



# PA920 PowerPro Portable PA

## Owner's Manual







# PowerPro<sup>TM</sup> PA920 Owner's Manual

Thank you for purchasing this PowerPro PA, the most versatile and appropriate portable PA for use in school, business, houses of worship and government facilities.

We encourage you to visit our website to register your PA for its warranty coverage at [califone.com/registration](http://califone.com/registration), and while there please sign up to receive our newsletter, and learn more about the complete line of Califone audio visual products including: Portable and installed wireless PA systems, multi-media players & recorders, headphones and headsets, computer peripheral equipment, visual presentation products and language learning materials.

## Unpacking

Check carefully for damage which may have taken place during transit. Report any damage claim directly to the freight carrier immediately. Save product(s) and packaging for inspection by the carrier's claim agent. Notify your dealer of the pending claim.

## Warranty Registration

Please register for your 6-year limited warranty online at [www.califone.com/registration](http://www.califone.com/registration) to activate.

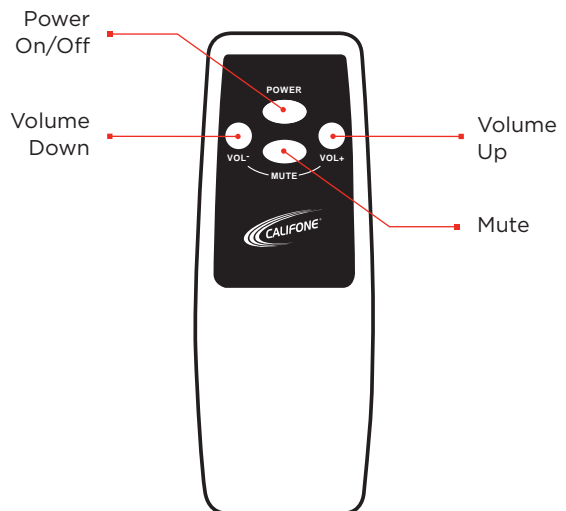
## Service Repairs

Should your unit require repair contact the dealer or Califone Service Department at: (800) 722-0500 to obtain a Return Authorization (RA) number. After receiving the RA from Califone then ship the unit to Califone prepaid, writing the RA visibly on the outside of the box.

