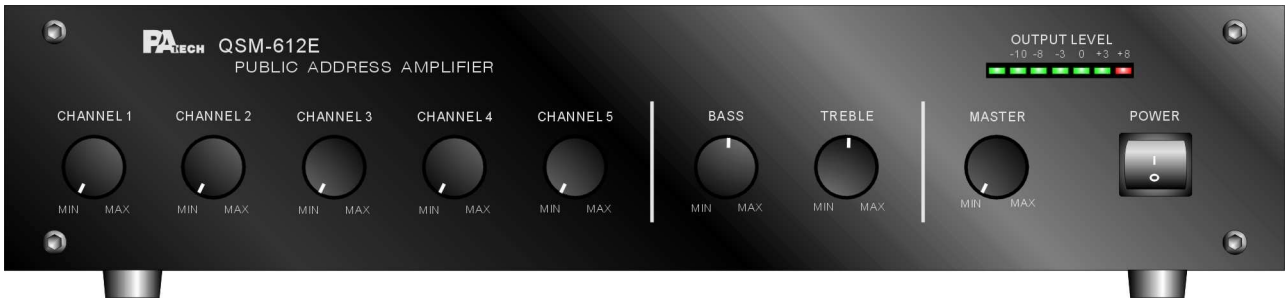
USER MANUAL

QSM-606E

QSM-612E

QSM-624E

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.

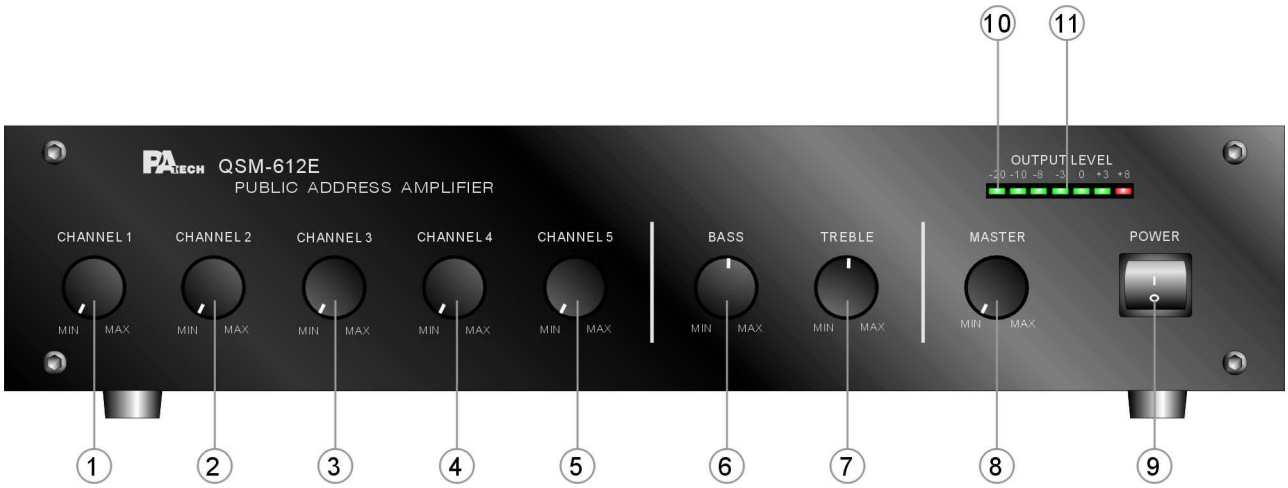
GENERAL INSTALLATION

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.

(1)

