

T-60FP/T-120FP Mixer Amplifier

Operation Manual



Safety Precautions

- Be sure to read the instructions in this section carefully before use.
- It is important to observe all the safety and warning messages outlined in this manual at all times.
- We recommend you keep this manual handy for future reference.

Safety Symbol and Warning Messages

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



WARNING | The following contains potential safety hazards that may occur from mishandling and could result in death or serious injury.

When Installing the Unit

- Do not expose the unit to rain or any environment where it may be splashed by water or other liquids as doing so may result in fire or electric shock.
- Only use the unit with the voltage specified as using a higher voltage may result in fire or electric shock.
- Do not cut, kink or otherwise damage nor modify the power supply cord. In addition to this, avoid using this cord in close proximity to heaters and never place heavy objects (including the unit itself) on the power cord as doing any of these may result in fire or electric shock.
- It is important to replace the unit's speaker terminal cover after completing connection as high voltage is applied to the speaker terminals and touching these terminals may result in electric shock.
- At all time the unit's ground wire needs to be safely grounded to the earth terminal to avoid electric shock.
- Avoid installing or mounting the unit in unstable locations at all times as doing this may result in the unit falling causing personal injury and /or property damage.

When the Unit is in Use

- Should any of the following 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 attempts to operate the unit 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 case breaks
 - If the power supply cord is damaged
 - If the unit is malfunctioning
- As high voltage components are inside the unit, opening or removing the unit case may cause fire or electric shock. Refer all servicing to your nearest dealer or Sound Choice Pro Audio.
- Do not place cups, bowls or other containers of liquid or metallic objects on top of the unit. Accidental spills into the unit may cause fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover as this may also result in fire or electric shock.



CAUTION | The following contains potential safety hazards that may occur from mishandling that could result in moderate or minor personal injury and/or property damage.

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.
- Do not block the ventilation slots in the unit's cover as doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, locations that generate sooty smoke or steam, near heaters or exposing it to direct sunlight as doing so may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as they may fall or cause the unit to fall or break which may result in personal injury and/or property damage.
- Before switching the unit's power on, ensure that the volume control is set to the minimum position as loud noise produced at high volume when 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.
- Contact your dealer for cleaning requirements. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- As dust accumulates on the power supply plug or in the wall AC outlet, clean periodically to ensure a fire does not occur. Ensure the plug is inserted 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 an extended period of time to avoid fire or electric shock.

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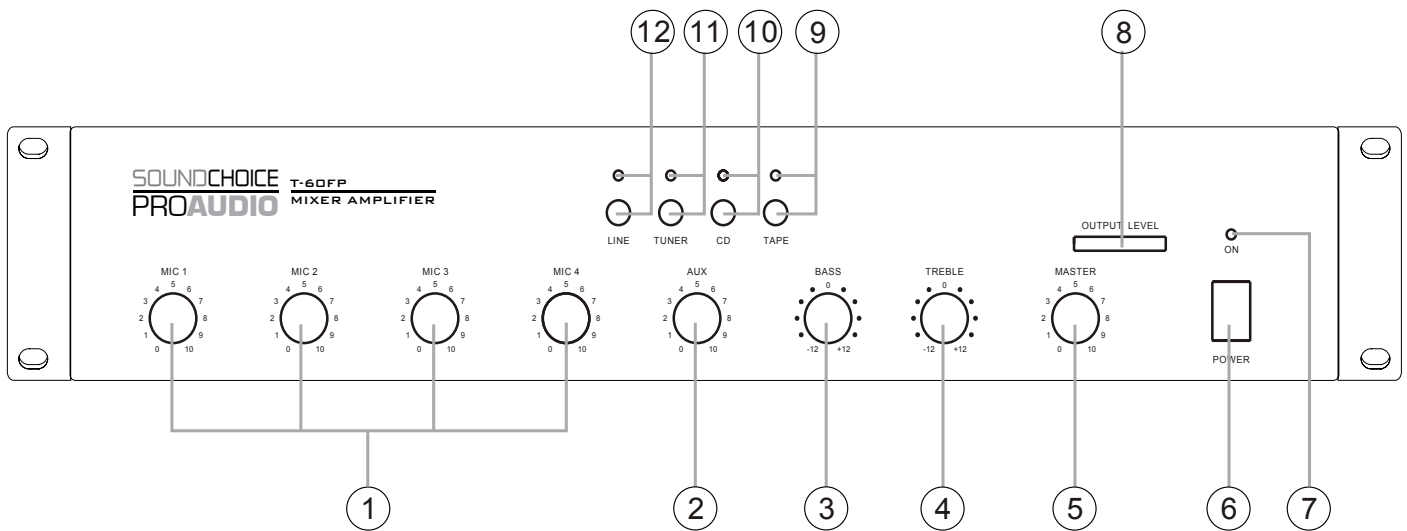
T-60FP / T-120FP Mixer Amplifier

