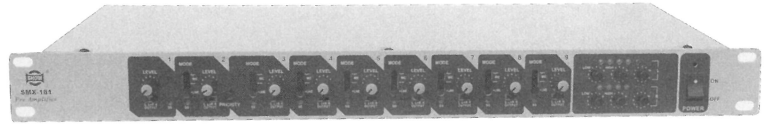
SHOW®

OPERATING
INSTRUCTIONS

SMX-181,281



PRE AMPLIFIER

SAFETY RELATED SYMBOLS

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.

This symbol ,wherever it appears , alerts you to important operating and maintenance instructions in the accompanying literature . Read the manual .

⏚ Protective grounding terminal .

~ Alternating current /voltage .

ϟ Hazardous live terminal .

ON: Denotes the apparatus turns on .

OFF: Denotes the apparatus turns off , because of using the single pole switch , be sure to unplug the AC power to prevent any electric shock before you proceed your service .

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user .

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus .

WARNING

- **Power Supply**

  Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

  Unplug this apparatus during lightning storms or when unused for long periods of time .

- **External Connection**

  The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

- **Do not Remove any Cover**

  There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

  The cover should be removed by the qualified personnel only.

  No user serviceable parts inside.

- **Fuse**

  To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

  Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

- **Protective Grounding**

  Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

  Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

- **Operating Conditions**

  This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.

  To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

  Do not use this apparatus near water.

Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.
- **Power Cord and Plug**

  Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

  Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Cleaning**

  When the apparatus needs a cleaning, you can blow off dust from the apparatus with a blower or clean with rag etc. Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body.

  Clean only with dry cloth.
- **Servicing**

  Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so .

  Servicing is required when the apparatus has been damaged in any way ,such as power supply cord or plug is damaged , liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

SAFETY INSTRUCTIONS

Read all safety instructions before operating the amplifiers .

1.Install equipment as follow condition.

- Install at flat place, not bending curved.
- Do not install near the water and moisture.
- Locate power amplifier away from heat source, such as radiators or other device that produce heat.
- Do not drop objects or spill liquids into the inside of amplifier.

2.Keep in mind the following when connecting amplifier.

- Connect the amplifier after reading of O/P manuals.
- Connect each connection of amplifier exactly, if not, it maybe caused hum, damage, electric shock in case of misconnecting.
- To prevent electric shock, do not open top cover.
- Connect the power cord with safety after check of AC power.

※Amplifiers should be serviced by qualified service person.

FEATURES:

1.CHIME SIGNAL(SMX-181 not included)

- INTERNAL SETTING HAVE FOUR TONE CHIME
- PERMISSIBLE EXTERNAL CHIME REMOTE AND P.T.T REMOTE

2.MASTER R,L OUTPUT

3.TWO BAND EQ PER OUTPUT

4.SIGNAL INDICATOR PER INPUT

5.PERMISSIBLE PHANTOM MIC FOR ALL INPUT

6.AUTOMATIC PRIORITY FOR MIC 1~3

7.SELECTIVE MIC INPUT OF H.P.F

8.SELECTIVE MASTER OUTPUT PER INPUT SIGNAL (OUTPUT L, L+R, R)

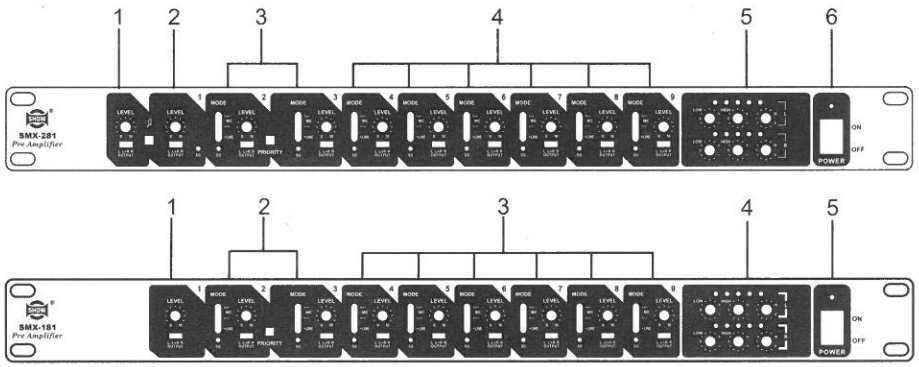
9.INDEPENDENT LINE INPUT WITH RCA PIN JACK(LINE 6~9)

