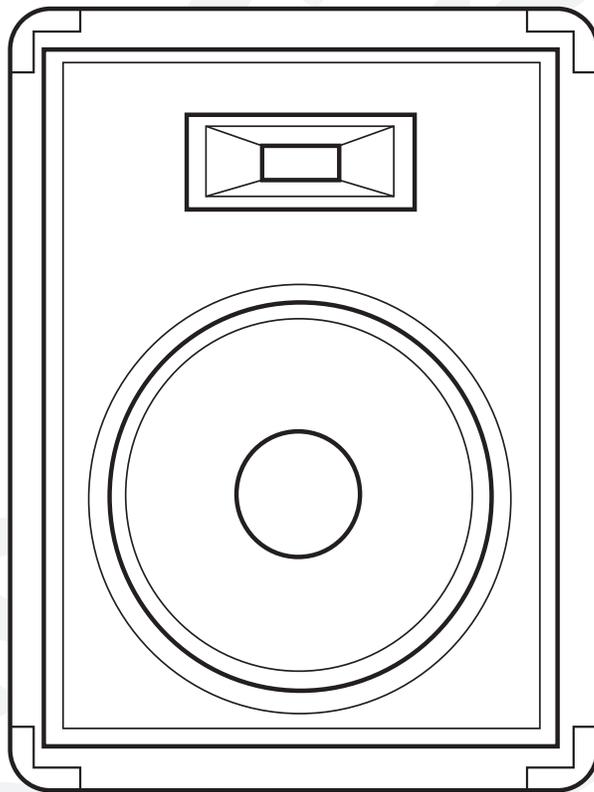


VocoPro

THE SINGER'S ULTIMATE CHOICE™



PV-1800

World's First Active 15" Vocal Speaker
With Built in Digital Echo Mixer

owner's manual

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FCC Information (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS

UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Vocopro may void your authority, granted by the FCC, to use this product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the U.S.A.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute Vocopro products. If you can not locate the appropriate retailer, please contact Vocopro, 1728 Curtiss Court, La Verne, CA 91750.

CAUTION

The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully insure that the apparatus is indeed fully void of residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

CAUTION:

READ THIS BEFORE OPERATING YOUR UNIT

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent fire or electrical shock, do not expose to rain and water.

3. Do not operate the unit upside-down.

4. Never open the cabinet. If a foreign object drops into the set, contact your dealer.

5. Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.

6. Do not use force on switches, knobs or cords. When moving the unit, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.

7. Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.

8. Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

9. This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

10. To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.

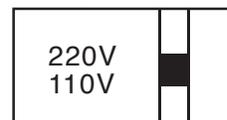
11. The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

NOTE:

Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

Voltage Selector (General Model Only)

Be sure to position the voltage selector to match the voltage of your local power lines before installing the unit.



Listening For A Lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoPro and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.
- Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Some common decibel ranges:

Level	Example
30	Quiet library, Soft whispers
40	Living room, Refrigerator, Bedroom away from traffic
50	Light traffic, Normal Conversation
60	Air Conditioner at 20 ft., Sewing machine
70	Vacuum cleaner, Hair dryer, Noisy Restaurant
80	Average city traffic, Garbage disposals, Alarm clock at 2 ft.

The following noises can be dangerous under constant exposure:

Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

Safety Instructions



CAUTION RISK OF SHOCK



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

Explanation of Graphical Symbols



The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and use instructions should be followed.

5. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. Water and Moisture - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7 A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.



8. Ventilation - The appliance should be situated so its location does not interfere 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 slots.

9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. 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.

13. Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. Power lines - An outdoor antenna should be located away from power lines.

15. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- A. The power supply cord or plug has been damaged; or
- B. Objects have fallen into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

18. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note:

To CATV system installer's (U.S.A.): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.



Welcome.

And Thank you for purchasing the **PV-1800** from VocoPro, your ultimate choice in Karaoke entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of Karaoke equipment, and has been providing patrons of bars, churches, schools, clubs and individual consumers the opportunity to sound like a star with full-scale club models, in-home systems and mobile units. All our products offer solid performance and sound reliability, and to further strengthen our commitment to customer satisfaction, we have customer service and technical support professionals ready to assist you with your needs. We have provided some contact information for you below.

