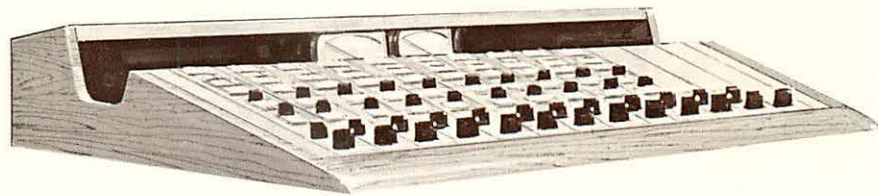# Langevin

AM4A MIXER ASSEMBLY

am4a mixer assembly

For recording studios, churches, public meeting halls, auditoriums . . . wherever audio mixing is required.

Langevin's new AM4A offers a totally new concept in a sophisticated sound mixer.

The building block concept of the AM4A lets you buy only the channels you need. Just unpack , connect your input and output lines, drop in the modules . . . and you're ready to go.

Each block is a pre-wired, plug-in module. Pre-amplifier, line amplifier modification groups, and multi-channel gain control modules are available . . . and each channel provides true fidelity of sound.

Priced well within the range of the most modest budget, the basic AM4A starts at less than $3,500.00.

The entire assembly is pre-wired and ready to accept additional facilities as needed . . . offering simplified expansion capabilities tailored to the individuals' requirements.

If you want real flexibility in a sound mixing system . . . then you'll be interested in the AM4A . . . check the specifications and see why the AM4A carries on the Langevin tradition of the finest name in professional sound equipment.


SYSTEM SPECIFICATIONS

(Specifications meet ASA and NAB requirements and are for a complete mixer assembly and not for individual modules.)

INPUT Z: For sources between 150 and 600 ohms. All specifications given are for 250 ohm source. The true input impedance is approximately 2400 ohms. Input is to input transformer, not grounded.

INPUT LEVEL: 60 dB signal to noise can be maintained with input level as low as −62 dBm. Proper operation of input attenuation buttons prevents overload with levels as high as +27 dBm. Any signals ranging from low level microphones to outputs of lines or tape recorders may be accommodated.

FREQUENCY RESPONSE: Without LF or HF equalization, ±1.0 dB, 20 Hz to 20 KHz @ output level of +8 dBm @ 1KHz.
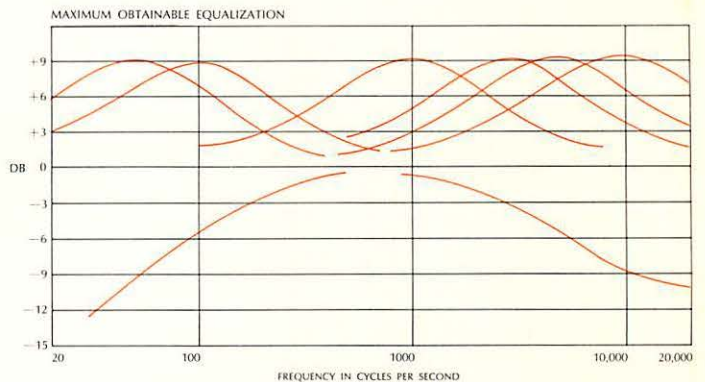
TOTAL HARMONIC GENERATION: Practically unmeasurable at vu meter levels of either +4 dBm or +8 dBm. Not over 0.3% over the range 30 Hz to 15 KHz @ output level of +22 dBm. Not over 0.1% @ 1KHz @ +22 dBm.

NOISE GENERATION: Without LF or HF equalization, not to exceed a level of −122 dBm input equivalent.

STANDARD OUTPUT LEVEL: +4 dBm or +8 dBm, according to vu meter attenuator strapping (located on rear of meters.)

OUTPUT IMPEDANCE: 600 ohms .

THE PANEL MODULES

All panel modules are designed for sound reinforcement and recording applications and contain all the active circuitry of the AM4A. Terminals are provided for inputs to external power amplifiers. Panel modules measure 2-3/16" x 15" and plug into pre-wired connectors within the mixer assembly . . . expansion capability is limited only by the audio requirements of the studio.

am 401 input module

OUTPUT ASSIGN (push-push), not interlocked.

SOLO (push momentary) For rehearsals. When depressed, all channels go dead except the one with the depressed button.

INPUT ATTEN DB (interlocked) one-down-at-a-time. Prevents overdrive.

HF (interlocked) selects HF equalization boost peak frequency. 3, 5, 10, KHZ.

DEGREE OF HF EQUALIZATION (rotary). HF boost and attenuation.

LF (interlocked) selects LF equalization boost peak frequency. 50 Hz, 100 Hz, 1KHz.

DEGREE OF LF EQUALIZATION (rotary). LF boost and attenuation.

REVERB POINT, B and A (interlock), before or after mixer control.

REVERB SEND (stepless) Note: OUTPUT ASSIGN switches, top of panel, switch reverb and program.

MIX (stepless) For channel gain.

am 407 program module

The AM407 module receives the outputs of various input modules. Circuitry between modules is prewired within the AM4A assembly.

"Reverberation Point" switches are also provided on this module. When the "MON" button is depressed . . . reverberation will be heard in the monitor only (provided there is an external reverberation chamber or generator). This feature allows recording without reverb although reverb monitoring may be desired.

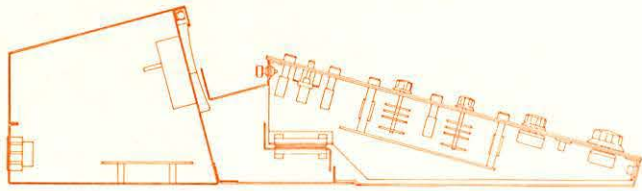The AM407 has gain and reverb receive controls.

mg 61 master gain control modification group

One master gain knob is the only control on this panel. This provides a fade-out of all program modules. Channel capacity of the module is indicated by a number following the slant (/) bar . . . as an example: A two channel panel is MG61/2. A four channel panel is MG61/4.

the am4a housing

Low silhouette design of the AM4A mixer provides the operator with a convenient sloping work panel. Over all height is 7" and depth is 27". Width will vary according to the maximum number of panel modules desired. Housings are stocked in various widths which accommodate different quantities of panels.

Vu meters are 4" illuminated Honeywell MS3.

Pre-wired circuitry and a solid-state power supply within the mixer assembly provide the necessary interconnections and power requirements for any module combination. Two, three and four output channel versions are available from LANGEVIN stock.

Input and output lines may be permanently connected to solder-lug boards within the housing. As an option, the user may install XL-type connectors in holes provided in the rear of the housing.

Apparatus blank panels are required if the total number of modules do not completely fill the available housing capability.
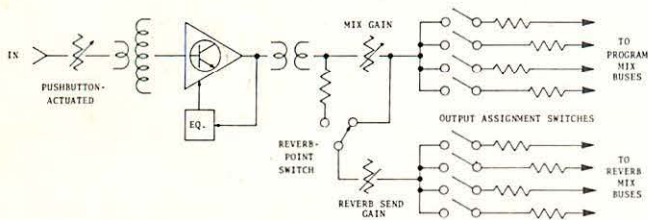
BLOCK DIAGRAM OF AM401 INPUT MODULE

Langevin