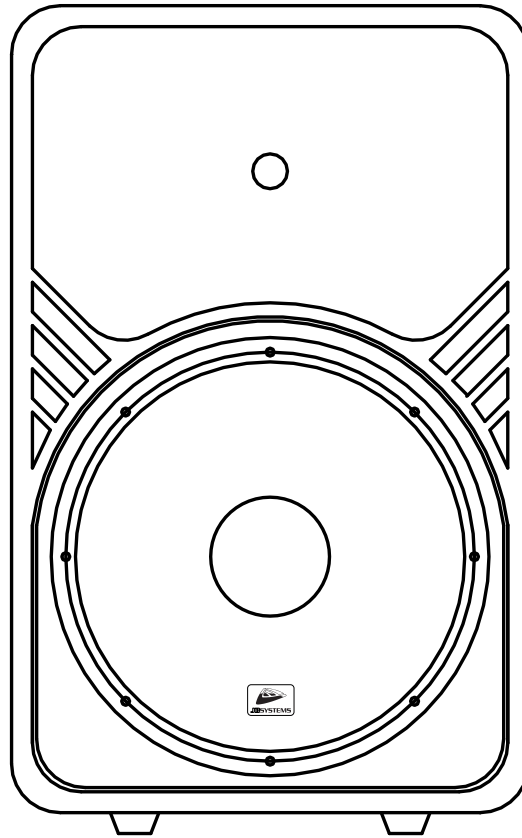
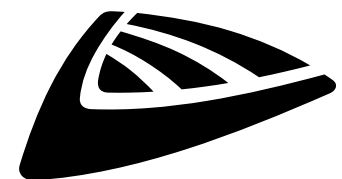


PPA-122



ENGLISH Operation Manual

Other languages can be downloaded from:
WWW.JB-SYSTEMS.EU



Version: 1.0

JB SYSTEMS

OPERATION MANUAL

Thank you for buying this JB Systems® product. To take full advantage of all possibilities, please read these operating instructions very carefully.

FEATURES

- A powerful portable PA-speaker with internal MP3-player (also plays WMA) + FM-radio + Bluetooth™.
- The MP3-player accepts both USB-sticks and SD-HC memory cards up to 64GB
- The FM-radio has an internal antenna (no broken antennas) and automatic station preset programming
- Powerful 250Wrms amplifier (500W music)
- In addition to the internal player, you can also connect:
 - 2 MIC inputs (bal + unbalanced)
 - 1 LINE input (bal + unbalanced)
 - 1 Stereo Mini Jack (only available when the internal player is not used)
- LINE OUT (balanced) to connect extra speakers
- Treble / bass tone controls
- Heavy duty Polypropylene cabinet housing
- Built-in heavy duty carrying handle
- Built-in 35mm stand adapter
- Built-in Rigging points
- High power 12" Woofer
- High power 1.35" Compression Driver

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.
- To protect the environment, please try to recycle the packing material as much as possible.

Check the contents:

Check that the carton contains the following items:

- User manual
- PPA-122
- IR remote

SAFETY INSTRUCTIONS:



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not open. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions



This speaker can easily reproduce sound pressure levels (SPL) sufficient enough to cause severe and permanent hearing damage. Always protect your ears when you are exposed for a longer period to SPL in excess of 85dB!

- Even if the speaker cabinet is made of water resistant material, the woofer and tweeter are not protected against humid and rain. Therefore this speaker is intended for indoor use only, use of this product outdoors, in humid conditions, voids all warranties.
- Always mount this speaker in safe and stable matter.
- Take special care when the cabinets are suspended. This is potentially dangerous and should only be carried out by technicians who have knowledge of the techniques and regulations of rigging speakers!
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- Don't place metal objects or spill liquid inside the unit. No objects filled with liquids, such as vases, shall be placed on this appliance. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- No naked flame sources, such as lighted candles, should be placed on the appliance.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Always unplug the unit when it is not used for a longer time or before you start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The socket inlet shall remain operable for disconnection from the mains.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- When the power switch is in OFF position, this unit is not completely disconnected from the mains!
- This appliance must be earthed to in order comply with safety regulations.
- In order to prevent electric shock, do not open. There are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the appliance and contact your dealer immediately.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

FUNCTIONS

1. **USB-input:** here you can connect a USB-stick. As soon as the memory device is inserted, the display shows "-- USB --", followed by the total number of songs detected.