VocoPro
1728 Curtiss Court
La Verne, CA 91750
Toll Free: 800-678-5348
TEL: 909-593-8893
FAX: 909-593-8890

Customer Service & General Information
info@vocopro.com

Tech Support
techsupport@vocopro.com

Remember Our Website

Be sure to visit the VocoPro website www.vocopro.com for the latest information on new products, packages and promos. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events, chat rooms, club directories and even a Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, your ultimate choice in Karaoke entertainment.

FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information

Model Number
Serial Number
Date of Purchase
Place of Purchase

Features and Specifications

Features

- 2-way 15" active speaker
- Built-in 350W mono power amp with Digital Echo
- Powers a second un-powered speaker
- Vocal speaker designed for live entertainment
- Mic input channel with one 1/4" and one XLR jack
- RCA L/R Line In channel
- Mono XLR Line In channel
- Line Out channel with one 1/4" and one XLR jack
- Master volume control
- Mic input level control
- Line In level control
- Bass and Treble tone controls
- Digital Echo level control
- Power LED indicates when the power on
- Peak LED indicates any signal peaks
- 110V / 220V voltage selector

Specifications

Power rating	400W peak / 200W RMS
Impedance	8Ω
Sensitivity.....	100dB
Frequency response	20Hz – 20kHz
Shipping dimensions	19¾" (L) x 19" (W) x 26¼" (H)
Shipping weight.....	55 lbs.

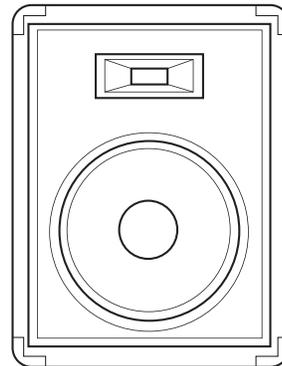
The PV-1800 200W Powered Speaker system is self-powered and does not rely on an external amplifier for power. This means you can connect any mixer, player or other audio device directly to its stereo RCA Line In inputs for instant sound.

Before Getting Started

Follow this quick setup guide for basic step-by-step instructions on setting up your PV-1800 powered speaker. Because every system varies, you may be required to purchase additional/longer cables, adaptors, etc. in order to integrate the PV-1800 into your system.

The following items should be included with your PV-1800:

- 1 PV-1800 Powered Speaker
- 1 Power cord



Setting Up

Setting up the Speaker Stand

Setup each SS-88 speaker stand by extending the support lefts to a position that is stable and tighten the tension mechanism firmly. Each end of the SS-88 pole has a particular diameter fitted for common speakers' mounting cavities. If the SS-88 pole does NOT fit flush into the mounting adapter on the PV-1800, loosen the SS-88 pole and reverse it in the stand and then remount the speaker.

Mounting the Speaker(s)

Once the adapter is securely attached to the speaker:

1. Place the PV-1800 on the SS-88 speaker pole
2. Fasten the fastener on the adapter until it is secured tightly
3. Repeat this for the next speaker

Voltage Selector

The PV-1800 has a voltage selector on the rear panel that switches between two voltage settings:

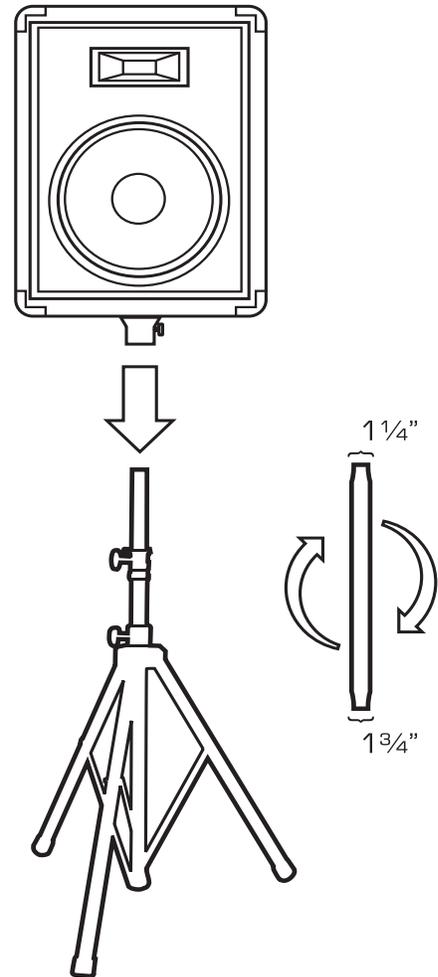
- 115V - North America, Canada, some South America
- 220V - Europe, Asia, some South America

Note: The PV-1800 comes preset to 115V and will only need to be switched if it is being used in a region that requires 220V.

