

# RM SERIES

RACK MOUNT PLAYERS & RECORDERS

# RM10 OPERATION MANUAL



[www.galaxyaudio.com/RM10.php](http://www.galaxyaudio.com/RM10.php)



MAKERS OF THE ORIGINAL  
HOT SPOT PERSONAL MONITOR

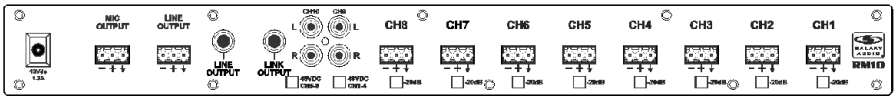
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## INTRODUCTION

Thank you for purchasing the Galaxy Audio RM10 Rack Mount Mixer. For updates on all of our products and owners manuals please visit [www.galaxyaudio.com](http://www.galaxyaudio.com). The RM10 is a space-saving multi-purpose rack mountable Mic/Line mixer. Designed to solve many of the patching and mixing problems that arise when connecting various audio devices together. The 19" 1RU mixer features a variety of input and output connectors to accommodate most pro and consumer audio situations.

## RM10-Rack Chassis

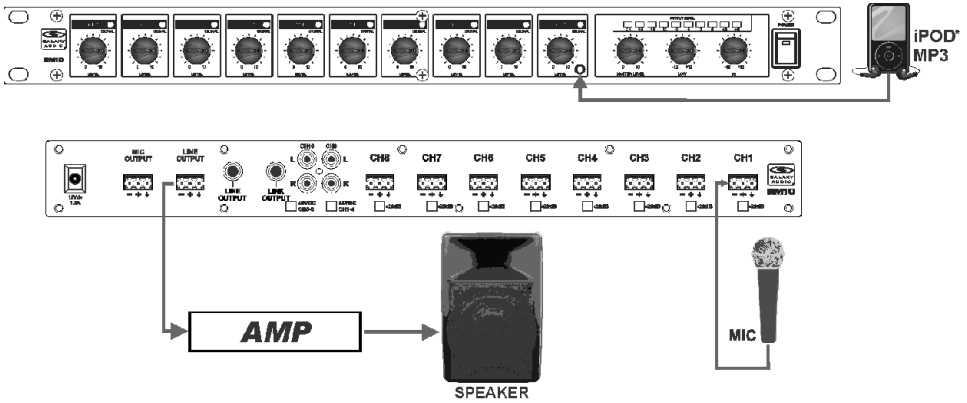


### Some of the uses of the RM10 Rack Mount Mixer include:

- 1.) Main mixer for small House of Worship, educational classroom and athletic facilities
- 2.) 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
- 3.) Serve as the main mixer for solo or duo acts as well as AV presentations
- 4.) Microphone level output allows for connection to any microphone input of an existing system.

## Using the RM10:

The following illustration shows just some of the many ways the RM10 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 RM10.



## Input Channels:

Input Channels are labeled 1 through 10 and are located on the back of the unit. Inputs 1 through 8 are Balanced 3 Pin Phoenix Block connectors. Channel 9 though 10 accepts Stereo RCA Jacks. Channel 10 also has an additional 1/8" Stereo Summing Input Jack located on the front of the unit next to the Channel 10 Volume control.

### **Phantom Power:**

Two Phantom Power Switches control the 48Vdc Phantom Power on Channels 1 through 8. Phantom Power Switch one controls Phantom Power for Channels 1 through 4 and Phantom Power Switch two controls Phantom Power for Channels 5 through 8. Phantom Power is supplied to the Phoenix Block connectors when the Phantom Power switch is in the “In Position”. If Phantom Power is not required the Phantom Power Switch should be in the “Out Position”.

### **Volume Controls:**

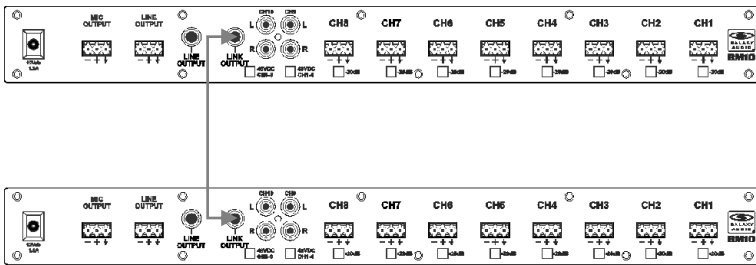
Volume controls, which correspond to channels 1 through 10 are located on the front of the RM10. Channels 1 through 8 also feature Pad Switches located on the back of the unit below each channels input jack. Pad switches will reduce the gain by  $-20\text{dB}$  to accommodate very strong input signals. The Pads are engaged when the switches are in the in position. Optimum performance is obtained when the 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 back of the unit. The mix created with the 10 input Volume controls will appear at all Output jacks. A balanced microphone level output is present at the Phoenix Block labeled “Mic Out” and a balanced line level output is present at the Phoenix Block &  $\frac{1}{4}$ " jack labeled “Line Out”.

