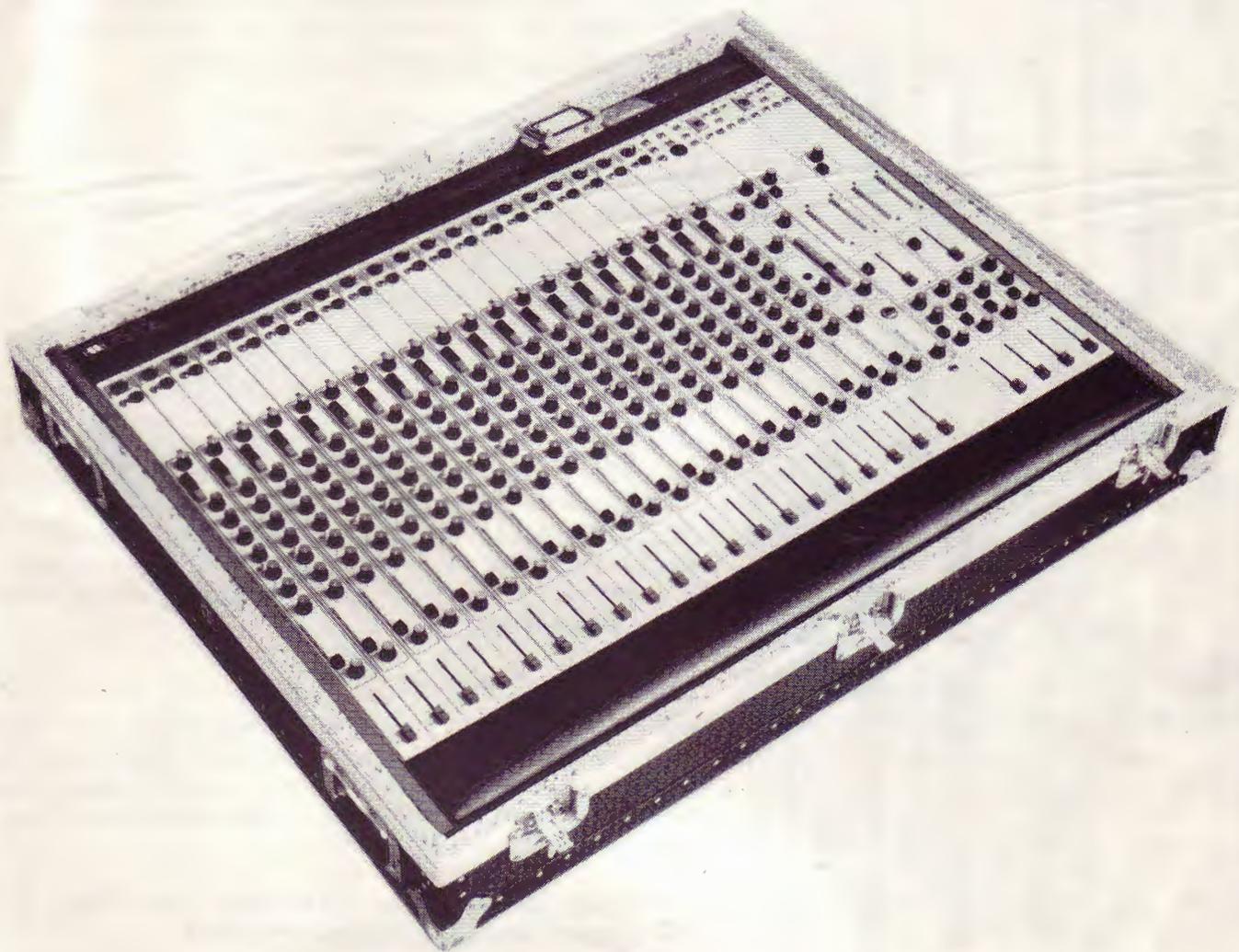


SR20

SOUND REINFORCEMENT CONSOLE



CONCERT AND THEATRE
MIXING CONSOLE 20x4x2

AHB
ALLEN AND HEATH BRENELL LTD.

SR 20 and SR 28

Preliminary Product Information

The Allen and Heath Modular mixing concept has been successfully established in the recording studio world for several years. The increased demand for a more sophisticated live sound mixing console has resulted in a number of studio consoles being used in theatres and auditoriums in order to obtain a greater degree of flexibility and fidelity.

The SR 20 represents a logical development of this trend and has been designed specifically to meet the demanding requirements of the modern stage production, both musical and dramatic.

A totally expandable format allows up to 20 or 28 input channels to be fitted depending on the frame size chosen. Each channel feeds twelve mix busses offering the following routing facility:

Route to Subgroups	4
Route to stereo masters	2
Route to auxiliary masters	2
Route to auxiliary sends	3
Route to PFL system	1

By grouping channels as required a major part of the sound mixer's task can be eliminated, allowing him to concentrate on the creative aspect of his work. The fully modular construction enables rapid in field' servicing and part replacement. In critical situations spare modules can be inserted in a few seconds.