Switching the Voltage

1. Switch the selector to the proper voltage

CAUTION: Using the speakers while set to the wrong voltage can result in permanent damage and will void the warranty. Make sure you have set the PV-1800 to the correct voltage before using.



Getting Connected

Connecting the Power

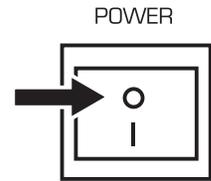
Before connecting the power cord make sure that the PV-1800's power switch is switched off.

What you will need:

- AC Power Cord (included)
- Surge protector/power strip.

Note: *VocoPro recommends that you use a surge protector to prevent permanent damage to your speakers, caused by a power surge.*

1. Connect the correct end of the power cord to the AC input on the PV-1800's rear panel
2. Connect the 3-pronged end to a 3-pronged out let on a surge protector or wall outlet



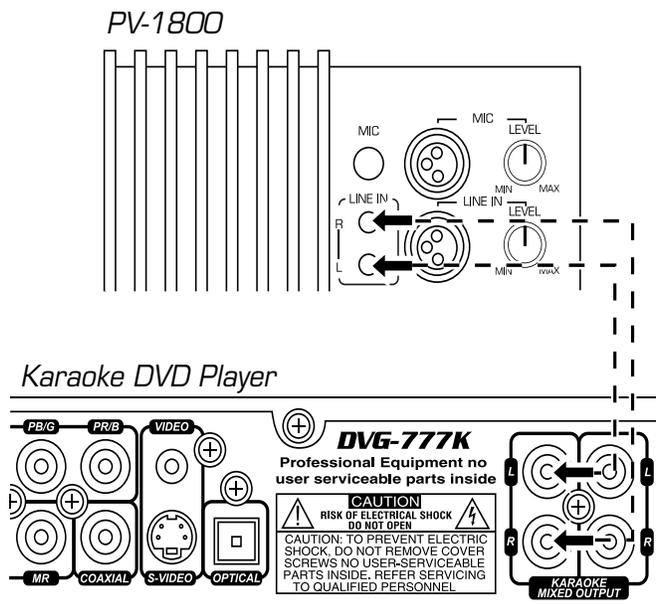
Connecting a Player or Mixer

Connecting to the RCA LINE IN Channel

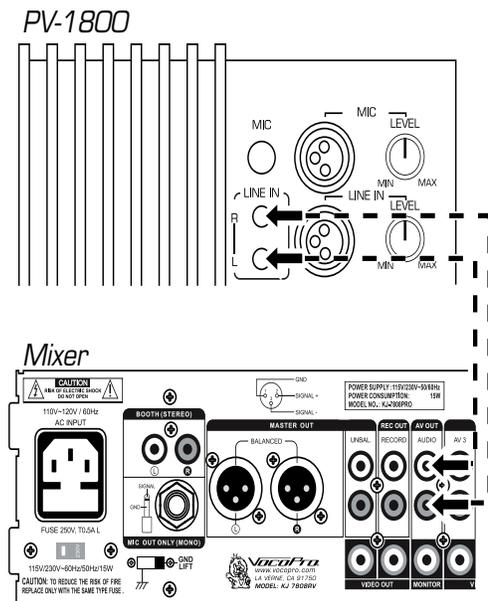
What you will need:

- Player or Mixer with RCA Left and Right (red & white) audio outputs
- L/R (red & white) stereo RCA audio cables

1. Connect one end of each RCA cable to the L/R (red & White) RCA outputs on your player or mixer
2. Connect the other ends of the RCA cables to the L/R (red & white) LINE IN RCA inputs on the PV-1800's rear panel