## Auxiliary Buss Section:

A ¼" TRS stacking jack is located on the back of the unit between the Channel 10 Stereo RCA jack and ¼" Line Level Output jack for linking multiple units together. When two RM10's are bussed together the output of both units will be identical with the exception of master level and tone controls which are independent in each mixer. This can be useful for auxiliary feeds to recordings, or overflow systems etc.



## Tone Control Section:

Two shelving tone controls are provided in the main output section. The Low control provides 12dB of boost or cut at 200Hz, the Hi control provides 12dB of boost or cut at 10kHz.

## LED Indicators:

Green LED indicators for Input Signal Presence are located next to each channel. When signal is detected the LED will illuminate Green. A 10 Segment VU meter is located above the Master, Low and High Tone Controls. The VU meter displays the Output level from -21dB to +6dB in 3 dB steps.

## Specifications:

### Channels 1 through 8

**Electrical:**

Differential balanced or unbalanced

**Input Impedance:**

18k ohms Differential

9k ohms Unbalanced

**Max Input:**

2.25V RMS (+7 dBV, +9 dBu) with Pad

**Minimum Input:**

3mV RMS (-50 dBV, -48 dBu)

**Nominal Input:**

30mV RMS (-30 dBV, -28 dBu)

**Phantom Power:**

+48V DC

### Channel 9 & 10

**Input Impedance:**

RCA: 10k ohms

1/8" Stereo Unbalanced : 10k ohms

**Max Input:**

2.25V RMS (+7 dBV, +9 dBu) with Pad

**Minimum Input:**

3 mV RMS (-50 dBV, -48 dBu)

**Nominal Input:**

30 mV RMS (-30 dBV, -28 dBu)

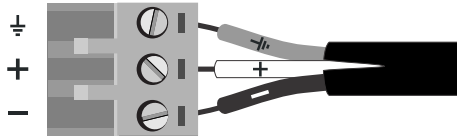


## Phoenix Block Inputs/Outputs

Pin 1: Ground

Pin 2: +

Pin 3: -



### **Two Band EQ:**

LOW: +/- 12dB @ 200 Hz

HIGH: +/- 12dB @ 10kHz

### **10 Segment VU Meter:**

-21dB, -18dB, -15dB, -12dB, -9dB, -6dB, -3dB, 0dB,  
+3dB, +6dB

### **Distortion:**

THD 0.05% (22Hz-22kHz @ Nominal Volume)

### **Noise:**

S/N >100dB

### **Power Requirements:**

12V dc at 1.3A, supplied by external power supply

### **Frequency Response:**

20Hz-20kHz +/-3dB

### **Weight:**

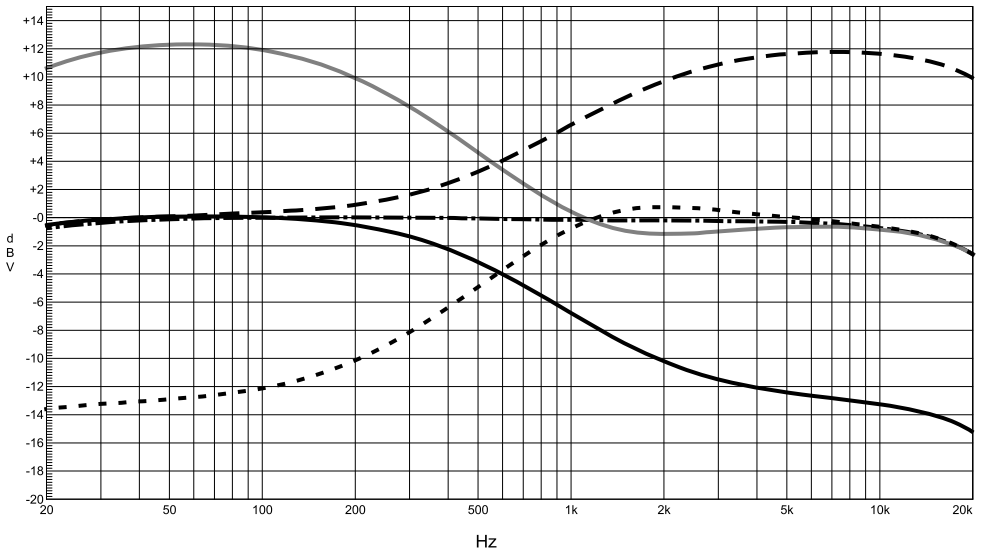
4.95 lbs (2.24kg)

### **Dimensions:**

19" L x 1.75" H x 6.25" D

(482.6mm x 44.45mm x 158.75mm)

## FREQUENCY RESPONSE



- Tone Controls Flat
- Low Boost 12dB
- - - - Low Cut 12dB
- - - - High Boost 12dB
- High Cut 12dB

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## ***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)

# **RM10 OPERATION MANUAL**

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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