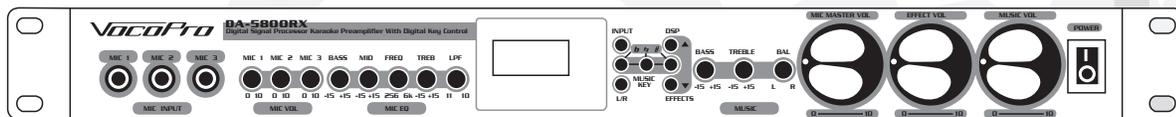
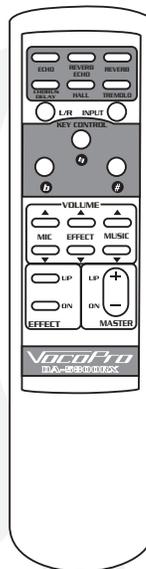


# VocoPro

THE SINGER'S ULTIMATE CHOICE



## DA-5800RX

Digital Signal Processor Karaoke Preamplifier  
With Digital Key Control

# 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.

# 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:

### 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:

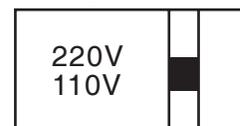
Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

## 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.

## 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.





**Welcome.**



And Thank you for purchasing the **DA-5800RX** 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

**VocoPro Company Email Directory**

**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** \_\_\_\_\_

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

## **The following noises can be dangerous under constant exposure:**

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

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# DA-5800RX

## Specifications and Features

### Features

- 24 Bit high-speed DSP digital chip
- 48KHz sampling rate
- 60 internal effects each with LPF adjustment for added control and customization.
- Vocal tonal enhancer for optimal vocal quality
- Sonic Enhancer improves the music quality.
- 17-Step Digital Key Control
- 115/230V switchable for worldwide use
- Full-function remote control
- Rack-mountable, requiring only 1 RU of rack-space.

### Effect list

- Hall (5)
- Delay (24)
- Reverb (7)
- Reverb + Echo (16)
- Chorus + Delay
- Chorus + Reverb
- Echo
- Tremolo
- Exciter

### Technical Specifications

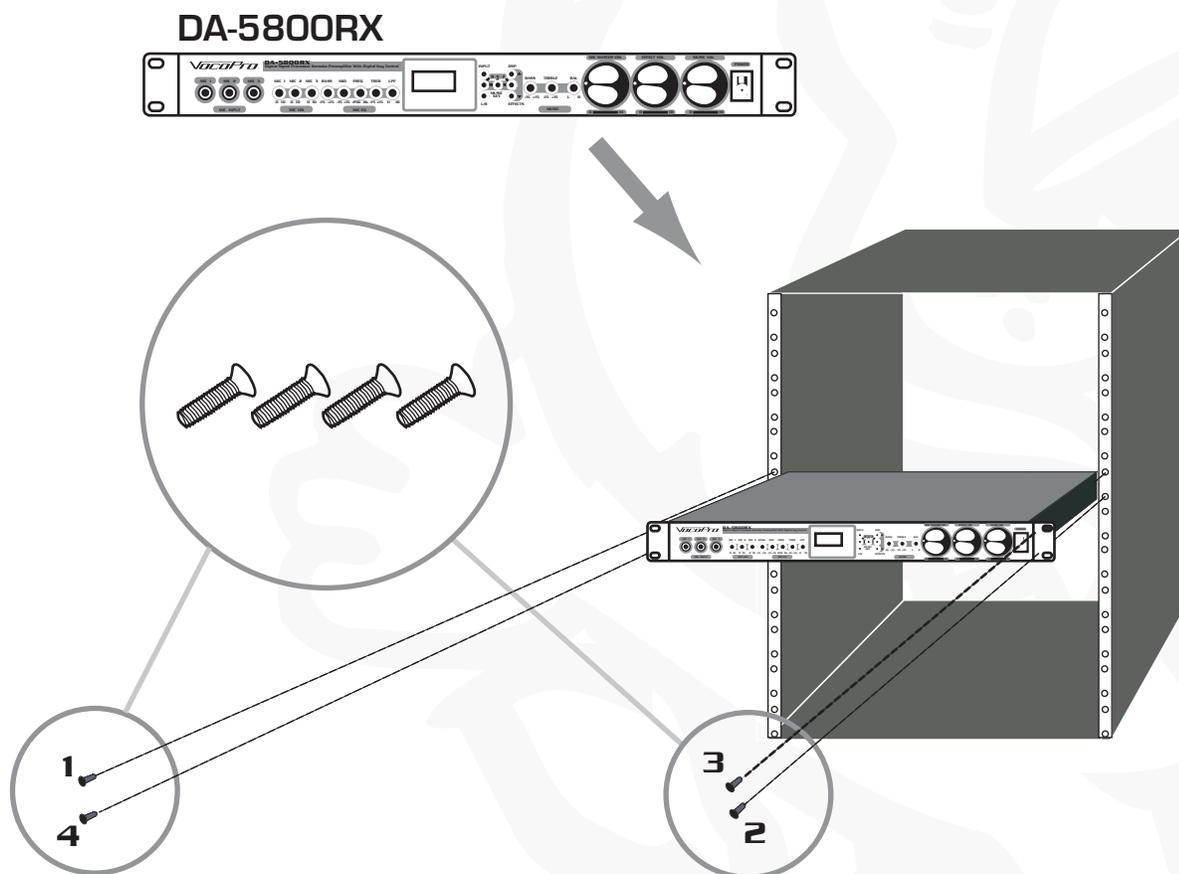
S/N Ratio .....	> 90dB
Input Sensitivity Mic.....	- 45dB
Input Sensitivity Line.....	0dB
THD .....	<0.1%
Input Impedance Mic .....	Single 10K, double 20K
Input Impedance line:.....	0dB
Frequency Response .....	20Hz - 20KHz; $\pm 1.5$ dB
Music balance.....	100Hz / $\pm 15$ dB; HF 10KHz / $\pm 15$ dB
MIC balance .....	<b>LF</b> 100HZ / $\pm 15$ dB; <b>MF</b> 250Hz - 6KHz / $\pm 15$ dB; <b>HF</b> 10KHz / $\pm 15$ dB
Power Consumption.....	5W
Power .....	AC230V / 115V; 50/60Hz
Dimensions.....	19" (W) x 10" (D) x 1.8" (H)

