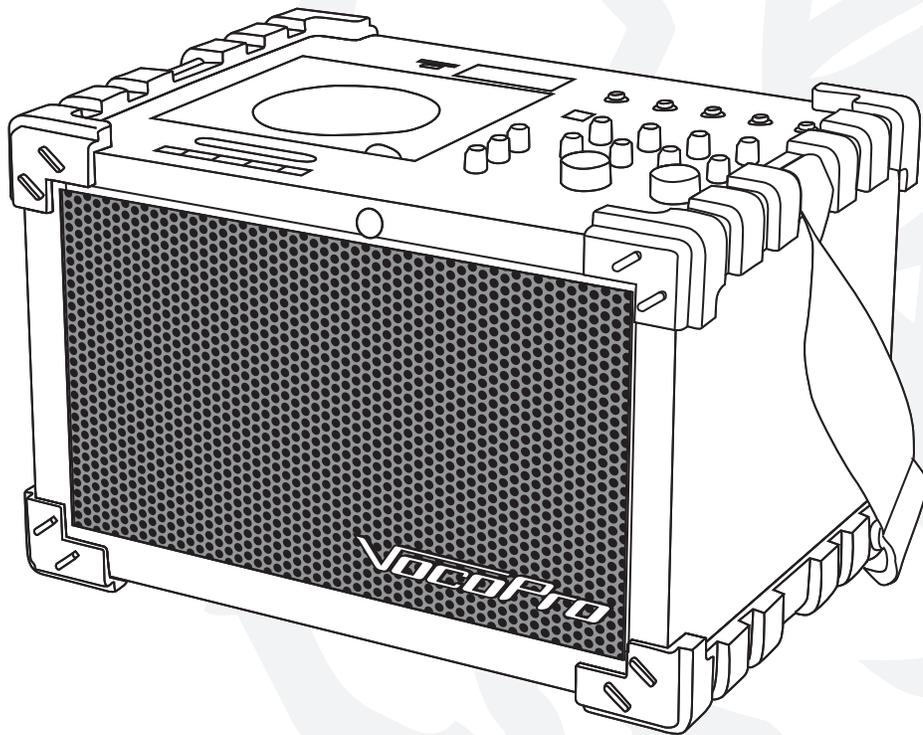


VocoPro®

PROFESSIONAL VOCAL SYSTEMS™



o w n e r ' s m a n u a l

JAMCUBE

4-Channel Portable P.A. System with Multi-Format Player

Table of Contents

FCC Information	3
Listening for a Lifetime.....	4
Safety Instructions.....	5
Welcome	6
Features and Specifications	7
Before Getting Started	8
Getting Started	9
Getting Connected	
Connecting to an Mp3 Player	11
Connecting an External Player	11
Connecting to an External Powered Speakers	11
Connecting a Microphone or Instrument.....	12
Connecting a Digital Receiver.....	12
Connecting a TV or Monitor.....	13
Descriptions and Functions	
Front/Top Panel.....	14
Rear Panel	17
Remote Control.....	18
SDR-3 (optional accessory)	21
VM-1 Receiver (optional accessory).....	23
VM-1 Microphone (optional accessory)	25
General Operations.....	26
System Setup Menu	29
Troubleshooting	32

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 ensure 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

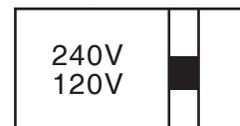
1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent 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

-Information courtesy of the Deafness Research Foundation

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** - Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.)
- 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** - Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
 - 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. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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 dry 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

Thank you for purchasing the **JAMCUBE** from VocoPro, your ultimate choice in vocal entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of vocal 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 E-mail 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** 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, the singer's ultimate choice.

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

JAMCUBE (4-Channel Portable P.A. System with Multi-Format Player)

Your Portable P.A. On The Go!

Need a “to go” P.A. system that’s easy to transport and set up? Vocopro’s all new JamCube has got you covered!

