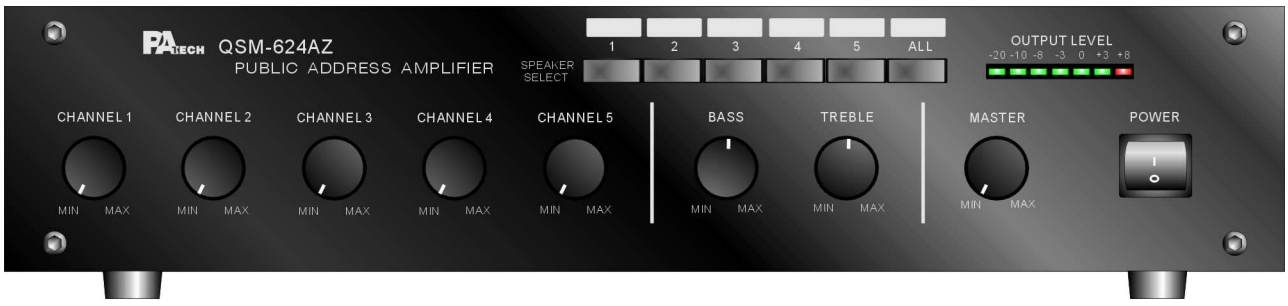
USER MANUAL

QSM-606A
QSM-612A
QSM-624A

MIXER AMPLIFIER



WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT The wires in the mains lead are coloured In accordance with the following code: Green and Yellow: Earth (E) Blue: Neutra (N) Brown: Live (L)	As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter N or coloured black. The wire which is marked with the letter L or coloured red. If a 13 Amp (B.S.1363) plug or any other type of plug is used, a 5 Amp fuse must be fitted either in the plug or at the distribution board.

GENERAL INSTALLATION

DO NOT run microphone cables near mains, data, telephone or 70V line cables.

DO NOT run 100V line cable near data, telephone or other low voltage cables.

DO NOT exceed 90% of the amplifiers output power when using 70V line (speech only).

DO NOT exceed 70% of the amplifiers output power when using 70V line (high level background music).

DO NOT use re-entrant horn loudspeakers for background music unless the loudspeaker has been specifically designed for this purpose.

AVOID jointing the microphone cable, when this is unavoidable make sure a good screened connector is used, e.g. Phono.

ALWAYS use a unbalanced or floating low impedance microphone terminating into a unbalanced input on long microphone cable runs.

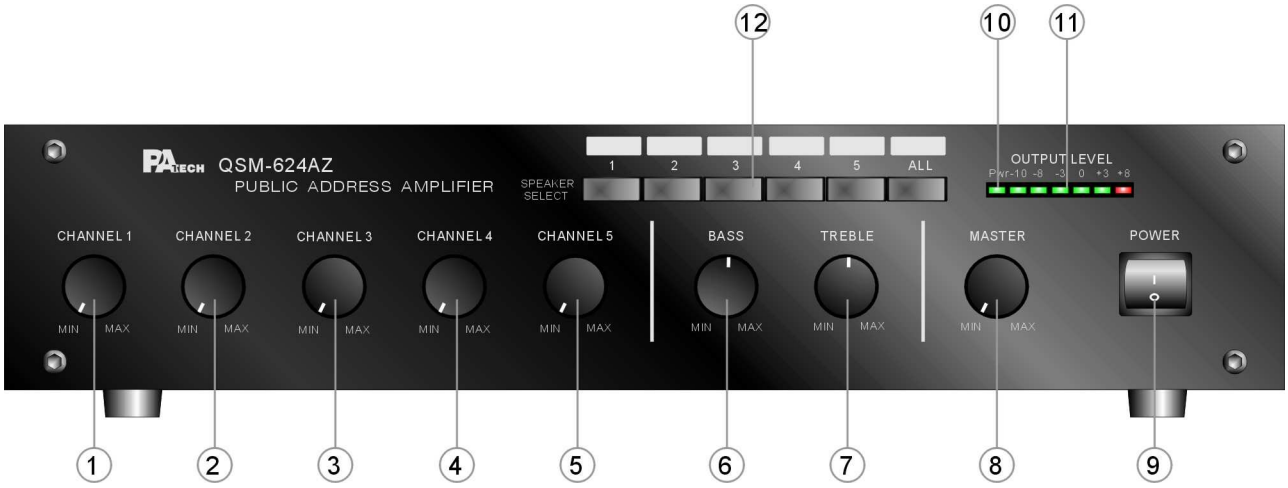
ALWAYS use a mains grade double insulated cable for the loudspeaker cable runs.

ENSURE that all loudspeakers are in-phase.

ENSURE that there are no short circuits on the loudspeaker line before connecting to the amplifier.

