



I N S T R U C T I O N M A N U A L

RZ speaker series

Range of active and passive speakers

M A N U A L V E R S I O N 1 . 0

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Due to continuous product development, please ensure that you have downloaded the latest instruction manual for this product from the Kam website at www.kam.co.uk

For the latest updates and information on the entire Kam range visit:

www.kam.co.uk

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Due to continuous product development, specifications and appearance are subject to change. © Copyright Lamba plc 2012. E&OE.



M A D E I N C H I N A

Thank you for purchasing this Kam product, we are sure that it will serve you for many years to come.

To optimise the performance of this product, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. Please retain them for future reference. This unit has been tested at the factory before being shipped to you.

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture. To prevent a fire hazard, do not expose the unit to any naked flame sources. Unplug this apparatus during lightning storms or if it is unlikely to be used for long periods of time.

When installing the unit, please ensure you leave enough space around the unit for ventilation. Slots and openings in the unit are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered.

If the unit is powered by the mains, always handle the power cable by the plug. Never pull out the plug by pulling on the cable. Never touch the power cable when your hands are wet as this could cause an electric shock. Do not tie a knot in the cable. The power cable should be placed such that it is not likely to be stepped on. A damaged power cable can cause a fire or give you an electrical shock. Check the power cord periodically, if you ever find that it is damaged, replace it before using the unit again. Contact your retailer for a replacement.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit is to be used meets the required written on the unit.

The lightning flash symbol inside a triangle is to alert the user to the presence high voltage within the unit's enclosure that may be of sufficient power to constitute a risk of electrical shock to persons.

Caution: to prevent the risk of electric shock, do not attempt to open the unit. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

The exclamation mark inside a triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Select the installation location of your unit carefully. Avoid placing it in direct sunlight or locations subject to vibration and excessive dust. Do not use the unit where there are extremes in temperature (below 41°F / 5°C or exceeding 95°F / 35°C).

Unpacking and safety Please unpack your new product carefully. Your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit. Please contact the retailer you purchased it from immediately. If there is any damage to the mains cable do not use the device. Always disconnect the unit from the mains supply when carrying out any cleaning of the unit.

Manufacturer declarations



In compliance with the following requirements: **RoHS Directive (2002/95/EU)** and **WEEE Directive (2002/96/EU)**. If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

CE declaration of conformity

R&TTE Directive (1999/5/EU), EMC Directive (2004/108/EU), Low Voltage Directive (2006/95/EU).

The declarations are available on application from certification@lambapl.com

Before putting the devices into operation, please observe the respective country-specific regulations.

RZ 12 & RZ 15 passive

The connection to your RZ passive speaker is via a speakeron socket. Connect a suitable cable from the output of your amplifier into the input socket on the rear of your RZ passive speaker.

Connecting your speakers to your amplifier

- Always ensure that both volume controls on your amplifier are turned to zero and that its mains power is switched off when making connections.
- Using an appropriate cable (if in doubt refer to the 'Connection types' section below) connect the left speaker to channel A and the right speaker to channel B.
- Please read the rest of this manual before turning on the power or adjusting the volume controls.

Connection types

Speakeron - some amplifiers feature a pair of speakeron speaker output sockets. Speakeron is a standard connection type that is only used for connecting speakers to amplifiers. You cannot use Speakeron connections for any other type of audio signal connection.

The Speakeron connections on your RZ speaker are internally wired with a standard +1 / -1 configuration. This means they are designed to be used with two pin Speakon cables. This wiring configuration matches all speakeron equipped Kam speakers.

IMPORTANT - Active speakers

Before connecting active speakers to the mains power supply, ensure that the mains voltage selector (26) is set to the correct voltage supply for your country! Failure to do so will severely damage the unit.

Connections to RZ12A / RZ15A

Please note these are active cabinets and require a line level input signal only, **NEVER** connect directly to an amplifier, as this will severely damage your speakers and or amplifier. If in any doubt contact your retailer for advice before connection.

The RZ range of active speakers can be connected in the following ways:

1. Microphone - you can plug a microphone directly into the rear panel of the speaker, using either the unbalanced ¼ jack socket (1) or the balanced XLR socket (2).
2. Audio source - a CD, Mp3 or line level audio source can be connected directly to the rear panel of the speaker, using the phono/RCA input sockets (4).
3. Mixer - Connecting a mixer to the RZ speaker is easy. Use either the RCA (4) or XLR (5) input sockets. Remember if stereo sound is required, you will need a pair of active speakers. The left signal from you audio source will need to go to one speaker and the right signal from your audio source will need to go to the other.

Linking

It is possible to link one active speaker to another.