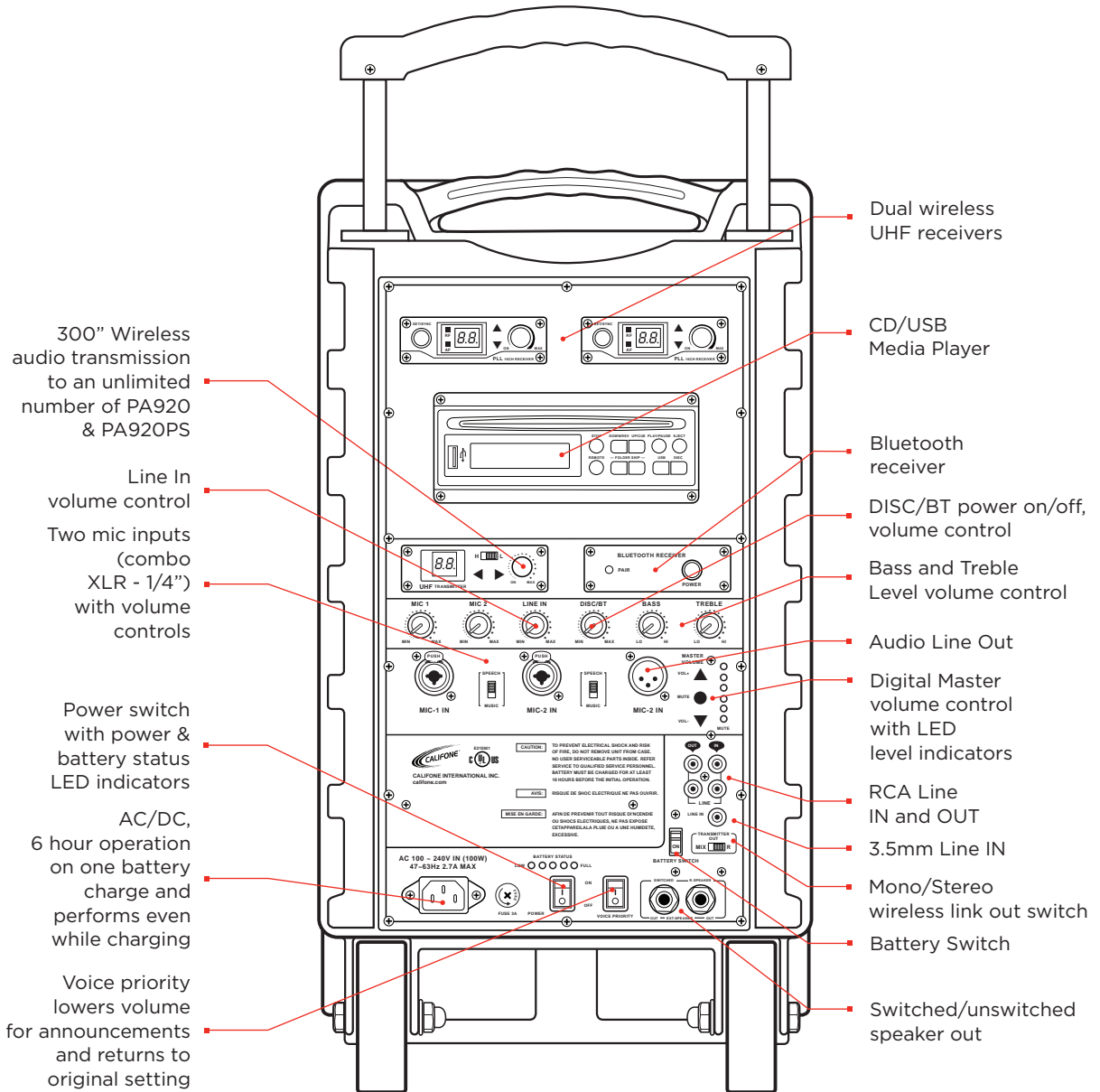
## Contents

- a) PowerPro PA920
- b) Power Cord
- c) Operation Manual
- d) Master Volume Remote Control
- e) CD Remote Control

## Master Volume Remote Control



# PowerPro™ PA920 Features



Califone® wireless PA systems deliver professional quality sound in a variety of presentation settings. Since they're simple to set up and operate, you won't need an audio expert. Whether it's a large meeting of parents, an all-school spirit rally or a guest lecturer transmitting wireless audio from a laptop, you'll have clear audio so everyone can listen and participate!

# Operation

## Battery

Charge the battery for at least 10 hours before the first use of the PA920, or the PA920PS. Simply plug the power cord into an AC outlet and set the battery switch to the ON position. The charging indicator will flash until fully charged, then it will stay green. The unit can be used while it is plugged in for charging.



BATTERY SWITCH

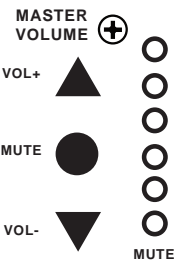


There are LED indicators above the main power switch to show AC Power and Battery Status. When the unit is turned on, the one on the left will light “red” when the battery has a low charge. the ones on the right will glow “green” to show partial charge, full charge or if operating on A/C power.

It is recommended that the battery be recharged after several hours of usage, rather than stored with a low battery. This will prolong battery life. Storing more than 30 days without recharging will deteriorate the battery.

## Digital Master Volume Control

When the main power switch is turned on, the Digital Master Volume Control is at the lowest level to prevent accidental damage to the amplifier or internal speakers. The volume can be controlled in two ways; using the “Up” “Down” buttons on the mixer panel or using the infrared Master Volume remote control. The Master volume control has 5 green LED indicators to show the Master volume level and a one red LED for speaker mute. When Mute is turned ON the red LED will lit and the green LEDs will turn off. While on Mute, all sound will cut off to all speakers except to the ones connected wirelessly. The Master volume remote control must be used in front of the speaker as the sensor is behind the speaker grille.



## Recommended Set-up Procedure

Ideally the master volume should be at maximum volume before any component volume is adjusted to the desired loudness. Since there are always at least two volume controls to contend with, it is suggested that prior to turning the power on for the component to be used, its volume control should be set at “10 o’clock” first.

## CD/USB Media Player

The main power switch does not control the CD/USB media player. A separate power switch is combined with the DISC/BT volume control to limit battery drain when the CD/USB Media player is not being used.