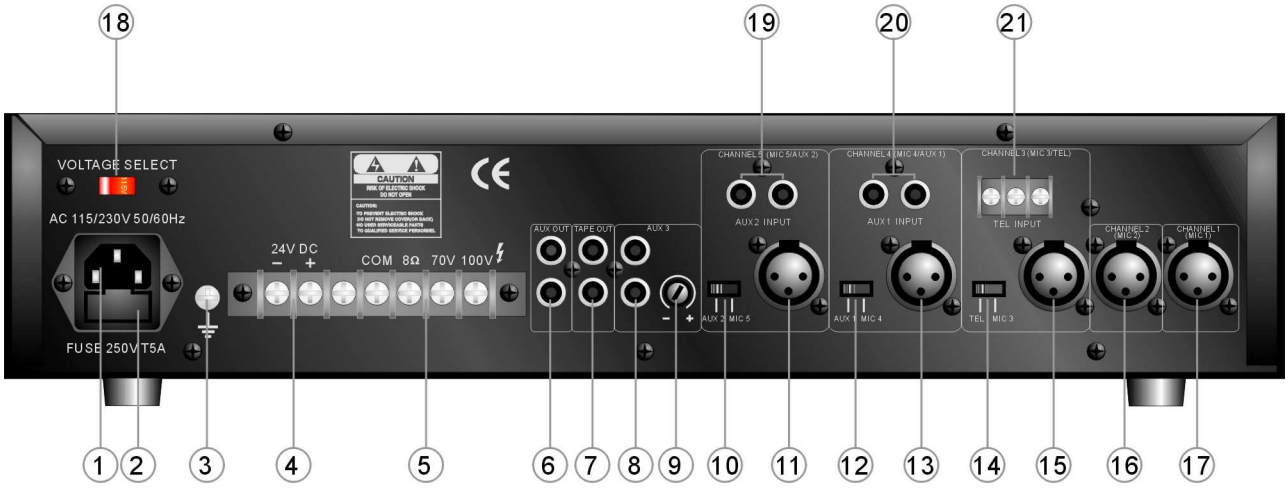
QSM-6xxE AMP 60W/120W/240W Mixer Amplifier

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 (RCA Jack)
7. Tape Output (RCA Jack)
8. Aux 3 Input (RCA Jack)
9. Aux 3 Level Control
10. MIC 5/Aux 2 Selector Switch
11. MIC 5 Input (XLR Jack)
12. MIC 4/Aux 1 Selector Switch
13. MIC 4 Input (XLR Jack)
14. MIC 3/TEL Selector Switch
15. MIC 3 Input (XLR Jack)
16. MIC 2 Input (XLR Jack)
17. MIC 1 Input (XLR Jack)
18. Mains Voltage (115V/230V) Selector Switch
19. Aux 2 Input (RCA Jack)
20. Aux 1 Input (RCA Jack)
21. Tel Page Input (Screw Terminals)

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.

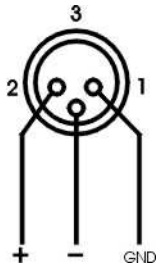
Battery Connection (24Vdc)

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 earthing the case.

NOTE: the connection cable must be fitted with an in-line fuse. Quick blow type F10A when Connecting batteries please ensure correct polarity.

Microphone Connection

Mic1~5 inputs are balanced standard XLR 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

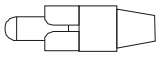
The equipment provides an auxiliary input which may be used for connecting other signal sources such as a Radio Tuner, CD or Cassette player. A slide switch is located on the read panel for selection of, Mic3→Tel, Mic4→Aux4, Mic5→Aux5.

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 stereo RCA Jack phono, 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.

RCA Phono plug connections



Sleeve-Screen

Pin- Signal

Tape output Connection

These standard RCA stereo Jack phono 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 comply 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-6xxE Technical Specifications

Type		Mixer Amplifier		
Model		QSM-606E	QSM	624E
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 balanced. Aux 4~6: 150mV, stereo 22K,		

	TEL: 150mV, Adjustable 600Ω, balanced		
Frequency response	Mic 1~Mic 5: 60Hz ~ 15KHz ± 3dB Aux 4~ 6: 50Hz ~ 20KHz ± 3dB TEL: 50Hz ~ 15KHz ± 3db(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 TEL: 80dB rated power Aux: 80dB below rated power		
Tone Controls	Bass: ± 10dB at 100Hz Treble: ± 10dB at 10KHz		
Controls	Front Panel Power switch Channel 1~5 volume control Tone controls (Bass, Treble) Master volume control Rear Panel: Aux 3 volume control Mic 3/Tel Slide switch Mic 4/Aux 1 Slide switch Mic 5/Aux 2 Slide switch AC 115V / 230V voltage Selector switch		
Indicators	Power indicator (LED), output level indicators (6 LEDS)		
AC power consumption	160W	320W	640W
DC power consumption	5A	8A	15A
Phantom power	Set up Mic 1 “off” Mic 2 “off” Mic 3 “on” Mic 4 “off” Mic 5 “off” Phantom power output 16V		
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	8.5 kgs	10 kgs	11 kgs
Color	Black		
Mounting options	Table top or 19” rack mountable		