

SRM

S E R I E S



SRM 248

The AHB SRM Series of 'On-Stage' monitor mixers are designed for bands and artists requiring multiple independent mixes, permitting individual band members to each have their own tailored mix at a specific volume.

The SRM Series achieves this and much more, providing quality foldback mixes at affordable prices, whilst saving you money by including such features as internal microphone splitters.

To be used in conjunction with a high quality monitor system, both the needs of the artist and engineer are easily satisfied by the SRM's extensive use of patch and insert points, and the liberal use of LED status indicators throughout.

Monitor systems have been shown to be capable of producing higher and more intelligible sound levels before feedback when the mixing equipment and engineer are in the same environment as the artist (On stage, usually behind the main speaker system). Because of the better communications between the artist and engineer, the mix can more easily be tailored to the artist's needs.

The engineer's portion of the monitor system is designed so that external equalization can easily be patched into any of the individual groups. The equalized signal can be monitored through the PFL (Solo) system, exactly as the artist is hearing it. The engineer has a choice of monitoring, using headphones or his own speaker system. A mute switch is provided on this output to eliminate the need for adjusting engineering monitor levels when switching between headphones and speakers. A separate LED meter is used to follow the PFL (Solo) function of the mixer. This prevents confusion that could occur if one meter was used for multiple functions, as employed in some current designs.

Physical layout and colour selections have been chosen for ease of operation under low light conditions as are often encountered on stage wings during a performance. BNC connectors are provided for use with optional gooseneck lights. An arm rest is provided for engineering comfort during long performances.

All together, the AHB SRM Series represents the best value in reliable, high quality on-stage mixing equipment.

AHB

SOUND REINFORCEMENT



SRM 186

INPUT CHANNELS: (18 or 24)

- Microphone splitter system
- Line input
- Insertion point — Pre E.Q.
- Input pad (20db)
- Mic/line select
- Channel gain control (20dB to 60dB)
- E.Q. HF 10kHz shelving
MID sweep from 220Hz to 6kHz
LF 100Hz shelving
- E.Q. cut switch
- PFL select with status indicator
- Channel on select with status indicator
- Group send colour coded level controls for easy identification

GROUP OUTPUT:

- Aux One Returns
- Aux Two Returns
- Insert Select
- PFL Select
- PFL Select LED Indicator
- Peak LED Indicator
- Group On Select
- 80Hz Roll-Off Filter
- Talkback Select
- Group Fader

MASTER SECTION:

- DC Power LED
- PFL Meter
- Aux One Return Master
- Aux Two Return Master
- Aux One PFL Select
- Aux Two PFL Select
- PFL Indicator (PFL Busy)
- Monitor On Select
- Monitor Level
- Talkback On Indicator
- Talkback Level
- Headphone Level

GENERAL SPECIFICATIONS

All Outputs Except Headphones

Normal operating level +4dBv
Maximum output level +21dBv
Output impedance 50 ohms

Headphone Output

Bringing amp output will drive stereo headphones of 8 ohm to 2K ohm design.

Maximum Gain (dB referring to voltage gain)

Mic in to group out +80dB
Line in to group out +50dB
Aux in to group out +32dB
TB in to group out +50dB

EQ Characteristics

HF ± 15dB continuously variable at 10kHz
MID ± 12dB continuously variable at any frequency between 250 Hz and 6kHz. Q = 1.4
LF ± 15dB continuously variable at 100Hz

Total Harmonic Distortion

Channel input to group output. Typically .05% THD at any frequency between 20Hz to 20kHz and any level up to any clipping.

Noise

Noise measured in bandwidth of 20Hz to 20kHz. Figures are RMS Noise ref to 0dBv (775vRMS). Microphone equivalent input noise -125dBv measured with 200 ohm termination.

1. Group output with group fader closed -90dBv
2. Group output with group fader at '0' (unity gain) -68dBv
3. Group output with group fader at '0' (unity gain) -68dBv
- 1 input mixed at unity gain (mic level at 3 o'clock)
- Input gain set at 40dB, EQ bypassed.
4. Group output with group fader at '0' (unity gain) -65dBv
- Input gains set for 40dB, EQ bypassed.

Crosstalk

Group to group

1 group output at +4dBv
Adjacent group output measured at 100Hz — -80dBv
1kHz — -80dBv
10kHz — -76dBv

Channel Inputs

Mic input electronically balanced suitable for safe connection of external phantom power supply of up to +18vDC. Phantom power is not provided by the mixer PSU.

XLR pin 3 hot (+)
pin 2 cold (-)
pin 1 screen (GND)

Input impedance Mic 4kohm no pad
8kohm with pad

Line inputs. Electronically balanced. Can be used for balanced or unbalanced inputs.

1/4" jack tip hot (+)
ring cold (-)
sleeve screen (GND)

input impedance balanced 40Kohm
unbalanced 20Kohm

Mic output: Male XLR in parallel with input female XLR. Connections are direct.

Gain Mic — continuously variable from +15dB to +60dB
Line — continuously variable from -15dB to +30dB

Pad Mic — -20dB
Line — -6dB

Insert points — unbalanced 1/4" stereo jacks
tip = return
ring = send
sleeve = GND

Normal operating level = +4dBv.

Aux Inputs

Mono 1/4" jack. 50 kohm impedance
Maximum gain to group output +32dB

Group and Monitor Outputs

Unbal 1/4" jack output. Nom output +4dBv.
Max output +21dBv into 2kohms or higher
+18dBv into 600ohms

Metering

10 segment LED ladder. 27dB range, from -21dB to +6dB ref to OVU (OVU = +4dBv) 3dB/step. OVU is indicated when the first red segment lights.

Each group meter follows the group output
The PFL meter always follows the PFL system.

Talkback Input

Unbal 3 pin XLR. Pin 3 hot, pins 2 and 1 tied to earth.
Input impedance 50kohm when TB operating, 2kohm when not selected.

Power Supply

AHB type MPSSP, stowed under the mixer armrest. Connection to mixer is by locking XLR 5 pin plug.
NB. Mixer power supply does NOT provide +48v phantom power at mic inputs. An external power source must be used.
Supply type MPSSP provides DC for all mixer functions. 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 100/120 or 220/240v AC.

The supply voltage setting may be altered to suit local requirements if required.

Lamp Facility

Each 50ohm panel BNC connector carries 15 volt DC supply in series with a 22ohm current limiting resistor. Suits connection of 'Littlite' type gooseneck fittings.

DIMENSIONS (IN FLIGHT CASE)	WEIGHT
SRM-186 40.5 inches x 29.5 inches x 7.5 inches	80 lbs.
1030mm x 750mm x 190mm	36kg
SRM-248 52.0 inches x 31.5 inches x 7.5 inches	105lbs.
1320mm x 800mm x 190mm	48kg



69 Ship Street, Brighton BN1 1AE East Sussex
Tel: (0273) 24928 Telex: 878235 MBI AHB G

5 Connair Road, Orange, Connecticut 06477 USA
Tel: (203) 795 3594