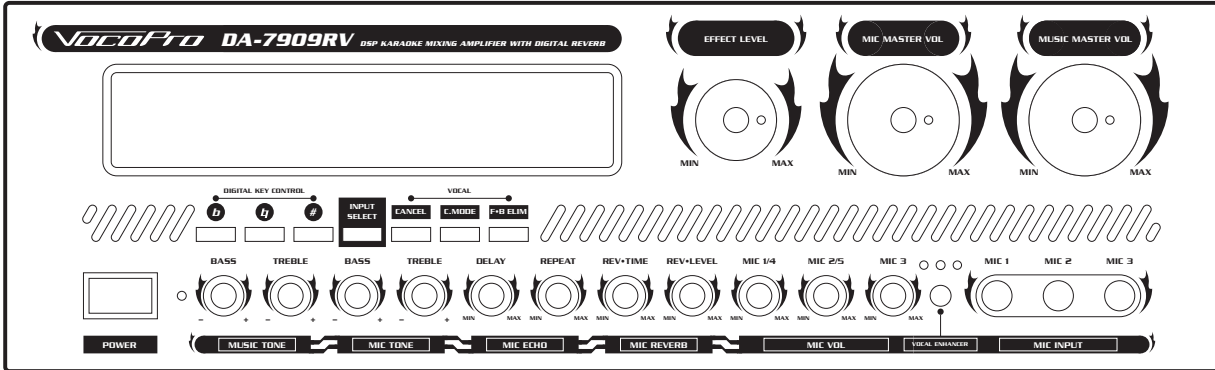




**VocoPro**<sup>®</sup>  
THE SINGERS ULTIMATE CHOICE<sup>™</sup>



# DA-7909RV

DSP Karaoke Mixing Amplifier  
with Digital Reverb

**OWNER'S MANUAL**



Welcome.



And Thank you for purchasing the **DA-7909RV** 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](http://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** .....

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# 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.
  - 7A.** 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.

# 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

-Information courtesy of the Deafness Research Foundation

# 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.

# Features and Specifications

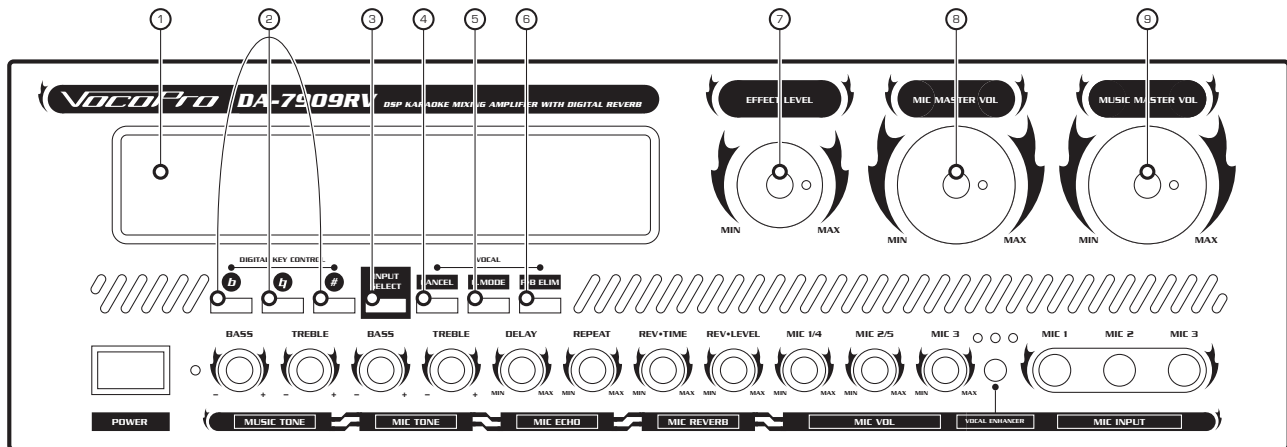
## Features

- 300W (RMS) and 600W (MAX) power output
- 3 microphone inputs (1/4") with individual volume controls plus 2 additional 1/4" inputs
- DSP vocal Echo with Repeat and Delay controls
- DSP vocal Reverb with Time and Level controls
- 4 programmable custom effects
- Vocal Cancel removes the vocal track on Multiplex formatted CD+G discs
- $\pm$  5-step Digital Key Control
- C-MODE function toggles between Mic-only and Music-only for the Center Out channel
- Connect up to 4 external A/V players (RCA)
- Automatic input selector
- Feedback eliminator with 3 available strength levels
- Master Music and Microphone volume controls
- Music Bass and Treble tone controls
- Vocals Bass and Treble controls
- Master Effect Level control
- Inputs: 4 RCA AV (DVD, CD, CDG, AUX), Digital RS232, 1 External EQ L/R RCA in
- Outputs: 2 L/R banana plug Speaker outs , 1 L/R RCA Record out, 1 RCA video out, 1 L/R Center out, 1 External EQ L/R RCA out
- Full-function remote control

## Specifications

Amplifier	
Power Output .....	100W x2 (RMS 8 $\Omega$ , THD 1%) 120W x2 (RMS 4 $\Omega$ , THD 1%)
Total Harmonic Distortion .....	(8 $\Omega$ 10W) 0.1%
S/N Ratio .....	78dB
Pre Music Channel	
Input Sensitivity .....	240mV
Over Load Power (1KHz) .....	3.7V
Sensitivity .....	6mV
Frequency Response .....	20 Hz ~ 20 KHz [-3dB ~ +1dB]
Pre Microphone Channel	
Input Sensitivity .....	14mV
Over Load Power (1KHz) .....	200mV
Frequency Response .....	50 Hz ~ 10 KHz [ $\pm$ 1.5dB]
General	
Power .....	AC ~ 120V, 60Hz
Max power .....	500W
Dimensions .....	17.1"(L) x 14.1"(W) x 5.2"(H)
Weight .....	19.2 lbs.