## Power management

Battery power consumption can be maximized by turning the power off on the sections not being used. Wireless receivers, CD/USB, wireless transmitter and BlueTooth modules have their own individual power control.

## **Operation continued**

### **Wired Microphones**

There are two (2) independent combination XLR/1/4" jacks for using microphones with cords. Each jack has a volume control, MIC 1 and MIC 2 which control the loudness of the wired microphones. Also each has a "Voice/Music" switch. On "music" program the sound is full fidelity, while on "voice" the sound is tailored to give maximum projection while limiting battery drain.

### **Line In**

Insert both RCA plugs into the RCA jacks when using a stereo input. The left and right channels are combined so no program material is lost. If the source is monaural, either RCA jack can be used. There is also a 3.5mm LINE IN jack available. The Line In volume control knob is used to increase or decrease the level of the input signal.

### **Line Out**

The two RCA jacks are used to connect to the input of another piece of equipment such as a tape recorder, mixer or another amplified speaker. The outputs are monaural and volume level will depend on the volume of the source. For example, the CD/USB media player level is controlled by the DISC/TB volume control. Line out is independent of the Master Volume Control.

### **Tone Controls**

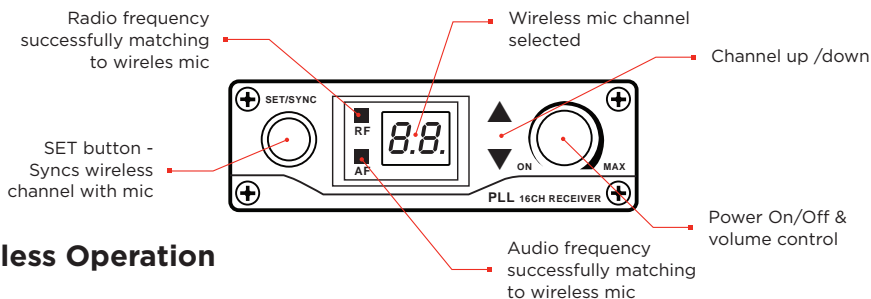
The separate base and treble controls provide a wide range of adjustment for increasing or decreasing either the bass or treble from "flat" frequency response. The center or "12 o'clock" position is flat.

### **Voice Priority**

This feature is used for voice override of the music program when using a microphone. The "ducking" circuit attenuates the music when a person speaks into the microphone. After a 3 second delay in the speech, the music returns to the previous level.

### **Speaker out**

Two 1/4" phone jacks for Switched and unswitched speaker output signals to connect to external speakers. Switched output disengages main speaker, unswitched output divides output between main speaker and passive speaker.



## Wireless Operation

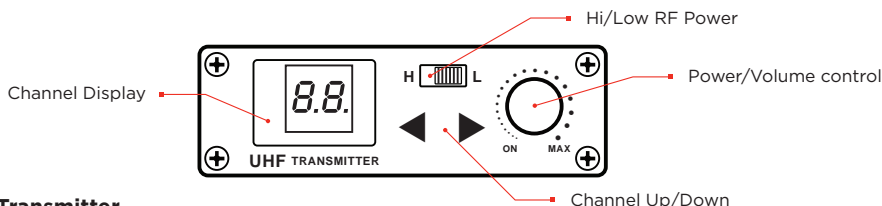
### Wireless UHF Receivers

Wireless receivers should be set each at different channels, these channels must be different than the wireless transmitter channel. There are two (2) LEDs on the receiver; RF reception (blue) and Audio reception (amber). There are also LEDs on the front of the speaker above the grille making it easy to see if the micro-phone and receiver are working properly. A red LED indicates RF (radio frequency) from the mic, while an amber LED indicates audio.

### Selecting a Wireless Channel

Turn the Receiver Power ON, Hold down the Set button until the display starts blinking, next, use the Up and Down buttons to select the desired channel, lastly depress the Set button to save it.

**NOTE:** There are two wireless 900MHz mic receivers on the PA920.



### Wireless Transmitter

The PowerPro PA920 incorporates a 16 channel UHF transmitter with its own power switch for wireless transmission to another PA920 or the Powered Companion Speaker PA920PS. If using the transmitter function select a different channel than the ones assigned to the receivers to prevent the transmitter from blocking the mics or connecting with the receivers.