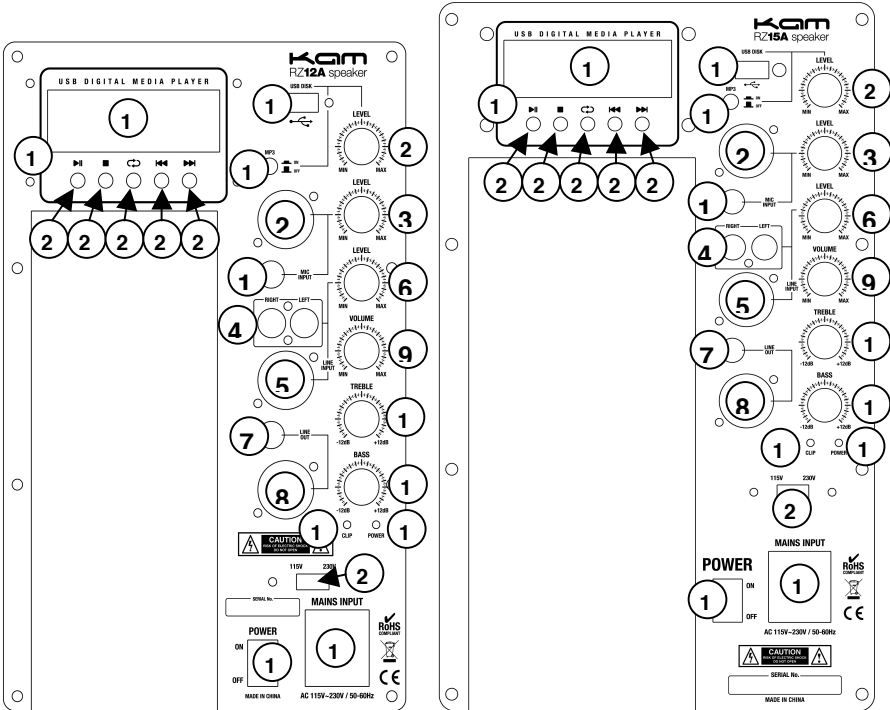
1. Connect your signal cable to the active speaker using one of the line in sockets (4) or (5).
2. Connect a lead from one of the line out sockets (7) or (8).
3. Connect this lead to the line in socket (4) or (5) of the next active speaker.

Please note you cannot connect a passive speaker to this output.

Features

1. Tough injection moulded cabinet
2. Active amplified speaker
3. USB input
4. Built in Mp3 player
5. Stylish trapezoidal design for pole mount, floor mount and horizontal foldback monitor placement
6. Linkable to other active speakers
7. Bass / treble adjustment
8. Line in / outputs


Rear panel



1. 6.35mm microphone (unbalanced) input
2. XLR microphone (balanced) input
3. Mic input level control
4. RCA phono (R&L) line inputs
5. XLR line input
6. Line input level control
7. 6.35mm line output (unbalanced)
8. XLR line output (balanced)
9. Master volume control
10. Treble control for high frequencies
11. Bass control for low frequencies
12. Clip LED indicator
13. Power LED indicator
14. Fused IEC mains inlet
15. Mains power switch v
16. USB input
17. Mp3 power switch
18. LCD screen
19. Mp3 player controls
20. USB input level control
21. Play/Pause
22. Stop
23. Repeat (single/all)
24. Previous track
25. Next track
26. Voltage selector switch 115/230v AC

Using Mp3 playback

The Mp3 player supports wma or Mp3 files

1. Insert USB stick
2. Turn on Mp3 player power (17)
3. Use the previous / next track buttons to select desired track
4. Press play button
5. Use the  button to select the repeat mode function. This will show in the LCD display.

Please note this is for a USB memory stick and will not read from mobile phone or hard drive devices. It will not charge USB devices.

RZ15A sub

The RZ 15a active sub is a bass enhancement speaker . This can be used to accompany your RZ active full range speakers.

Connecting the RZ15A sub to a mixer

1. Connect a cable either ¼ jack (6.35mm) or a balanced XLR lead to your mixer output.
2. Connect the other end of the leads to the audio input sockets on the RZ 15a sub (6 or 7).

Connecting the RZ15A sub to active full range speakers

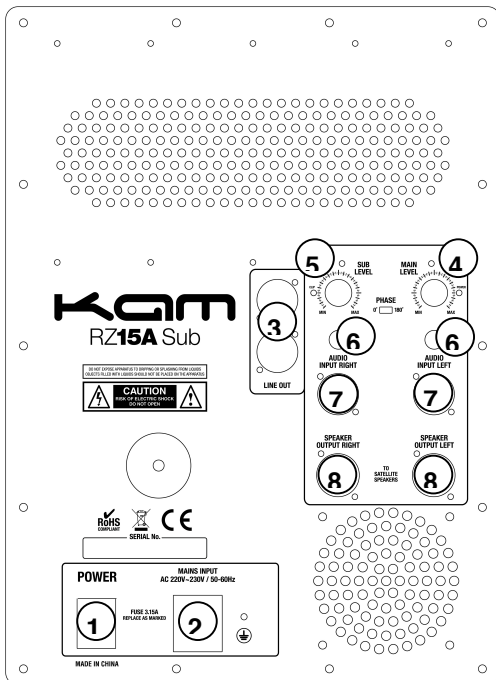
1. Follow the steps above to connect your mixer.
2. Connect a balanced XLR lead from the line output sockets (3) to the line input socket of the active speaker, one for the left and one for the right active speaker.

