

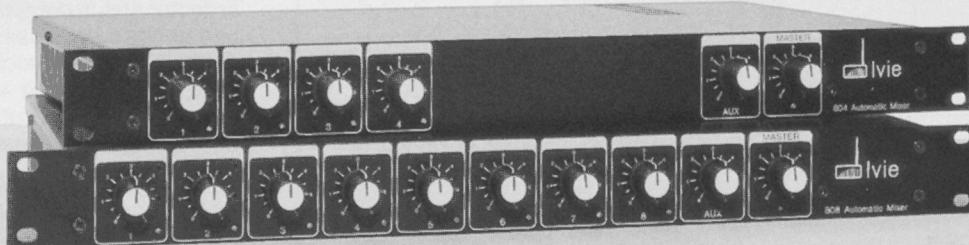


# 804/808 Automatic Mixer

Ivie Technologies, Inc.



Optional  
Remote Control



## SPECIFICATIONS

**Frequency Response:**  
20 Hz to 20,000 Hz +/- 1dB

**Equivalent Input Noise:**  
-126 dBm per channel, A weighted

**Distortion:**  
.1% 20Hz to 20 kHz @ +18 dBm

**Maximum Gain:**  
78 dB

**Microphone Input Equalization,**  
Channels 1 and 2,  
Treble,  
Level: +/- 12 dB at 10,000 Hz  
Hinge Frequency: 1,000 Hz  
Bass,  
Level: +/- 12 dB at 30 Hz  
Hinge Frequency: 1,000 Hz

**Input Configuration:**  
4 or 8 mic/line (2 with bass and treble control)  
1 auxiliary  
1 background  
1 page

**Microphone Input Impedance,**  
Actual: 6,800 ohms  
Electronically balanced

**Recommended: Input:**  
150 to 600 ohms

**Line Input Impedance:**

Actual:  
20,000 ohms electronically balanced  
Aux, music, and paging inputs:  
Impedance 50,000 ohm unbalanced

**Phantom Power:**  
+24 VDC thru 3,400 ohm resistors

**Output Load Impedance:**  
600 ohms or greater, xifir bárdncea

**Maximum Output Level:**  
+18 dBm

**Pre-Vca Output Impedance:**  
604 ohms

**Pre-Vca Output Level:**  
3 to 60 dB relative to input level  
~18 dB below master output level

**Pre-Vca Mix Output Impedance:**

604 ohms

**Pre-Vca Mix Output Level:**  
6 dB below master output  
at zero attenuation

**Post-Vca Output Impedance:**  
604 ohms

**Channel Off Attenuation:**  
0 to -90 dB

**Channel Release Time:**  
1 to 10 sec.

**Channel Active Output:**  
Open collector type  
capable of sinking 200 mA @ 30 Vdc

**High Pass Filter:**  
-6 dB at 125 Hz  
-30 dB at 32 Hz

**Power Consumption:**  
11 watts

**Dimensions:**

Height:  
4.45 cm (1.75 in.)  
Depth:  
26.67 cm (10.5 in.)  
Width:  
48.26 cm (19 in.)

**Net Weight:**  
4.28 kg (9.5 lb)

**Shipping Weight:**  
5.40 kg (12 lb)

## DESCRIPTION

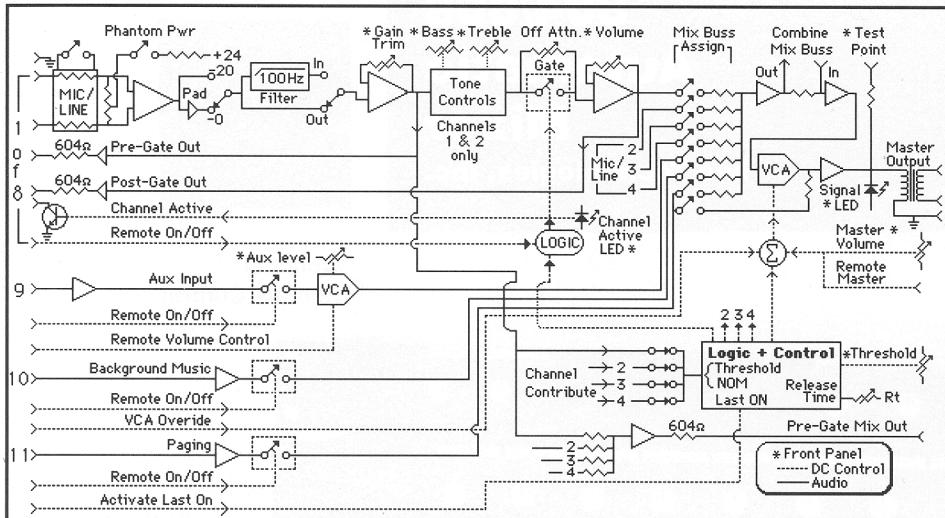
The 804 and 808 are a new generation of automatic microphone mixers designed to meet the ever changing requirements of the professional sound reinforcement industry. The unique combination of features of the 804 and 808 provide many benefits for the consultant, contractor, and end user. These features make the 804 and 808 mixers ideal for use in meeting rooms, churches, and teleconferencing. The