The RF power output can be adjusted between Low (5mW) and High (10mW) power settings, depending on the level of interference or the range of required transmission. When there may be other PA products used in neighboring or adjoining rooms, using the low setting will reduce the occurrence of experiencing any interference. With the Power OFF, simply change the RF transmit power by moving the switch to the desired setting.

Turn the transmitter power switch to OFF when not being used to minimize battery drain.

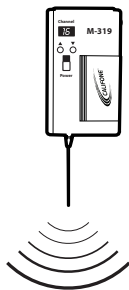
### Feedback

Feedback is a shrill screeching sound produced by the speaker system when a microphone is being used too close to the front of the speaker. The microphone picks up the sound of the speaker system and it becomes reamplified. It is a self-sustaining loop which can damage the system if allowed to continue, not to mention the annoyance caused to persons nearby. Always stand 4 to 6 feet from the speaker to minimize the opportunity for feedback from the speaker system.



### M319

Wireless Transmitter



### PA920

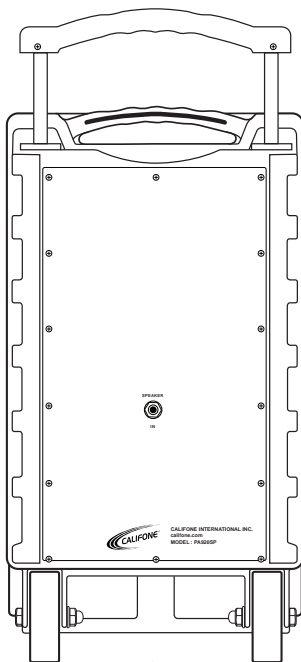
PowerPro™

2 - 16 Channel Receivers  
1 - Transmitter  
Bluetooth Media Input  
2 - XLR & 1/4" Mic Jacks  
CD Player  
USB Media Player



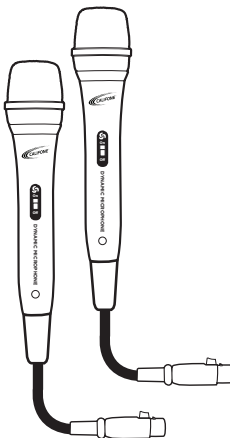
Connect to  
Bluetooth enabled  
smartphone  
& media players

Non-powered  
Companion Speaker



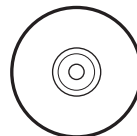
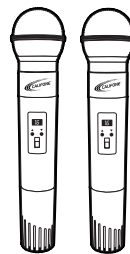
### PADM515/510

Dynamic Microphones



### Q319

Wireless Mics

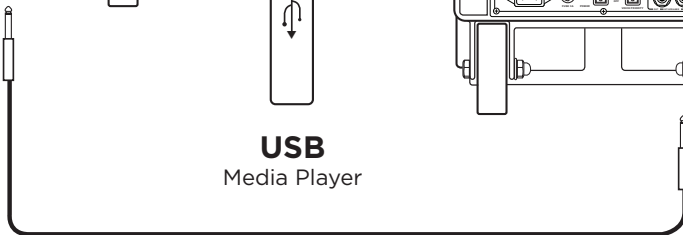
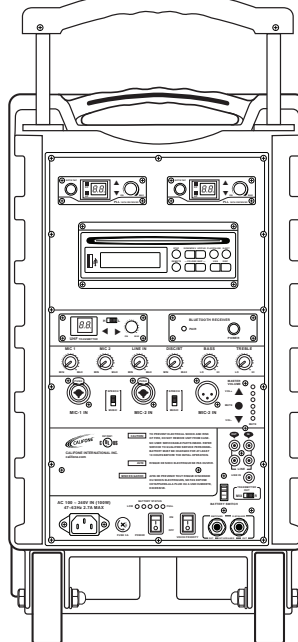