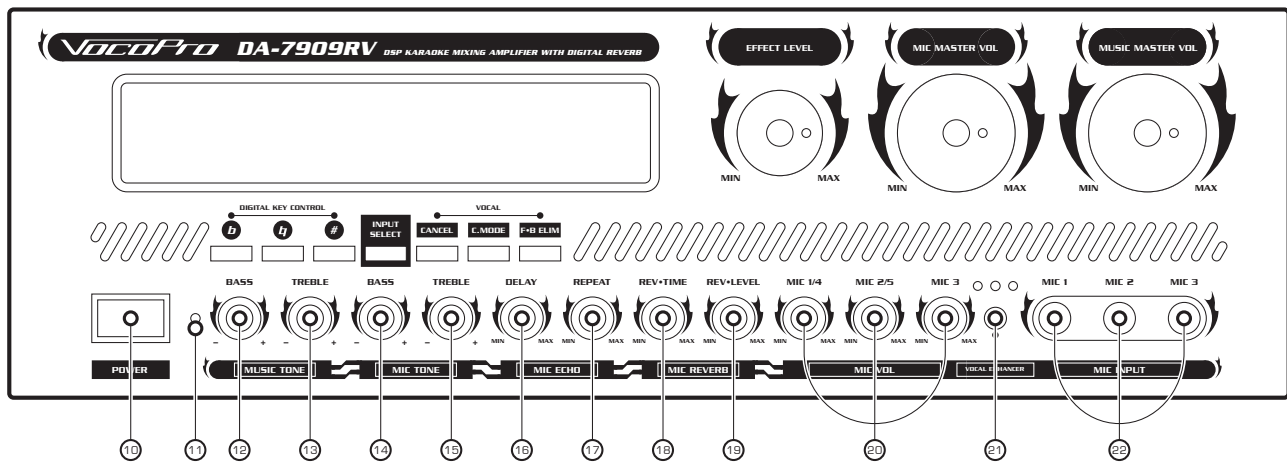
# Front Panel



1. **VFD Display Screen** - Displays the amplifier's operation status and settings
2. **Digital Key Control** - Adjusts the musical key of the music to fit the singer's vocal range
  - b (flat) - Lowers the musical key
  - n (natural) - Returns to the original key
  - # (sharp) - Raises the musical key
3. **Input Selector** - Select between the 4 available A/V input channels or set the selector to AUTO.  
NOTE: In AUTO mode the amp will switch the channel with an active audio signal.
4. **Vocal Cancel** - Removes the vocal track from Multiplex formatted karaoke CD+G discs.  
NOTE: Vocal cancel will only work on discs that are Multiplex formatted.
5. **Center Mode (C. MODE) Button** - Cycles through 5 setup menus: C-MODE output mode, Set maximum Master Volume, set maximum Microphone Volume, set New password and Password Lock/Unlock. See the Operations section for detailed instructions on changing these settings.
6. **FB ELIM** - Cycles through 4 different settings for feedback eliminator: 0 - Off, 1- Weak, 2 -Medium, 3 - Strong.
7. **Effect Level Control** - Adjusts the master effect level
8. **Master Microphone Volume Control** - Adjusts the overall microphone output volume.
9. **Master Music Volume Control** - Controls the overall music output volume.

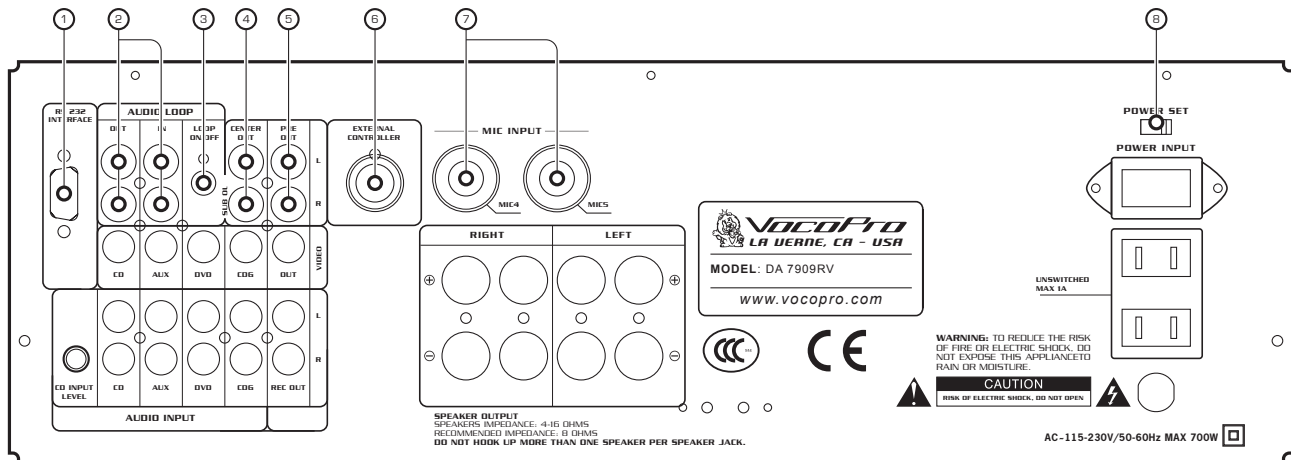


# Front Panel



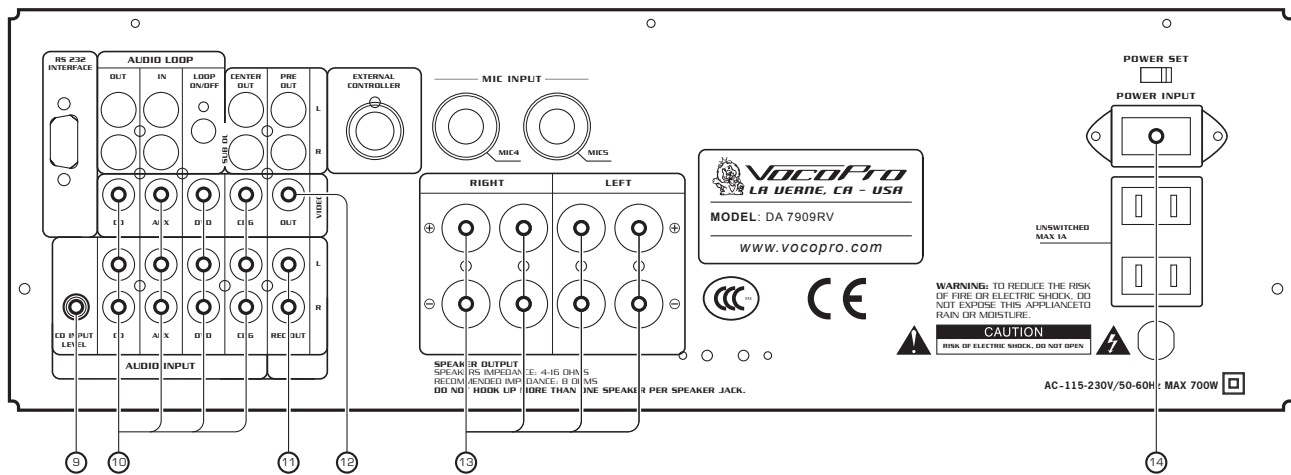
10. **Power Switch** - Turns the DA-7909RV On and Off.
11. **Power LED** - Indicates the DA-7909RV's power status by lighting up when the power is on
12. **Music Bass Control** - Adjusts the bass for the music. Turn clockwise to increase and counter-clockwise to decrease.
13. **Music Treble Control** - Adjusts the treble for the music. Turn clockwise to increase and counter-clockwise to decrease.
14. **Microphone Bass Control** - Adjusts the bass for the microphone vocals. Turn clockwise to increase and counter-clockwise to decrease.
15. **Microphone Treble Control** - Adjusts the treble for the microphone vocals. Turn clockwise to increase and counter-clockwise to decrease.
16. **Echo Delay Control** - Adjusts the delay time for the Echo effect from 0 - 250ms.
17. **Echo Repeat Control** - Adjusts the amount of repeat present in the echo effect.
18. **Reverb Time Control** - Adjusts the amount of time that the reverb will hold out.
19. **Reverb Level Control** - Adjusts the Reverb level.
20. **Microphone Volume Controls** - Adjusts the volume for each mic channel.  
NOTE: MIC 1/4 controls the volume for mic input 1 on the front panel and mic input 4 on the rear panel.  
MIC 2/5 controls the volume for mic input 2 on the front panel and mic input 5 on the rear panel.
21. **Vocal Effect Off Button (MIC 3 Only)** - Turns the vocal effect on and off for microphone channel 3.
22. **Microphone Input 1, 2 and 3 Jacks (1/4")** - Connect microphones here using a 1/4" microphone cable.

