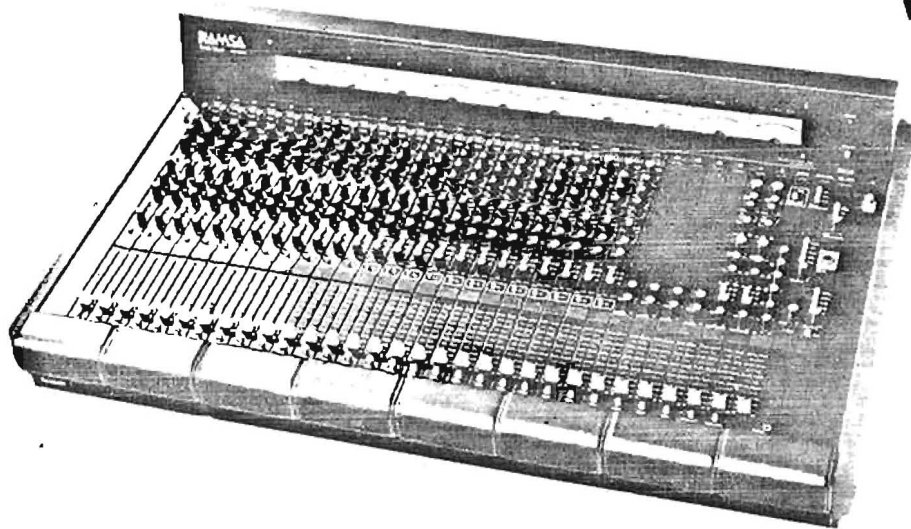


Panasonic

RAMSA

SOUND REINFORCEMENT
MIXING CONSOLE
WR-8724



24 × 4 × 2 × 1 MIXING CONSOLE FOR SOPHISTICATED SOUND REINFORCEMENT

OUTLINE

10-line Variable Mixing Busses

With 4 Group, 2 Master, 1 Mono Master, 2 Send, and 2 Echo busses — a total of 11 outputs — the WR-8724 is capable of versatile operation with a wide variety of echo and sound enhancement equipment. This gives the operator all the flexibility needed for the sophisticated demands of contemporary music.

In addition, the 24 Input modules and 4 Group modules are equipped with individual insertion jacks, to allow connection of external equipment. The WR-8724 is adaptable to larger scale mixing needs through interconnection of a second mixing board, via the Sub-in inputs.

Effective Instrument Grouping

Because Ramsa has designed this unit with left and right channel assign capability, it can transmit signals directly from the Input modules to the Master modules. Therefore, the input from a particular mic — a vocalist, for example — can be sent directly to the Master fader controls, bypassing the Group modules. Thus, the 4 Group modules may be used exclusively for creating the most desirable instrumental balance, while still allowing the desired effects from a particular solo performer to be achieved. Naturally, Stereo and Mono Master modules still provide total fade in/fade out control of the Input and Group signals. This means that the completed instrumental balance adjustments can be

left intact, while all volume changes are made with the L, R Master and Mono Master faders.

Flexible Equalizer Controls

Equalization is an invaluable tool for assuring that instruments are heard by the audience with their desired tonality.

1) INPUT EQ

Three rotary knobs for High, Mid, and Low provide ± 12 dB of boost or cut at their respective frequency settings. The High and Low knobs are 3-position "shelving" type controls, while the mid-range provides continuously variable peak-dip adjustment. These not only give precise tonal control over each input, but can also be used effectively to suppress feedback.

2) SEND EQ

To ensure that the stage performers can monitor whatever specific signals they require, a 3-band EQ section with the Master Send control is provided. With other mixers, a separate equalizer system is often required for stage monitoring — at extra cost and inconvenience. The WR-8724 provides the same facility with its Send EQ function.

3) ECHO RETURN EQ

A 2-band EQ section (shelving controls at 10 kHz and 100 Hz) is provided on the Echo Return Control section at the Left and Right Master modules.

Highly Reliable Design

The fader controls on the Input, Group, and Master modules are constructed of special conductive plastic material for high reliability. The long 100 mm stroke, along with the dB calibration scale, greatly facilitates precise operation. ICs and transistors, which provide good value and increase reliability. Unlike the potentially problematic soldered connections found on many mixer units, the rear panel connectors are wire-wound with tough lapping coils (the same type of connectors that are utilized in computers and test instruments) to reduce the likelihood of malfunction during use. Of course, the discrete design of the individual modules themselves makes it easy to pinpoint and remedy any problem quickly and easily.

Functional Monitor Capability

Each Input module is equipped with a lockable solo button that permits prefader monitoring. On the 4 Group modules however, the solo button operates post-fader. And, since the Solo control has priority, other settings may be monitored without disturbing the Master output signal. Either headphones or speakers may be employed for monitoring the Master (L, R), Mono Master Send (L, R), and

Echo (L, R) busses.