Sound Choice Pro Audio T series public address mixer amplifiers have power ratings of 60 and 120 watts RMS. These sleek, attractive, very reliable units provide a compact solution for PA system amplification and distribution.

Key Features and Benefits

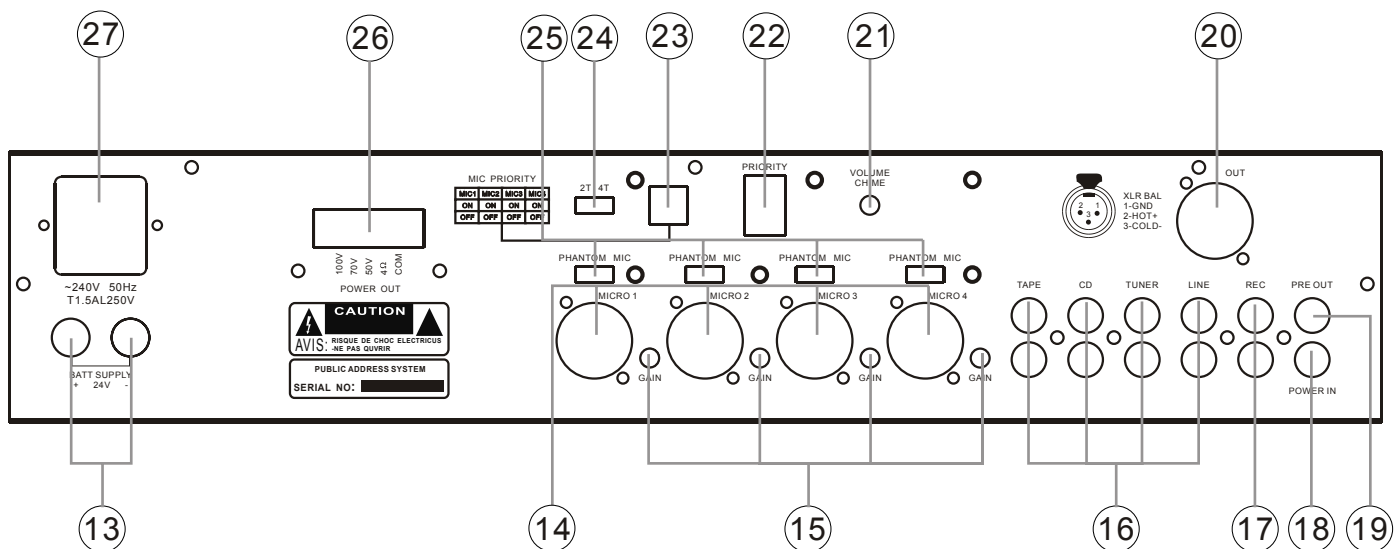
- Rated power: 60W/120W.
- AC and DC operation.
- Special low cut filter built-in.
- Front panel level meter and power indicator.
- Phoenix speaker output connectors for easy installation.
- 4 Aux RCA inputs, with inter-lock to avoid cross talk.
- Built-in 2 and 4 tone chime. Switchable options.
- Preamp OUT and IN to insert signal processing equipment.
- Individual front panel input and master volume controls.
- Current limiter, overload, short circuit and thermal protection.
- Selectable priority inputs to duck background music when paging.
- 4 balanced XLR mic inputs, each with phantom power switch.
- Constant voltage 100V, 70V and 50V lines and low impedance 4 ohm speaker terminals.