## Mounting the DA-5800RX

Use the DVG-909K's built-in mounting brackets to mount it into a 19" rack case. The DA-5800RX player requires 1 RU (1.75") of available rack space.

You Will Need:

- 19" Rack Case with at least 1 RU (1.75") available
- 4 Mount Screws
- Phillips-head Screwdriver



# Getting Connected

## Connecting A/V devices to the DA-5800RX

The DA-5800RX has inputs for connecting up to three audio/video input devices: DVD in, CDG in and AUX in (fig. A). The input button switches between these three inputs (Fig. B).

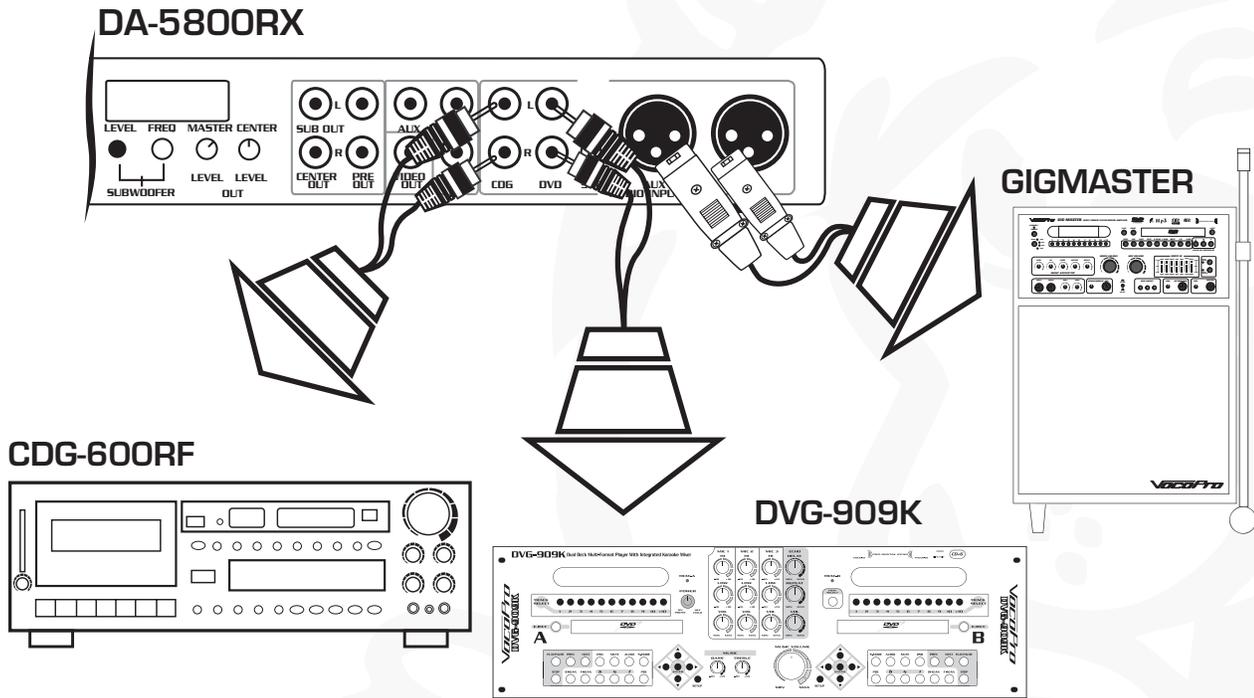


FIG A

### Input Select Button

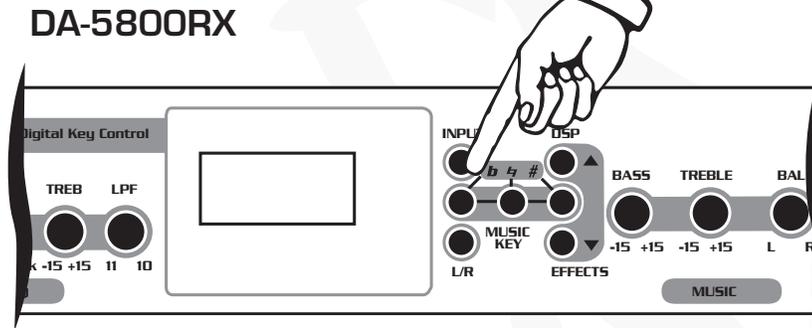
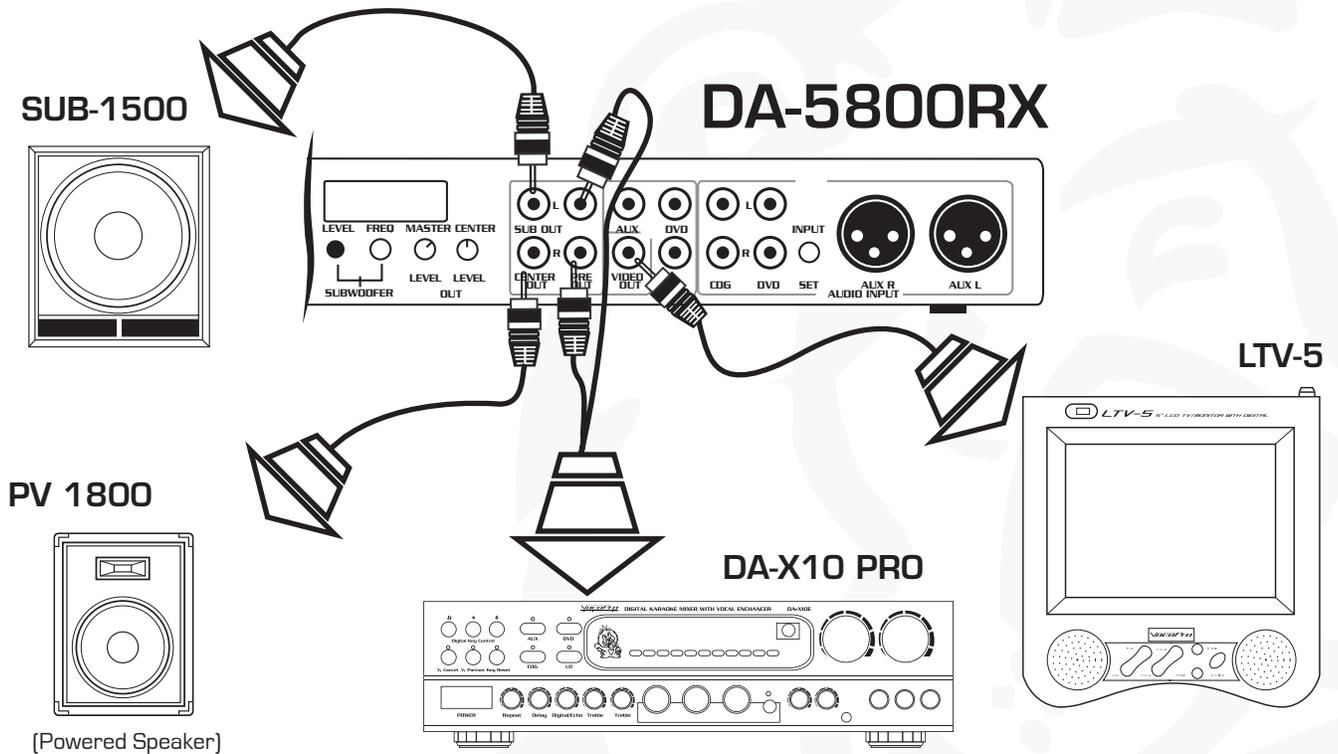


