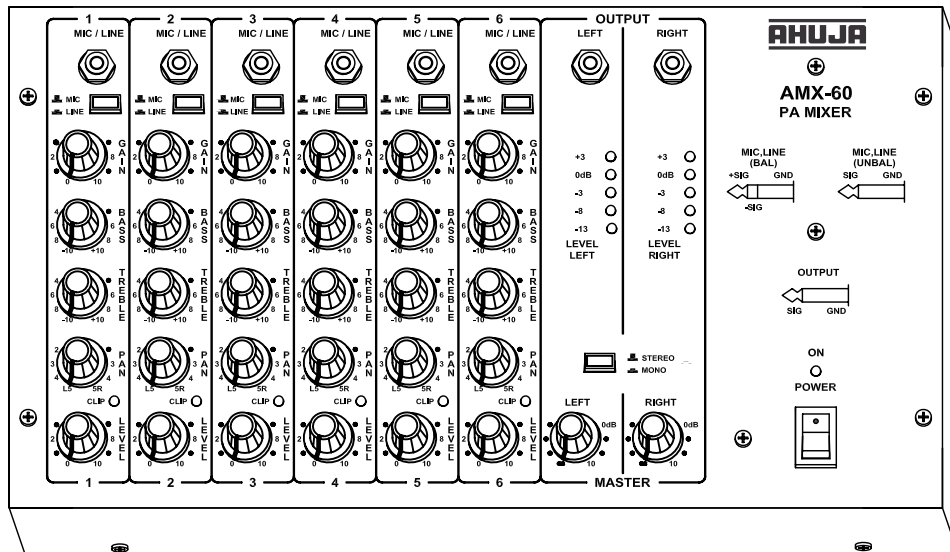


# AMX-60



- ◆ Thank you for purchasing the AHUJA PA Audio Mixer.
- ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA PA Audio Mixer.
- ◆ Please retain this manual for future reference.

## • **Safety Instructions**

**Read the Instructions:** Please read all the instructions in this section carefully before installation or use of the product. All the safety instructions must be followed.

**Retain the Instructions:** Please retain this Instruction Manual for future reference.



This symbol, wherever it appears, alerts you to the presence of uninsulated hazardous voltage that may be sufficient to constitute a risk of electric shock. External wiring to any terminal marked with this symbol must be done by a trained and instructed person only.



This symbol, wherever it appears adjacent to a component, alerts you that the concerned component can only be replaced by another of the exact same specifications.

### **WARNING**

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.

### **CAUTIONS**

**Water & Moisture:** To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set. Do not insert or remove the AC mains plug with wet hands.

**Power Source:** The voltage & frequency of the AC mains supply, and the voltage of the external battery, (if applicable) to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

**Power Cord Protection:** Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

**Operation on Generator:** When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

**Ventilation:** This set should be situated so that its location or position does not interfere with its proper ventilation. Do not cover the ventilation holes / slots. Do not insert or drop anything into the ventilation holes / slots.

**Stability:** This set must be kept in a stable and flat horizontal position, and never in a tilted position. Do not place this set on an unstable stand, tripod, bracket or mount. Do not use attachments which are not supplied or explicitly recommended by the manufacturer.

**Earthing:** This set must be earthed properly before use. A wire from the Earth terminal on the rear panel must be connected to electrical earth.

**Cleaning:** Disconnect this equipment from the AC mains and external battery before cleaning. Clean with a damp cloth, but do not allow any liquid to enter the set. Do not clean with liquids or aerosols.

## • **Table of Contents**

<b>Contents</b>	<b>Page No.</b>
• <b>Features   General Description of Product</b> .....	<b>4</b>
• <b>Input Channel Controls and Features</b> .....	<b>5</b>
• <b>Output Channel Controls &amp; Features.</b> .....	<b>6</b>
• <b>Typcial Applications.</b> .....	<b>7</b>
• <b>Specifications</b> .....	<b>8</b>