10.RECORDING OUTPUT

11.LED INDICATOR FOR MASTER-OUTPUT

12.AC 230V/DC 24V

FRONT PANEL CONTROLS



1. CHIME

Pressing chime switch, chime signal will be activated as a pre signal. You can adjust level.

⚠**IMPORTANT NOTICE** : Priority function will be given only for selected output.

2. INPUT 1 CONTROLS

Adjust level volume so as not to turn on +3 LED under two~three O'clock of master volume this is control for MIC input level.

- **OUTPUT SWITCH**

This is selector that send signal of input 1 to the master output. When input 1 are activated, signal of input 4~ input 9 will be closed.

3. INPUT 2,3 CONTROLS

Adjust level volume so as not to turn on +3 LED under two~three O'clock of master volume this is control for MIC/LINE input level.

- **OUTPUT SWITCH**

This is selector that send signal of input 2,3 to the master output. When PRIORITY on and input 2,3 are activated, signal of input 4~ input9 will be closed.

- **MODE SWITCH**

MIC⌐: It is input mic switch of 300Hz H.P.F that makes sound clearance. When you select switch, windy sound. Resonance frequency, plosive sound will be removed.

MIC—: This is MIC input switch without filter line.

LINE : line input for CD, CASSETTE, TUNER.

⚠**IMPORTANT NOTICE** : Selecting mode switch

"⌐"(HPF),"—"(flat) power will be supplied to input XLR connector for condensor MIC only. If you connect unbalanced dynamic microphone with them, if may be defaulted and should be minimized level volume before moving to mode switch for noise down.

- **PRIORITY 2,3**

When you switch "ON", priority is activated and will closed input 4~9.

4.INPUT 4~9 CONTROLS

These make adjustment of MIC/LINE for input 4~9. Adjust output level so as not to turn "ON"

+3 LED under two~three O'clock.

- **OUTPUT SWITCH**

This is selector that send signal of input 4~9 the masteroutput. When input 1~3 signal are supplied,priority will be activated and close output of input 4~9

- **MODE SWITCH**

MIC⌐: It is input mic switch of 300Hz H.P.F that makes sound clearance. When you select switch, windy sound.Resonance frequency, plosive sound will be removed.

MIC—: This is MIC input switch without filter line.

LINE : line input for CD, CASSETTE, TUNER.

⚠**IMPORTANT NOTICE** : Selecting mode switch

"⌐"(HPF)," —"(flat) power will be supplied to input XLR connector for condensor mic only.

If you connect unbalanced dynamic microphone with them, it may be defaulted and should be minimized level volume before moving to mode switch for noise down.

5.MASTER L,R/EQ

This is master volume for all input levels you had better use toward two~three O'clock. Adjust level before +3 LED for proper operation.

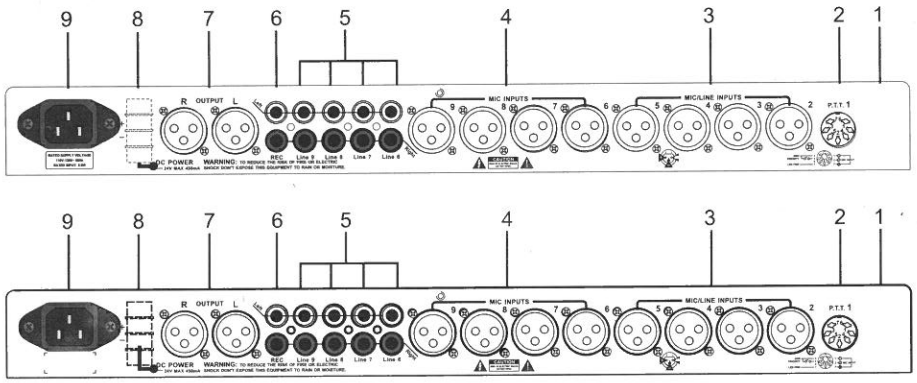
- **EQUALIZER**

Adjust low, high if EQ volume according to condition.

