



**PURERESONANCEAUDIO®**

**MX9 RACK MOUNT MIXER**

# **INSTALLATION AND OPERATION MANUAL**




Caution: Please read this manual carefully before operating.  
Damage caused by misuse is not covered by the warranty.


# SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Be sure to follow the instructions in this manual as safety symbols and message conventions are considered very important precautions.
- We also recommend you keep this instruction manual handy for future reference.

## SAFETY SYMBOLS AND MESSAGE CONVENTIONS

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential

 **WARNING!** Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

 **CAUTION!** Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

 **WARNING!**

## WHEN INSTALLING THE UNIT

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, bend, damage or modify the power cord. Also, avoid using the power cord near heating appliances and never place heavy objects (including the unit itself) on the power cord as this could result in fire or electric shock.
- Do not install or place the device in an unstable place such as a wobbly table or sloped surface. Otherwise, the device may fall and cause personal injury and/or property damage.

## WHEN THE UNIT IS IN USE

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
  - If you detect smoke or a strange smell coming from the unit
  - If water or any metallic object gets into the unit
  - If the unit falls, or the unit case breaks
  - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
  - If it is malfunctioning (no tone sounds)
- To prevent a fire or electric shock, never open or remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit.

# CAUTION!

## **WHEN INSTALLING THE UNIT**

- Never plug in or remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

## **WHEN THE UNIT IS IN USE**

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to the minimum position before the power is switched on. Loud noise produced at high volume when the power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

### **PLEASE NOTE:**

Due to product upgrades, some of the features and specification in this user manual may or may not match the actual functions of the unit.

# DESCRIPTION

The Pure Resonance Audio MX9 is a rack mount mixer that provides versatile routing, mixing, effects, and control of 9 mixing channels, all conveniently packaged in a single 3U chassis. This mic/line mixer offers a wide range of inputs and the ability to adapt to virtually any audio source, making it ideal for a variety of applications, including schools, gyms, stadiums, conferences, fitness studios, hospitality venues, clubs, and houses of worship. The microphone inputs are designed with ultra-low noise, and each single channel input features a three-band EQ, individual gain control, pan control, pre-fader monitoring, peak LED indicator light, and linear fader adjustment for optimum signal level.

One of the key features of the MX9 is its built-in 24-bit DSP effects processor, which allows users to quickly and easily add a range of effects to their mixes. Additionally, the rack mount stereo mixer comes equipped with a large-screen media player that supports Bluetooth audio streaming, MP3, USB with sound card function, and USB computer recording. Featuring a broad range of connections for true versatility and professional sound quality, the MX9 is the perfect choice for both fixed or portable installations.

# FEATURES

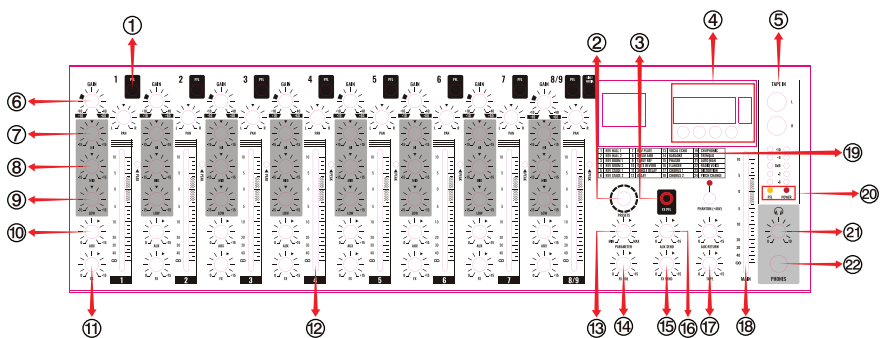
- Powerful and professional quality mixer in a compact 3U rack mount design
- Multiple convenient inputs for maximum flexibility
- Built-in 24-bit DSP effects processor
- Large screen media player with Bluetooth streaming, MP3, USB with sound card function, and USB computer recording
- 9 total inputs consisting of 7 balanced inputs with 48V phantom power, 2 unbalanced inputs
- Separate front and back accessible recording inputs and output (RCA)
- 4 sets of stereo inputs to connect stereo equipment
- Provide 2 sets of stereo main output (both ¼" TRS and XLR), two groups of auxiliary output, and 1 headphone monitoring output
- Each single-channel input is equipped with 3-band EQ, individual gain control, pan control, pre-fader monitor send, and a peak indicator light



# SPECIFICATIONS

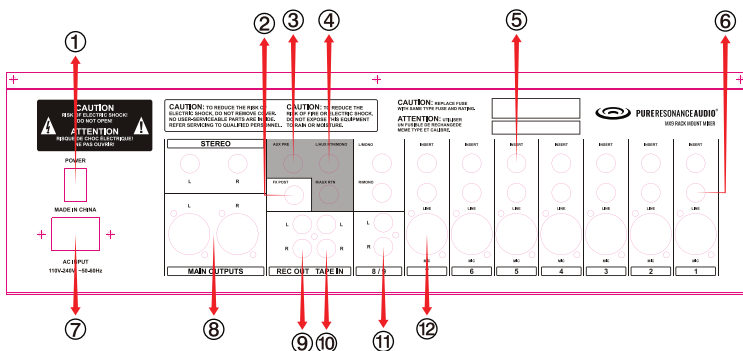
Mic (XLR) Inputs	(7) XLR jacks
Line Level Inputs	(7) ¼" TRS jacks
Inserts	(7) ¼" TRS jacks
Pre-Fader Listen	Each channel has its own individual PFL switch
Outputs	(1) Set of XLR (L & R), (1) Set of ¼" TRS (L & R), (1) ¼" AUX Out, (1) ¼" FX Out, (1) ¼" Headphone monitor
Effects	24-bit DSP Effects Processor
Phantom Power Supply	+48V option (Ch 1-7)
Frequency Response	20Hz-20kHz, $\pm$ 3dB
Distortion	<0.003% (A-Weighted)
Mic Balance Input Noise	-119dB (A-weight)
Signal to Noise Ratio	60dB
Single Channel Input Gain	MIC: 0 to 48dB, LINE: -33 to+15dB
Max Output Level	+20dBu
Mic Input High Pass Filter	75Hz, 18dB/OCT
Single-Channel Equalization	HF: $\pm$ 15dB@12kHz; MF: $\pm$ 12dB@2.5kHz; LF: $\pm$ 15dB@80Hz
Power	Built-in switching power adapter 110-220V, 30W
Power Consumption	$\leq$ 23W
Dimensions (H x W x D)	9.45" (240 mm) x 18.9" (480 mm) x 5.51" (140 mm)
Weight	8.82 lbs (4 kg)