## • **Features / General Description of Product**

- Six channel professional PA mixer which is light-weight and easily portable.
- Compact, robust & aesthetically superior housing in silver coloured finish.
- Upto six low impedance microphones can be connected in either balanced or unbalanced configuration, through a 1/4" stereo jack socket.
- Alternatively, each channel input can accept a balanced or an unbalanced line source like CD Player, Keyboard, Guitar Pre-amp., etc.
- Each channel has a push switch for selecting between MIC and LINE input.
- GAIN Control on each channel for optimum adjustment of the input sensitivities.
- Active BASS & TREBLE circuitry in each channel for desired equalisation of the input signal.
- Each channel has a CLIP LED which glows when the level of input signal is excessive and the same should be reduced by the gain control.
- PAN control on each channel for desired distribution of the signal to left and right outputs.
- Line level LEFT & RIGHT outputs through 1/4" jack sockets.
- Individual 5-segment LED array indication for accurate setting of L&R line output levels.
- Individual MASTER volume controls for left & right line outputs.
- Option of MONO/STEREO mode of operation through a push switch.
- Power ON indication through a blue LED.
- Operates on 220 - 240V, 50Hz AC Mains.

## •A Input Channel Controls and Features

### 1. MIC/LINE INPUT

This is a 1/4" stereo jack socket which is electronically balanced for connecting a balanced or an unbalanced input source through a suitable (stereo or mono) 1/4" jack plug. The input source can be a microphone (wired or wireless), CD Player, DVD Player, Electronic Instrument etc.

### 2. MIC/LINE SWITCH

For selecting the desired input sensitivity which is appropriate for the type of equipment connected to the mixer.

### 3. GAIN CONTROL

For adjusting the optimum gain levels of the input signal.

### 4. BASS CONTROL

For attenuating or boosting the signal level of low frequencies at 100Hz.

### 5. TREBLE CONTROL

For attenuating or boosting the signal level of high frequencies at 10kHz.

### 6. PAN CONTROL

For routing the signal to the left & right output channels in an appropriate proportion.

### 7. CLIPL ED

The red LED glows to indicate that the input signal is approaching the saturation (overload) levels.

Occasional blinking of clip LED during loud sounds is normally acceptable.

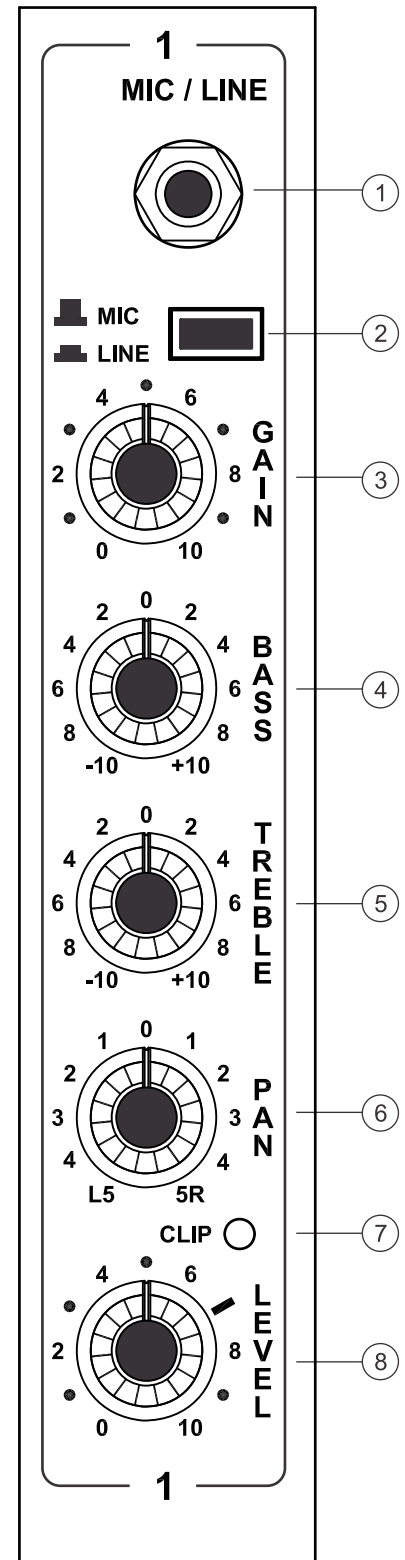
### 8. LEVEL CONTROL

For adjusting the signal level of a channel in the overall mix of all the channels.

### VIEW OF REAR PANEL



2 Core AC Mains Cable with Plug



## •B Output Channel Controls & Features

### 9. OUTPUT 'RIGHT'

Provides unbalanced line output of 'RIGHT' channel through 1/4" mono jack socket. This line level output is suitable for connecting to the line input of a two zone amplifier, booster amplifier etc.

