Kam

INSTRUCTION MANUAL

RZ Portable PA-BT
Portable PA systems with built-in wireless technology

MANUAL VERSION 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 instruction manual updates and information on the entire Kam range visit:

www.kam.co.uk

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.

The unit is powered by mains electricity, 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 periodicaly, 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 41ºF / 5ºC or exceeding 95ºF / 35ºC).

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),** and **Battery Directive (2006/66/EU).** If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal. Any supplied batteries can also be recycled.

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@lambaplc.com

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

Safety and warnings
Do overload the audio as this may result in damage to the speakers. Only connect to an earthed mains supply. When not in use, unplug the unit from the mains. Always unplug from the mains prior to checking or replacing a fuse. During a thunder and lightening storm, always unplug the unit from the mains. If the unit has not been used for a long period of time, condensation can occur inside the housing. Always let unit reach room temperature prior to use.

When mounting the unit on a stand, observe health and safety advice to ensure that you do not injure yourself or others.

Please note that when using the unit powered by the built-in battery, the media player screen may flicker if the battery voltage is low. If this occurs, please turn off the portable PA and charge the battery via the mains.

If you do not use the unit frequently, please charge the unit every three months to keep the battery in good condition. Always turn the unit off after you have finished charging.

Making connections to your portable PA

Always ensure that volume controls on your PA are turned to zero and that its power is switched OFF when making connections. Use appropriate cables.

Please read the rest of this manual before turning on the power or adjusting the volume controls.
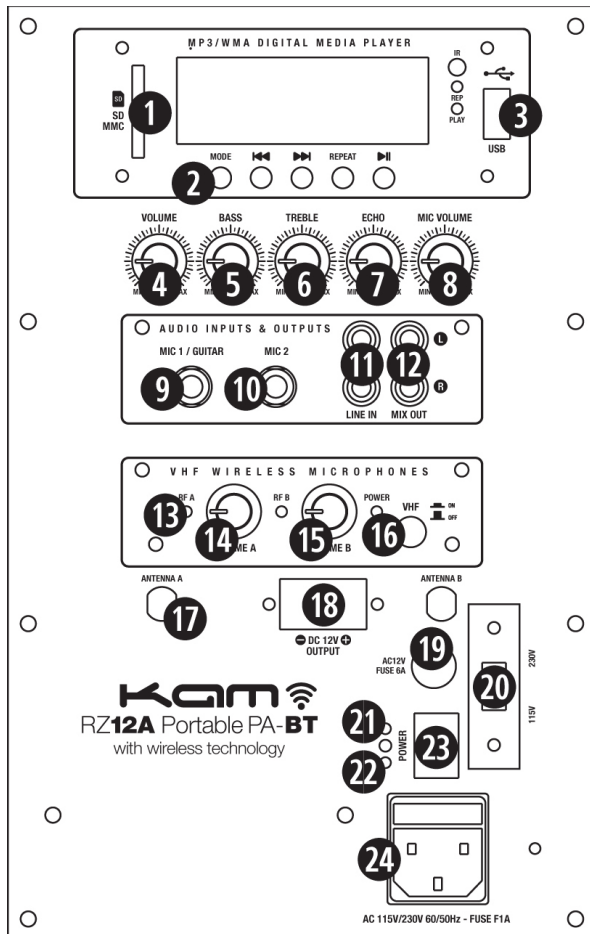
Connecting via Bluetooth

To connect your Bluetooth enabled smartphone or MP3 player, ensure that your audio device and your portable PA are both switched on and that Bluetooth is running on your device.

