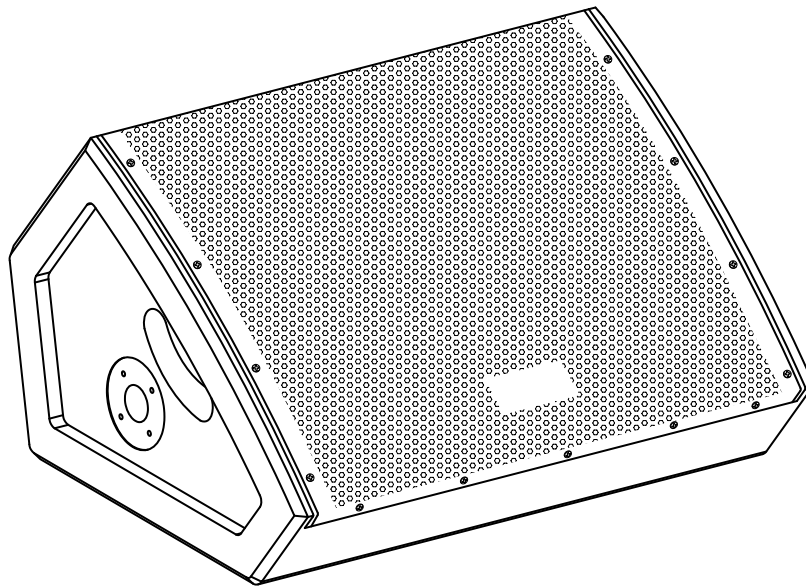


**PA ACTIVE LOUDSPEAKER
STAGE MONITOR**
400W RMS Bi-Amp

SMS-450P



- ◆ Thank you for purchasing SMS-450P PA Active Loudspeaker Stage Monitor.
- ◆ 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 PA Active Loudspeaker Stage Monitor.
- ◆ 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 back cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

CAUTIONS

Water & Moisture: Do not insert or remove the AC mains plug with wet hands.

Power Source: The voltage & frequency of the AC mains supply 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.

Stability: This set must be kept in a stable and flat position. This set can also be mounted on a stand. Before using any stand, check its strength and stability.

Cleaning: Disconnect this equipment from the AC mains 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

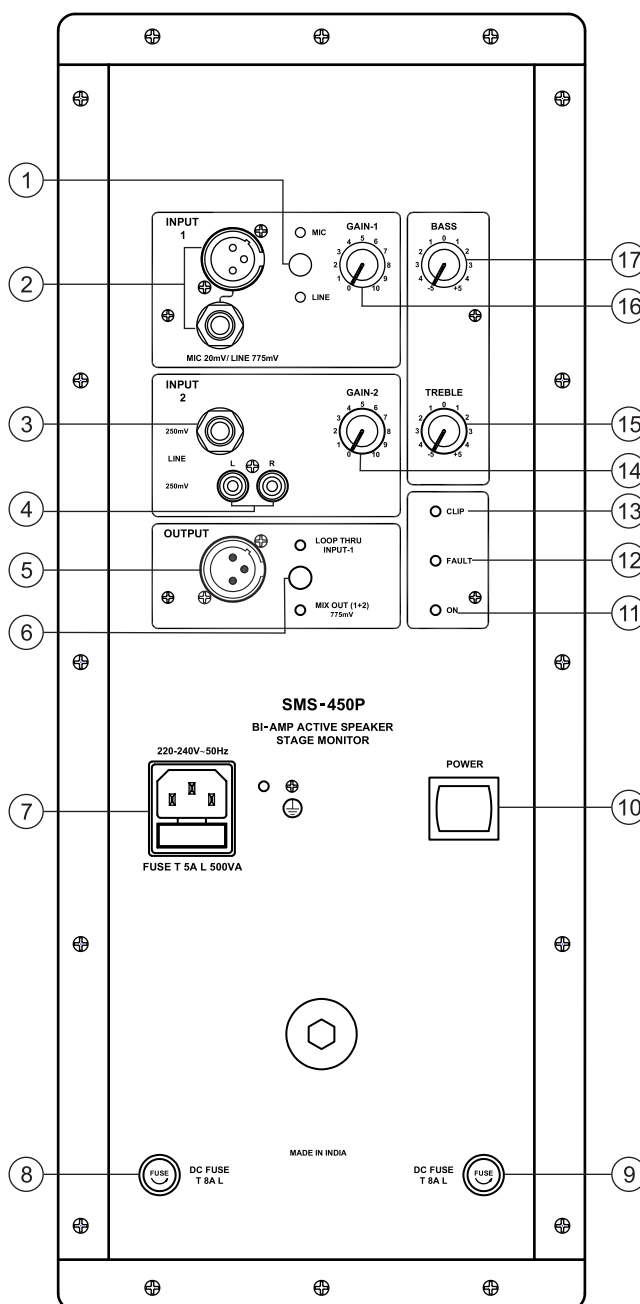
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• Features/General Description of Product