FIG B

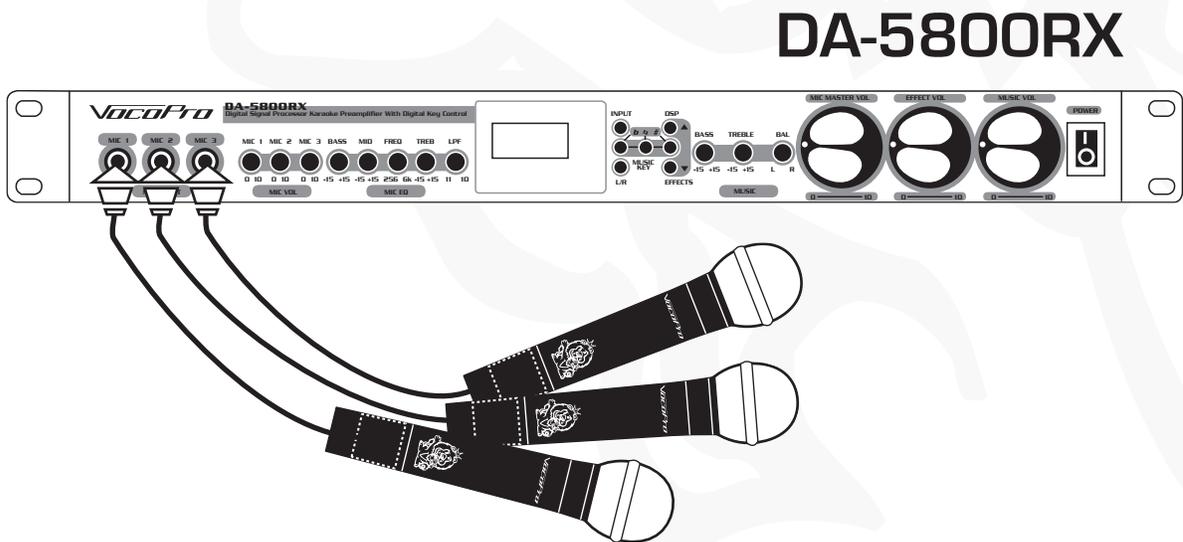
## Getting Connected cont.

Outputting audio and video from the DA-5800RX



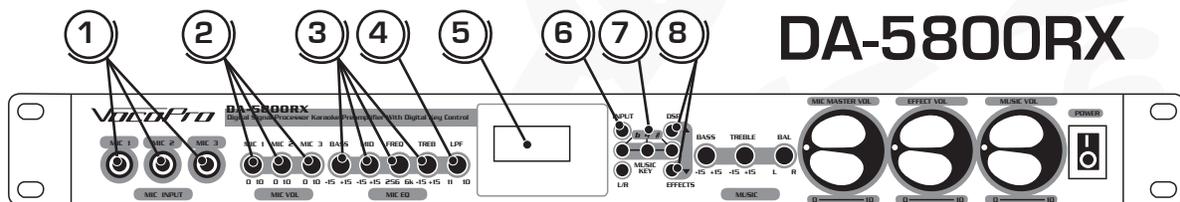
## Connecting microphones to the DA-5800RX

Connect up to three microphones to the MIC 1, MIC 2, and MIC 3 1/4" inputs using a mic cable with a 1/4" jack.