On the portable PA, press the **Mode** button on your media player until you see the words '**Bluetooth NOLINK**'. The Portable PA is now available for Bluetooth connection (discoverable). In the Bluetooth settings of your audio device, search for the Portable PA in the list of available devices. The first time you click on the PA in the list you will be asked for a password. Enter 0000 into your device and you should now be connected via Bluetooth to the Portable PA. Play some music on your audio device and adjust the volume on the PA until you hear the signal. Congratulations you are now connected via Bluetooth!
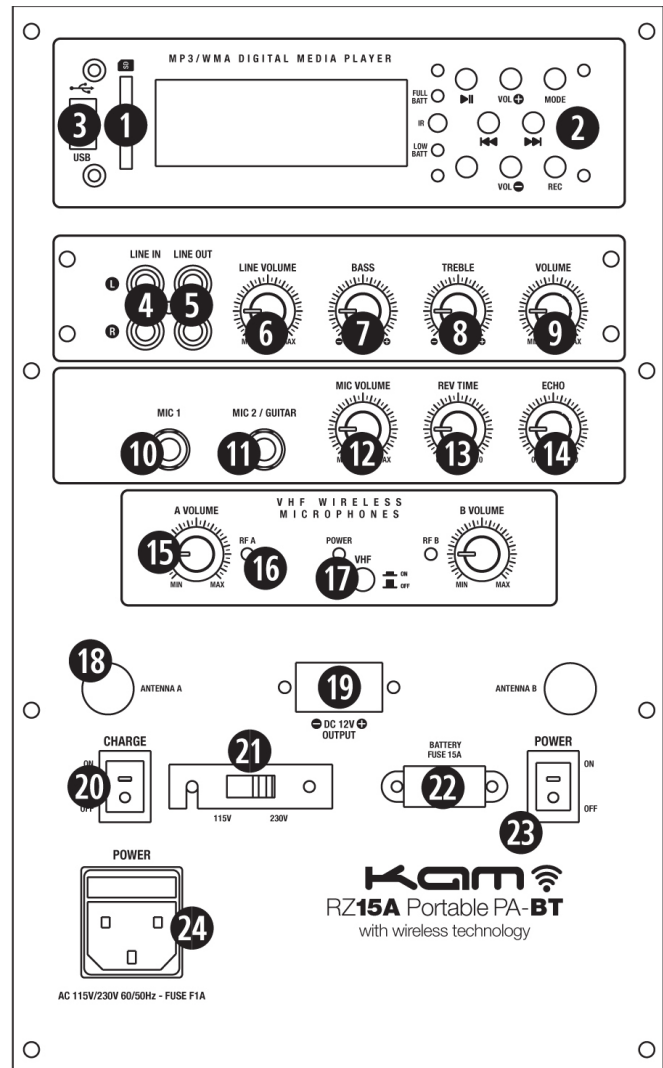
On most Bluetooth enabled phones and MP3 players after you have paired the device once with the PA, your device will 'remember' the PA and connect whenever the PA is discoverable (see above).

The default password for the PA is: **0000**

Functions

Kam RZ12A Portable PA-BT
rear panel

Kam RZ15A Portable PA-BT
rear panel

Kam RZ12A Portable PA-BT
1. SD/MMC card input
2. Media player control
3. USB input (memory stick)
4. Master output volume control
5. Bass EQ adjustment
6. Treble EQ adjustment
7. Echo control
8. Microphone volume control
9. Mic 1 / guitar - 6.3mm jack input
10. Mic 2 - 6.3mm jack input
11. RCA phono line inputs
12. RCA phono line outputs
13. Wireless mic signal indicator LEDs
14. Wireless mic channel A volume control
15. Wireless mic channel B volume control
16. VHF wireless system on/off power button
17. Antenna for VHF wireless system
18. 12 volt DC output connection
19. Fuse socket
20. 110/220V switch
21. Battery charging indicator LED
22. Power indicator LED
23. Mains power switch
24. IEC mains power input

Kam RZ15A Portable PA-BT
1. SD/MMC card input
2. Media player control
3. USB input (memory stick)
4. RCA phono line inputs
5. RCA phono line outputs
6. Audio line input volume control
7. Bass EQ adjustment
8. Treble EQ adjustment
9. Master output volume control
10. Mic 1 - 6.3mm jack input
11. Mic 2 / guitar - 6.3mm jack input
12. Microphone output volume control
13. Microphone echo/reverb adjustment control
14. Microphone echol control
15. Wireless mic volume controls
16. Wireless mic signal indicator LEDs
17. VHF wireless system on/off power button
18. Antenna for VHF wireless system
19. 12 volt DC output connection
20. Battery charger on/off button
21. 110/220V switch
22. Fuse socket
23. Mains power switch
24. IEC mains power input

Connection and operation

The unit may arrive with the internal battery already charged. Before connection to the mains, switch the unit On and see if the **Power LED indicator** lights up. If it doesn't you will need to charge the battery before you can use the unit without it being attached to the mains (see **How to charge the battery** below). Always use an appropriate IEC mains lead (supplied).