PV-1800 Connected to VocoPro's DVG-777K



PV-1800 Connected to VocoPro's KJ 7808RV

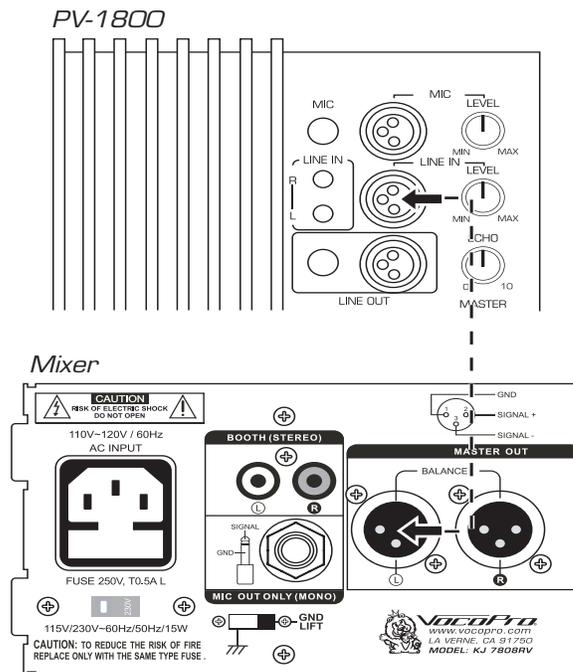
Getting Connected cont . . .

Connecting to the XLR LINE IN Channel

What you will need:

- Player or Mixer with an XLR audio output
- XLR audio cable

1. Connect one end of the XLR cable to the XLR output on a mixer
2. Connect the other end of the XLR cable to the LINE IN XLR jack on PV-1800's rear panel



PV-1800 Connected to VocoPro's KJ 7808RV

Connecting to a Second Speaker

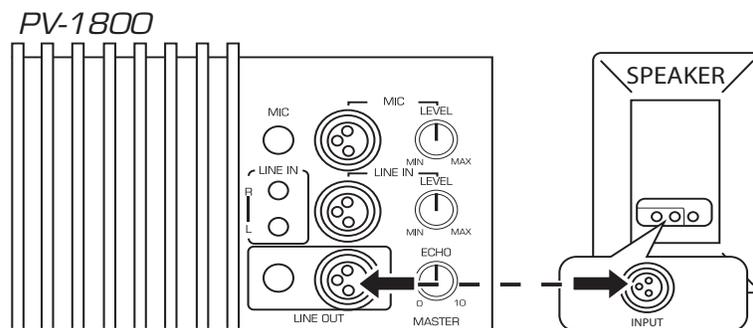
The PV-1800 can be connected to a second powered speaker using its XLR or 1/4" LINE OUT channels.

Connecting to the XLR LINE OUT Channel

What you will need:

- An powered speaker with an XLR audio input
- XLR cable

1. Connect one end of the XLR cable to the LINE OUT XLR jack on the PV-1800
2. Connect the other end of the XLR cable to the XLR input on the powered speaker

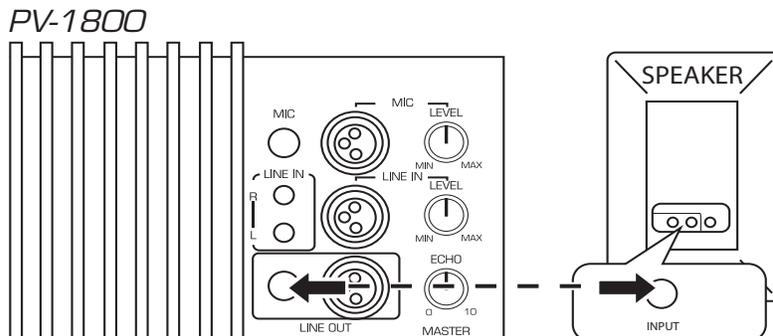


Connecting to the 1/4" LINE OUT Channel

What you will need:

- An powered speaker with a 1/4" audio input
- 1/4" cable

1. Connect one end of the 1/4" cable to the LINE OUT 1/4" jack on the PV-1800
2. Connect the other end of the 1/4" cable to the 1/4" input on the powered speaker