The JamCube is lightweight, full-featured, and with its adjustable shoulder strap, super easy to transport. The system is built around a four-channel mixer that can accommodate both microphones & instruments. its built-in media player will play just about every kind of disc out there, including CD, MP3, DVD, CDG, and Photo-CD. If you prefer to tote your media on a portable storage device, the onboard USB port and SD card slot can access your files. You can even add a two-channel wireless microphone module and a digital SD recorder. (Both included on JamCube 2 package.)

It’s the dream machine for program directors, traveling pastors & aerobic instructors. So take along the JamCube on your next trip and fill the room with some kicking sounds.

Features:

- 100W (MAX) of Power for a Loud & Clear Sound with Heavy Bass
- Full Featured Media Player Takes Disc, USB & SD cards and plays CD, MP3, DVD, CDG, Photo CD
- Remote Control Operates Disc Player and Media Player
- Module Slots Ready for Wireless System and Digital Recorder
- 4 Channel Inputs with Mic/Line Switch
- Echo, Repeat, and Delay Controls
- Independent Music and Mic Master Volume Controls Each with Treble and Bass Control
- 1/4” Headphone Jack
- 1/8” Audio Input Optimized for iPod®, iPad® and Computers*
- RCA Stereo Input Jacks
- RCA A/V Output Jacks
- 120/240V Switch for Worldwide Use
- S-VIDEO and Component Video Outputs
- Durable Plastic Shock Absorbers Help to Prevent Damage to the Unit
- Carrying Strap Built-in

*iPod® and iPad® are registered trademarks of Apple Inc.

Before Getting Started

Thank you for purchasing the JAMCUBE system. The JAMCUBE will provide years of reliability and high quality entertainment for you if used properly. Please read this manual carefully before using your JAMCUBE to ensure best performance.

Unpacking the JAMCUBE:

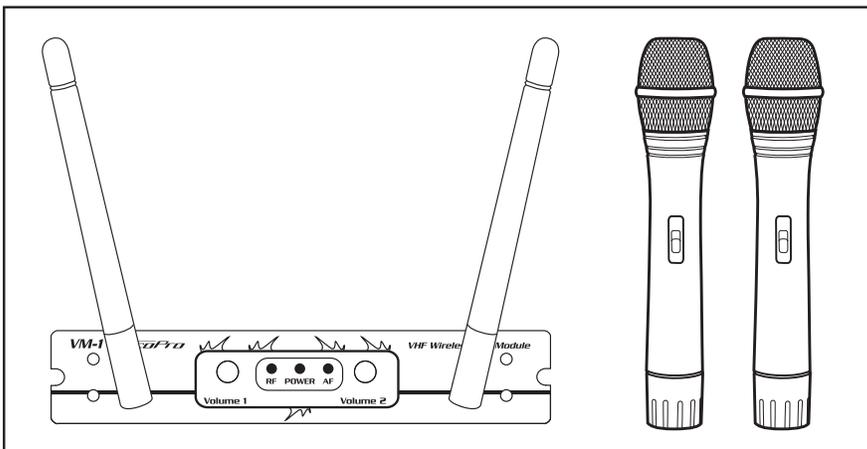
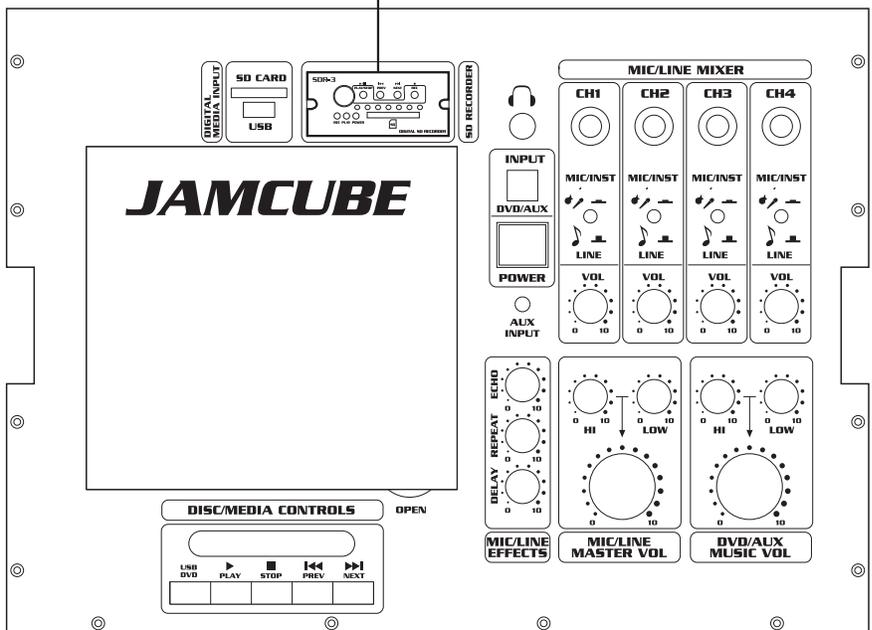
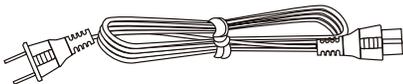
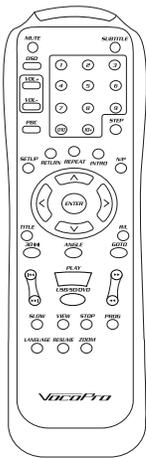
Carefully remove the JAMCUBE from its carton. It is recommended that you store the original packaging materials in case you need to ship this equipment for any reason.