How to charge the battery

Kam RZ12A Portable PA-BT If the unit is connected to the mains but not in use and the power switch is in the Off position, the internal battery will be re-charged from the mains supply. This is shown as the **Battery charging indicator LED** will be lit when charging. When fully charged, the light will go out.

Kam RZ15A Portable PA-BT The unit's battery indicatators are at the top of the unit next to the media player. There you will see a **Full Batt**(ery) LED indicator and a **Low Batt**(ery) LED indicator. When the unit needs to be charged, connect it to the mains, turn the power on and ensure that the **Battery charger on/off button** is turned to On.

Before operation ensure that the volume controls, the echo controls and the mic volume controls are all turned fully anti-clockwise. The unit is now ready to use.

VHF wireless system

Insert the batteries into the handheld microphone (ensure that the terminals of the batteries match to the mics to observe the correct polarity). With the **Wireless mic volume controls** turned down, press the **VHF wireless system on/off power button** so that is in the On position. The wireless system LED indicator should light up. Switch on each wireless mic in turn – the RF LEDs should light as a result (if the LED on the transmitter lights dimly, change the battery).

Gently increase the wireless mic volume controls, testing each microphone in turn for output through the speaker. Take care not to incur "feedback" (a screeching sound that is heard through the speaker) by keeping the microphone at a sensible distance from the speaker and pointing it away from the speaker. To add some echo to the mics, adjust the echo controls. To add or subtract bass and treble from the sound, use the Bass and Treble EQ adjustment controls.

If you are not using the microphones, switch the mics off and turn the unit's VHF wireless power to the off postion to save battery life.

External audio inputs

The units come supplied with external inputs as well as the built-in wireless. 6.3mm jack inputs are provided to connect external wired or wireless microphones, which are both controlled using the **Microphone volume controls.**

Stereo RCA phono line inputs are also included on the unit. These can be used to attach line input audio sources such as CD players or MP3 players (e.g. iPods or smartphones).

External audio output
Stereo RCA phono line outputs are also included on the unit and these will supply an overall mixed output.

Digital media player
The units come with a built-in digital media player. These are straight forward media players that will play from units attached to either of the built-in USB or SD card sockets. There is also a built-in FM radio.

Kam RZ12A Portable PA-BT media player
Choose the mode and then use the controls as follows.
I◄◄	Previous song / Radio frequency
►►I	Next song / Radio frequency
REPEAT	Repeat all / Random / Repeat one
►II	Play / Pause / Scan

Kam RZ15A Portable PA-BT media player
Choose the mode and then use the controls as follows.
I◄◄	Previous song / Radio frequency
►►I	Next song / Radio frequency
REPEAT	Repeat all / Random / Repeat one
►II	Play / Pause / Scan
VOL+	Increases the volume of the current track
VOL-	Decreases the volume of the current track

Remote control
In addition to the Digital Media Player controls, an infra-red remote control is provided for the USB/SD player which adds some further functions to allow greater control over the media player. To operate, remove the clear plastic tab from the remote to activate the battery.

RZ12A Portable PA-BT technical specifications

Description	Active 2-way, full range active portable PA speaker
Power supply	AC 115V/230V 60/50Hz
Mains fuse	F1A
Tweeter	1 inch
Woofer	12 inch
Power	200w
Impedance	4 Ohm
Frequency range	55Hz-18KHz
Sensitivity	93dB (+/- 2dB)
Connection	6.3mm jack / RCA line phono
Mic input level	≤ 15mV
Line in/out level	≥ 250mV

RZ15A Portable PA-BT technical specifications

Description	Active 2-way, full range active portable PA speaker
Power supply	AC 115V/230V 60/50Hz
Mains fuse	F1A
Tweeter	1.34 inch
Woofer	15 inch
Power	250w
Impedance	4 Ohm
Frequency range	75Hz-18KHz
Sensitivity	96dB (+/- 2dB)
Connection	6.3mm jack / RCA line phono
Mic input level	≤ 15mV
Line in/out level	≥ 250mV