### 10. OUTPUT 'LEFT'

Provides unbalanced line output of 'LEFT' channel through 1/4" mono jack socket. This line level output is suitable for connecting to the line input of a two zone amplifier, booster amplifier etc.

### 11. LEVEL LEFT LED ARRAY

The output level of left channel is indicated by an array of three green & two red LEDs. Rated output level of 775mV is indicated by the glow of red LED marked '0dB'.

### 12. LEVEL RIGHT LED ARRAY

The output level of right channel is indicated by an array of three green & two red LEDs. Rated output level of 775mV is indicated by the glow of red LED marked '0dB'.

### 13. MONO / STEREO SWITCH

For Stereo mode, keep the push switch knob in raised up (▲) condition. In stereo mode, the ratio of signal in left and right channels is controlled by the setting of Pan control in that channel.

For Mono mode, keep the push switch knob in depressed (▼) condition. In mono mode, the respective Master volume controls adjust the level of left and right line outputs. However, the Pan control is not effective in mono mode.

### 14. MASTER 'LEFT' VOLUME CONTROL

For adjusting the level of output signal as available through LEFT output jack.

### 15. MASTER 'RIGHT' VOLUME CONTROL

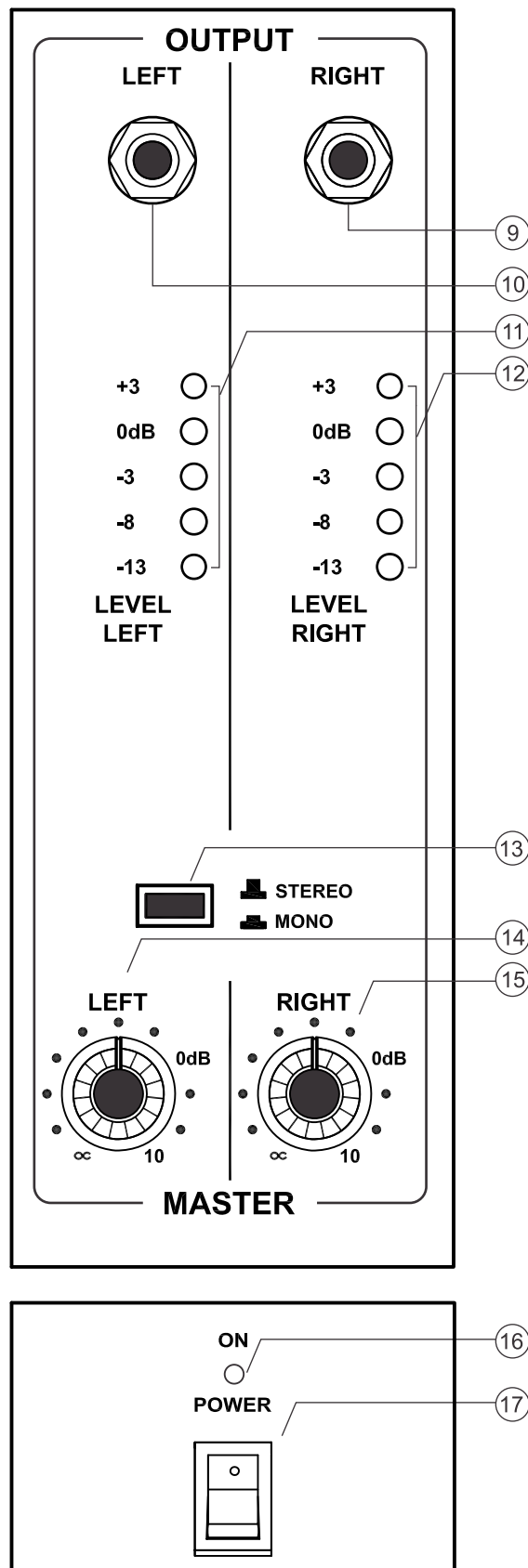
For adjusting the level of output signal as available through RIGHT output jack.

### 16. POWER 'ON' LED

This blue LED glows when the AC power to the mixer is switched ON.