- SMS-450P is an Active Loudspeaker Stage Monitor with a built-in Bi-Amplifier; 350W RMS for LF + 50W RMS for HF.
- Attractive Wooden cabinet. Product designed for use in a wide variety of PA and Musical Instrument applications.
- SMS-450P has two inputs: Input-1 is a Balanced input switchable between MIC input and LINE input. Input-2 is a Balanced 250mV LINE input either through 6.3mm stereo jack or stereo L&R input through Dual RCA socket.
- Line Output through XLR and switchable for MIX output (1+2) or Loop through Output of input-1.
- Built-in 15"/8 ohm high quality woofer and an 8 ohm compression driver with titanium diaphragm.
- Active Bass/Treble controls for proper shaping of Low/High frequency levels.
- CLIP LED for monitoring the output & caution against overdrive.
- Protection provided for DC offset, output short and overdrive conditions.

• Rear Panel Controls Description

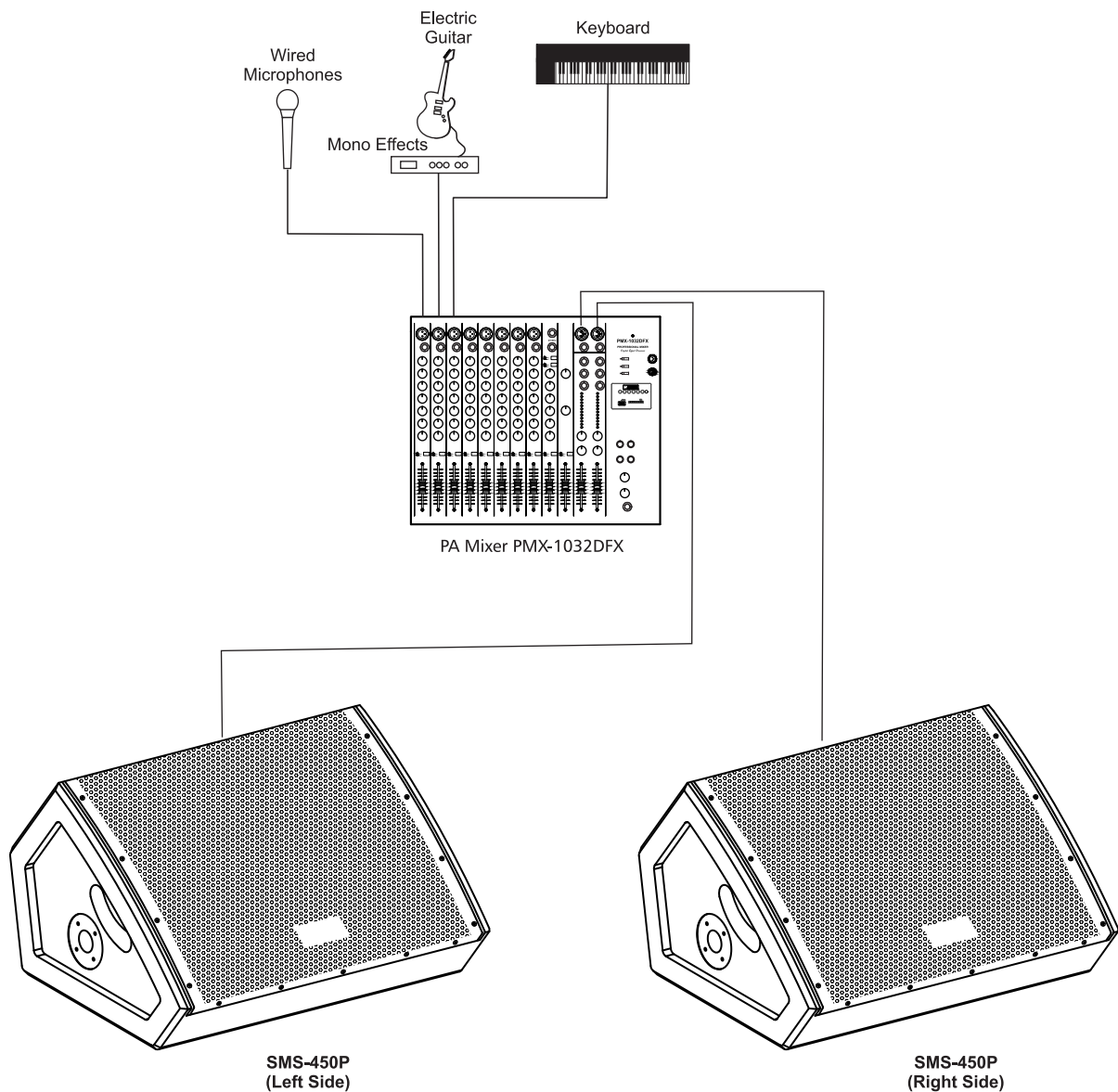
1. **Push Selector Switch for Mic/Line**
Keep the switch unpressed when connecting a mic to either socket of input 1. Keep the switch in pressed position when using Line level signal, e.g. from a mixer. The selection of mic or line input is indicated by the glow of their respective LEDs.
2. **Mic/Line Balanced Input Jack Socket/XLR Connector**
3. **Input 2 Jack Socket to connect wireless receivers, Keyboards etc.,**
4. **Dual RCA to connect L&R outputs from CD, iPod etc.,**
5. **Line Output XLR Connector**
For connecting to the Line input of another SMS-450P.
6. **Push Selector switch to select either Loop through Output of Input -1 or Mixed Output (1+2).** The selection of loop through output or mixed output is indicated by the glow of their respective LEDs.
7. **AC Socket with built-in 5A Fuse (T 5A L)**
8. **DC fuse holder (– Supply) with 8A fuse (T 8A L)**
9. **DC fuse holder (+ Supply) with 8A fuse (T 8A L)**
10. **Power Switch**
Push the top part of the knob to switch the amplifier ON. Push the bottom part of the knob to switch the amplifier OFF.
11. **Power LED**
This LED glows when the power is switched on.
12. **Fault LED**
This LED glows when any of the DC fuses blows. This may happen because of output shorting, DC offset or overdrive.
13. **Clip LED**
This LED glows when the output is too high. If this LED glows continuously, reduce the signal level.
14. **Volume Control for Input - 2**
15. **Treble Control**
For cutting or boosting the signal level of high frequencies.
16. **Volume control for Input -1**
17. **Bass Control**
For cutting or boosting the signal level of low frequencies.