Input Channel Module

Each channel has a transformer balanced, low noise, input stage with low distortion and high headroom. Mic and line signals may be permanently connected without crosstalk. The following facilities are provided as standard:

- * Variable gain pre amp with input pad on mic and line and switchable high pass filter
- * Three bank equalization with parametric mid-band. An eq. cut switch is provided as standard.

* Three auxiliary sends may be pre-selected to either pre or post fader by an undermodule link. As supplied two are pre and one post fader.

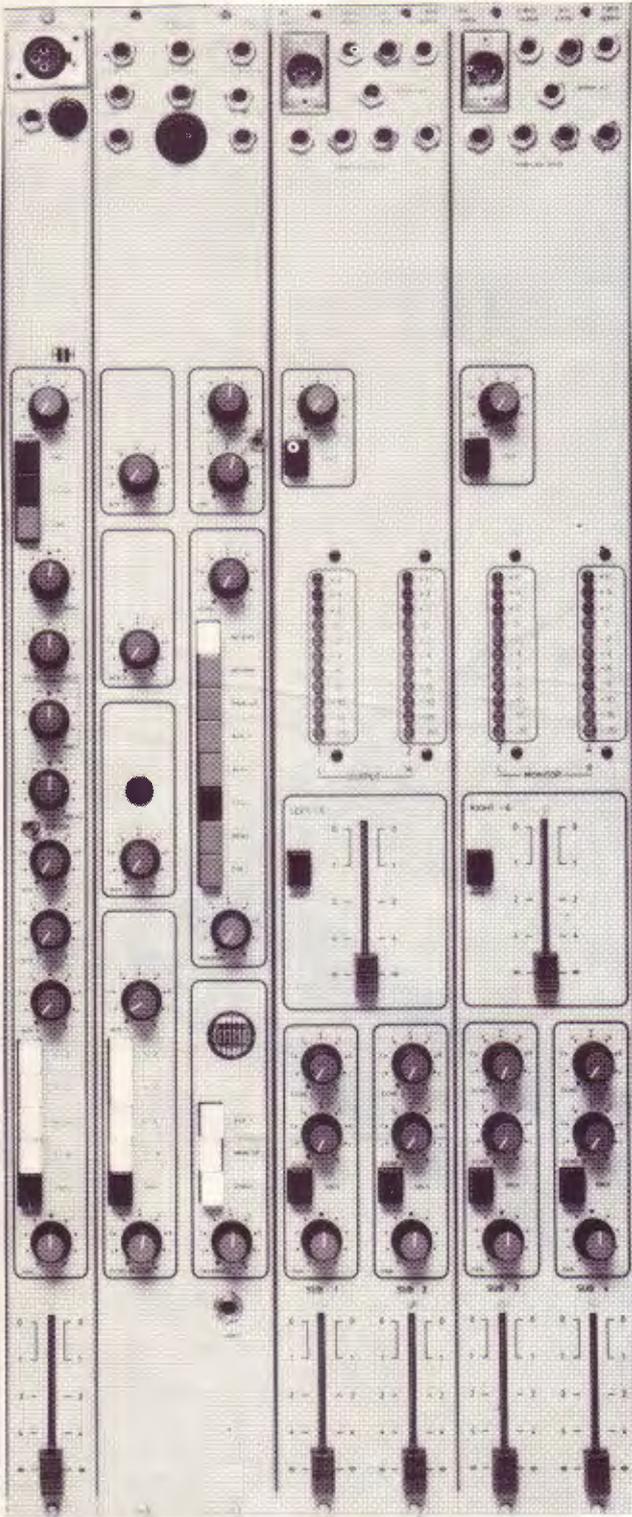
* An input insertion point is provided for limiting or special effects.

* Each input may be routed to subgroups and masters as required. Stereo panning enables stereo grouping and mixing. Pre fade listening (solo) is linked to the main monitor system

Output Module

Two modules give control of left and right master outputs. The following facilities are provided:

* Four subgroups, all panable to the main output faders with two echo returns and solo on each.



- * Two master faders with SOLO
- * A comprehensive meter system reads either the four subgroups or the programme selected on the monitor system. Meters 1 and 2 read the stereo output in this mode.
- * Two auxiliary masters are provided both with pre-fade monitoring. These may be used for simultaneous recording, echo send, or an additional speaker system requiring an independent level.
- * Insertion points are provided on each subgroup and master for additional equipment such as limiters and graphic equalizers.

Master Control Module

This module allows the engineer to monitor all signals within the console without affecting the main mix. The following facilities are provided:

- * Three auxiliary master sends
- * Stereo echo return and routing. Echo may also be routed to auxiliary one for foldback with echo.
- * Eight monitor selectors control the feed to the powerful stereo monitoring headphone amplifier. Stereo monitoring is provided on main outputs and tape return. Echo return to monitor is provided for cuing purposes.
- * A comprehensive talkback system gives communication to foldback (stage monitors), main output and a separate stage to desk line if desired. An integral omnidirectional microphone is provided with level control.
- * A test oscillator with sweep frequency and level may be patched to any of the input or output insertion points.