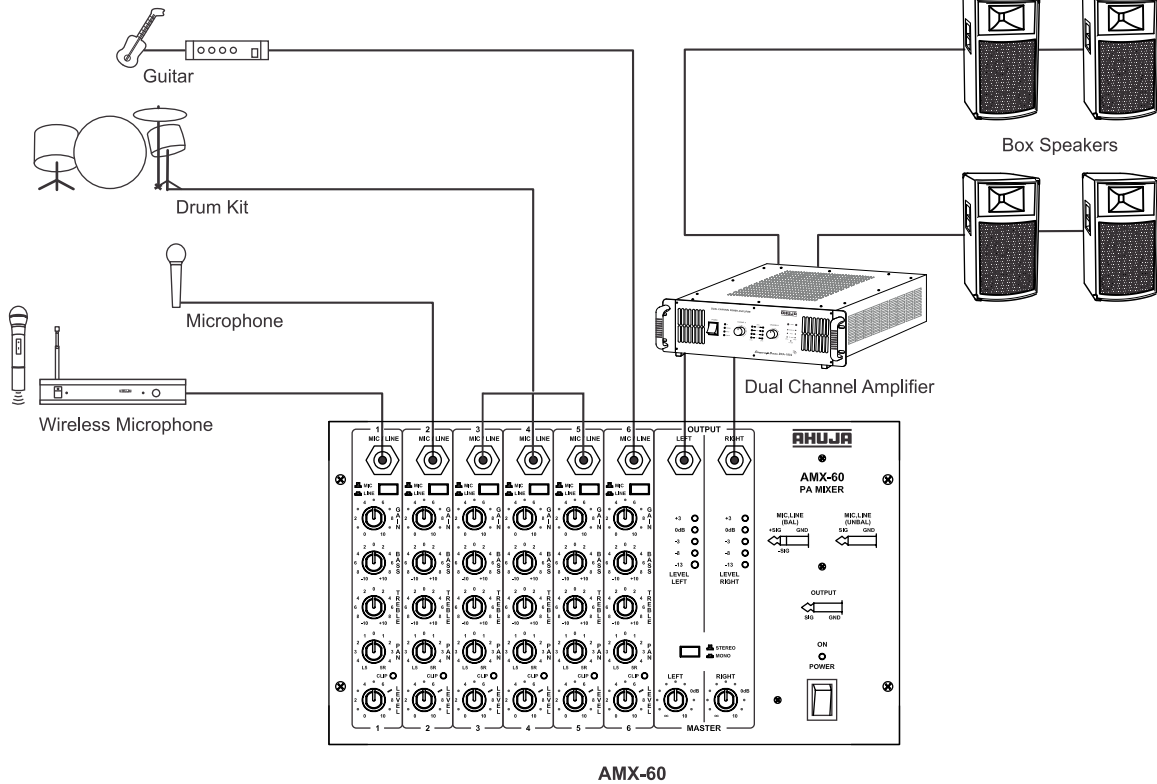
### 17. POWER SWITCH

The AC Mains supply to the mixer gets connected when the power switch knob is rocked upwards.