### CD

Player

### USB

Media Player

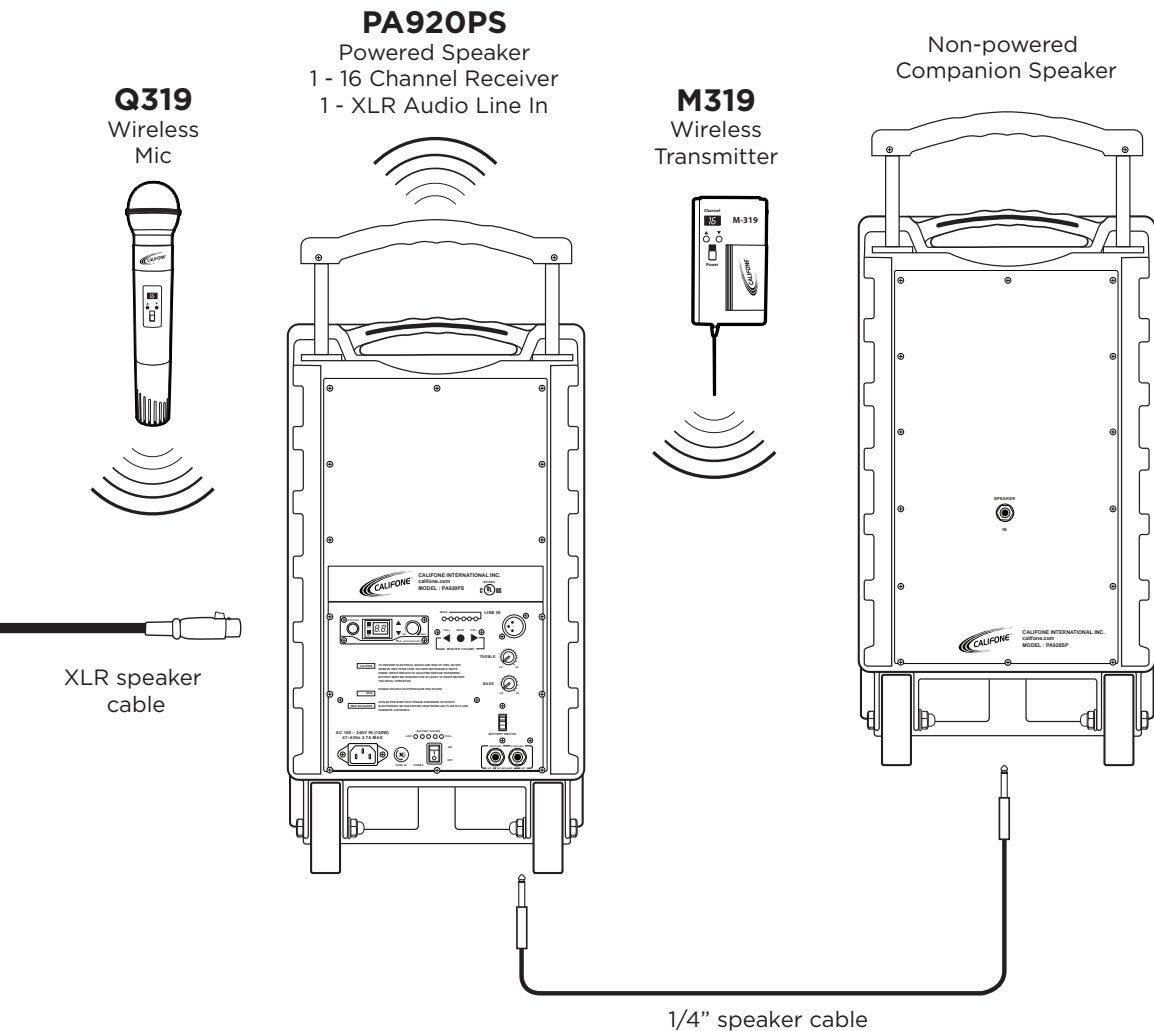


1/4" speaker cable



# PowerPro™ Product Family Operation Diagram

The PowerPro™ Series is compatible with other wireless Califone presentation systems providing great flexibility to adjust to any demand. The PA920 connects wirelessly in stereo to the PA920PS or via cable, both systems work with wireless microphones M319 and Q319. The Non-Powered Speaker can be connected to either unit via cable.



# 900 MHz Microphone & Beltpack Transmitter

The M319 and Q319 are designed to work with the PA920 series PAs.