Important note: the USB-memory should be formatted in FAT16 or FAT32. If a new USB-stick is not detected, please format it first using a Windows PC.

2. **SD-CARD input:** here you can insert an SD or SDHC-card. Insert the card gently with the upper side (printed side) facing to the left. As soon as the memory device is inserted, the display shows "-- SD --", followed by the total number of songs detected.

Important note: the SD-card should be formatted in FAT16 or FAT32. If a new SD-card is not detected, please format it first using a Windows PC.

3. **LCD DISPLAY:** shows valuable information about the played music or radio stations.

4. **PLAY/PAUSE button:**
Player operation:
 • **Press shortly:** to start/pause the current audio track.
 • **Press longer:** to enter folder select, use buttons (7) and (8) to browse the folders.

Radio mode:
 • **Press shortly:** tuner scans the FM-band and programs the FM-preset stations automatically.

5. **SOURCE button:** press this button to toggle between MP3-player, FM-tuner (radio), Bluetooth™ or LINE IN (21).

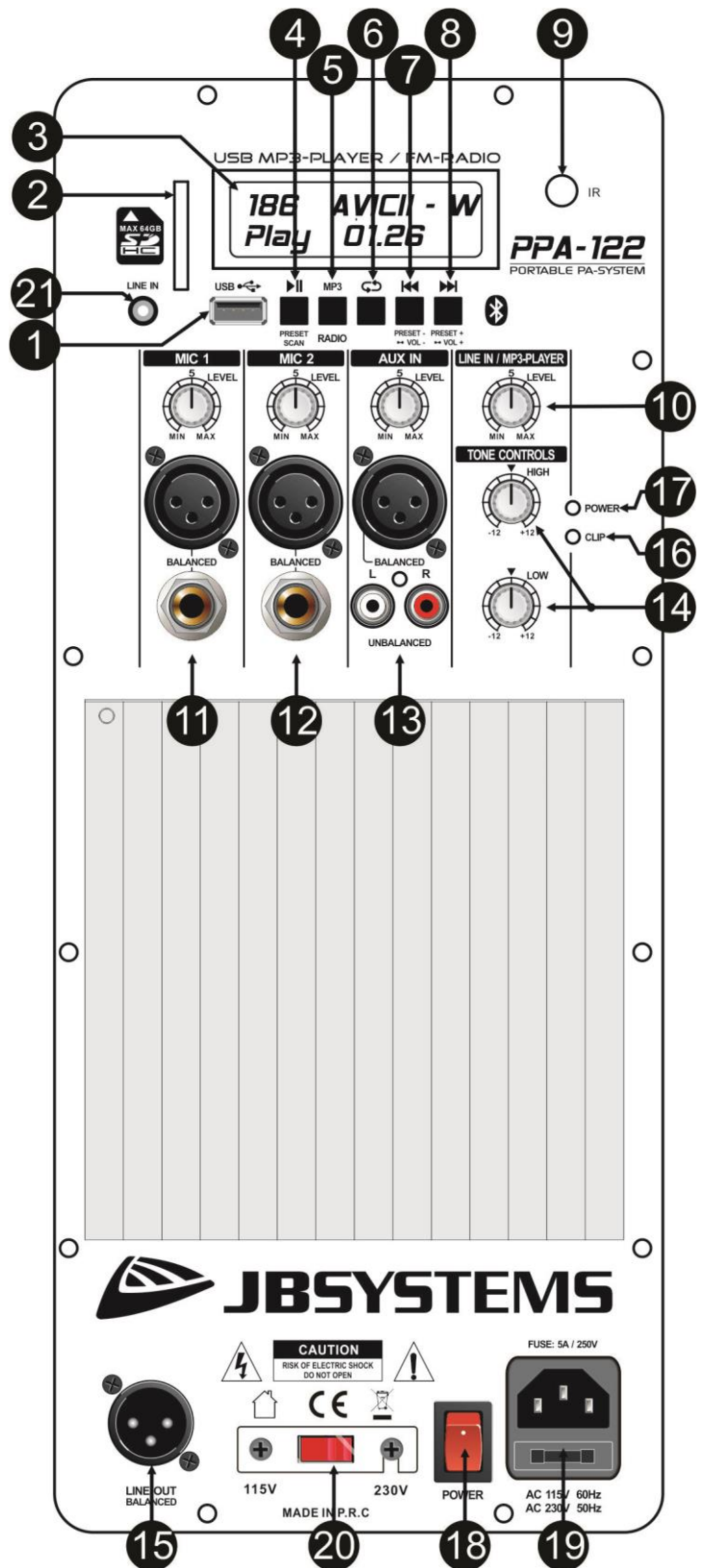
6. **RANDOM button:** press this button to choose one of the different random modes:
 • **REPEAT ONE:** repeat the current track.
 • **REPEAT FOLDER:** repeat current folder.
 • **REPEAT ALL:** repeat all tracks on the USB-memory. This is the "standard" playback mode.
 • **REPEAT RANDOM:** play all tracks in random order.

