used as monitor sends</p> <p>Buss Assignment Direct to L/R or submaster 1/2 or 1/4*</p> <p>Left Right Pan Control</p> <p>Channel PFL Switch</p> <p>Channel Mute Switch*</p> <p>Input channel, Peak LED indicator. Illuminates when channel approaches overload.</p> <p>Channel 100mm long throw fader.</p> <p>(* - SR 416 and 424 models only.)</p> <p>Scribble patch.</p> | <p>Output of group to tape machine etc.</p> <p>Insertion point for aux effect returns or tape monitor.</p> <p>Insert allowing processing equipment to be patched into individual groups.</p> <p>Group meter, monitors the output level of the group. Range - 21 to +6 Vu (0 Vu = +4dBV).</p> <p>Aux/tape level control. Controls the return level of the signal selected by Aux/ tape switch.</p> <p>Aux/tape Switch. Selects the function of the group auxiliary return circuit to act as an aux effect return to the group or a tape monitor to the stereo mix.</p> <p>Left/Right Pan Control. Controls the position of the group signal in the stereo image.</p> <p>Group PFL Switch. Injects pre-fader group signal into PLF mix buss.</p> <p>Peak Indicator LED warns of impending group overload.</p> <p>Group 100mm long throw fader.</p> <p>Scribble patch.</p> | <p>L(R) master outputs of Desk.</p> <p>Aux A(B) source for FX devices.</p> <p>Returns from FX devices.</p> <p>Insert allowing processing equipment to be patched into the stereo output channels.</p> <p>L(R) meters. Follow the mode selection switch with choice of Stereo Output, Mono Output, PFL signal. Aux outputs C or D (usual monitor outputs). When no switch is depressed meters indicate L/R output of mixer.</p> <p>Aux A(B) Master output level controls for aux mixes A & B.</p> <p>FX Returns 1 (& 2) Aux C, controls FX return to monitor mix C, Aux D, controls FX return to monitor mix D. Level controls amount of FX returned to L/R Outputs. Pan positions FX returns within the stereo image.</p> <p>FX Returns PFL select switch.</p> <p>L(R) overload peak warning LED.</p> <p>L(R) 100mm long throw faders. Master level of stereo output as well as summed mix for mono output.</p> <p>Scribble patch.</p> | <p>Monitor Output.</p> <p>Aux C/D outputs for foldback.</p> <p>Summed Mono output of desk.</p> <p>Power on indicator LED. Phantom Power on/off switch.</p> <p>Master Output levels Aux C & D. Control the final output level of aux mix busses C & D.</p> <p>Mono Level Control. Controls the final level of the mono output.</p> <p>Monitor source selection including PFL master switch. Monitor output level control.</p> <p>Headphone Jack Socket, signal follows the monitor select switches at the level selected by the monitor level control.</p> |

MIXING ART WITH SCIENCE



SR SERIES BLOCK SCHEMATIC



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