Front Panel



- | | |
|-------------------------------|----------------------------------|
| 1. MIC volume control | 7. Protection indicator |
| 2. AUX volume control | 8. Signal output level indicator |
| 3. Bass response adjustment | 9. Select tape channel input |
| 4. Treble response adjustment | 10. Select CD channel input |
| 5. Master volume control | 11. Select tuner channel input |
| 6. Power switch ON/OFF | 12. Select line channel input |

Rear Panel



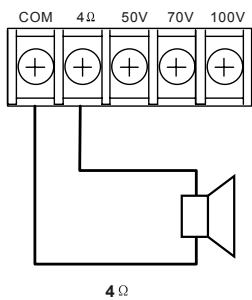
- 13. 24V DC backup battery supply
- 14. MIC (1~4) XLR microphone input
- 15. MIC (1~4) microphone gain control
- 16. Audio source RCA connectors
- 17. Recorder output RCA connectors
- 18. Power amplifier insert input
- 19. Pre amplifier output
- 20. Audio line level output
- 21. Chime volume control
- 22. Chime trigger
- 23. Dipswitch mic priority (1-4)
- 24. Switch to select 2 tone or 4 tone chime
- 25. MIC (1~4) phantom power select switch
- 26. Connectors for 4 ohms or 50V \ 70V and 100V speaker outputs
- 27. 240V/50Hz IEC AC power connector

MIC PRIORITY

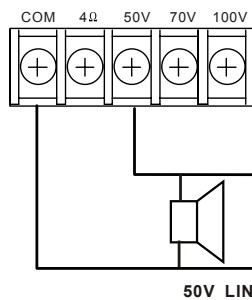
MIC1	MIC2	MIC3	MIC4
ON	ON	ON	ON
OFF	OFF	OFF	OFF

Selects mic priority

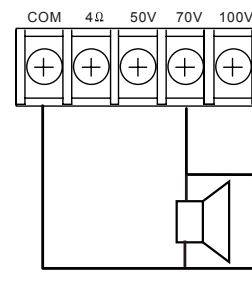
Speaker Connections



4 Ω



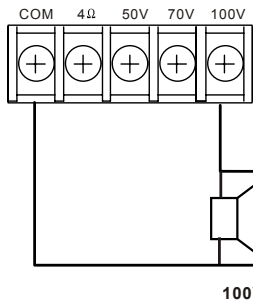
50V LINE



70V LINE

Total impedance
42 Ω (T-60FP)
21 Ω (T-120FP)

Total impedance
81 Ω (T-60FP)
41 Ω (T-120FP)



100V LINE

Total impedance
167 Ω (T-60FP)
83 Ω (T-120FP)

NOTE:

Do not use multiple speaker outputs at the same time. Only connect the speakers to one of the following outputs: 4 ohm, 50V, 70V or 100V terminal. Impedances indicated in the figures represent the total speaker system (load) impedances.



WARNING | Be sure to attach the supplied terminal cover after connecting the speaker cabling. High voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.

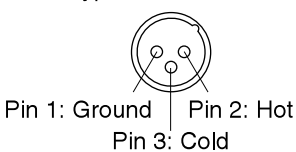


OPERATION NOTE | Do not turn mixer amplifier on and off frequently. You should allow 10 seconds after turning off the device, before turning it back on. Ensure the power supply matches the requirements listed on the back of the device. Always operate this device with AC ground wire connected. If the device goes into protection mode for any reason, it will auto-check and restart automatically if the issue has been resolved.