Before setting up, please make sure you have the following parts and components included with your JAMCUBE:

ITEMS:

- 1 JAMCUBE
- 1 AC Power Cable
- 1 Remote Control

Optional (included only on JamCube 1 and JamCube 2)



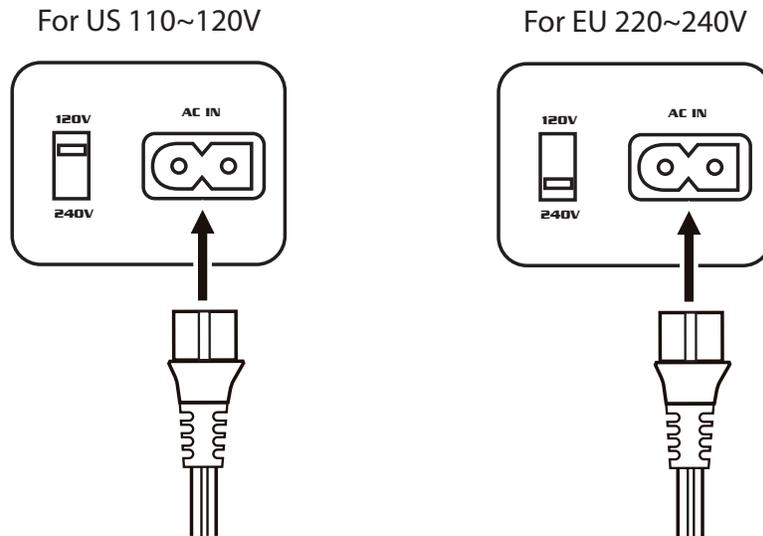
Optional
(included
only on
JamCube 2)

Getting Started

Connecting the Power Cable

Plug the supplied AC power cable into the AC inlet after all other connections are complete and then plug the AC power cable to an AC wall outlet.

CAUTION: Use the supplied AC cable. Do not use other AC power cables as doing so may result in fire hazard or electrical shock.



WARNING: Plugging in the power cable with the voltage selector switch set incorrectly may damage this device.

Make sure the selector switch is set to the voltage of your region:

115V - United States

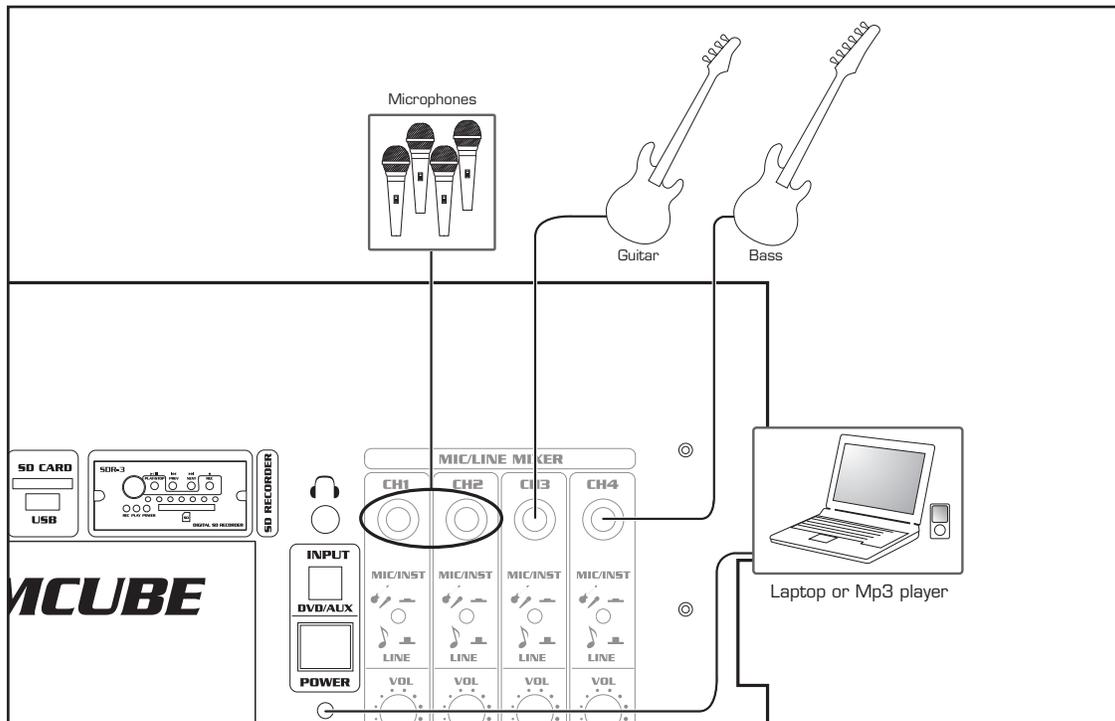
230V - Europe

Getting Connected

Quickstart Diagram

JAMCUBE TOP PANEL

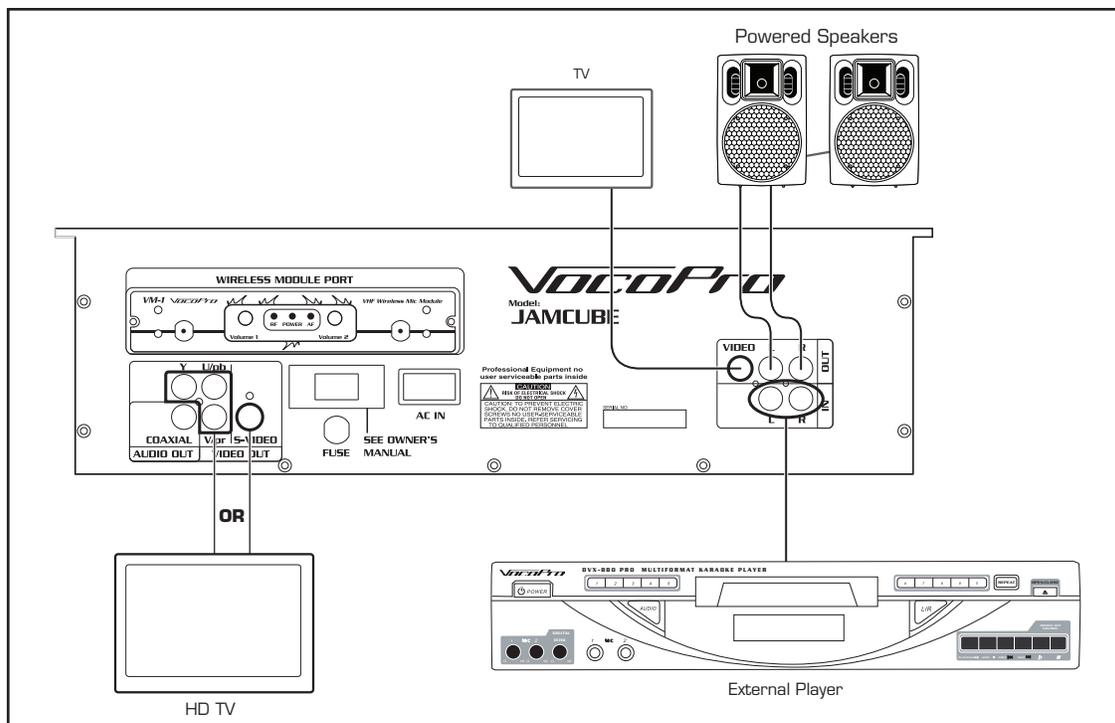
Connect your microphones, instruments, and portable media devices as shown.