## M319 Wireless Belt Pack Transmitter



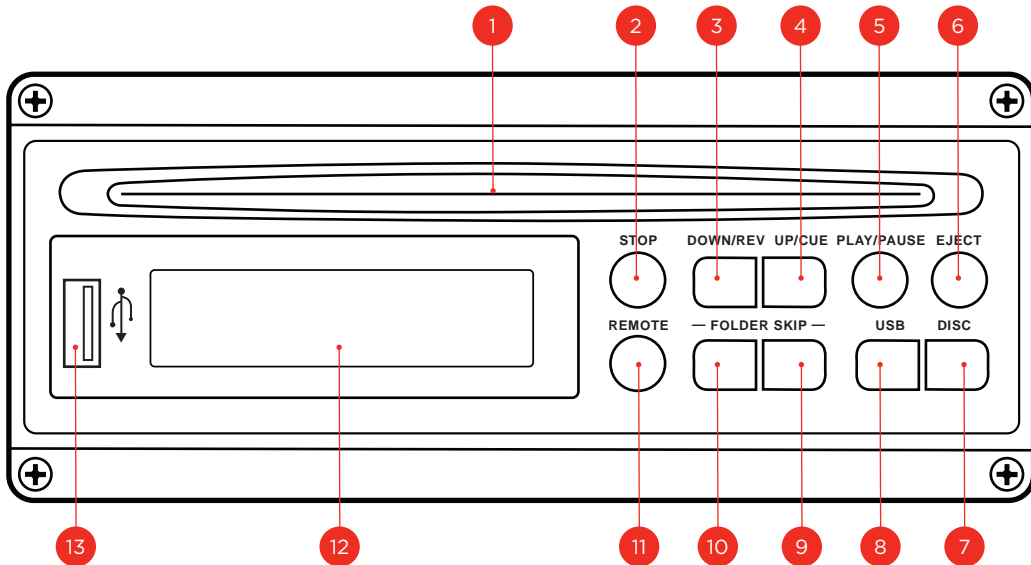
## Q319 Wireless Microphone



### The M319 is used with these 2 microphones



# CD/USB Media Player



- |                         |                |                            |              |
|-------------------------|----------------|----------------------------|--------------|
| 1. Disc Slot            | 5. Play/Pause  | 9. Folder Forward          | 13. USB Port |
| 2. Stop                 | 6. Eject       | 10. Folder Back            |              |
| 3. Skip/search backward | 7. Disc Select | 11. Remote Infrared Sensor |              |
| 4. Skip/search Forward  | 8. USB Select  | 12. LCD Display            |              |

**NOTE:** The Power button on the CD remote and the DISC/BT knob control the individual Power ON/OFF function on the CD/USB media player.

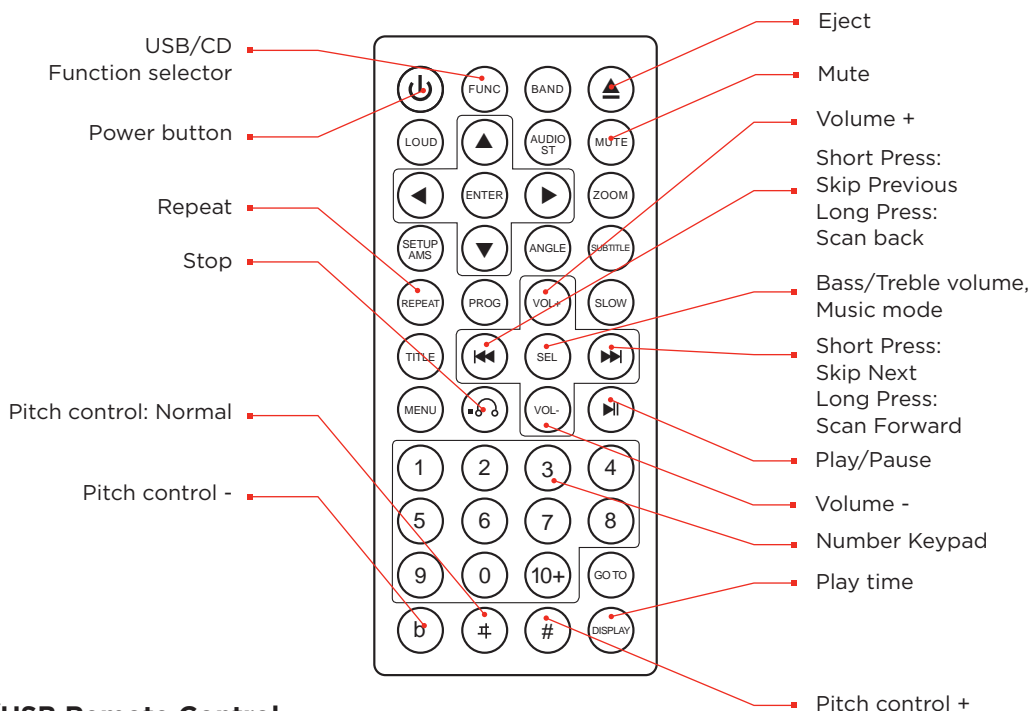
When turned fully counter-clockwise until it clicks, the Disc/BT Volume control knob turns off the power to the CD/USB Media Player. To turn the power on, turn the knob above the minimum setting.