# Controls and Functions

## Front Panel

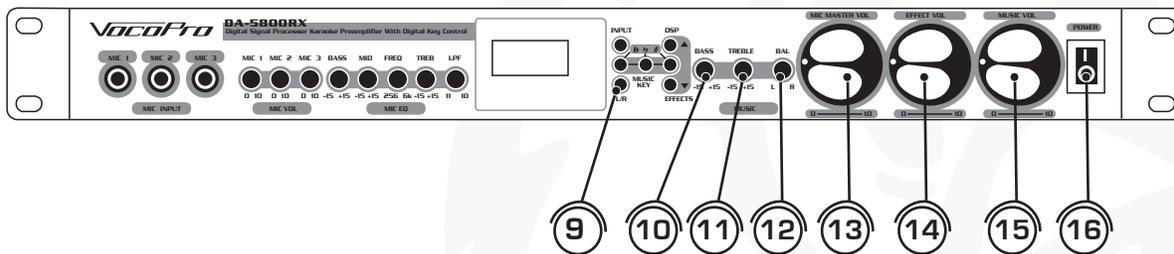


1. **Microphone inputs** - Connect microphones here using 1/4" microphone cables.
2. **Microphone Volume** controls - Adjusts the volume for each individual microphone channel.
3. **Microphone EQ** controls - Optimize the vocal tone using the mic **EQ**.
  - a. **Bass level** - Adjusts the Bass level of the mic channels.
  - b. **Mid level** - Adjusts the Mid frequency level of the mic channels.
  - c. **Mid Frequency** - Changes the mid frequency.
  - d. **Treble level** - Adjusts the Treble level of the mic channels.
4. **LPF** button - The Low-Pass Filter allows you to fine-tune the low frequency of the vocals.
5. **LCD Display** - Displays the current effect, the active input channel and the audio output setting (**L, R, or S**).
6. **Input selector** button - Switch between the three input channels **CDG, DVD, and AUX**.
7. **Digital Key Control** - These buttons direct the **DIGITAL KEY CONTROLLER** to shift the **KEY** of the **SOURCE MUSIC** either **UP** or **DOWN**.
  - # - Raises the musical key a half step each time it is pressed.
  - L - Resets the musical key to it's original key.
  - b - Lowers the musical key a half step each time it is pressed.
8. **Effect Up and Down** buttons - Searches up and down through the list of effects.

# Controls and Functions

## Front Panel

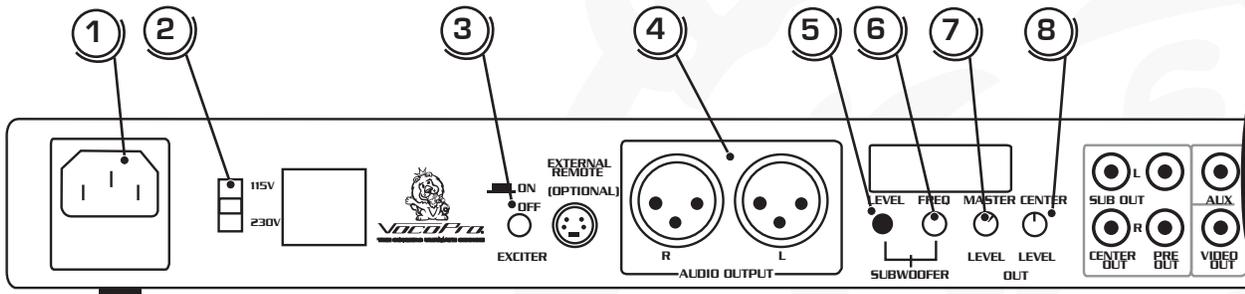
# DA-5800RX



9. **L/R button** - These buttons will cycle between three **AUDIO** playback modes: **STEREO L/R**, **MONO L/L** and **MONO R/R**. In Stereo mode, audio playback is standard **L/R** audio. In **L/L** mode, the right channel is removed, and replaced with a duplicate left channel. In **R/R** mode, the left channel is removed, and replaced with a duplicate right channel.
10. **Music Bass level** - Adjusts the Bass level of the music channel.
11. **Music Treble level** - Adjusts the Treble level of the music channel.
12. **Music Balance control** - Adjusts the left and right balance of the music output.
13. **Master Mic volume** - Adjusts the overall volume of the three mic channels.
14. **Effect volume** - Adjusts the effect volume, without affecting the master volume.
15. **Music volume** - Adjusts the master input volume, allowing you to control the volume of the connected **CD**, **CDG**, **DVD** players.
16. **Power switch** - Turns the **DA-5800RX** on and off.