# Rear Panel



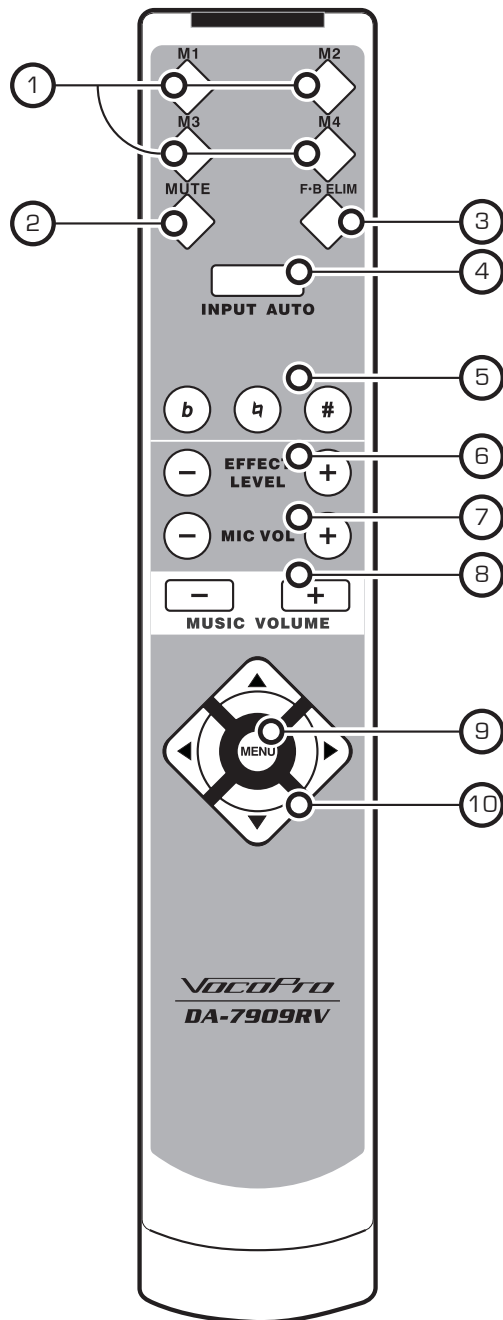
1. **RS 232 Interface Jack** - This jack is used by the factory in the event of future firmware upgrades.
2. **Effects Loop IN/OUT Jacks (RCA)** - Connect to an external equalizer or effects unit with L/R RCA Ins and Outs.
3. **Loop On/Off Switch** - Use this to turn on or bypass the Effects Loop IN/OUT channel.
4. **Center Out Jacks (RCA)** - Acts as a monitor output and must be connected to a powered speaker/monitor or amplifier. The center out channel can be set to either Mic Only or Music Only. See the operations section for detailed instructions on switching between Mic Only and Music Only.
5. **Pre Out Jacks (RCA)** - This channel outputs both microphone vocals and music to a non-powered audio input device with L./R RCA audio inputs.
6. **External Controller Connection** - For use with an external controller (not included).
7. **Microphone Input Jacks 4 and 5** - Connect 2 additional microphones here using 1/4" microphone cables. NOTE: MIC 4 volume is controlled by the MIC 1/4 control on the front panel and MIC 5 is controlled by the MIC 2/5 control.
8. **Voltage Selector** - This selector toggles between 110-120V and 220-240V power settings. NOTE: Please ensure that this switch is set to the correct position, matching the receiving AC outlets power supply before plugging it in an operating it. Failure to do so may cause severe damage to the unit and void your product warranty.

# Rear Panel



9. **CD Input Level Control** - Separate volume control for the CD input channel that controls the input volume for the audio device that is connected to the CD L/R RCA inputs.
10. **Audio Video Input Jacks (RCA)** - Connect up to 4 A/V input devices here using L/R (white & red) RCA audio cables and video (yellow) RCA cable. NOTE: Use the Input Selector on the front panel to select the correct input channel when playing. See the Operations section for detailed instructions on setting the input channel.
11. **Record Out L/R Jacks (RCA)** - Connect to a recording device with L/R RCA audio inputs.
12. **Video Out Jack** - Connect to a TV/video monitor to display the video from the A/V input devices connected to the A/V input channels.
13. **Speaker Outputs (Banana Plug)** - Connect to up to 4 non-powered speakers using banana plug speaker cables. See the Getting Connected section for detailed instructions on connecting speakers.
14. **AC Input** - Connect and power up to 2 additional devices here.

# Remote Control



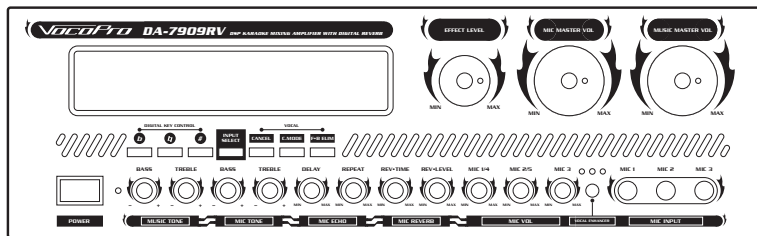
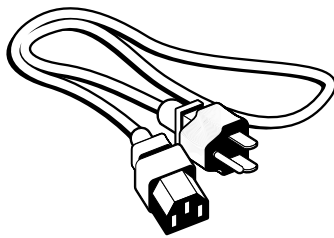
1. **Memory Buttons** - Program and select up to 4 custom effect settings.
2. **Mute** - Mutes the sound for the devices connected to the Audio inputs. Press once to turn MUTE on and again to turn MUTE off.
3. **FB Elim** - Cycles through 4 different settings for feedback eliminator:  
0 - Off, 1- Weak, 2 -Medium, 3 - Strong.
4. **Input Selector** - Select between the 4 available A/V input channels or set the selector to AUTO.
5. **Digital Key Control** - Adjusts the musical key of the music to fit the singer's vocal range
  - b (flat) - Lowers the musical key
  - n (natural) - Returns to the original key
  - # (sharp) - Raises the musical key
6. **Effect Level -- and + Buttons** - Adjusts the master effect level.
7. **Microphone Volume -- and + Buttons** - Adjusts the overall microphone output volume.
8. **Music Volume -- and + Buttons** - Controls the overall music output volume.
9. **Menu Button** - Accesses the control menu for adjusting Microphone Tone, Music Tone, Echo controls and Reverb controls.
10. **Arrow Buttons** - The UP and DOWN arrow buttons select the function in the menu and the LEFT and RIGHT buttons adjust the parameters of the functions.

# Getting Started

Before setting up the DA-7909RV make sure all of the following contents are in the packaging. It is recommended that you save the box and shipping materials in case you ever have to ship your product.

Package contents should include the following:

- [1] DA-7909RV
- [1] Remote control
- [1] AC power cord
- [2] AAA Battery
- [1] Warranty Card



Things to consider:

- Place the DA-7909RV in a spot where the vents on top are not blocked by another machine or rack shelf.
- Make sure there are no obstacles between the remote and the remote control sensor on the front of the DA-7909RV.