Connecting a Microphone

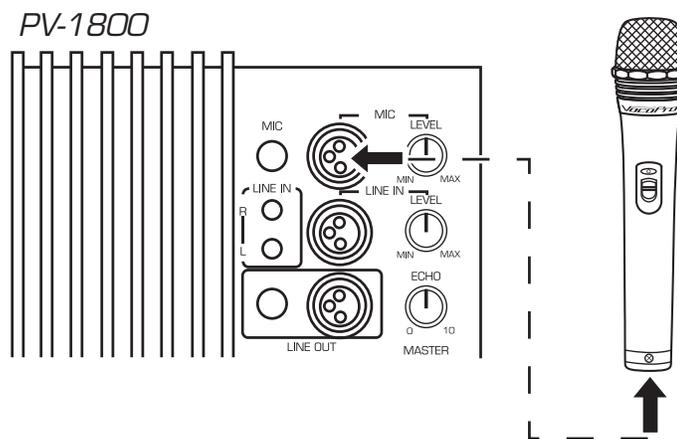
The PV-1800 has one microphone channel with two available inputs, a 1/4" and an XLR input. You can have a microphone connected to each at the same time. Use the MIC LEVEL control to adjust the microphone volume.

Connecting a Microphone to the XLR MIC Input Channel

What you will need:

- A microphone with an XLR microphone cable

1. Connect one end of the XLR microphone cable to the XLR MIC jack on the PV-1800
2. Connect the other end of the XLR microphone cable to a microphone

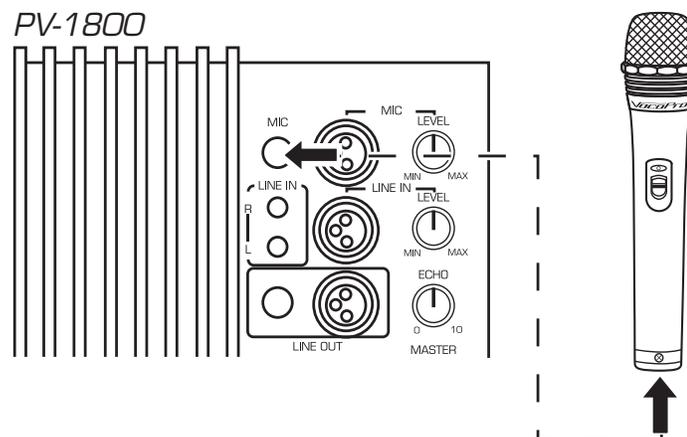


Connecting a Microphone to the 1/4" MIC input Channel

What you will need:

- A microphone with a 1/4" microphone cable

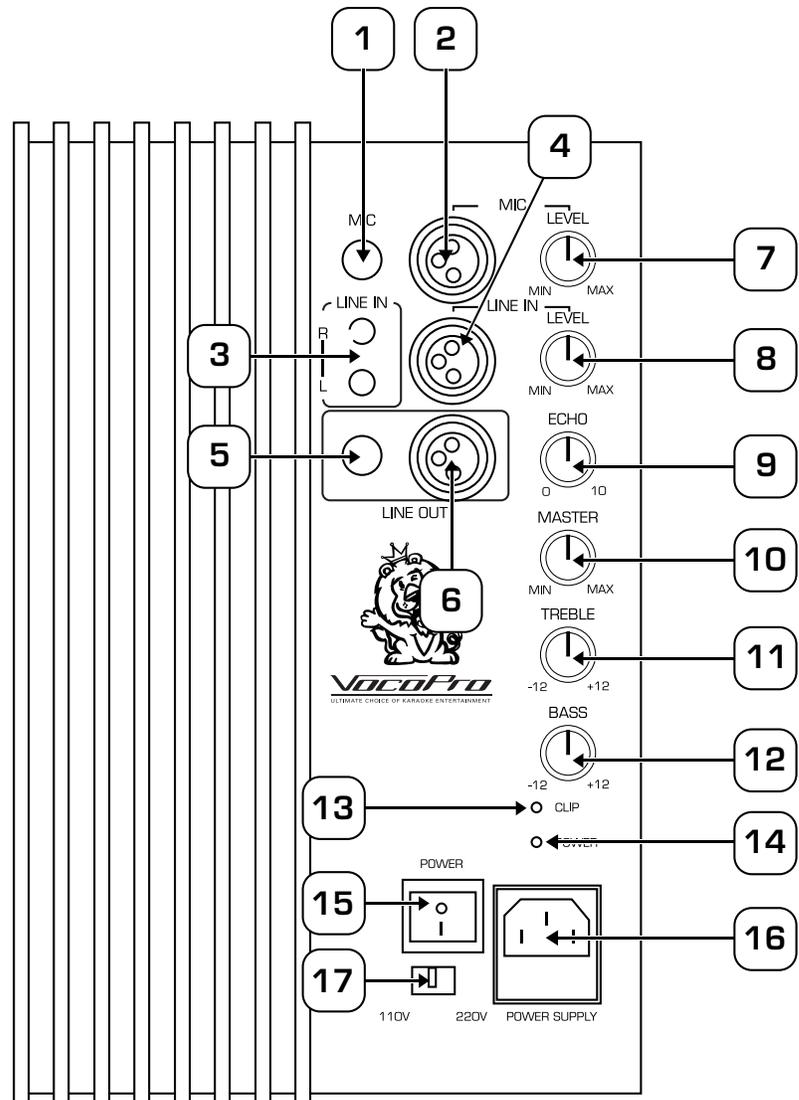
1. Connect one end of the 1/4" microphone cable to the 1/4" MIC jack on the PV-1800
2. Connect the other end of the 1/4" microphone cable to a microphone