# Controls and Functions

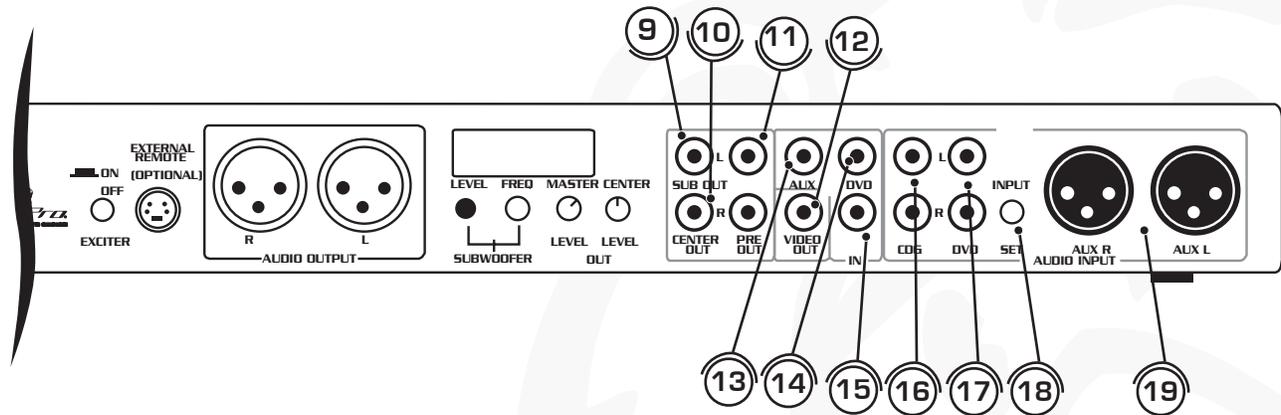
## Rear Panel



- 1. AC input** - Connect the female end of the power cord here.
- 2. Voltage selector** - Selects between 115V and 230V power settings.
- 3. Exciter On/Off** - Enhances the music tone.
- 4. Audio Outputs (XLR)** - Master output using XLR cables.
- 5. Subwoofer level control**- Adjust the level of the subwoofer connected to the SUB OUT.
- 6. Subwoofer frequency control**- Change the frequency of the subwoofer connected to the SUB OUT.
- 7. Master Output level** - Adjusts the master output volume
- 8. Center Output level** - Adjusts the volume of the monitor connected to the CENTER OUT.

# Controls and Functions

## Rear Panel



9. **Subwoofer output** (RCA) - Connect to a powered subwoofer using an RCA cable.
10. **Center output** (RCA) - Connect to an additional monitor using an RCA cable
11. **L/R Pre output** (RCA) - Connect to a mixer, amp, TV etc. using L and R (white & red) RCA cables.
12. **Video output** (RCA) - Outputs video to a TV or monitor using an RCA cable.
13. **AUX video input** (RCA) - Connect an A/V output device's (player, etc.) video output here using an RCA cable.
14. **DVD video input** (RCA) - Connect a DVD player's or other A/V device's video output here using an RCA cable.
15. **CDG video input** - (RCA) Connect a CDG player's or other A/V device's video output here using an RCA cable.
16. **CDG audio L/R** inputs (RCA) - Connect a CDG player's or other A/V device's L/R audio output here using an RCA cable.
17. **DVD audio L/R** inputs (RCA) - Connect a CDG player's or other A/V device's L/R audio output here using an RCA cable.
18. **INPUT SET** - Adjusts the input volume level.
19. **AUX audio inputs** (XLR) - Connect an A/V output device's (player, etc.) L/R audio output here using an RCA cable.

# Controls and Functions

## Remote Control

**1. Direct Effect** buttons - These buttons jump directly to a specific effect.

- a. **Echo** - Turns on Echo
- b. **Reverb Echo** - Turns on Reverb with Echo
- c. **Reverb** - Turns on Reverb
- d. **Chorus Delay** - Turns on Chorus with Delay
- e. **Hall** - Turns on Hall reverb
- f. **Tremolo** - Turns on the Tremolo effect

**NOTE:**

These effects cannot be accessed by using the Effect Up and Down buttons.

**2. L/R** button - These buttons will cycle between three AUDIO playback modes: STEREO L/R, MONO L/L and MONO R/R. In Stereo mode, audio playback is standard L/R audio. In L/L mode, the right channel is removed, and replaced with a duplicate left channel. In R/R mode, the left channel is removed, and replaced with a duplicate right channel.

**3. Input selector** button - Switch between the three input channels CDG, DVD, and AUX.

**4. Digital Key Control** - These buttons direct the DIGITAL KEY CONTROLLER to shift the KEY of the SOURCE MUSIC either UP or DOWN.