JAMCUBE REAR PANEL

Connect video and audio devices as shown.

Choose the video connection that best suits your needs.



Getting Connected

Connecting to an MP3 player (or other device) to the JAMCUBE

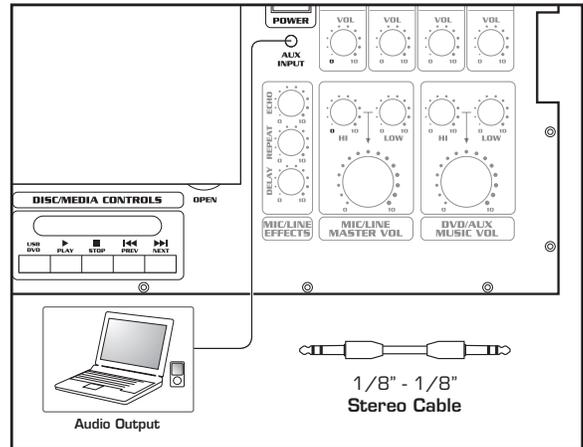
You can use the JAMCUBE as an amplifier for your MP3 player, laptop or other audio device with a 1/8" output.

What you will need:

- 1/8" cable
- MP3 player (or other device, laptop etc. with a 1/8" output)

To connect an MP3 player to the JAMCUBE:

1. Connect one end of the 1/8" cable to the output on the MP3 player or audio device.
2. Connect the other end of the 1/8" cable to the 1/8" AUX input on the top panel of the JAMCUBE.
3. Set the **INPUT (DVD/AUX) BUTTON** on the top panel of the JAMCUBE to **AUX** (out position).



Connecting an External Player to the JAMCUBE

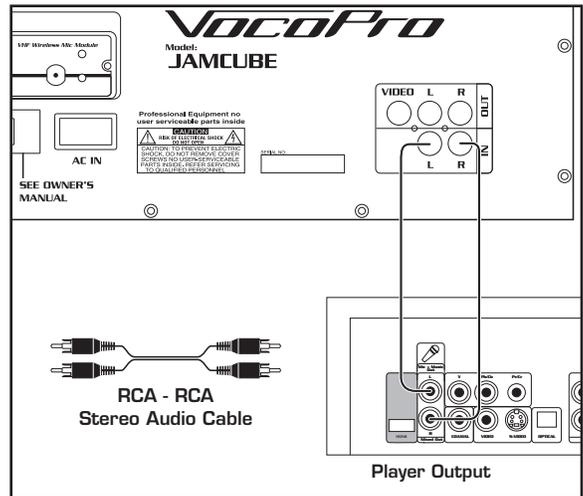
You can use an external CD/DVD player or other audio device with RCA outputs to play back through the JAMCUBE.

What you will need:

- Stereo RCA cable
- External player or other audio device with RCA outputs

To connect an external audio player to the JAMCUBE:

1. Connect one end of the RCA cable to the L/R output on the external player or audio device.
2. Connect the other end of the RCA cable to the L/R IN jacks on the rear panel of the JAMCUBE.
3. Set the **INPUT (DVD/AUX) BUTTON** on the top panel of the JAMCUBE to **AUX** (out position).



