

USER MANUAL

PA6060T

PA6120T

PA6240T

PUBLIC ADDRESS AMPLIFIER



1. Security Precautions

- ⦿ Carefully to **READ** the instruction in this manual before use.
- ⦿ Certainly to **OBSERVE the INSTRUCTION** in this manual regard convention of safety symbols and messages
- ⦿ Please **KEEP** this user **MANUAL** nearby for anytime reference.

Safety symbol and Message Conventions

Below-described safety symbol and messages are to prevent bodily injury and property damage. Before operating the amplifier, read this manual first so you completely knowing the potential safety hazard and understanding the meaning of the safety symbols and messages.

 WARNING	Indicates a potentially hazardous situation, which, if mishandled, could result in death or serious body injury, and/or property damage.
 CAUTION	Indicates a potentially hazardous situation, which, if mishandled, could result in moderate or minor body injury, and/or property damage.



■ When Installing the Amplifier

- **DO NOT** installing or mounting the amplifier in unstable locations, such as on the rickety table or the slanted surface. It may result in the amplifier falling down and causing body injury and/or property damage.
- **Be sure to ground** to the safety ground (earth) terminal to avoid electric shock. Never to ground to a gas pipe for tragic disaster may occur.
- Use the amplifier only with the voltage specified on the amplifier. Using the voltage higher than specified may cause fire or electric shock.
- **DO NOT** cut, twist, damage, nor modify the power supply cord. In addition, avoid using the power cord close to heaters, and don't place heavy object, including the amplifier itself, on the power cord, for it may cause fire or electric shock.
- **DO NOT** expose the amplifier to rain or the environment where it may be splashed by water or other liquids, for doing so, it may cause fire or electric shock.

■ When using the Amplifier

- When found following irregular situation during amplifier is in use, immediately switch off the power, disconnect the power supply plug from the AC outlet. Don't try to operate the amplifier again. Contact your local dealer to check the amplifier.
 - ✓ The amplifier falls.
 - ✓ Amplifier is malfunction.
 - ✓ Water or any metallic object gets into the amplifier.
 - ✓ The smoke or strange smell coming from the amplifier.
 - ✓ The power supply cord is damaged, such as exposure of the core, disconnection etc..
- **DO NOT** put cups, bowls, or other containers with liquid or metallic object in it on the top of the amplifier. If they spill accidentally into the amplifier, it may result in fire or electric shock.
- **DO NOT** touch the power supply plug during thundering and lightning, for it may result in electric shock.
- **DO NOT** insert or drop the metallic objects or flammable materials into the ventilation slots of the amplifier, for it may result in fire or electric shock.
- **DO NOT** open nor remove the amplifier cover to prevent fire or electric shock, for there are high voltage components inside the amplifier.



■ When Installing the Amplifier

- **DO NOT** remove nor plug in the power supply plug with wet hands, for it may cause electric shock.
- When unplug the power supply cord, be sure to grasp the power supply plug. **DO NOT** pull on the cord itself. Operating the amplifier with damaged power supply cord may cause fire or electric shock.
- **Avoid** installing the amplifier in humid or dusty places, the area exposed to the direct sunlight, locations generating smoke or steam, or the spot near the heaters. It may result in fire or electric shock.
- When moving the amplifier, be sure to remove its power supply cord from the wall outlet. Moving the amplifier with the power cord connected to the outlet may cause damage to the power cord, and resulting in fire or electric shock. When removing the power cord, be sure to grasp its plug to pull.
- **DO NOT** block the ventilation slots of the amplifier chassis. It will cause the temperature rising and result in fire.

■ When Using the Amplifier

- Make sure that the volume control is turned to minimum position before power is switched on. Loud sound produced at high volume when power is switched on may impair hearing.
- **DO NOT** place heavy objects on the amplifier, for it may cause it fall and may result in body injury and/or property damage. Besides, the object itself may cause damaged or body injury.
- **DO NOT** operate the amplifier for the extended period of time with the sound distorting. It is an indication of malfunction, which can cause heat and result in fire.
- Switch the power off, and unplug the power supply plug from the AC outlet for safety purposes, when cleaning or leaving the amplifier unused for 7 days or more. Fire or electric shock may occur.
- If the dust accumulates on the power supply plug or in the wall AC outlet, fire may result in. Clean it periodically. In addition, make sure the plug is inserted in the wall outlet securely.
- Contact your local dealer to clean the dust, if the dust has accumulated in the amplifier for a long period of time. Dust accumulation may result in fire or damage.

2. Description

PA6xxxT is the mixer amplifiers designed for total 6 inputs (channel) application. They include 3 AUX and up to 5 microphones connectors. The models of output power 60W, 120W and 240W.

5 of 6 inputs have its own level control on the front panel, while the 6th level control is on the rear panel. It is convenient for the user to control. Besides, there are 1 Master control of output volume and 2 tone controls: Bass and Treble.