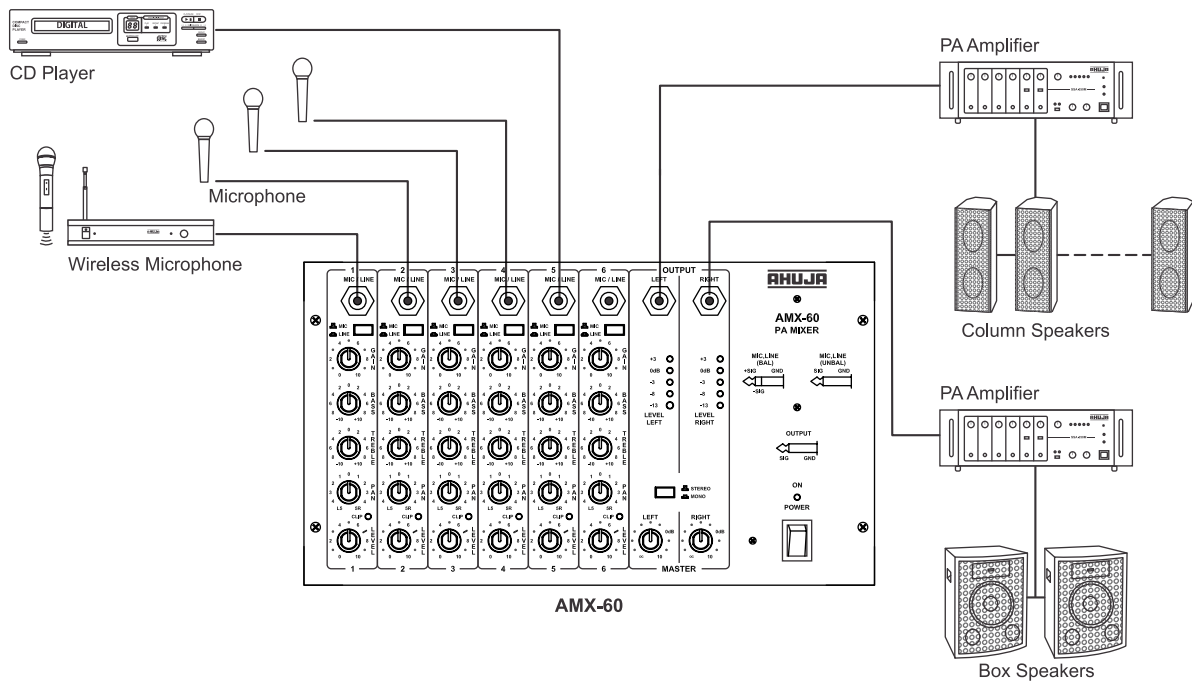


# • Typical Applications

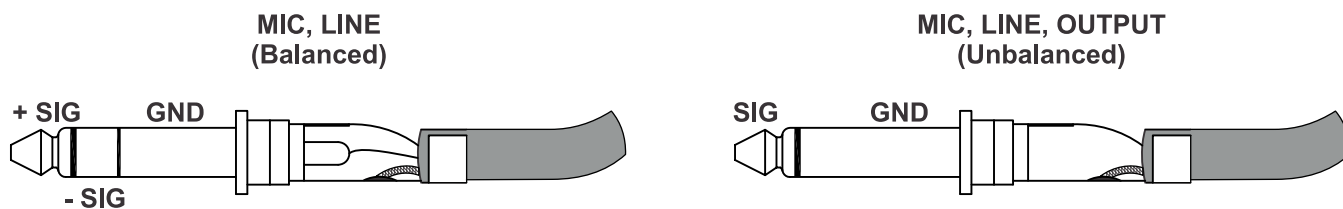
## LIVE MUSIC PERFORMANCE (STEREO MODE)



## LIVE PA PERFORMANCE (MONO MODE)



## • Plug Wiring



## • Technical Specifications

<b>MIC INPUT</b>	
(Impedance/Gain)	: 2k $\Omega$ Balanced/62dB
	1k $\Omega$ Unbalanced/62dB
<b>LINE INPUT</b>	
(Impedance/Gain)	: 20k $\Omega$ Balanced/42dB
	10k $\Omega$ Unbalanced/42dB
<b>THD</b>	: < 0.1 %
<b>FREQUENCY RESPONSE</b>	: 20Hz-18 kHz (-1dB)
<b>EQUALISATION</b>	
Bass/Treble	: $\pm 12$ dB at 100 Hz / $\pm 12$ dB at 10kHz
<b>LINE OUTPUT L/R</b>	
Nominal	: 0dBm (775mv)
Maximum	: +18dBm (6.5V)
<b>OUTPUT IMPEDANCE</b>	: 600 $\Omega$
<b>S/N RATIO</b>	: > 68dB
<b>CLIP LED INDICATION</b>	: 4dB prior to true clip
<b>POWER SUPPLY</b>	: 220-240V AC 50Hz
<b>PROTECTION</b>	: AC: Fuse 1Amp. 250V (T 1A L)
<b>DIMENSIONS</b>	: W295 X H70 X D180mm
<b>WEIGHT</b>	: 2.4 Kg

Design and Specifications are subject to change without notice. • **AHUJA** is a registered trademark of Ahuja Radios in India and other countries.  
 © Copyright Ahuja Radios, 2008. All rights reserved. Any unauthorized reproduction or use of logos, images or design elements is strictly prohibited by law.  
 No part of the compilation may be reproduced in any manner or translated without written permission.

**TRUSOUND PVT. LTD.** • C-89, Sector IV, Noida, Gautam Budh Nagar-201 301 (UP)  
 Regd. Office : 125E, Okhla Industrial Estate, New Delhi-110 020  
 Tel.: +91-120-2551452/53 Fax : +91-120-2553677  
 E-mail: ahuja@ahujaradios.com, admin@ahujaradios.com Website: www.ahujaradios.com

0011/08