# Getting Connected

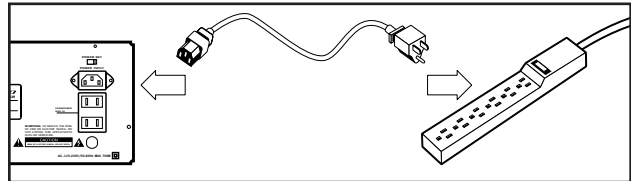
## Connecting the Power

What you will need:

- Power cord (included)
- Power outlet or power strip/surge protector (recommended)

1. Connect the correct end to the AC INPUT on the rear panel of the DA-7909RV.
2. Connect the other end to a surge protector, power strip or wall plug.

NOTE: It is recommended that you use a surge protector to protect the mixer from any unexpected power surges, which could result in a defective product and will void the warranty.



## Connecting External Devices

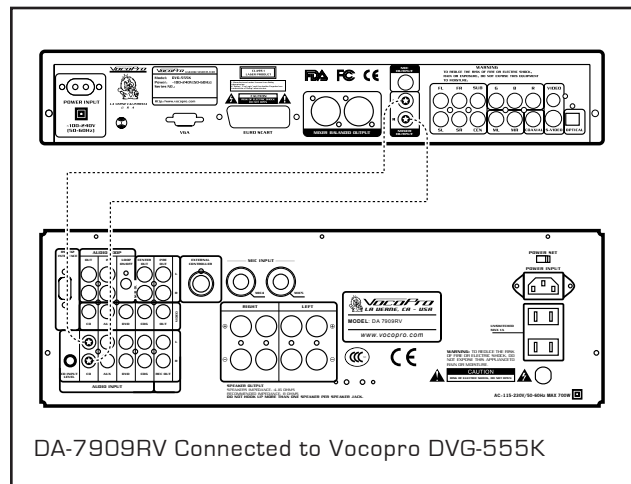
The DA-7909 RV has 4 A/V input channels, CDG, DVD, AUX and CD, allowing for up to 4 A/V devices to be connected at a time.

### Connecting Audio

What you will need:

- A disc player or other audio output device with L/R RCA audio outputs
- L/R (red & white) RCA cable

1. Connect one end of the L/R (red & white) RCA cable to the L/R audio output jacks on the disc player or other audio output device
2. Connect the other end of the L/R (red & white) RCA cable to one of the L/R RCA audio input channels on the rear panel of the DA-7909RV
3. For additional players follow steps 1 and 2



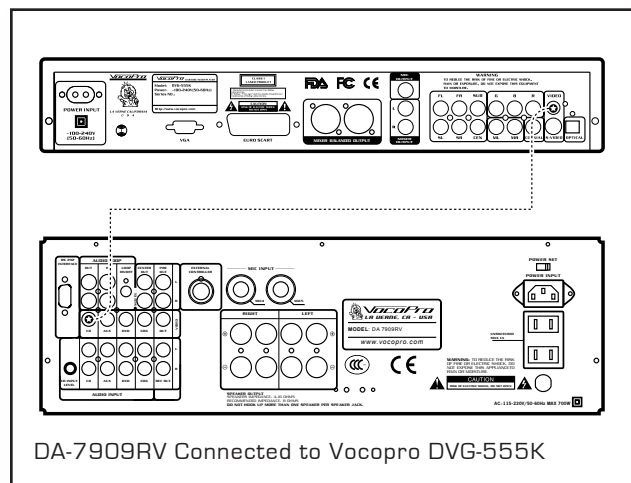
DA-7909RV Connected to Vocopro DVG-555K

### Connecting Video

What you will need:

- A disc player or other audio output device with an RCA video output
- RCA video cable (yellow)

1. Connect one end of the RCA video cable to the RCA video output jack on the disc player or other audio output device
2. Connect the other end of the RCA video cable to one of the RCA video input channels on the rear panel of the DA-7909RV
3. For additional players follow steps 1 and 2



DA-7909RV Connected to Vocopro DVG-555K

# Getting Connected

## Connecting a Pair of Speakers

The DA-7909RV has 2 pairs of L/R “Banana Plug” speaker outputs, allowing you to connect and power up to 4 speakers.

What you will need:

- 2 unpowered speakers
- 2 “Banana Plug” speaker cables

1. Connect a “Banana Plug” end of one of the speaker cables to the top RIGHT “Banana Plug” speaker output on the rear panel of the DA-7909RV
2. Connect the other end of the speaker cable to the input on a speaker
3. Connect a “Banana Plug” end of one of the speaker cables to the top LEFT “Banana Plug” speaker output on the rear panel of the DA-7909RV
4. Connect the other end of the speaker cable to the input on a speaker  
(See Fig. 1)

## Connecting a Second Pair of Speakers

1. Follow the above steps 1-4 except now use the bottom RIGHT and LEFT “Banana Plug” speaker outputs on the rear panel of the DA-7909RV. (See Fig. 2)

Fig. 1 (DA-7909RV Connected to Vocopro UFO-800)

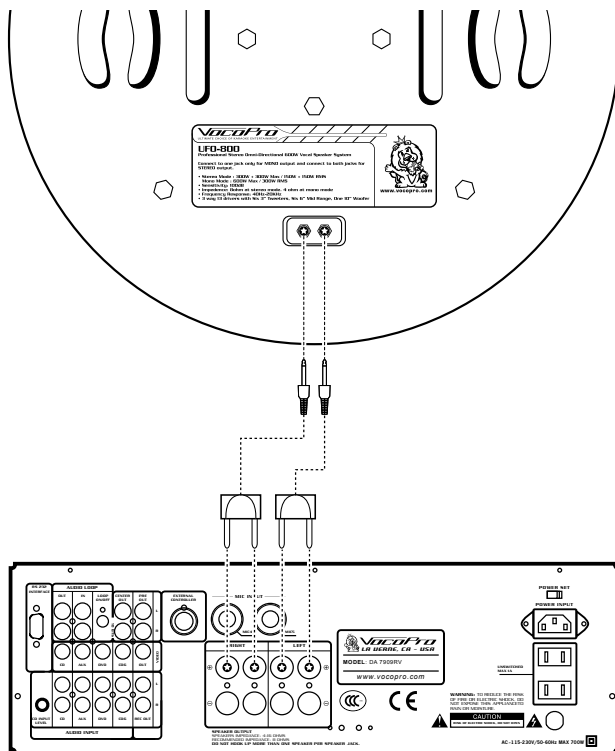
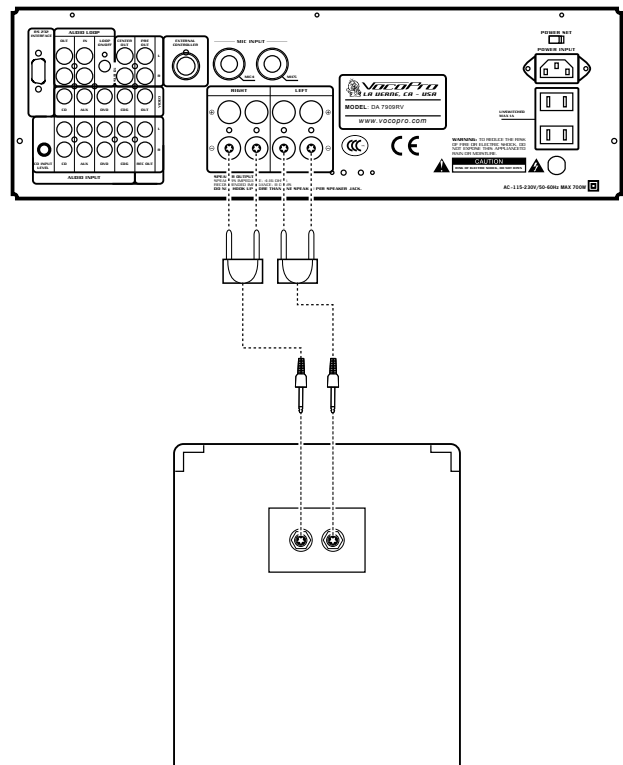
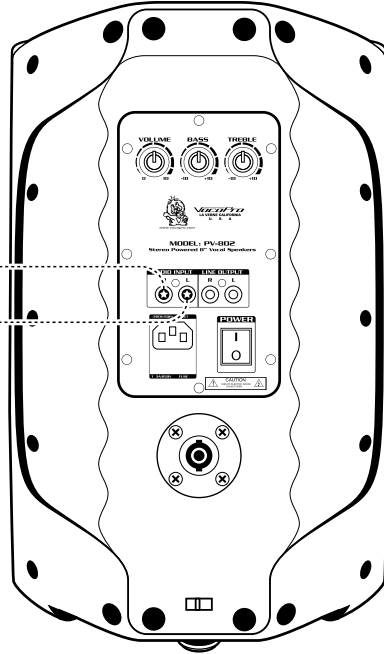