# FRONT PANEL



- |   |   |
|---|---|
| 1. PFL Monitor Selection (Pre-Fader Listen) | 12. Input Fader Level                                       |
| 2. Effect Type                              | 13. Effect Depth Adjustment                                 |
| 3. Effect Monitoring                        | 14. Effect Volume   |
| 4. Bluetooth/MP3 Player                     | 15. Effect Send Volume                                      |
| 5. Tape Input                               | 16. AUX Send Master Volume                                  |
| 6. Gain Adjustment                          | 17. Tape In Volume  |
| 7. Treble Adjustment                        | 18. Main Output Volume                                      |
| 8. Mid Adjustment                           | 19. 48V Phantom Power Switch                                |
| 9. Bass Adjustment                          | 20. <span style="color: yellow;">●</span> Monitor Indicator |
| 10. AUX Send Volume                         | 21. <span style="color: red;">●</span> Power Indicator      |
| 11. FX Level                                | 22. Monitor Headphone Output                                |

# BACK PANEL



- |                       |                       |
|-----------------------|-----------------------|
| 1. Power Switch       | 7. Power Input        |
| 2. External FX Output | 8. Main Output        |
| 3. AUX Output         | 9. Recording Output   |
| 4. AUX Return         | 10. Tape Input        |
| 5. Insert             | 11. Stereo Line Input |
| 6. Line Input         | 12. Microphone Input  |

# OPERATION

## BLUETOOTH OPERATION

1. Press the "LINE/MEDIA" button on Ch 8/9 to select the media player.
2. Press the "MODE" button on the media player to switch it to Bluetooth mode.
  - a. The screen will flash "BLUE" when the unit is discoverable.
  - b. Navigate to your device's Bluetooth settings, search for, and select the device named "PRA-BT" (No password should be required).
3. The MX9 should pair to your device within approximately 1 minute.
4. After pairing, "Blue" will remain steady instead of flashing.
5. Ensure the "MAIN" fader on the MX9 is in the lowest position.
6. Ensure the "Ch 8/9" fader on the MX9 is in the lowest position.
7. Ensure the "GAIN" knob on Ch 8/9 is in the lowest position.
8. Set the volume on your device to approximately 80-90% of its capacity.
9. Open the music application on your device. If the application has its own volume controls, set it to approximately 80-90% of its capacity.
10. Slowly set the "GAIN" knob to approximately the 10 o'clock position (the bold white area).
11. Bring the "MAIN" fader up to approximately 50%.
12. Slowly bring up the "Ch 8/9" fader until you hear the audio playing, and set the audio levels accordingly.

## BLUETOOTH TROUBLESHOOTING

1. If pairing is unsuccessful, power down the MX9 and close the Bluetooth settings on your device.
2. Power on the MX9 and reopen the Bluetooth settings on your device.
3. Repeat the Bluetooth Operation instructions. If the device still does not connect, please shut down the mixer and reboot your device.
4. If difficulties continue, please call the technical support line at (866) 676-7804.

# SERVICE

In the event of a malfunction, ensure the problem is not related to operator error or system devices external to this unit. Once it is certain that the problem is related to the product, contact your warranty provider as described in the warranty section of this manual.

## LIMITED WARRANTY

PRO ACOUSTICS, LLC. ("PRO ACOUSTICS") warrants this product to the original purchaser to be free from defects in materials and workmanship (subject to the terms set forth below) for the following periods from the date of purchase.

### **THIS WARRANTY COVERS THE LISTED PRODUCTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR THE FOLLOWING PERIOD**

	<b>Warranty Terms</b>	
Speakers		2 Years
Amplifiers & Electronics		1 Year
Microphones		1 Year
Accessories		1 Year

PRO ACOUSTICS will repair or replace (at PRO ACOUSTICS's option) this product or any defective parts (excluding electronics and amplifiers) in this product.

Your authorized PRO ACOUSTICS dealer will inspect the product, and if your dealer is not equipped to perform the repair of your PRO ACOUSTICS product, they will replace your product or return it to PRO ACOUSTICS for repair at their discretion. Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from this product. This warranty is invalid if this product was not purchased from a PRO ACOUSTICS authorized dealer.

Cosmetic damage or damage due to the accident, acts of God, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product are not covered in this warranty. This warranty does not cover damage due to improper operation, maintenance, installation, or attempted repair by anyone other than PRO ACOUSTICS or a PRO ACOUSTICS dealer that is authorized to do PRO ACOUSTICS warranty work. Any unauthorized repairs will void this warranty.

This warranty does not cover products sold as is.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. PRO ACOUSTICS U.S.A. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Specifications may change without notice.

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