Operator-Oriented Design

There are several design features which contribute to quick, easy operation of the WR-8724. These include:

1) COMPACT SIZE

The overall dimensions are ideal for a one-man operation and the 1-1/4" width of each module makes the WR-8724 amazingly compact, especially considering its wide variety of features. It is also extremely easy to transport and set up this mixer, because it is designed to operate off an external power supply; the entire console weights only 144 lbs.

2) EXTRA VISIBILITY

The low profile won't obscure or block the operator's view of the stage, yet the meters are large, and placed for easy visibility.

3) COLOR CODING

Separate functions are easily recognized by the color-coded knobs, which also assist in positive identification when working in poorly lit areas.

4) LITTLE-LITE CONNECTOR

2 connectors are provided at both sides of the front panel.

TECHNICAL SPECIFICATIONS

| | |
|--------------------------|---|
| Frequency Response: | MIC INPUT — $\pm 1.0\text{dB}$, 20Hz to 20kHz 64dB Gain at trim control max +4dB at Group Output |
| | LINE INPUT — $\pm 0.5\text{dB}$, 20Hz to 20kHz 24dB Gain at trim control max +4dB at Group Output |
| THD: | MIC INPUT 0.07% 20Hz to 20kHz (74dB Gain, +20dB at Group Output) |
| | LINE INPUT 0.07% 20Hz to 20kHz (34dB Gain, +20dB at Group Output) |
| SMPTE IM Distortion: | 0.02% (Mic or Line Inputs +20dB at Group Output) |
| Equivalent Input Noise: | -128dB Maximum -132dB Typical IHF "A" WTD (74dB Gain 150 ohm Source) |
| Maximum Input Level: | MIC: +12dB at MIC PAD position LINE: +32dB |
| Maximum Gain: | MIC: 74dB $\pm 1.5\text{dB}$ LINE: 34dB $\pm 1.5\text{dB}$ |
| Cross Talk: | 60dB at 1kHz |
| CMRR: | 70dB Minimum at 1kHz 80dB Typical |
| Phantom Power: | +48V DC Regulated 150mA Maximum Current |
| Input Channel Equalizer: | High 4k/8k/12kHz $\pm 12\text{dB}$ (Shelving) Mid 400 to 6.3kHz $\pm 12\text{dB}$ (Peaking) Low 60/120/240Hz $\pm 12\text{dB}$ (Shelving) |

| | | | |
|-------------------------------|--|------------|--|
| Send Master Equalizer: | High | 10kHz | ±12dB (Shelving) |
| | Mid | 1k/2k/4kHz | ±12dB (Peaking) |
| | Low | 100Hz | ±12dB (Shelving) |
| Inputs: | MIC IN | 24 | MIC -60dB to -40dB, 5K ohm PAD -40dB to -20dB, 5K ohm |
| | LINE IN | 24 | -20dB to 0dB, 10K ohm |
| | ECHO RETURN IN | 2 | -10dB, 20K ohm |
| | SUB IN | 10 | -4dB, 100K ohm |
| Echo Return Equalizer: | High | 10kHz | ±12dB (Shelving) |
| | Low | 100kHz | ±12dB (Shelving) |
| Mixing Busses: | GROUP | 4 | |
| | MASTER | 2 | |
| | SEND | 2 | |
| | ECHO | 2 | |
| | SOLO | 1 | |
| Outputs: | GROUP | 4 | +4dB, 600 ohm |
| | MASTER (L, R) | 2 | +4dB, 600 ohm |
| | MONO | 1 | +4dB, 600 ohm |
| | SEND | 2 | +4dB, 600 ohm |
| | ECHO | 2 | +4dB, 600 ohm |
| | MONITOR | 2 | +4dB, 3K ohm |
| | HEAD PHONES | | 2 Watts/8 ohm |
| Insertion Jack: | Input | 24 | -10dB, (Send/Return) |
| | Group | 4 | -10dB, (Send/Return) |
| TB/OSC: | TB Mic | 1 | XLR Connector |
| | OSC | 1 | 1kHz and Pink Noise |
| | TB In | 1 | -20dB |
| | OSC Out | 1 | -10dB, 3K ohm |
| Maximum Output: | +22dB | | |
| Meters: | 10 x VU Meter with Peak LED | | |
| Fader: | 100 mm stroke Professional Straight Line Fader | | |
| Peak Factor: | Headroom | 32dB | |
| | Program | 18dB | |
| Power Consumption: | AC 120V 60Hz, 200W | | |
| Dimensions: | 46-31/32" (W) x 10-7/16" (H) x 29-23/32" (D) | | |
| | (1,193mm) | (265mm) | (755mm) |
| Weight: | Approx. 144lbs (65kg) | | |

*0dB is referenced to 0.775V.

Weight and dimensions shown are approximate.

Specifications are subject to change without notice.

LEVEL DIAGRAM