Descriptions and Functions

Descriptions and Functions

1. 1/4" MIC input - Connect a microphone here using a 1/4" microphone cable
2. XLR MIC input - Connect a microphone here using an XLR microphone cable
3. RCA LINE IN channel - Connect a player or mixer here using L/R (red & white) RCA cables
4. XLR LINE IN channel - Connect a mixer or receiver here using an XLR cable
5. 1/4" LINE OUT channel - Connect to a second powered speaker with a 1/4" input
6. XLR LINE OUT channel - Connect to a second powered speaker with a XLR input
7. MIC LEVEL control - Controls the volume for the microphone that is connected to the PV-1800's 1/4" or XLR microphone input. Turn the control towards MIN to lower the microphone level and towards MAX to raise it.
8. LINE IN LEVEL control - Controls the volume for the player or mixer that is connected to the PV-1800's 1/4" or XLR LINE IN jack. Turn the control towards MIN to lower the level and towards MAX to raise it.
9. ECHO control - Controls how much echo effect is present in the microphone signal. Turn the control towards 0 to decrease the echo effect and towards 10 to increase it.
10. MASTER volume control - Controls the master output volume. Turn the control towards MIN to lower the master output volume and towards MAX to raise it.
11. TREBLE control - Controls the amount of treble applied to the master output (microphone and music). Turn towards -12 to cut the treble and towards +12 to add treble. Set at the middle position for no treble.
12. BASS control - Controls the amount of bass applied to the master output (microphone and music). Turn towards -12 to cut the bass and towards +12 to add bass. Set at the middle position for no bass.
13. Clip LED - Indicates if any clipping is occurring
14. Power LED - Indicates when the power is on
15. POWER switch - Turns the PV-1800 on and off
16. AC Input - Connect the included power cable here
17. Voltage selector - Allows you to switch the voltage level to match the region you are in. Select 115V for North America, Canada, some South America. Select 220V for Europe, Asia, some South America.

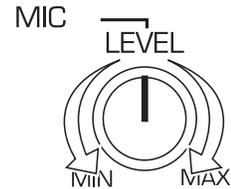


Operations

Adjusting the Microphone Volume

Use the MIC LEVEL control to adjust the microphone volume

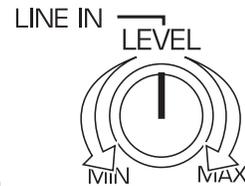
1. Turn the MIC LEVEL control clockwise towards MAX to raise the level
2. Turn the MIC LEVEL control counter-clockwise towards MIN to lower the level



Adjusting the Line In Level

Use the LINE IN LEVEL control to adjust the level for the player or mixer that is connected to the RCA or XLR LINE IN channel.

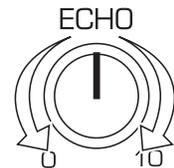
1. Turn the LINE IN LEVEL control clockwise towards MAX to raise the level
2. Turn the LINE IN LEVEL control counter-clockwise towards MIN to lower the level



Adjusting the Echo Level

You can adjust how much of the echo effect is present in the microphone signal

1. Turn the ECHO control clockwise towards 10 to raise the amount of echo
2. Turn the ECHO control counter-clockwise towards 0 to lower the amount of echo



Adjusting the Master Volume

You can adjust the master volume using the MASTER control

1. Turn the MASTER control clockwise towards MAX to raise the volume
2. Turn the MASTER control counter-clockwise towards MIN to lower the volume

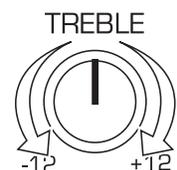
NOTE: If the MASTER volume is turned up high but no microphone and/or music can be heard, make sure the MIC LEVEL and/or LINE IN LEVEL controls are turned up high enough.