6.POWER SWITCH

When switches the POWER switch to "ON" position ,then the power indicator lights , indicats the apparatus is on.When switches the POWER switch to "OFF" position , Then the power indicator exindicats the apparatus is off.

REAR PANEL CONTROLS



1. CHIME REMOTE TERMINAL
This is a terminal for chime signal.

2. P.T.T1
Connect this terminal with priority and chime controls are activated from P.T.T remote and microphone cable with shield can extended at the MAX 30m.

⚠ **IMPORTANT NOTICE** : Be sure not to make a shorten to the ground because microphone signal +, - is for operating power of condensor microphone.

3. MIC/LINE INPUTS 2~5
MIC/LINE balanced input can be selected by mode switch in the front panel.

⚠ **IMPORTANT NOTICE** : When you select MIC input,operating voltage is only for condensor microphone if you connect dynamic microphone balanced by mistake, microphone will be out of work also, be sure not be insert mic input connector under level volume-up, speaker systems may get damage due to big noise.

4. MIC INPUTS 6~9
MIC input 6~9 balanced are only for microphone input.

⚠ **IMPORTANT NOTICE** : When you select MIC input,operating voltage is only for condensor microphone if you connect dynamic microphone balanced by mistake, microphone will be out of work also, be sure not be insert mic input connector under level volume-up, speaker systems may get damage due to big noise.

5. LINES 6~9
LINE 6~9 unbalanced two, Left, Right RCA jacks are converted into mono in the internal circuit all line input −10dB(245mV) input level are for CASSETTE DECK, CD,DAT DECK, TUNER.

6. RECORDING
Recording outputs two Left, Right unbalanced RCA jacks are converted into stereo signals in the internal circuit from mono signal. Recording output volume can not be controlled by master volume controller because circuit of recording output controls is just in the before master volume controls.

7. OUTPUTS L,R
This is master outputs which can be selected by switch.

8. DC POWER
This is a connector unexpected AC failure. Built in fuse PCB F902<T0.5AH 250V (55T)>.

⚠ **IMPORTANT NOTICE** : Be sure not to make a shorten for battery and polarity of battery.

9. AC POWER
Be sure to Check AC voltage.

SPECIFICATIONS

■TECHNICAL:

Input Sensitivity/Impedance	MIC:−50dBu(2.45mV)5KΩBAL LINE:−10dBu(245mV)5KΩBAL LINE RCA IN: −10dBu(245mV)10KΩUNBAL
Output level/impedance	MASTER 1,2:NOR+4dBu(1.23V)200KΩBAL REC:NOR 0dBu(0.775V)10KΩUNBAL
frequency response	LESS THAN −0.5dB(20Hz~20KHz)
signal to noise ratio	MIC:MORE THAN 60dB LINE:MORE THAN 75dB
T.H.D.	MIC:LESS THAN 0.5% LINE:LESS THAN 0.3%
Cross-Talk	MIC:MORE THAN 60dB LINE:MORE THAN 75dB
Power Consumption	15W

■GENERAL:

Power(option)	AC 110V-120V,60Hz; AC 220V-240V, 50Hz 24V DC
Dimensions	483(W)×44(H)×200(D)mm 19(W)×1.7(H)×7.9(D)in
Weight(kg/lbs)	3.9(kg)/8.6(lb)

NOTE:
Specifications and design subject to change without notice for improvements.