1. Insert a CD into the slot. The LCD display will show "DISC." Once a CD is inserted into the slot, the LCD display will show "LOAD."
2. The CD will start playing the audio track automatically. Press Play/Pause to pause playing. Press Stop to stop playing; it will resume play at the place it has been stopped. Press Stop twice to revert to the beginning of the CD and press Play/Pause to begin playing.
3. Press the Eject button to remove the CD from the slot. If the CD is not removed, the CD will be pulled in automatically after 30 seconds.
4. With a short press the Down/Rev or Up/Cue buttons will choose the desired track. To search backward or forward through a track, long press these buttons and press Play/Pause at the desired point.
5. Folder Skip buttons will skip to previous/next Folder (Folders with audio files)

## USB Media Player

1. Place the USB key into the USB slot. Press the USB / DISC button on the remote control or front panel to enter USB mode.
2. The Down/Rev, Up/Cue and Folder Skip buttons perform similarly with both functions CD/USB

# CD/USB Remote Control

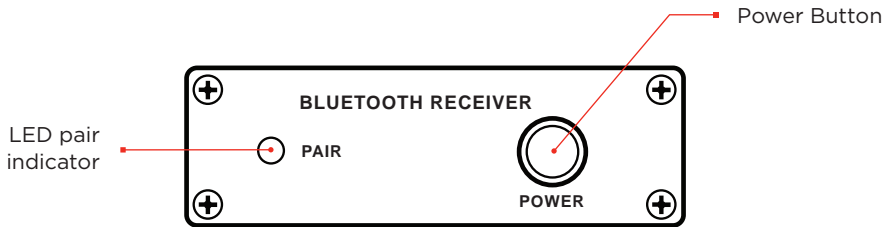


## CD/USB Remote Control

**NOTE:** Buttons with call outs have a function described by its button name or call out name, the rest of function buttons without a call out are not applicable.

- Power Button turns ON/OFF the individual power for the CD/USB media player
- FUNC Switches between USB and CD Playback.
- Eject removes CD from CD slot
- Mute Press this key to mute the CD output, press it again or volume +/- to resume
- Vol +/- Press these keys to adjust the CD/USB volume (This setting works along with the Master Volume)
- Skip Next/Scan forward Apply a short press to skip next and a long press to scan forward
- Skip Previous/Scan back Apply a short press to skip back and a long press to scan backward
- SEL Press this key to select Bass and Treble. Use Vol +/- to set volume levels
- Play/Pause Key Press this key to start playing or pause
- Number Key Pad Press these keys to enter a track number to be played
- Display Press this key to switch between played time and remaining time
- Pitch control +/- Press these key to adjust the Pitch setting
- Pitch control Normal Press this key to reset pitch settings to normal
- Stop Press this key to stop play. Press it twice to revert to the beginning of the CD
- Repeat Press this key to repeat playing track or playing folder. Repeat All is a default setting.
- Power Button Press this key to turn on/off the power on the CD/USB media player

# Bluetooth



## Bluetooth Operation

**NOTE:** In order to operate the Bluetooth module this must be turned on (Power button pushed in) plus the DISK/BT power/volume control knob. This works in conjunction with the main power of the unit.

- Open the Bluetooth function on the transmitting device and start scanning for bluetooth devices.
- Turn ON the power on the Bluetooth Receiver by pushing the Power button IN
- The blue LED will start flashing, select BT SPEAKER on the transmitting device
- The blue LED will become steady once it pairs.
- The PA920 is now synced with the device and is ready to play

## Trouble Shooting

**No Sound:** Check that the master volume is turned up as well as the individual volume control for the appropriate input and/or device.

### No Power

- Check that the main power is turned on as well as the individual power control for the appropriate section or device. e.g. The Disk/USB media player and Bluetooth have a power and volume control knob (DISC/BT) plus each component has its own power control. CD power control is on CD/USB remote and Bluetooth has a power button.
- Check the Battery switch setting. It should be set to ON when working on Battery power.
- Battery charge may be too low. Connect the unit to an AC outlet.