7. **PREVIOUS TRACK button:**
Player operation:
 • **Press shortly:**
 • **Normal playback:** select previous track.
 • **Folder select:** (see: 4): select previous folder.

• **Press longer:** reduce the volume of player. Standard the volume is set to maximum: we advice to keep it at maximum and use the rotary knob (10) to change the volume.

Radio mode:
 • **Press shortly:** select the previous preset.
 • **Press longer:** reduce the volume of player. Standard the volume is set to maximum: we advice to keep it at maximum and use the rotary knob (10) to change the volume.

8. **NEXT TRACK button:**
Player operation:



- **Press shortly:**
 - **Normal playback:** select next track.
 - **Folder select:** (see: 4): select next folder.
- **Press longer:** increase the volume of player. Standard the volume is set to maximum: we advice to keep it at maximum and use the rotary knob (10) to change the volume.

Radio mode:

- **Press shortly:** select the next preset.
- **Press longer:** increase the volume of player. Standard the volume is set to maximum: we advice to keep it at maximum and use the rotary knob (10) to change the volume.

9. **IR-RECEIVER:** receives IR-signals from the remote control.

Important note for numbers 10+11+12+13: To prevent damage to the speakers of your speaker cabinet, please set all input levels **always** to zero **before** you switch the device on or connect a microphone / audio source. After this you can turn the level up to the desired level.

10. **LINE IN / MP3-PLAYER VOLUME:** used to adjust the volume of the internal player or the stereo mini jack input (21).
11. **MIC 1 INPUT + VOLUME:** This input accepts both balanced and unbalanced microphones. You can use both ¼"jack and male 3pin-XLR connectors. First always set the volume knob to zero, after that turn it slowly up to the desired level.
12. **MIC 2 INPUT + VOLUME:** same functionality as MIC 1, see: (11).
13. **AUX INPUT + VOLUME:** This input accepts both balanced (3pin-XLR) and unbalanced (RCA, cinch) line level audio signals like for example: CD-player, tuner, MP3-player, ... First always set the volume knob to zero, after that turn it slowly up to the desired level.
14. **TONE CONTROLS:** Used to adjust the treble and bass of the master signal.
15. **LINE OUTPUT:** This balanced output (3pin-XLR) makes it possible to connect several speaker cabinets together, the line output is NOT influenced by the settings of the tone controls (14).
16. **CLIP LED:** is lit when the amplifier is clipping (close to distortion). You are working on the limits of the amplifier, please turn the volume a little down.
17. **POWER LED:** indicates that the amplifier is switched on.
18. **POWER SWITCH:** Used to switch the internal amplifier on/off. The Power led (17) is lit while the cabinet is switched on.
19. **MAINS INPUT:** Mains input with IEC socket and integrated fuse holder, connect the supplied mains cable here.
20. **VOLTAGE SELECTOR:** used to select the mains input voltage, 115Vac or 230Vac. Check this switch BEFORE you connect the unit to the mains.
21. **LINE INPUT:** stereo mini jack input that can be used to connect external audio devices like a smartphone, tablet, computer, etc. To be able to use this input you need to select source source in the menu of the player via button (5) .