Console Interface

Each module carries its relevant input and output connectors, the mic inputs and main output being XLRs. A multipin connector is provided for use with an optional multicore and stagebox system.

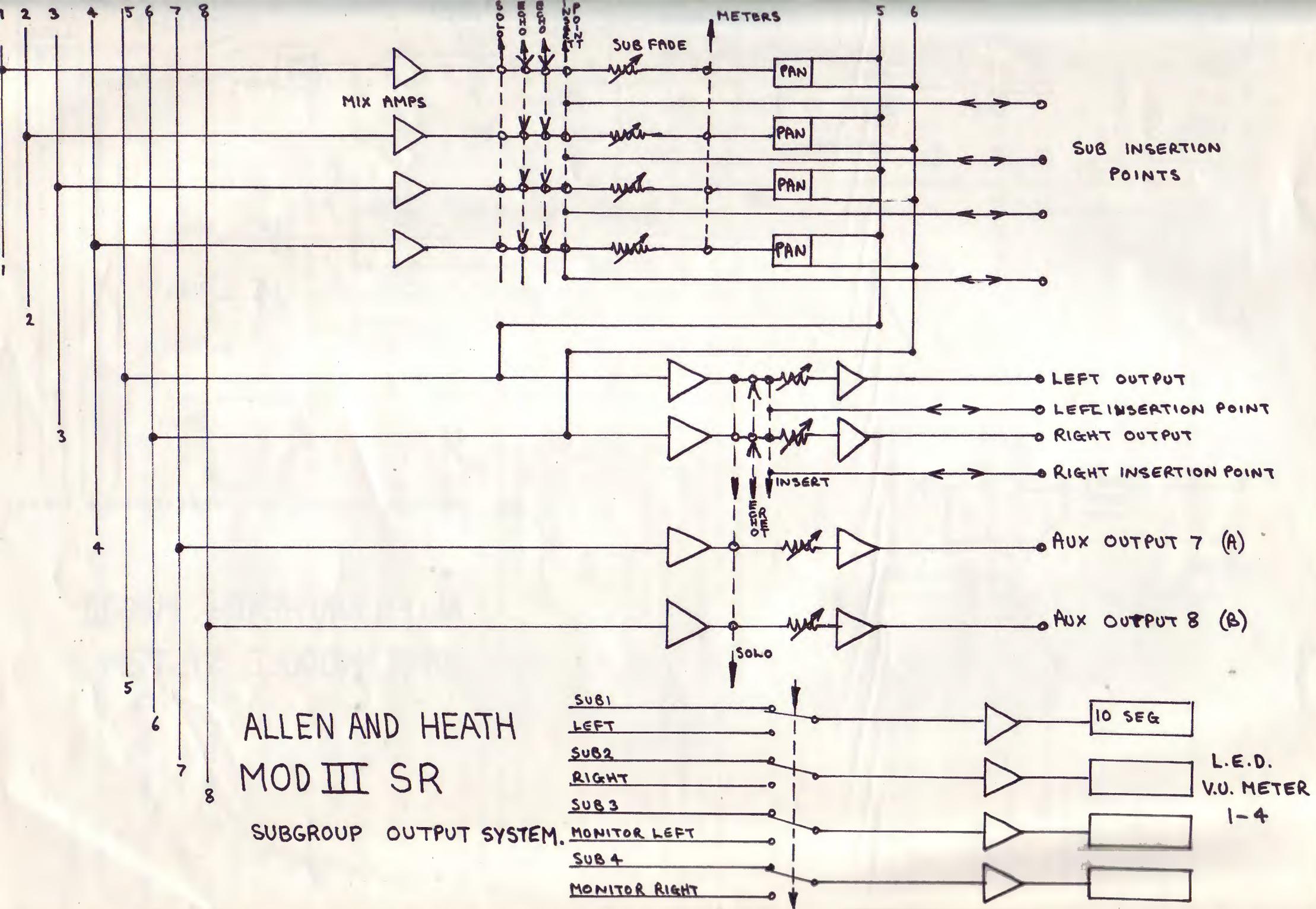
SR 20 and 28 - Technical Specification

Format	SR 20: 20-4-2	SR 28: 28-4-2
Equivalent Input Noise	-126dB	
Sensitivity	-80dB	
Maximum Output	+18dBm	
Noise	Better than -75dB overall	
Frequency Response	30Hz to 20kHz \pm 1dB	
Output Operating Level	0dBm including insertion points	
Equalization	<u>+16dB</u> at 10kHz	
	<u>+16dB</u> at 100Hz	
	<u>+18dB</u> at 1.8kHz to 7.5kHz continuously variable.	

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ALLEN AND HEATH
 MOD III SR
 SUBGROUP OUTPUT SYSTEM.

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