Fig. 2 (DA-7909RV Connected to Vocopro VX-15)



# Getting Connected



## Connecting a Powered Speaker or Amplifier to the Center Output

The Center Output is an unpowered speaker/monitor channel that lets you monitor either music-only or vocals-only. The Center Output requires that you use a powered speaker/monitor (Fig. A) or an amplifier and speaker (Fig.B).

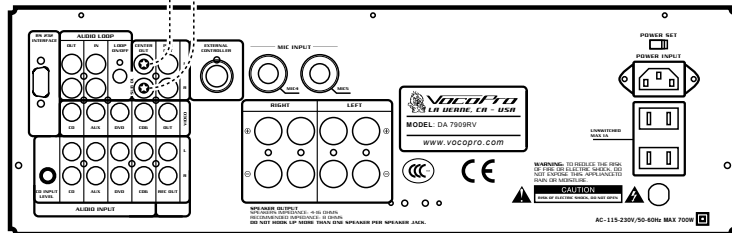
See the operations section for detailed instructions on switching between “Mic-only” and “Music-only” for the Center Output.

What you will need:

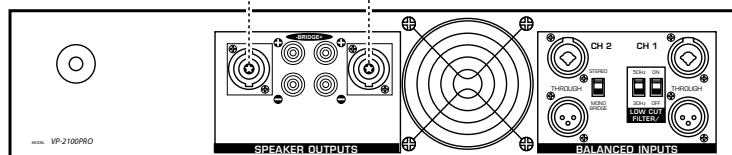
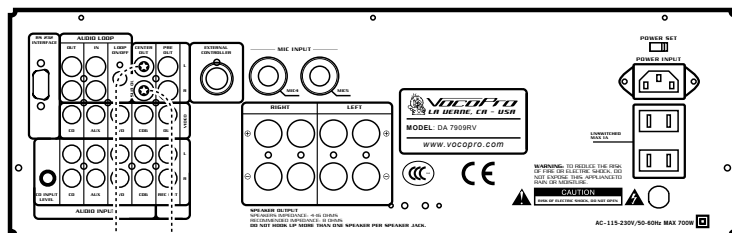
- 1 powered speaker with L/R (red & white) RCA audio inputs
- 1 L/R RCA audio cable

1. Connect one end of the L/R RCA cable to the L/R Center Out RCA jacks on the rear panel of the DA-7909RV
2. Connect the other ends of the L/R RCA cable to the L/R RCA inputs on a powered speaker or amplifier

NOTE: When connecting to an amplifier that does not have RCA inputs, you can use 2 RCA to 1/4” adapters (not included).



DA-7909RV Connected to Vocopro PV-802



DA-7909RV Connected to Vocopro VP-2100

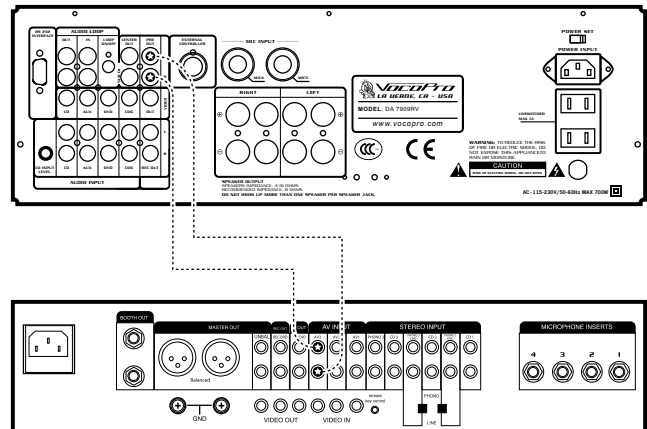


# Getting Connected

## Connecting the Pre-Out to a Mixer or Other Audio Input Device

- 1 mixer or other audio input device with L/R (red & white) RCA audio inputs
- 1 L/R RCA audio cable

1. Connect one end of the L/R RCA cable to the PRE -OUT jacks on the rear panel of the DA-7909RV
2. Connect the other end of the L/R RCA cable to the L/R audio inputs on the mixer.



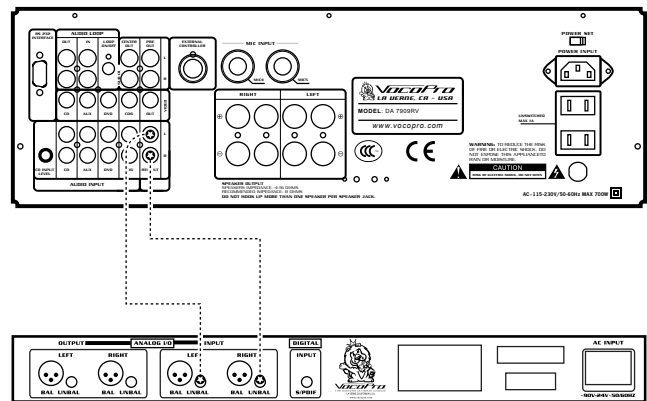
DA-7909RV Connected to Vocopro KJ-7800 PRO

## Connecting to a Recording Device

What you will need:

- 1 recording device with L/R (red & white) RCA audio inputs
- 1 L/R RCA audio cable

1. Connect one end of the L/R RCA cable to the REC OUT jacks on the rear panel of the DA-7909RV
2. Connect the other end of the L/R RCA cable to the L/R audio inputs on a recording device