**Battery not charging:** Battery switch must be set to the ON position while charging.

# Specifications and Features

**Woofers:** 10" Diameter, 40 Oz. Magnet, 2" Dia. Voice Coil, 6 Ohm, 120 Watt capacity

**Tweeters:** 4.25" square compression Horn Driver, 12 Oz. Magnet, 1"Dia. Voice Coil, 8 Ohm

**Frequency Response:** 45Hz to 18KHz

**Amplifier:** 90 Watts RMS @ 5% THD (AC)

**Sound Pressure Level:** 94 dB, 1 Watt @ 1 Meter

**Power Sources:** 100-240 volt AC universal power supply and two 12 volt 7 AH maintenance-free lead acid batteries

**Charging Time:** Full charge in 8-10 hrs. (Battery Switch must be set to ON to charge)

**Operating Time:** 6 hrs. max power output (normal music full charge)

**Power supply:** 320W single output switching power supply with cooling fan. Led indicators for AC and battery status.

## Wireless System

**Receiver:** Two 16-channel selectable UHF diversity wireless receivers 904-925 MHz. internal antennas, 150' reception range from mics.

**Transmitter:** 16-channel UHF wireless 904-925 Mhz, 300' range. low RF power 5 MW, high RF power 10 MW.

**Wireless link out:** Mono/stereo wireless link with PA920PS

**Bluetooth:** Select BT SPEAKER to pair with Bluetooth device.

## CD/USB Media Player

Compact disc digital audio system with mechanic and electronic anti-shock. Plays CD-R/W, MP3, WMA, MPG, AVI

**USB Port:** Supports up to 16 GB

## Mixer Panel

Digital Master Volume control with LED indicators

(2) Combo XLR and 1/4" phone plugs.

Separate Bass and Treble tone controls, Voice priority, Speaker mute switch mutes the main speaker plus all other speakers connected (except wireless speakers).

**Speaker out:** Both switched and unswitched 1/4" phone jacks for connecting speakers.

**Audio Line Out:** XLR socket, 780mV

**Line Out:** (2) RCA jacks

**Line In:** (2) RCA jacks, (1) 3.5mm jack with volume control knob

**Tripod Mount:** Recessed, 1-3/8" tripod mount at the bottom

**Dimensions:** 22 H x 14"W x 14" D

**Weight:** Actual 47 lbs, shipping 52 lbs.





## CAUTION

### RISK OF ELECTRIC SHOCK - DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED PERSONNEL.**



The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.



This product is not designed to function normally in strong electromagnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.

### WARNING:

TO REDUCE THE RISK OF  
FIRE OR ELECTRIC SHOCK, SO  
NOT EXPOSE THIS APPLIANCE  
TO RAIN OR MOISTURE.



Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé à un fort champ électromagnétique. La qualité sonore redeviendra normale après affaiblissement du champ électromagnétique.

## IMPORTANT SAFETY INSTRUCTIONS

Attention: all safety and operating instructions should be read before operating appliance. All operating and use instructions should be followed when operating the appliance. Heed and adhere to all warnings on the appliance and in the operating instructions. Retain all safety and operating instructions for future reference.

Water & moisture - do not use the appliance near water; ie. Bathtub, washbowl, kitchen sink, laundry tub, wet basement or swimming pool.

Ventilation - do not situate the appliance so that its location or position interferes with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings. The appliance should not be placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through the ventilation openings.

Heat - situate the appliance away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.

Power sources - connect the appliance only to a power supply type described in the operating instructions or marked on the appliance.

Grounding or polarization - precautions should be taken so that the grounding or polarization means of the appliance are not defeated.

Power cord protection - power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Cleaning - the appliance should be cleaned only as recommended by the manufacturer.

Non use periods - unplug the appliance power cord from the outlet when left unused for a long period of time.

Object & liquid entry - care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage requiring service - the appliance should be serviced by qualified service personnel when: (a) the power supply cord or the plug has been damaged (b) objects have fallen or liquid has been spilled into the appliance (c) the appliance has been exposed to rain (d) the appliance does not appear to be operating normally or exhibits a marked change in performance (e) the appliance has been dropped or the enclosure damaged.

Servicing - the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing refer to a qualified service personnel.



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