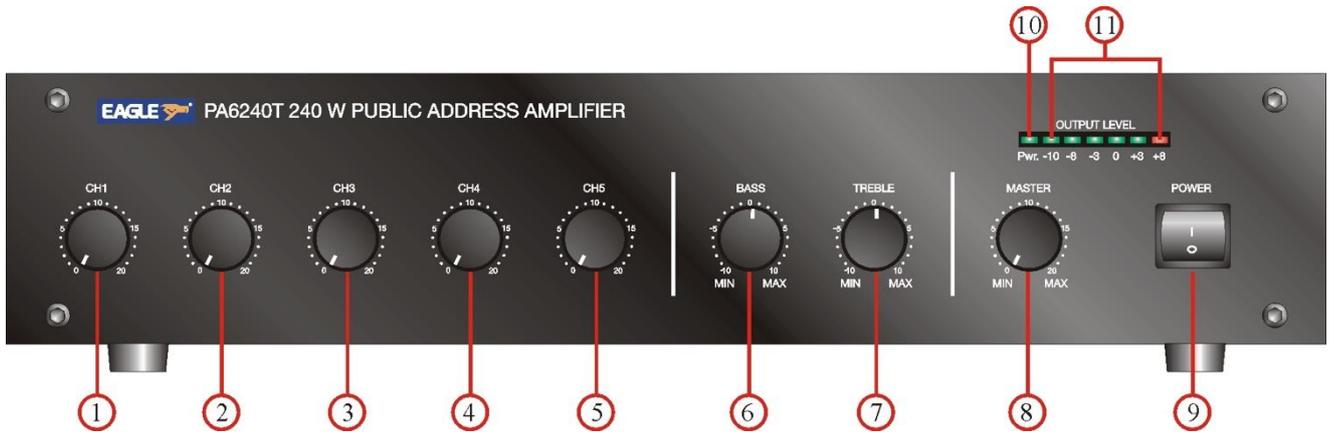
The output connection is speaker screw terminal including low impedance 8 ohm, and high level 70V and 100V. Choose only one of these output connections to match the speaker. 6 LED indicators show the output level. Furthermore, it has AUX and Tape output.

To ensure the amplifier safety, it has speaker short, over temperature, and overload protection.

Besides AC power source, it has DC 24V input power screw connector as backup power source.

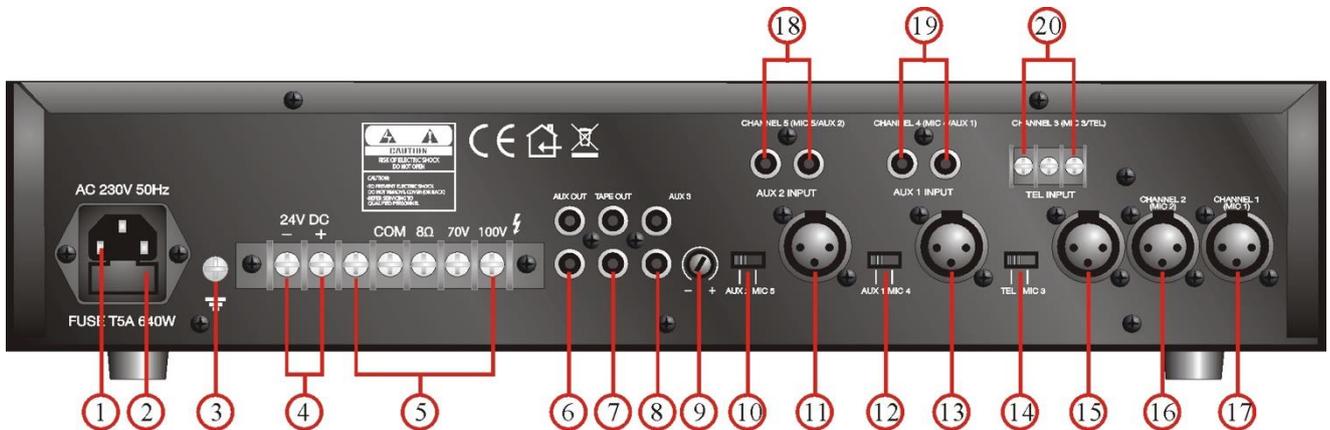
PA6xxxT is the ideal and convenient mixer amplifier for multi-input application.