THE USE OF BLUETOOTH™:

Connect your smartphone via Bluetooth to stream music from your phone to the PPA-122:

- Switch on the PPA-122
- Scan the available Bluetooth units with your smartphone.
- The unit can be found under the name BLUETOOTH.
- Make the connection and wait till you phone is connected to the PPA-122
- When the connection is OK, [CONNECTED] will also appear on the screen of the PPA-122

Important: if you had already Bluetooth in the memory of your phone (used previously with another device), then first delete this unit from your list and scan again.

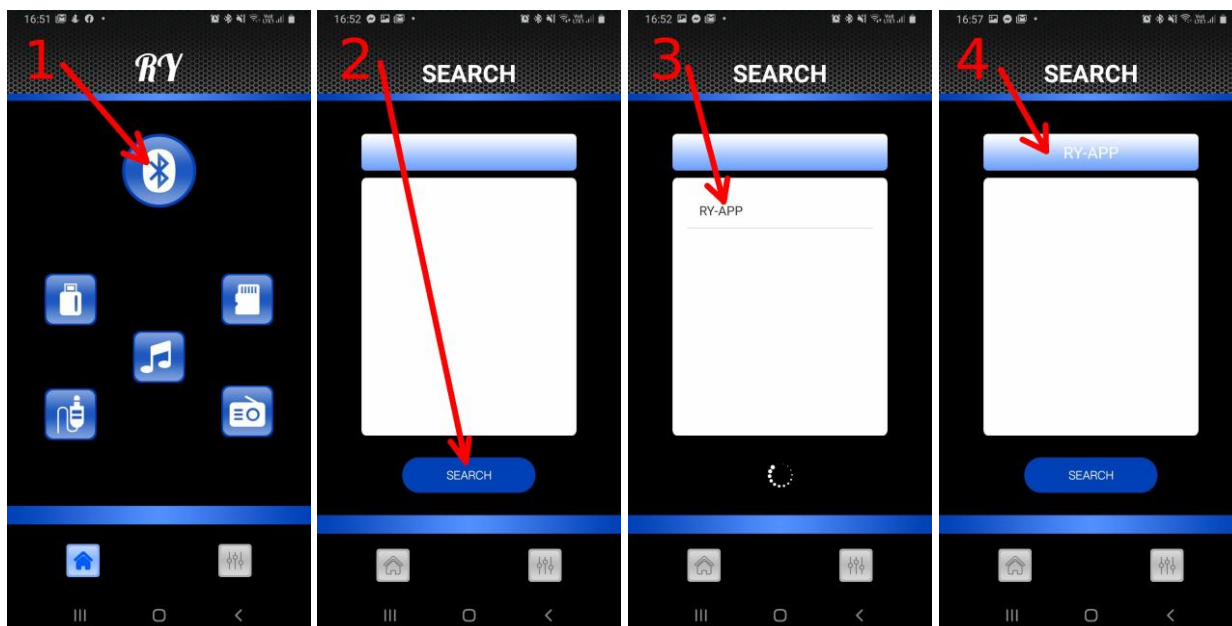
iOS & Android app for remote settings

if you would like to control several settings of the PPA-122 media player with your smartphone, you can download the app: **RY-Speaker-APP**

- Android app: <https://play.google.com/store/apps/details?id=com.sancochip.ry>
- iOS app : <https://apps.apple.com/nl/app/ry-speaker/id1439987938>

IMPORTANT: first connect your smartphone via Bluetooth to the PPA-122 as mentioned above before to start the app. If you don't respect this order, some functions of the app might not work and streaming music to the PPA-122 is impossible !