DA-7909RV Connected to Vocopro CDR-1000

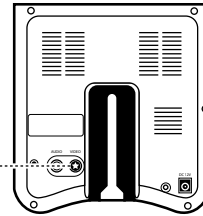
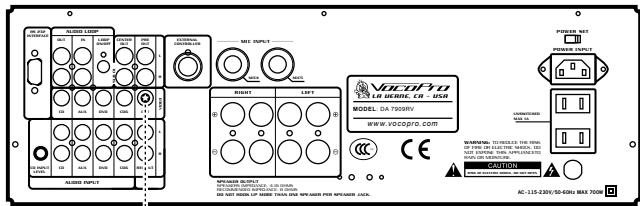
# Getting Connected

## Connecting to a TV / Video Monitor

What you will need:

- TV / Video Monitor with an RCA video input
- 1 RCA video cable (yellow)

1. Connect one end of the RCA video cable to the Video Out on the rear panel of the DA-7909RV
2. Connect the other end of the RCA video cable to the RCA video input on a TV/video monitor



DA-7909RV Connected to Vocopro LTV-5

## Connecting Microphones

The DA-7909RV allows you to connect up to 5 microphones for vocals. There are 3 microphone inputs on the front panel, each with their own volume controls and then 2 additional backup microphone inputs on the rear panel that are also controlled by the Mic 1 & 2 volume controls on the front panel.

What you will need:

- Vocal microphone(s)
- Microphone cable(s) with a 1/4" plug

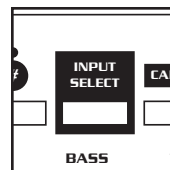
1. Connect one end of the microphone cable to the microphone
2. Connect the other end of the microphone cable to one of the 1/4" microphone inputs on the DA-7909RV
3. Follow steps 1 & 2 for each microphone

See the Operations section in this manual for detailed instructions on adjusting the microphone volume

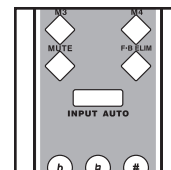
# Basic Operations

## Selecting an A/V Input Channel

There are 5 available A/V input channels to choose from CDG, AUX, DVD, CD and Auto. Press the Input Select button on the front panel or on the remote to switch between input channels. If you select AUTO, the DA-7909RV will automatically detect which input channel is receiving a signal and will switch to that channel.



Unit Detail



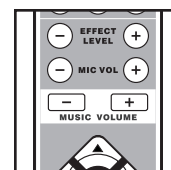
Remote Detail

## Adjusting the Music Volume

- Front Panel: Turn the Music Master Volume control clockwise to increase the volume and counter-clockwise to decrease it.
- Remote Control: Press the Music Volume + button to raise the music volume and the - button to lower it.



Unit Detail



Remote Detail

## Adjusting the Music Tone

The DA-7909RV has Bass and Treble tone controls for fine-tuning the overall music tone. This allows you to precisely adjust the tone before each performance to accommodate the room, stage and other factors that effect tone.

### Tips

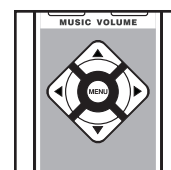
- If the sound is muddy and unclear try decreasing the Bass and/or increasing the treble
- If the sound is more 'tinny', trebly or there is feedback try increasing the Bass and/or decreasing the treble

Remember, every room is different and each CD has different tone. There is no "correct" tone setting. Continue adjusting the tone controls until you find the desired tone.

- Front Panel: Turn the Music Tone controls clockwise to increase the bass or treble and counter-clockwise to decrease it.
- Remote Control:  
Bass - Press the UP arrow 3 times until the display screen says BASS and use the RIGHT arrow to raise the bass and the LEFT arrow to lower it.  
Treble - Press the UP arrow 4 times until the display screen says TREBLE and use the RIGHT arrow to raise the treble and the LEFT arrow to lower it.



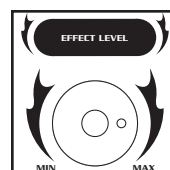
Unit Detail



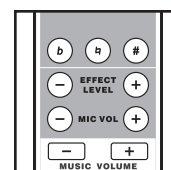
Remote Detail

## Adjusting the Effect Level

- Front Panel: Turn the Effect Level control clockwise to increase the volume and counter-clockwise to decrease it.
- Remote Control: Press the Effect Level + button to raise the music volume and the - button to lower it.



Unit Detail

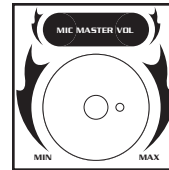


Remote Detail

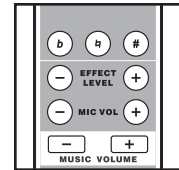
# Basic Operations

## Adjusting the Master Microphone Volume

- Front Panel: Turn the Mic Master Volume control clockwise to increase the volume and counter-clockwise to decrease it.
- Remote Control: Press the Mic Vol + button to raise the music volume and the - button to lower it.



Unit Detail

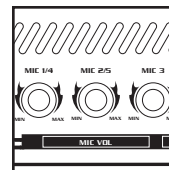


Remote Detail

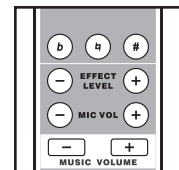
## Adjusting the Individual Microphone Volumes

You can adjust the individual volumes of each microphone channel using the MIC 1/4, MIC 2/5 and MIC 3 volume knobs on the front panel.

NOTE: MIC 1/4 controls the volume for mic input 1 on the front panel and mic input 4 on the rear panel. MIC 2/5 controls the volume for mic input 2 on the front panel and mic input 5 on the rear panel.



Unit Detail



Remote Detail

## Adjusting the Mic Tone

The DA-7909RV has Bass and Treble tone controls for fine-tuning the overall microphone vocal tone. This allows you to precisely adjust the tone before each performance to accommodate the room, stage and other factors that effect tone.

### Tips

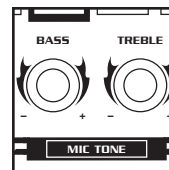
- If the vocals are muddy and unclear try decreasing the Bass and/or increasing the treble
- If the vocals are more 'tinny', trebly or there is feedback try increasing the Bass and/or decreasing the treble

Remember, every room is different and each singer and microphone has different tone. There is no "correct" tone setting. Continue adjusting the tone controls until you find the desired tone.

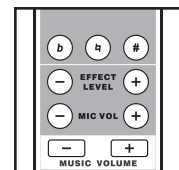
- Front Panel: Turn the MIC Tone controls clockwise to increase the bass or treble and counter-clockwise to decrease it.
- Remote Control:

Bass - Press the UP arrow 1 time until the display screen says MIC B and use the RIGHT arrow to raise the mic bass and the LEFT arrow to lower it.

Treble - Press the UP arrow 2 times until the display screen says MIC T and use the RIGHT arrow to raise the mic treble and the LEFT arrow to lower it.



Unit Detail



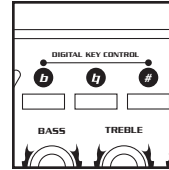
Remote Detail

# Basic Operations

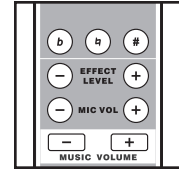
## Using Digital Key Control

Digital Key Control allows you to adjust the musical key to fit any singer's vocal range. Change the key by using the Digital Key Control buttons on the front panel or on the remote control.

