

USER MANUAL

QSM-808A /820A

Stereo Mixer Amplifier





PA TECH

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

QSM-808A and QSM-820A are stereo mixer amplifiers designed for multi-input application. There are 6 input sources: Mic1 ~ Mic3, CD, AUX, and Tape. Each microphone has its own level control; while CD, AUX, and Tape share the same level control. And there are bass, treble, and level (volume) control for the output.

The MIC. 1 has the voice first priority function.

The output power of QSM-808A is 40W x 2 RMS, and QSM-820A is 100W x 2 RMS.

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

It accepts AC 115V/230V 50/60 Hz.

QSM-808A and QSM-820A are the ideal stereo mixer amplifiers for multi-input source.

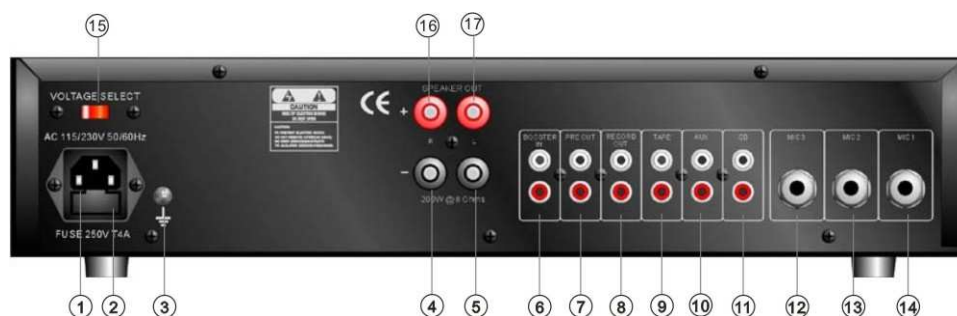
3. Panel Description

FRONT PANEL DESCRIPTION



1. MIC. 1 Volume Control	7. Treble Control
2. MIC. 2 Volume Control	8. Master Volume Control
3. MIC. 3 Volume Control	9. Power Switch
4. CD/AUX/Tape Selection Switch	10. Power Indicator - LED
5. CD/AUX/Tape Volume Control	11. Level Indicator - LED
6. Bass Control	

REAR PANEL DESCRIPTION



1. AC Power Input Socket	10. AUX Input Jack
2. AC Fuse	11. CD Input Jack
3. Earth Ground Connection Screw	12. MIC 3 Input
4. Speaker Output (Right -)	13. MIC 2 Input
5. Speaker Output (Left -)	14. MIC 1 Input
6. Booster Input Jack	15. AC Voltage (115V/230V) Selection Switch
7. Preout Jack	16. Speaker Output (Right +)
8. Record Out Jack	17. Speaker Output (Left +)
9. Tape Input Jack	

4. Features

- Stereo Input/Output
- 3 selectable input sources: CD/AUX/Tape
- 3 MIC Input
- Voice priority function on MIC. 1
- Individual MIC input level control
- Booster In
- Record Out
- Preout
- Overload, over temperature, and speaker short protection.
- Master Bass, treble, and volume control
- AC power in
- 2U height
- 19" rack or table mounted

5. Power Source

● AC Power Source

The supply transformer has been designed for use on either 115V or 230V, (50-60Hz), selected by a push switch on the rear panel. The amplifier is factory set at 230Vac mains voltage.

6. Connection

● Microphone Connection

Mic1~3 inputs are unbalanced standard 1/4" Phone Jack.



● Mute Function

Priority Microphone, Mic1 input has VOX priority over other input source..

● Input Connection

The equipment provides 3 input jacks, which may be used for connecting other signal sources: CD, AUX, and Tape. A rotary switch at the front panel for the user to select desired input source.

To connect microphone, insert the microphone plug into the jack on the rear panel. All 3 microphones can be used. But only the MIC 1 has voice priority function. It will mute other input sources, when the user begins to speak.

“Booster In” can also be connected for the signal from other mixer amplifier or pre-mixer amplifier..

● Output Connection

There are 2 pair binding posts on the rear panel for the connection of 8 ohm stereo speaker. Pay attention to the correct polarity of the speaker, while connecting.

● Preout Connection

“Preout” jack is to connect the output signal (@ 1V) to other amplifier.

● Record Out Connection

Connect “Record Out” jack to the record machine. The “Record Out” signal is @1V.

7. Operation

After all connections are completed, rotate CD/AUX/Tape Selection Switch to the input source desired. Before turn on the power switch, make sure the master volume control is at proper position (not at maximum position) to avoid sudden loud sound. Then turn on the power switch.

Turn the master, bass, treble control to what you desire. For the input signal, if necessary, turn the corresponding level control to your desire.

8. Technical Specification

Model	QSM-808A	QSM-820A
Type	Mixer Amplifier	
Power Supply	AC 115V/ 230V, 50 / 60Hz \pm 10% Switchable	
Output Power:	40W x 2	100W x 2
Total Harmonic Distortion	\leq 0.05% @ 1KHz	
Sensitivity	1/4" PHONE JACK (UNBALANCED) MIC 1~3 1 mV @ 600 ohm RCA JACK (Unbalanced) CD 200mV @ 20K ohm AUX 200mV @ 20K ohm Tape 200mV @ 20K ohm Record Out, Pre-out @ 1V	
Frequency Response	20Hz ~ 20KHz \pm 3dB	
Output	8 ohm Binding Post	
Signal to noise ratio	< 70dB	
Damping Factor	>200	
Voice Priority Mute	MIC. 1	
Protection	Speaker Short Temperature Overload	
AC power consumption	150W @ rated power	500W @ rated power
Dimensions (H x W x D) mm	88 (H) x 425(W) x 305 (D) mm	
Weight	7 kgs	9 kgs
Mounting	Free standing or 19" rack	

WARNING: THIS APPLIANCE MUST BE EARTHED