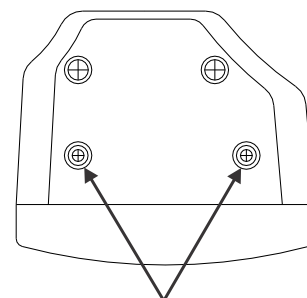
Once the Bluetooth connection is OK, test if the transmission is working properly. Just play some music on your smartphone to check if the sound comes out of the PPA-122. Once this is ok, you can start up the app.



1. Press the Bluetooth button
2. The [SEARCH] window opens. → press the blue [SEARCH] button
3. When [RY-APP] appears on the screen, press on this [RY-APP] bar
4. Once the connection is made, [RY-APP] will appear in the light blue bar. This means the connection is set. You can now control the media player of the PPA-122 via your smartphone.

RIGGING

- **Important:** The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- The cabinet should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the cabinet's weight.
- Always use a certified safety cable that can hold 12 times the weight of the cabinet while installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The cabinet should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.
- The cabinet has 4 rigging points using M8 inserts. These can be used to suspend (fly) the cabinet in the air. For this purpose you can use heavy duty eyebolts with metric M8 thread. In most cases 2 cables will be attached to the top and one is used to pull up the back.
- Anyway always take special care when the cabinets are suspended. This is potentially dangerous and should only be carried out by technicians who have perfect knowledge of the techniques and regulations of rigging speakers!



2 RIGGING POINTS M8 ON TOP AND BOTTOM

SPECIFICATIONS

This unit is radio-interference suppressed. This appliance meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

PLAYER

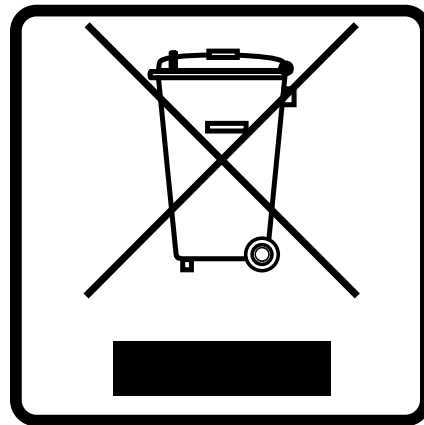
USB-memory:	<64GB – formatted FAT16 / FAT32
SD-card:	SD + SDHC <64GB – formatted FAT16 / FAT32
Accepted audio files:	WMA, MP3 (different sample rates, up to 320kbps)
FM Radio freq range:	87,5 to 108MHz
IR-Remote replacement battery:	CR2025 3V battery (included)

AMPLIFIER

Amplifier Power	250Wrms
Freq. Resp. (+/-3dB)	45 – 20.000Hz
THD (1kHz / 1W)	0,12%
Input Sensitivity line	1V
Input Sensitivity micro	15mV
Input impedance	20kohm
S/R ratio (mic off)	>85dB
EQ low	+/-12dB @ 100Hz
EQ high	+/-12dB @ 10kHz
Cooling	natural air cooling
Microphone input	Bal/unbal XLR/Jack
Line input	Bal/unbal XLR 3pin
Line output	Bal/unbal XLR 3pin
Fuse (5x20mm)	F5A / 250V
Power supply	115Vac/60Hz 230Vac/50Hz
Dimensions HxWxD	580 x 372 x 315 mm
Weight	15 kg

Every information is subject to change without prior notice

You can download the latest version of this user manual on our website: www.jb-systems.eu



DISPOSAL OF THE DEVICE

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.



JBSYSTEMS

MAILING LIST

EN: Subscribe today to our mailing list for the latest product news!

FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!

NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!

DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!

ES: Suscríbete hoy a nuestra lista de correo para recibir las últimas noticias!

PT: Inscreva-se hoje na nossa mailing list para estar a par das últimas notícias!

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