- b (flat) - Lowers the musical key
- $\natural$  (natural) - Returns to the original key
- # (sharp) - Raises the musical key



Unit Detail



Remote Detail

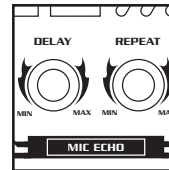
## Controlling the Vocal Echo

Adding Echo to vocals gives them a more professional and unique sound. The DA-7909RV lets you adjust the Delay and Repeat for the echo effect.

- REPEAT adjusts the interval repetition of the echo effect. As more REPEAT is applied to the ECHO effect, more echo intervals will occur prior to fading out. Turn clockwise to increase the REPEAT level and counter-clockwise to decrease the REPEAT level.
- DELAY adjusts the total beginning and ending length of each echo interval. As more DELAY is applied to the ECHO effect, each ECHO interval will.
- Front Panel: Turn the MIC ECHO controls clockwise to increase the bass or treble and counter-clockwise to decrease it.
- Remote Control:

DELAY - Press the UP arrow 5 times until the display screen says DELAY and use the RIGHT arrow to increase the Delay and the LEFT arrow to decrease it.

REPEAT - Press the UP arrow 6 times until the display screen says REPEAT and use the RIGHT arrow to increase the Repeat and the LEFT arrow to decrease it.



Unit Detail

# Basic Operations

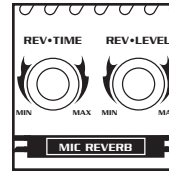
## Controlling the Vocal Reverb

Adding Reverb to the vocals gives them a more refined and pro-quality sound. The DA-7909RV lets you adjust the TIME and LEVEL for the reverb.

- TIME adjusts how long the reverb holds out for.
- LEVEL controls how much reverb is present in the microphone vocal signal.
- Front Panel: Turn the MIC REVERB controls clockwise to increase the bass or treble and counter-clockwise to decrease it.
- Remote Control:

TIME - Press the UP arrow 7 times until the display screen says REV T and use the RIGHT arrow to increase the Time and the LEFT arrow to decrease it.

LEVEL - Press the UP arrow 8 times until the display screen says REV V and use the RIGHT arrow to increase the Level and the LEFT arrow to decrease it.



Unit Detail

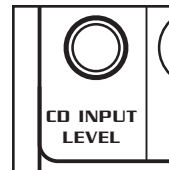
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## Adjusting the CD (AV Input channel) Input Level

The control for adjusting the CD input level is on the rear panel.

NOTE: This only controls the level for the player that is connected to the CD A/V channel.

Turn clockwise to raise the CD input level and counter-clockwise to lower it.



Unit Detail

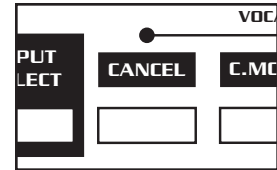
# Advanced Operations

## Using the CANCEL Button to Cancel Vocals on Multiplex CD+G Discs

The Cancel button on the front panel cycles through 4 available multiplex settings:

- L + R: Standard stereo mode
- L + L: Left side only
- R + R: Right side only
- L - R: Vocal Eliminator (Non-multiplex discs)

NOTE: This setting only works on Multiplex formatted CD+G karaoke discs which are designed with vocals on one side and music on the other.

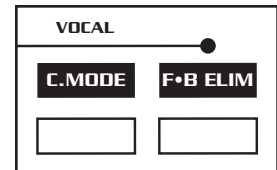


Unit Detail

## Locking/Unlocking the Tone and Effect Controls

The DA-7909RV allows you to lock the Music Bass and Treble controls, Microphone Bass and Treble controls, Mic Echo controls and Mic Reverb controls to prevent them from being changed accidentally or without your consent.

1. Press the C-MODE button FIVE TIMES
2. The display screen will say UNLOCKED if it is unlocked or LOCKED if it is locked
3. Use the Music Master Volume control to enter the password
4. Press the FB ELIM button on the front panel to confirm
5. The display panel will now say LOCKED if it is now locked and UNLOCKED if it is now unlocked.



Unit Detail

## Setting the Feedback Eliminator (FB ELIM)

The Feedback Eliminator is designed to reduce or eliminate any whistling or feedback that would come from the microphones. There are three available Feedback Eliminator strengths:

- 0 (off) - Turns the Feedback Eliminator off
- 1 (weak) - For light feedback
- 2 (medium) - For medium feedback
- 3 (strong) - For strong feedback

To cycle through the different strengths

1. Press the FB ELIM button on the front panel or on the remote control until the display screen shows your desired setting.
2. To turn off, press the FB ELIM button until the display screen says 0.

# Advanced Operations

## Storing Custom Effects Settings (M1, M2, M3, M4)

The DA-7909RV allows you to set up to 4 custom effects settings using the M1, M2, M3, M4 memory buttons on the remote control.

1. Adjust the effects settings to your desired specifications.
2. Hold down the CANCEL button on the front panel for 10 seconds. The display screen will say SAVE TO X
3. Press the memory button on the remote control (M1, M2, M3 or M4) that you want to save this specific setting to. NOTE: Saving the new setting to a memory slot will erase the previous setting to that slot.
4. Follow steps 1-3 for each memory slot.

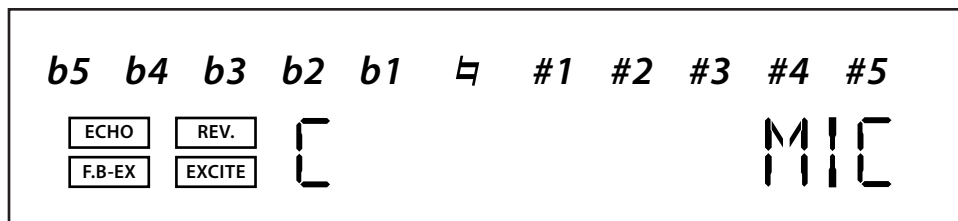
## Resetting the Effect Settings to the Original Factory Settings

1. Hold down the **↵** button on the front panel. NOTE: The effects must be reset using the **↵** button on the front panel, not on the remote control.
2. The display screen will say RESET once the original factory settings have been restored

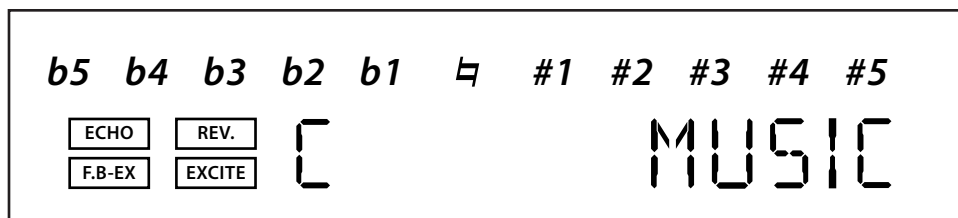
## Setting the CENTER OUT Output

The CENTER OUT channel can be set to either play microphone vocals only or music only. To change the CENTER OUT:

1. Press the C. MODE button on the front panel ONCE.
2. Use the MUSIC MASTER VOLUME control on the front panel to switch between MUSIC and MIC which will be displayed on the display panel. Select MUSIC for music-only or MIC for microphone-only.