• Interconnections and Applications

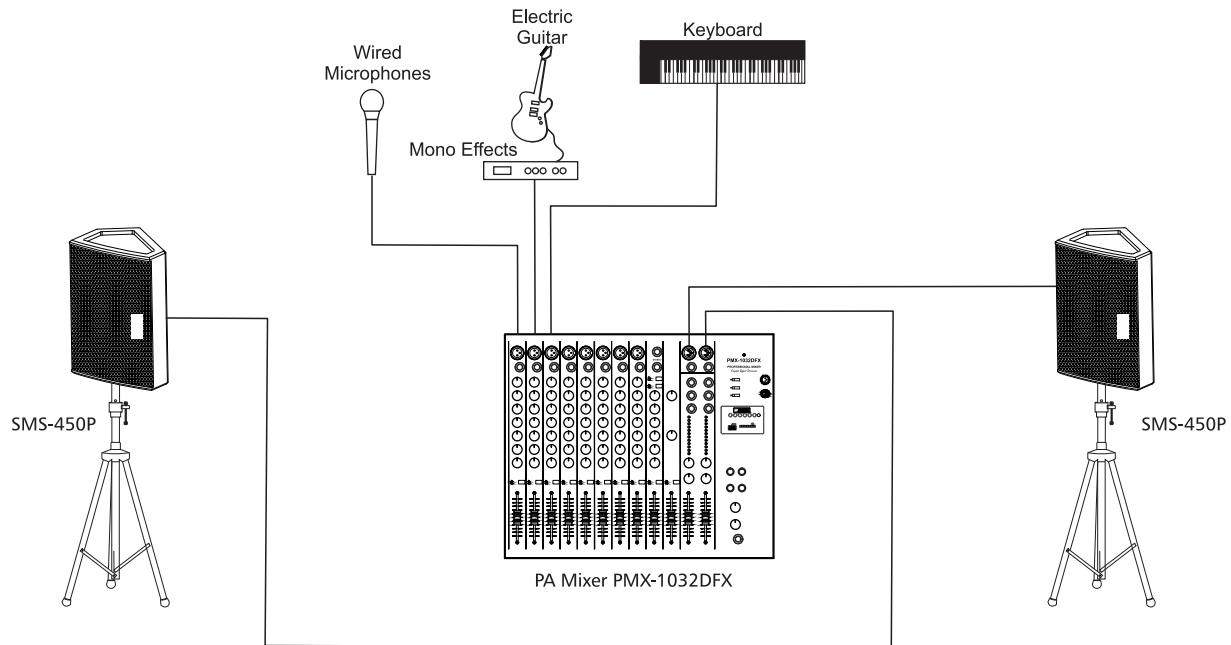
1. Connect the LEFT output of the mixer to the desired input of first SMS-450P.
2. Connect the RIGHT output of mixer to the desired input of second SMS-450P.
3. The different applications are demonstrated in Setup-1 to Setup-3.
4. The output level of each SMS-450P can be controlled from its individual gain control.
5. Bass, Treble control setting, if needed, will be done from individual SMS-450P only.
6. For undistorted sound, ensure that CLIP LED does not glow continuously.