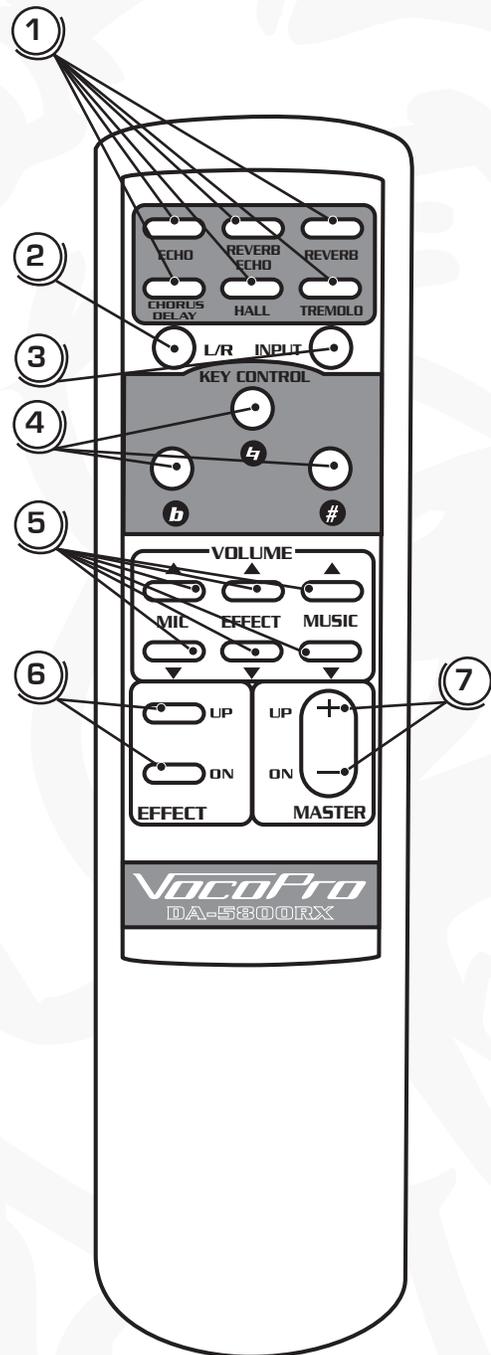
- # - Raises the musical key a half step each time it is pressed.
- ♯ - Resets the musical key to it's original key.
- b - Lowers the musical key a half step each time it is pressed.

**5. Volume** controls

- a. **Mic volume** - Adjusts the overall volume of the three mic channels
- b. **Effect volume** - Adjusts the effect volume, without affecting the master volume
- c. **Music volume** - Adjusts the master input volume, allowing you to control the volume of the connected CD, CDG, DVD players.

**6. Effect Up and Down** buttons - Searches up and down through the list of effects.

**7. Master Volume** - Adjusts the Mic and Music master volumes simultaneously.



# Basic Operations

## Turning on the DA-5800RX

Be sure the DA-5800RX is plugged into a power outlet and switch the power button to ON.

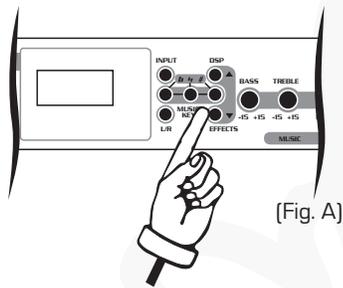
## Switching between AV input channels

Press the INPUT button on the front panel of the DA-5800RX. This will switch between the CDG AV inputs, DVD AV inputs and AUX AV inputs.

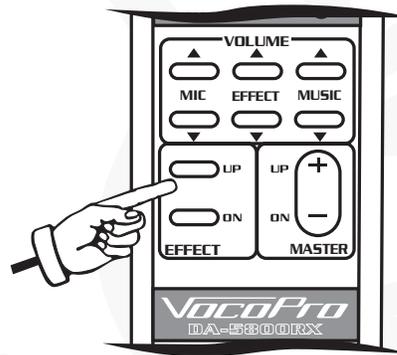
NOTE: Only one input can be active at a time.

## Choosing effects

Use the EFFECT UP and EFFECT DOWN [Fig. A] to scroll through the DA-5800RX's available 55 effects or use effect buttons [Fig. B] on the remote to jump directly to specific effects.