Detail of Front Panel (Mic Only)



Detail of Front Panel (Music Only)

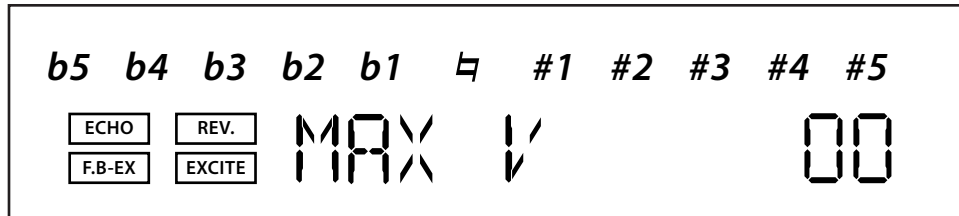


# Advanced Operations

## Setting the Maximum Music Volume

The DA-7909RV allows you to set the maximum volume level that the music can be turned to.

1. Press the C. MODE button on the front panel TWICE.
2. Use the MUSIC MASTER VOLUME control on the front panel to increase and decrease the maximum music volume which will be displayed on the display panel.

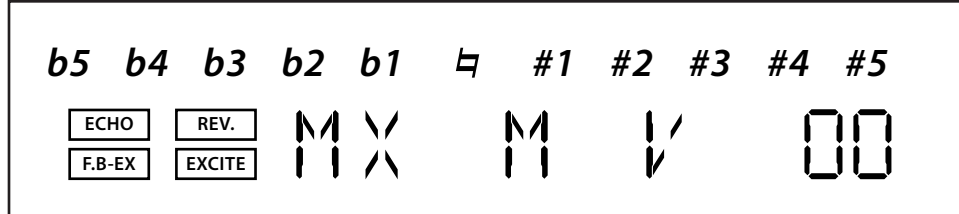


Detail of Front Panel

## Setting the Maximum Microphone Volume

The DA-7909RV allows you to set the maximum volume level that the music can be turned to.

1. Press the C. MODE button on the front panel THREE TIMES.
2. Use the MIC MASTER VOLUME control on the front panel to increase and decrease the maximum microphone volume which will be displayed on the display panel.



Detail of Front Panel

## Setting a New Password

1. Press the C-MODE button on the front panel FOUR TIMES. This display panel will show PASSWORD XXX.
2. Use the MUSIC MASTER VOLUME control on the front panel to enter the factory preset password "127" or the last password that you set.
3. Press the FB ELIM button. The display panel will show N PASSWORD XXX
4. Use the MUSIC MASTER VOLUME control on the front panel to enter the new password.
5. Press the FB ELIM button again to confirm.
6. When the display shows PASSWORD SET, the new password is set.

NOTE: Be sure to write down the new password. If you do forget the new password, you can use the factory password "127" at any time to set a new password.

# Troubleshooting

## **There Is No Power**

- Make sure the power plug is firmly connected to the outlet or surge protector/power strip.
- If using a surge protector/power strip, make sure it is plugged in and turned on.

## **Power Is On But There Is No Sound**

- Make sure the music and microphone volumes are turned up loud enough.
- Make sure the DA-7909V is set to the correct A/V input channel (CD, AUX, DVD, CDG).
- Make sure the speaker cables are firmly connected and connected correctly.
- Make sure the LOOP ON/OFF button on the rear panel is set to OFF (the light is off) if there is no effect unit connected to the AUDIO LOOP channels.

## **The Vocals Are Cutting In And Out**

- Make sure the speaker cable is not loose or bad. Change it if necessary.
- Make sure the microphone cable is firmly connected to the microphone and the microphone inputs.
- Try using a different microphone.

## **There Is Music But No Microphone Vocals**

- Make sure the microphone is not turned off.
- Make sure the microphone cable is not disconnected or damaged.
- Make sure the microphone master volume or individual microphone volume controls are turned up to the proper level.

## **There Is No Video**

- Make sure the video cable is firmly connected and not damaged.
- Make sure the DA-7909V is set to the correct A/V input channel (CD, AUX, DVD, CDG).
- Make sure the TV/Video monitor is set to the correct input.

## **There Is No Echo**

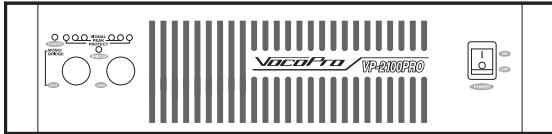
- Make sure the Effect Level control on the front panel is turned up loud enough.

## **The Remote Control Is Not Working**

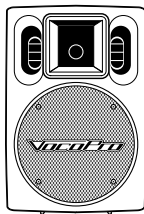
- The DA-7909RV's power is not on.
- Make sure the batteries are inserted correctly and not out of power.
- Make sure there is nothing blocking the view between the remote control and the remote sensor on the front of the DA-7909RV.

# Featured Vocopro Products

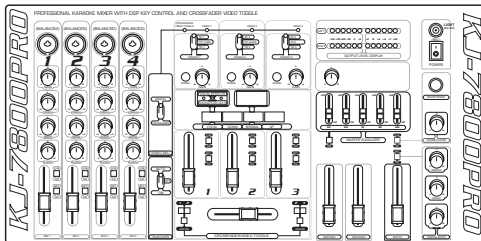
Here are some of the other great Vocopro products featured in this manual. You can find more information at our website: [www.vocopro.com](http://www.vocopro.com)



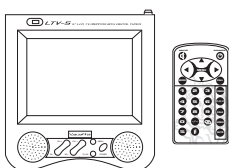
**VP-2100 PRO**  
2000W Professional Digital  
Switching Power Amplifier



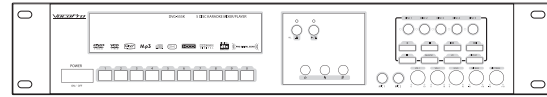
**PV-802**  
Professional Stereo  
400W Powered  
Vocal Speakers



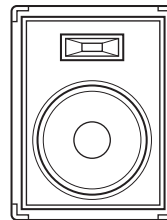
**KJ-7800 PRO**  
7 Channel Pro KJ/DJ/VJ Mixer  
World's First Mixer With  
Crossfader & Video Toggle in One



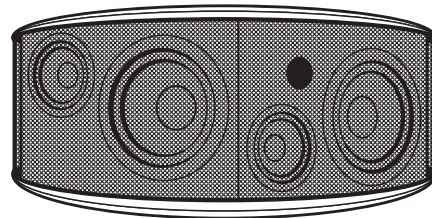
**LTV-5**  
5" LCD Monitor  
with Digital Tuner



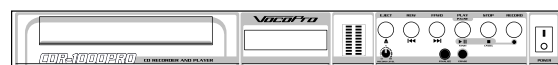
**DVG-555K**  
19" Rack Mountable 5 Disk  
Progressive Scan, Digital Key Control  
DVD/CD+G/VCD Karaoke Changer



**VX-15**  
Professional 15"  
Vocal Speaker



**UFO-800**  
Omni-directional Speaker



**CDR-1000 PRO**  
Professional Single Space  
CD Recorder/Player



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