3. Front Panel



- | | | |
|-----------------------------|---------------------------------|--------------------------------|
| 1. Channel 1 Volume Control | 5. Channel 5 Volume Control | 9. Power On / Off Switch |
| 2. Channel 2 Volume Control | 6. Master Tone Control (Bass) | 10. Power On/Off Indicator LED |
| 3. Channel 3 Volume Control | 7. Master Tone Control (Treble) | 11. Output Level Indicator LED |
| 4. Channel 4 Volume Control | 8. Master Volume Control | |

4. Rear Panel



- | | |
|------------------------------|---------------------------------|
| 1. Mains Input Socket | 11. MIC 5 Input (XLR Jack) |
| 2. Power Fuse | 12. MIC 4/Aux 1 Selector Switch |
| 3. Earth Connection Screw | 13. MIC 4 Input (XLR Jack) |
| 4. DC Power Supply Terminals | 14. MIC 3/TEL Selector Switch |
| 5. Speaker Output Terminals | 15. MIC 3 Input (XLR Jack) |
| 6. Aux Output (RCA Jack) | 16. MIC 2 Input (XLR Jack) |
| 7. Tape Output (RCA Jack) | 17. MIC 1 Input (XLR Jack) |
| 8. Aux 3 Input (RCA Jack) | 18. Aux 2 Input (RCA Jack) |
| 9. Aux 3 Level Control | 19. Aux 1 Input (RCA Jack) |

10. MIC 5/Aux 2 Selector Switch

20. TEL Page Input (Screw Terminals)

5.Mains Connection

The supply transformer has been designed for use on 230Vac .

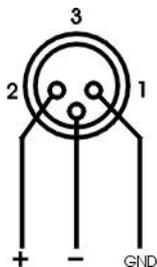
6.Battery Connection (24Vdc)

When using external batteries, earth the amplifier via the screw terminal because of the high voltage present. Electrical stability of the system is increased by earthing the case.

NOTE: the connection cable must be fitted with an in-line fuse. Quick blow type F15A when Connecting batteries please ensure correct polarity.

7.Microphone Connection

Mic1~5 inputs are balanced standard XLR Jack, rear panel.



8.Line (Aux/CD) Connection

The equipment provides an auxiliary input which may be used for connecting other signal sources such as a Radio Tuner, CD or Cassette player. A push switch is located on the read panel for selection of, Mic3→Tel, Mic4→Aux1, Mic5→Aux2.

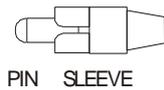
The line level Control operates on each of the input sources.

To operate select the desired music source using the push switch and turn the “Channel” control clockwise to increase the volume or anticlockwise to reduce the volume.

The Aux / input sockets are standard stereo RCA Jack, single sockets are supplied and these are linked together internally, this allows stereo signal source to be used without the need to obtain a special lead, however you may wish to check with the manufacturer of the signal source to ensure that no damage will result if the left and right output channels are put in parallel.

9.RCA Plug Connections

Sleeve-Screen
Pin- Signal



10.Tape Output Connection

These standard RCA stereo Jack sockets provide a mixed output suitable for connection to a tape or Cassette recorder.

11.Aux Out

Connects the mixer/preamplifier stage to the power amplifier stage. The connecting link must be plugged in for normal operation as a mixer/amplifier. "AUX OUT" is after the tone controls and the master volume control.

12.Power outline voltage comply with power input voltage (IEC voltage).

13.Low Impedance (8Ω)

This output allows connection of standard low impedance loudspeakers, the minimum load impedance must be 8Ω , when two or more loudspeakers are used ensure that they are wired in such a way that the load impedance is between 16Ω or between (4Ω) .

14.Connecting a Mixer Amplifier to a Power Amplifier

These amplifier can be connected using phono to phono leads from the mixer amplifier PRE out the power amplifier input RCA socket. Further power amplifier can be connected by connecting from the output of first power amplifier to the input of the second. Up to three power amplifier can be connected in this way.

Input must be from power amp in (Rear Panel)

15.Specifications:

Type	Mixer Amplifier		
Model	PA6060T	PA6120T	PA6240T
Supply	Mains Voltage	AC 230V, 50Hz \pm 10%	
	Battery Voltage	DC 24V (MAX 10% deviation)	
Output power (RMS)	60W	120W	240W
Total Harmonic Distortion	\leq 1% at 1KHz, rated power		
Input Sensitivity	XLR (Balance) Channel 1~3 (MIC 1~3) 1mV@ 600 Ω Tel (Terminal) 100mV@ 600 Ω Channel 4(MIC 4) 1mV@ 600 Ω AUX 1(RCA), 100mV@ 22K Ω Channel 5(MIC 5) 1mV@ 600 Ω AUX 2(RCA), 100mV@ 22K Ω AUX 3(RCA), 100mV@ 22K Ω		
Frequency response	50Hz ~ 15KHz \pm 3dB		
Output	Speaker outputs: Music/speech: 8 Ω , 70V, 100V Tape output: 1V 150 Ω Aux output: 1V, 150 Ω		
Signal to noise ratio	86 dB		
Indicators	Power indicator (LED), output level indicators (6 LEDS)		
Tone Controls	Bass: 100Hz \pm 10dB Treble: 10KHz \pm 10dB		
AC power consumption	160W	320W	640W
DC power consumption	4A	8A	15A
Dimensions (H x W x D)mm	88(H) x 425(W) x 305(D) mm		
Weight	8 kgs	9.5 kgs	10.5 kgs
Mounting options	Table top or 19" rack.		