Adjusting the Treble Tone

The treble control adjusts how much treble or high-frequency is applied to the overall output. This means that the treble will be applied to both music and microphone vocals.

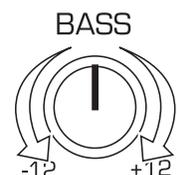
1. Turn the TREBLE control clockwise towards +12 to boost the amount of treble
2. Set the TREBLE control to the center position or 0 for a flat tone or no treble
3. Turn the TREBLE control counter-clockwise towards -12 to cut the amount of treble



Adjusting the Bass Tone

The bass control adjusts how much bass or high-frequency is applied to the overall output. This means that the bass will be applied to both music and microphone vocals.

1. Turn the BASS control clockwise towards +12 to boost the amount of bass
2. Set the BASS control to the center position or 0 for a flat tone or no bass
3. Turn the BASS control counter-clockwise towards -12 to cut the amount of bass



Troubleshooting

The power is not turning on

- Make sure the power cable is connected firmly to the PV-1800 and the power outlet
- If you are using a surge protector / power strip, make sure it is plugged in and turned on
- Try a different power outlet

There is no sound coming out of either of the speakers

- Make sure the power is on
- Make sure the Master volume is turned up
- Make sure the Line In Level control is turned up loud enough
- Make sure the Mic Level control is turned up loud enough if you are using a microphone
- Make sure all cables are securely connected to the proper jacks
- Make sure there are no damaged or bad cables
- Make sure all other devices, i.e. players, mixers, etc., are turned on and their volume is turned up

There is no sound coming out of the second speaker

- Make sure the speaker cable is firmly attached to both speakers
- Try a different speaker cable

There is a lot of feedback or a high-pitched squealing

- Lower the treble on the speaker, mixer, etc.
- Try repositioning the microphone if you are using a microphone
- Lower the microphone volume, mixer volume, player volume, etc.

The audio sounds muffled and unclear

- Lower the bass on the speaker, mixer, etc.
- Make sure the microphone(s), mixer, player, etc. are working properly and are set to the correct settings

There is a loud popping sound coming out of the speakers

- There may be a bad cable somewhere in the system
- Make sure there are no damaged microphones

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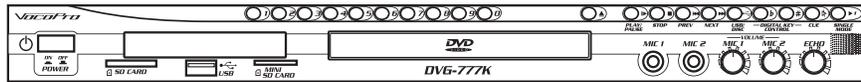
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Voltage selector 13

X

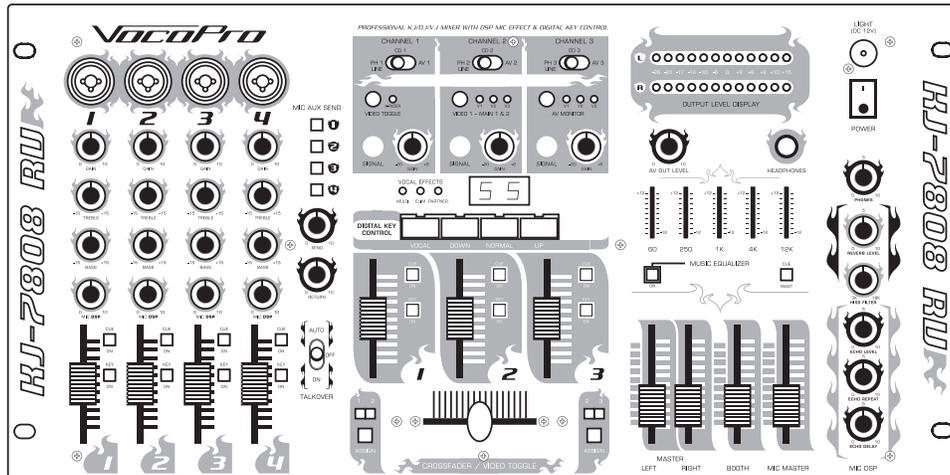
XLR LINE IN 13
XLR LINE OUT 13
XLR MIC input 13

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Notes

Notes

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