

# JIB/MM



## USER'S MANUAL

# ***MULTI MIXER***

JACKS in the BOX



MAKERS OF THE ORIGINAL  
HOT SPOT PERSONAL MONITOR

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**Introduction**

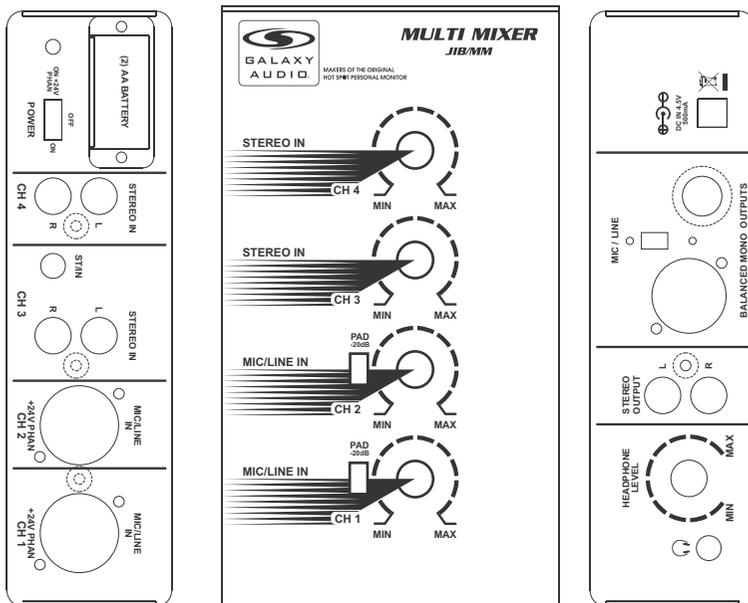
Thank you for purchasing the Galaxy Audio JIB/MM Multi Mixer. Please visit our website ([galaxyaudio.com](http://galaxyaudio.com)) for the latest updates and FAQ on all of our products and manuals. The MM is designed to solve many of the patching and mixing problems that arise when connecting various audio devices together. It features a wide variety of input and output connectors including balanced XLR, balanced 1/4", stereo RCA, and stereo 1/8" to accommodate most of the cables found in pro and consumer audio situations. The MM also features a stereo Headphone output jack with a dedicated volume control to monitor the entire mix. The high gain/wide dynamic range design of the MM ensures that you will never have trouble matching levels between audio devices.

For the most up to date manual and information  
visit [www.galaxyaudio.com](http://www.galaxyaudio.com).

## Uses for the Multi Mixer include:

1. Adding inputs to an existing mixer by creating a sub-mix of two or more sources before sending the signals to the main mixer or powered speaker.
2. Serving as a sophisticated cable adapter that not only adapts the connector type but also provides the correct impedance with adjustable level control.
3. Serving as the main mixer for solo or duo acts as well as AV presentations.
4. As a mixer for rehearsals when its impractical to set up the entire PA.
5. Interfacing pro audio gear with consumer audio gear.
6. Battery operation allows remote location use where AC power is unavailable.
7. As an emergency back-up mixer to have along just in case.

As you can see, the Galaxy Audio Multi Mixer may be the most versatile piece of audio gear that you can own.

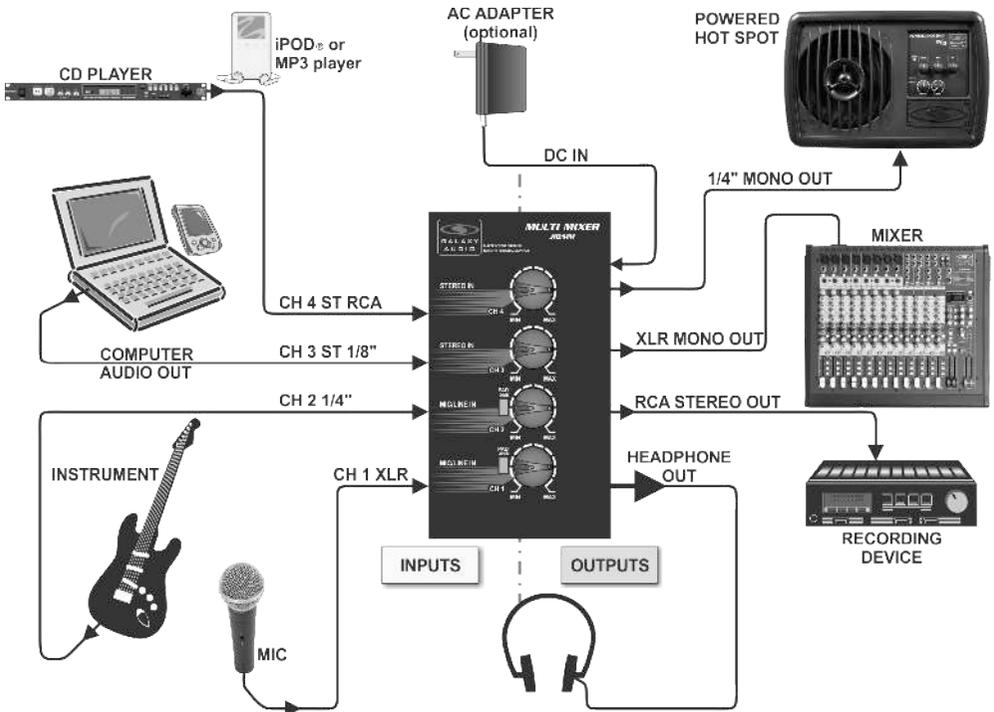


### Battery Installation:

Switch Power to the OFF position. Remove the two screws securing the Battery Drawer from the left side of the MM. Install two AA alkaline batteries, observing the correct polarity shown inside the battery tray. Re-install the Battery Drawer being careful to not pinch any wires. The MM may also be powered using an optional AC adapter. See the Specifications section for the proper type.