XLR Connections

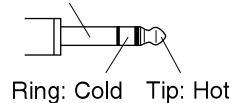
Usable connectors and plugs

- XLR type male connector

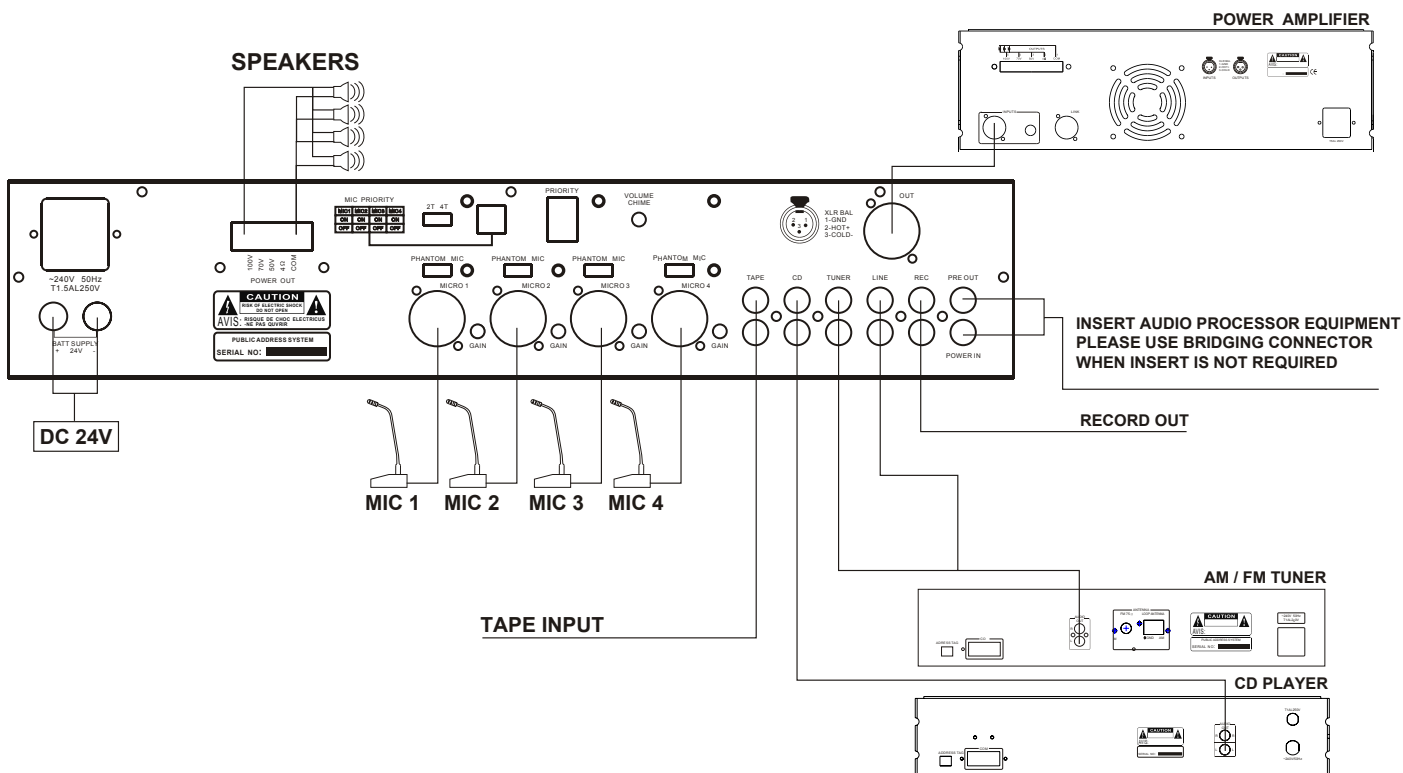


- Phone plug

Sleeve: Ground



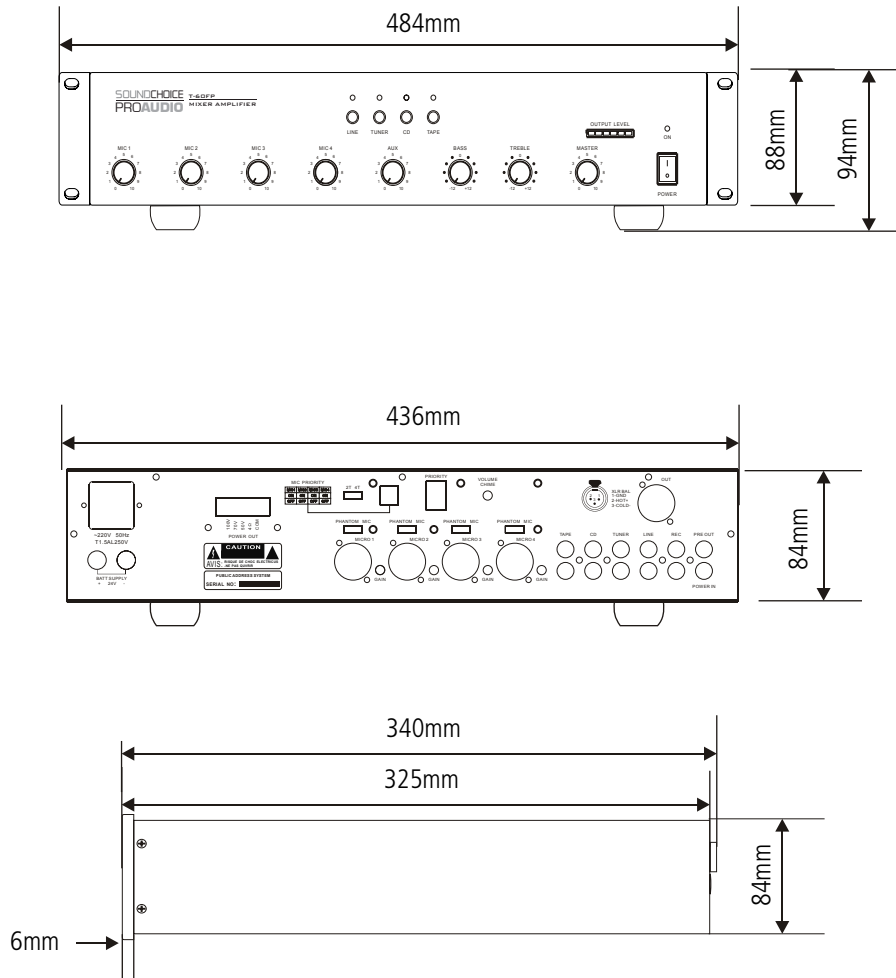
Rear Panel Connections



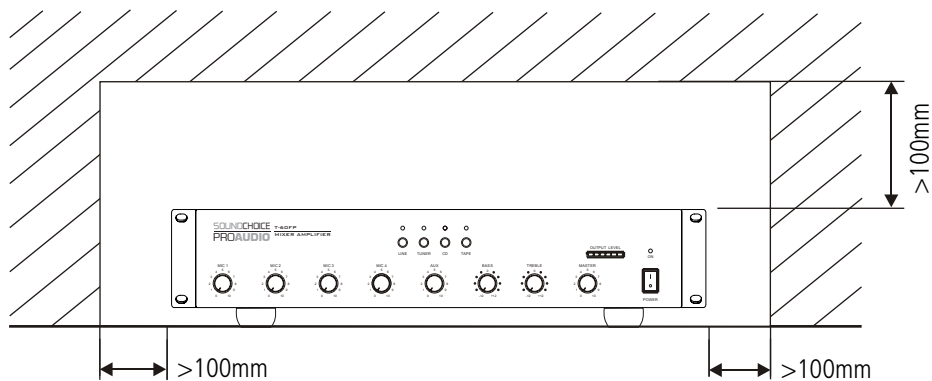
Specifications

Model	T-60FP	T-120FP
Rated Power Output	60W	120W
4 Microphone Inputs	XLR	
Sensitivity	-50 / -2dB 2.5 / 500 mV	
S/N Ratio	>68 dB	
Frequency Response	100 / 17.000 Hz (-3 dB)	
4 Auxiliary Inputs	RCA	
Tuner and Tape Inputs		
Sensitivity/Impedance	200 mV / 47 Koms	
CD and Line Inputs		
Sensitivity/Impedance	500 mV / 47 Koms	
S/N Ratio	90 dB	
Frequency Response	40/20.000Hz (-3 dB)	
Control		
Bass	+12 dB	
Treble	+12 dB	
Chime	2 tone active for contact free in priority and BGM	
Outputs		
Level/Impedance Output	775 mV / 47Koms	
Level/Impedance Recorder Output	200 mV / 1Koms	
Normal Distortion	< 0.1%	
Operating Condition		
Mains Power Supply	240V A C 50 Hz	
Dimensions (D*W*H)	484mm × 367mm × 88mm	
Weight	10.5kg	12.5kg

Dimensional Diagrams



CAUTION | As this mixer amplifier is convection cooled, it is important to keep a minimum of 100mm clear space around the unit at all times to prevent airflow obstruction and subsequent overheating.





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