[Fig. A]

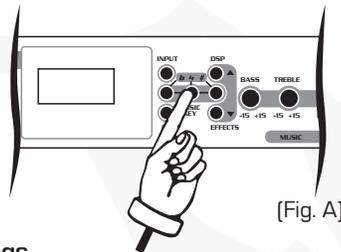


[Fig. B]

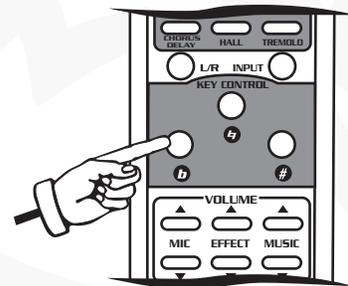
## Using Digital Key Control

With Digital Key Control you can raise and lower the musical key of CDs, CDGs, Mp3s, etc. in order to match the vocal range of the singer. This can be done either by using the Digital Key Control buttons on the front panel [Fig. A] or on the remote control [Fig. B].

- b** - lowers the key a 1/2 step
- h** - returns to the original key
- #** - raises the key a 1/2 step



[Fig. A]



[Fig. B]

## Removing the Vocals from CD+G songs

NOTE: Vocals can only be removed from Multiplex formatted CD+G discs. Make sure the disc you are using is Multiplex. On Multiplex discs the vocals are recorded on one channel and the music on the other.

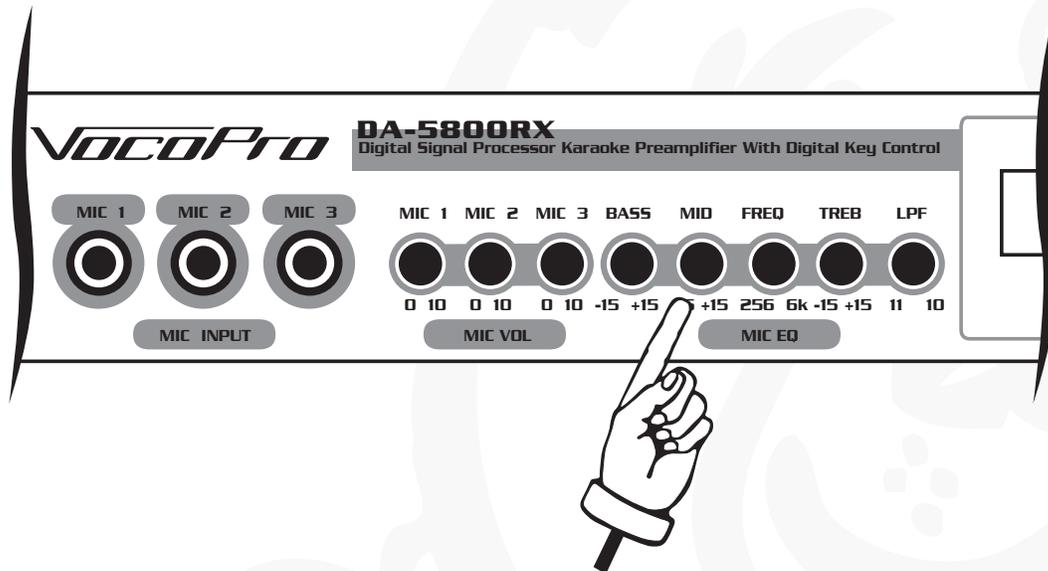
Press the L/R button on the front panel to switch between the following audio settings:

- Left [L] - Plays the left channel only.
- Right [R] - Plays the right channel only.
- Stereo [S] - Plays both channels in standard stereo output mode.

## Basic Operations

### Using the Microphone Equalizer

First set all of the controls to the center position ( $\pm 0$ ). While somebody is speaking or singing through the mic, adjust the EQ controls until the desired tone is found.



## Troubleshooting

### **There is no power**

- Make sure the power cord is firmly connected to the power outlet and the AC in on the rear panel.
- If using a power strip/surge-protector, make sure that it is plugged in and switched on.

### **There is no sound or video**

- Make sure the DA-5800RX is set to the correct input
- Make sure the volume is turned up, including the Master OUT on the rear panel
- Make sure everything is connected firmly and properly
- Make sure there are no defective cables
- Make sure all of your components are turned on

# ***VocoPro***

ULTIMATE CHOICE OF KARAOKE ENTERTAINMENT



Vocopro 2005  
V 1.1

W [WWW.VOCOPRO.COM](http://WWW.VOCOPRO.COM)