The RZ15A sub has a built in amplifier to run your passive satellite speakers.

Connecting the RZ15A sub to passive full range speakers

1. Follow the steps above to connect your mixer.
2. Connect a speakeron lead from the speaker output sockets (8) to the input socket of your passive speaker, one to the left passive and one to the right passive.
3. The RZ15A sub supplies 120w RMS per channel @ 4 Ohms to your full range passive speakers. Make sure your passive speakers are compatible with the wattage and ohmage of the built-in amplifier.

This output must not be connected to an active speaker as this will severely damage the unit and your amplifier.



1. Mains power switch
2. Mains IEC input
3. Balanced line output (link to active full range speaker)
4. Main satellite volume control
5. Sub level volume control
6. Line level input 6.35mm
7. Line level input balanced XLR
8. Left/ right speaker output (to passive speakers). **DO NOT** connect this output to an active speaker or amplifier.

Specifications

RZ12

200w RMS two way injection moulded passive PA speaker Power handling @ 8 Ohms:
200w continuous RMS | 400w program power | 800w peak power Nominal impedance: 8 Ohms
12 inch driver
50oz steel chassis
2.5 inch voice coil
34mm titanium diaphragm
13.5oz driver
Sensitivity: 98dB - 1w/1m
Frequency response: 50Hz-18kHz (-10dB)
Audio input connection: Speakeron
35mm pole mount
Dimensions (WxHxD): 410 x 580 x 320mm
Weight: 14Kg

RZ12A

200w RMS two way injection moulded active speaker with built-in USB Mp3 media player plus mic and line inputs
Power handling: 200w continuous RMS | 400w program power | 800w peak power
12 inch woofer
50oz steel chassis
2.5 inch voice coil
34mm titanium diaphragm
13.5oz driver
Sensitivity: 96dB - 1w/1m
Frequency response: 50Hz-18 kHz
Audio input connection: 6.35mm jack / XLR / RCA
Audio output/thru connections: 6.35mm jack / XLR 35mm pole mount
Power supply connection: IEC mains
Fuse rating: 5.0 amp Rated voltage: AC 115/230V / 50Hz-60Hz
Power consumption: 35w
Dimensions (WxHxD): 410 x 580 x 320mm
Weight: 17Kg

RZ15

250w RMS two way injection moulded passive PA speaker
Power handling @ 8 Ohms: 250w continuous RMS | 500w program power | 1000w peak power
Nominal impedance: 8 Ohms
15 inch woofer
60oz steel chassis
3 inch voice coil
44mm titanium diaphragm
20oz driver
Sensitivity: 98dB - 1w/1m
Frequency response: 50Hz-18 kHz (-10dB)
Audio input connection: Speakeron
35mm pole mount
Dimensions (WxHxD): 470 x 680 x 390mm
Weight: 20Kg

RZ15A

250w two way injection moulded active speaker with built-in USB Mp3 media player plus mic and line inputs

Power handling: 250w continuous RMS | 500w program power | 1000w peak power

15 inch woofer

60oz steel chassis

3 inch voice coil

44mm titanium diaphragm

20oz driver

Sensitivity: 96dB - 1w/1m

Frequency response: 45Hz-18 kHz

Audio input connection: 6.35mm jack / XLR / RCA

Audio output connection: 6.35mm jack / XLR

Audio thru: 6.35mm jack / XLR 35mm pole mount

Power supply connection: IEC mains

Fuse rating: 5.0 amp

Rated voltage: AC 115/230V / 50Hz-60Hz

Power consumption: 40w

Dimensions (WxHxD): 470 x 680 x 390mm

Weight: 24Kg

RZ15A SUB

640w RMS injection moulded active bass speaker Part of the RZ speaker series

Power handling to mid/high cabinets @ 4 Ohms:

2 x 120w continuous RMS

2 x 240w program power

2 x 480w peak power

Power handling bass sub @ 4 Ohms:

400w continuous RMS

800w program power

1600w peak power

15 inch woofer / 3 inch voice coil

Sensitivity: 98dB - 1w/1m

Frequency response: 40Hz-3.5 kHz

Audio input connection: XLR

Audio output connection: XLR

Audio thru: XLR / 6.35mm

35mm pole mount

Power supply connection: IEC mains

Fuse rating: 10.0 amp

Rated voltage: AC220-230V/50Hz-60Hz

Power consumption: 100w

Dimensions (WxHxD): 685 x 620 x 550mm

Weight: 36Kg