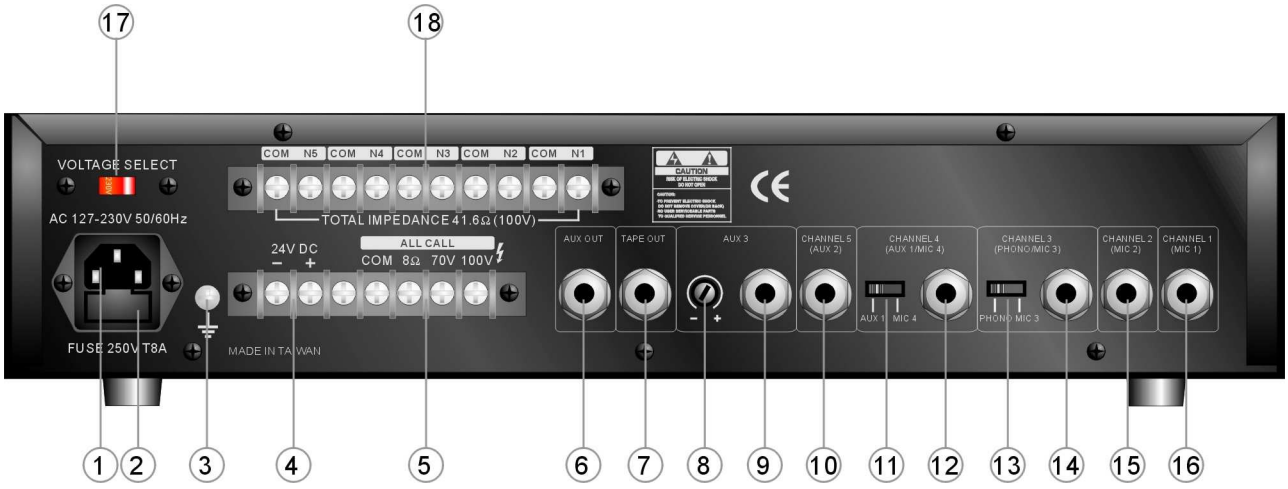
QSM-606A, QSM-612A, and QSM-624A Mixer Amplifier

FRONT PANEL



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

REAR PANEL



1. Mains Input Socket
2.Power Fuse
3. Earth Connection Screw
4. DC Power Supply Terminals
5. Speaker Output Terminals
6. Aux Output (6.3 Phone Jack)
7. Tape Output (6.3 Phone Jack)
8. Aux 3 Level Control
9. Aux 3 Input (6.3 Phone Jack)
10. Channel 5/Aux 2 Input (6.3 Phone Jack)
11. MIC 4/Aux 1 Selector Switch
12. Channel 4/Aux 1 Input (6.3 Phone Jack)
13. MIC 3/Phono Selector Switch
14. MIC 3/Phono Input (6.3 Phone Jack)
15. MIC 2 Input (6.3 Phone Jack)
16. MIC 1 Input (6.3 Phone Jack)
17. Mains Voltage (115V/230V) Selector Switch

Mains Connection

The supply transformer has been designed for use on either 115Vac or 230Vac, selected by slide switch on rear panel. The amplifier is factory set at 230Vac mains voltage.

Battery Connection (24Vdc)

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

Microphone Connection

Mic1~5 inputs are unbalanced standard 6.3 Phone Jack, rear panel.

Mic1 input has VOX priority which will override Channel 3~6 and Line input signals but NOT the Channel 2 input.

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 slide switch is located on the read panel for selection of, Channel 4 Mic4→Aux 1 , Channel 5 Aux 2 , Aux3.

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

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

The Aux / input sockets are standard 6.3 Phone 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.

Tape output Connection

These standard 6.3 Phone Jack sockets provide a mixed output suitable for connection to a tape or Cassette recorder.

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.

Power outline voltage complies with power input voltage (IEC voltage).

Loudspeaker Connection

Note: Use only 100V or 70V (Selectable) Line Loudspeakers

Low Impedance (8Ω)

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

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) (Mic1 XLR Jack)

QSM-606A, QSM-612A, and QSM-624A Technical Specifications

Type		Mixer Amplifier		
Model		QSM-606A	QSM-612A	QSM-624A
Supply	Mains Voltage	AC 115V/ 230V, 50 / 60Hz ± 10% Switchable		
	Battery Voltage	DC 24V (MAX 10% deviation)		
Output power	Max:	90W	180W	380W
	Rated:	60W	120W	240W
Output		Speaker outputs: Music/speech: , 8Ω, 70V, 100V Tape output: 1V 150KΩ Aux output: 1V, 150Ω		
Inputs		Mic.1~5: sensitivity. Adjustable (1mV), 600Ω Unbalanced. Phono : sensitivity Mono 4mv 100K Aux 1~3: 150mV, Mono 22K,		
Frequency response		Mic. 1~Mic 5: 60Hz ~ 15KHz ± 3dB Aux 4~ 6: 50Hz ~ 20KHz ± 3dB Phono: cmrr		
Total harmonic distortion		Less than 1% at 1KHz, rated power		
Signal to noise ratio		All Volume Controls C.C.W.: 80dB below rated power Mic 1~ 5: 60dB below rated power Phono:55 db below rated power Aux: 80dB below rated power		
Tone Controls		Bass: ± 10dB at 100Hz Treble: ± 10dB at 10KHz		

Controls	Front Panel Power switch 5 zone control and all call push switch Channel 1~5 volume control Tone controls (Bass, Treble) Master volume control Rear Panel: Mic 3/Phono Slide switch Mic 4/Auxl Slide switch Aux 3 volume control AC 115V / 230V voltage Selector switch		
Indicators	Power indicator (LED), output level indicators (3 LEDS)		
AC power consumption	160W	320W	640W
DC power consumption	4A	8A	15A
Priority	Priority level (Mic. 1: 0.3mv) Channel 1 can mute Channel3 ~5, Aux3		
Dimensions (H x W x D)mm	88(H)x425(W)x305(D)		
Weight	8.0Kgs	8.5Kgs	10.6Kgs
Color	Black		
Mounting options	Table top or 19” rack mountable		