standard features provide the consultant with powerful tools that allow increased flexibility of design necessary to meet the most demanding of applications. These features also allow for ease of installation without the need for custom work.

## GENERAL FEATURES

- Automatic gating with NOM attenuation
- Designed specifically for room combining applications
- VCA override or mute for emergency paging
- Four or Eight electronically balanced Microphone/Line inputs
- One unbalanced auxiliary line level input
- Separate input for background music
- Separate input for paging
- Bass and Treble controls on 2 inputs
- Adjustable "OFF" attenuation on each channel
- Adjustable release time
- Direct channel outputs - pre and post gate
- Remote control of master level
- Remote control of auxiliary input
- Remote ON/OFF control of all inputs
- "Channel Active" indication on front panel
- Status output port for "Channel Active"
- Pre-gate tape output
- Configured for addition of auto level control on output

## 808 BLOCK DIAGRAM



### INPUT SECTION FEATURES

The 804 and 808 have seven and eleven inputs respectively, all except two of them controllable from the front panel. These inputs include four (804) or eight (808) switchable (mic/line) electronically balanced, automatic gating inputs, with bass and treble controls on two channels. The other front panel controllable input is a non-gating, unbalanced auxiliary line input. The two additional inputs are special. One is specifically intended for background music applications. It is a fixed gain, 50k ohm, unbalanced, line level input, with remote on/off. The other input is designed for paging applications. It can be mixed with the other channels either before or after the master volume control. When mixed after the volume control, all other signals may be completely muted, or simply "ducked", during the page. This feature was designed with emergency paging applications in mind.

### ROOM COMBINING FEATURES

One of the applications the 804 and 808 are specifically designed to fulfill is the combining of sound systems in multiple meeting rooms. For example: A hotel has a complex of eight meeting rooms

of various sizes. At times all meeting rooms are used independently, while at other times moveable partitions between rooms are opened to create fewer, bigger rooms, or even one large room. Obviously, a number of different room combinations is possible. The 804 and 808 can be combined with other 804s or 808s to effect room combining. A complete line of room combining accessories greatly enhance the power of the 804 and 808 automatic mixer. When 804s and 808s are combined, all automatic functions such as NOM and THRESHOLD are also combined.

### 'LAST ON'

The 804 and 808 have a feature called "Last On". This feature may be activated by installing a jumper on the terminal board used with the mixer. When the "Last On" feature is activated, the last microphone that was gated on automatically remains on until another microphone is gated on to take its place. This means that at least one microphone is always on in the room. This has many benefits in applications such as recording feeds or teleconferencing. "Last On" will allow several microphones to be on at the same time if dictated by microphone usage.

### ADDITIONAL FEATURES

The 804 and 808 can be ganged with other 804s and 808s to provide a greater number of inputs when required. They can also be ganged with 804Rs or 808Rs (remotable versions of the 804 and 808 which have remote control capability on all input channels, as well as on the AUX and Master), if additional remote control is needed on some input channels. Each channel has adjustable "Off attenuation," channel active status indication, and an open-collector status output port. Channels one and two have bass and treble controls for easy matching of wireless mics, lavalieres, and wired mics. For a more in depth description of features and applications, consult the users manual.

### WARRANTY (LIMITED)

Ivie Professional Sound products are guaranteed for two years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, the unit will be repaired or replaced (at our option) without charge for materials or labor, if delivered prepaid to the proper Ivie Technologies service facility. The unit will be returned prepaid. This warranty does not extend to finish, appearance items or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply. Repair by other than Ivie or its authorized service agencies will void the guarantee. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Ivie Technologies, Inc  
1605 NW State Street  
Lehi, Utah 84043  
(801) 766-7600  
FAX: (801) 766-8282  
Email: [ivie@ivie.com](mailto:ivie@ivie.com)  
Internet: [www.ivie.com](http://www.ivie.com)