SETUP-1: Using 2nos. of SMS-450P as Wedge Monitor in stereo configuration.

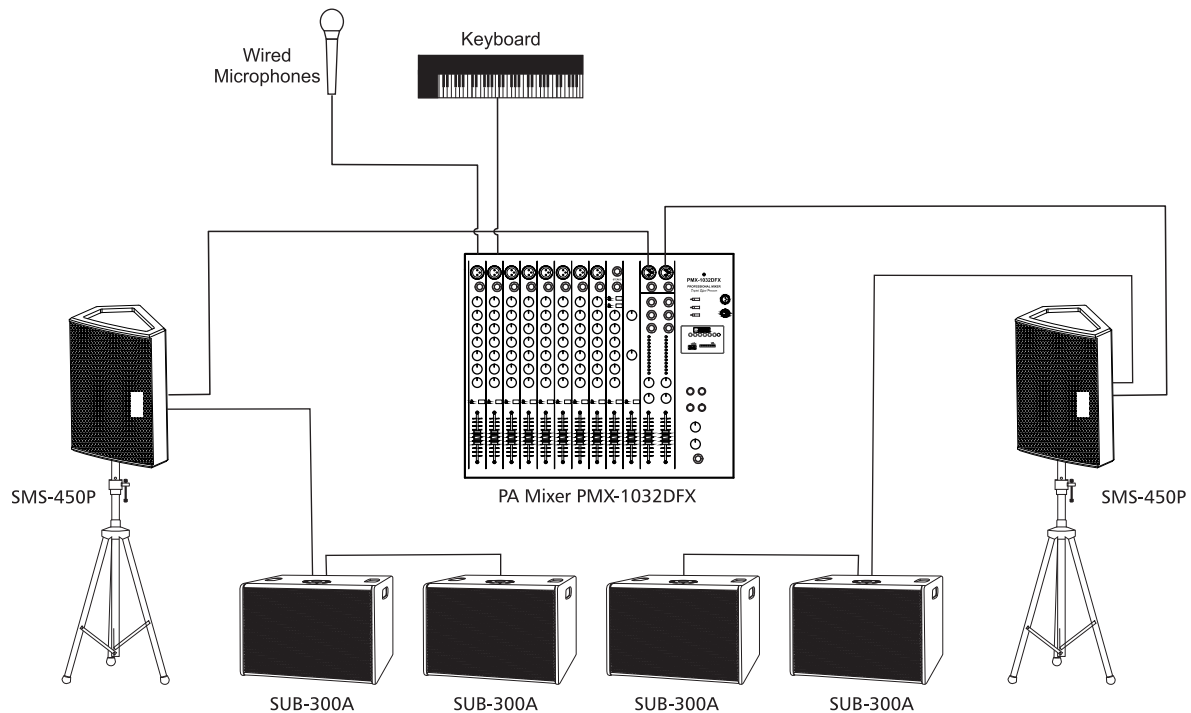


• Interconnections and Applications

SETUP-2: Using SMS-450P as main mix Stand mount Monitor Speaker



SETUP-3: Using SMS-450P for a DJ system.



• Specifications

Model	SMS-450P
Speaker	1 x 15" LF Speaker, ø3" Voice Coil 1 x HF Compression Driver, ø1.75" Voice Coil
Power Output (Bi-amp)	LF: 350W RMS at 1% THD Class H, HF: 50W RMS at 1% THD Class AB
Output Regulation	Better than 0.5dB
Input Channels	INPUT-1: MIC 20mV/3kΩ balanced, LINE: 775mV/10kΩ balanced, INPUT-2: LINE (Jack) 250mV/20kΩ balanced, RCA: 250mV (L&R)/10kΩ
Frequency Response	50-20,000Hz ±3dB
Crossover Frequency	2.5kHz , Filter Slope 24dB per octave
S/N Ratio	≥60dB
Tone Controls	Bass: ±5dB at 100Hz, Treble: ±5dB at 10kHz
Output	a) Loop through (INPUT-1): 20mV or 775mV b) Mixed Output (1+2): 775mV/1kΩ
Protections	AC: Fuse 1x5A (T 5A L) DC: Fuse 2x8A (T 8A L)
Power Supply	AC: 220-240V 50/60Hz
AC Power Consumption	500VA
Dimensions	W700 x H400 x D525 mm
Weight	35.50kg approx.