### Using the Multi Mixer:

The following illustration shows just some of the many ways the MM may be connected with other audio devices. For best performance, always use high quality shielded cables of the correct type. Switch the power ON and turn all Volume Controls to minimum before connecting other audio devices to the MM.



iPod is the registered trade mark of Apple Computer, Inc.

**Input Channels:**

The Input Channel connectors are numbered 1 through 4 and located on the left side of the unit. Inputs 1 and 2 are Balanced Combination jacks that accept either XLR Mic or 1/4" line cables. Phantom Power is supplied to the XLR connectors on Inputs 1 and 2 when the Power Switch is in the ON +24v PHAN position. If Phantom Power is not required the MM should be operated with the Power Switch in the ON position. Channel 3 features both Stereo RCA and Stereo 1/8" jacks for convenience, however we do not recommend using both types simultaneously. Channel 4 features Stereo RCA jacks.

**Volume Controls:**

Volume Controls, which correspond to channels 1 through 4, are located on the top panel of the MM. Channels 1 and 2 also feature Pad switches, located next to the Volume Controls, which will reduce the gain (of the XLR inputs only) by -20dB to accommodate very strong input signals. The Pads are engaged when the switches are in the down position. Optimum performance is obtained when the Volume Controls can be set generally in the middle of their range rather than at the extreme MIN or MAX.

**Output Section:**

Various Output jacks are located on the right side of the MM. The mix created with the 4 Input Volume Controls will appear at all Output jacks. Stereo signals from Inputs 3 and 4 are presented in stereo at the RCA and 1/8" Headphone Outputs. The Headphone Level controls only the volume of the Headphone Output jack. This may also be used as a master volume control if the Headphone Output jack is patched to a line input on another device. Stereo signals from Inputs 3 and 4 are summed to mono at the XLR and 1/4" Balanced Mono Outputs. The "Mic/Line switch" located between the XLR and 1/4" Balanced Mono Outputs allows for selecting either a "Mic Level" Balanced Mono Output or a "Line Level" Balanced Mono Output.

## CH 1 & 2

### Mic Inputs:

**Input Type:** XLR

**Input Impedance:** 4k (2k with pad)

**Input Sensitivity:** Minimum: 3mV RMS (-51dBV)  
(Without Pad) Nominal: 22mV RMS (-33dBV)

**Max Input Level:** Pad Off: 649mV RMS (-3.8dBV)  
Pad On: 6.5V RMS (16.3dBV)

**Pad:** -20dB

**Phantom Power:** +24V

### Line Inputs:

**Input Type:** 1/4" TRS

**Input Impedance:** 10k

**Input Sensitivity:** Minimum: 14mV RMS (-37.2dBV)  
Nominal: 112mV RMS (-19dBV)

**Max Input Level:** 3.2V RMS (10dBV)

## CH 3

**Input Type:** Left/Right RCA, 1/8" TRS

**Input Impedance:** 15k Min

**Input Sensitivity:** Minimum: 159mV RMS (-16dBV)  
Nominal: 495mV RMS (-6.1dBV)

**Max Input level:** 15.8V RMS (+24dBV)

## CH 4

**Input Type:** Left/Right RCA

**Input Impedance:** 15k Min

**Input Sensitivity:** Minimum: 159mV RMS (-16dBV)  
Nominal: 495mV RMS (-6.1dBV)

**Max Input level:** 15.8V RMS (+24dBV)

### Main RCA outputs

**Nominal Output Level:** 1V RMS (0dBV)

**Maximum Output:** 2.9V RMS (9.2dBV)

### Mono outputs

**Nominal Line Level Output:** 1V RMS (0dBV)

**Maximum Line Level Output:** 2.9V RMS (9.2dBV)

**Nominal Mic Level Output:** 32mV RMS (-30dBV)

**Maximum Mic Level Output:** 99mV RMS (-20.8dBV)

### Headphone Outputs

**Power Output:** 30mW Stereo @ 32 Ohm

### Distortion

**THD:** 0.01% (22Hz – 22KHz @ Nominal Volume)

## **Noise**

**S/N:** >80dB

## **Misc.**

**Batteries:** 2 x AA (Alkaline)

**Typical battery Life:** About 15 Hours

**DC In Requirements:** 4.5VDC (regulated), 500mA minimum.

**Barrel plug:** 4mm O.D. and 1.74mm I.D., center positive.

**Dimensions:** 7.2" x 4" x 2.1" (L x W x H)  
(182.4 x 102.3 x 53 mm)

**Weight:** 2.3 lbs (1.03 kg)

**Compatible Galaxy Audio AC Adapter:** JIB/UA4.5-14



(JIB/UA4.5-14 Shown)



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HOT SPOT PERSONAL MONITOR



[www.galaxyaudio.com](http://www.galaxyaudio.com)

## ***THREE YEAR LIMITED WARRANTY***

**WARRANTY** Information can be viewed online at  
<http://www.galaxyaudio.com/warranty.php>



[www.galaxyaudio.com/warranty.php](http://www.galaxyaudio.com/warranty.php)

## **JACKS in the BOX *MULTI MIXER* JIB/MM**

Specifications in this manual are subject to change without notice.  
For the most up to date manual and information  
visit [www.galaxyaudio.com](http://www.galaxyaudio.com).

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