Connecting to an External Powered Speakers

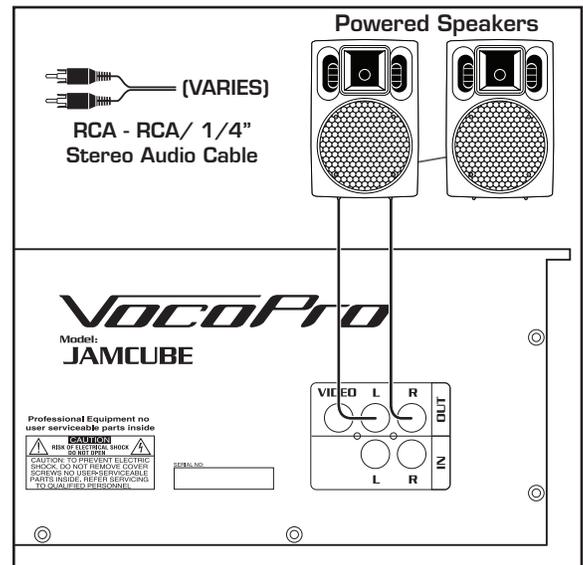
The JAMCUBE has built-in speakers, and does not need to be connected to external speakers. However, if you want to connect powered speakers to add an extra boost to your performance, you can do so using the MIXED OUTPUT.

What you will need:

- Stereo RCA cable
- Powered speakers with RCA inputs

To connect to powered speakers:

1. Connect the ends of the RCA cable to the L/R AUDIO OUT jacks on the rear panel of the JAMCUBE.
2. Connect the other ends of the RCA cable to the Left and Right inputs of your powered speakers.



Getting Connected

Connecting a Microphone or Instrument to the JAMCUBE

You can connect a standard high-impedance microphone, line output from a wireless microphone system, or a musical instrument to the 1/4" inputs on CH1-4 on the top panel.

What you will need:

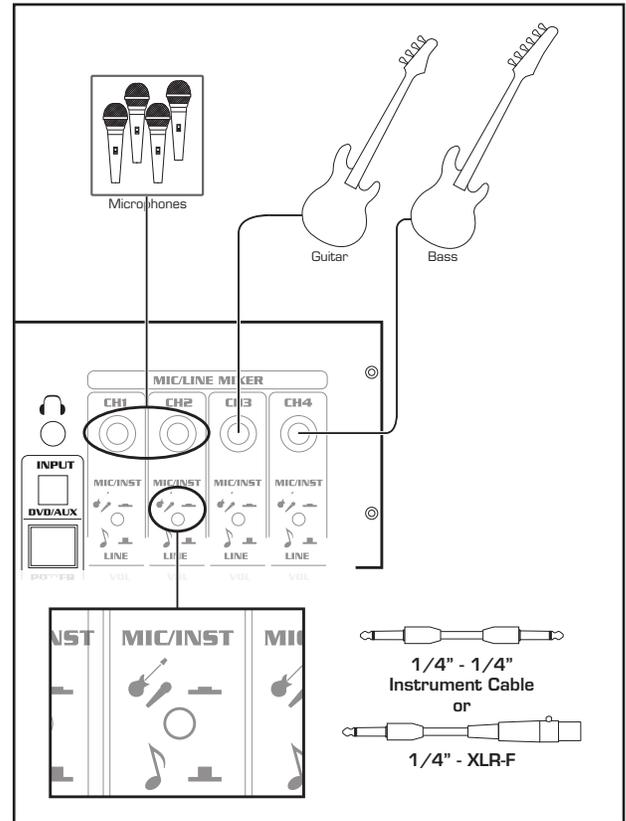
- Microphone or instrument cable with a 1/4" plug
- Microphone device or musical instrument

To connect a microphone:

1. If connecting a handheld microphone, connect the 1/4" end of the microphone cable to an available 1/4" input on the top panel of the JAMCUBE.
2. If connecting a wireless microphone system, plug the 1/4" end of the line output to an available 1/4" input on the top panel of the JAMCUBE.
3. Set the MIC-INST/LINE button to MIC/INST.

To connect an instrument:

1. Connect one end of the 1/4" instrument cable to the instrument's output.
2. Connect the other end of the instrument cable to an available 1/4" input on the top panel of the JAMCUBE.
3. Set the MIC-INST/LINE button to MIC/INST.



Connecting a Digital Receiver to the JAMCUBE

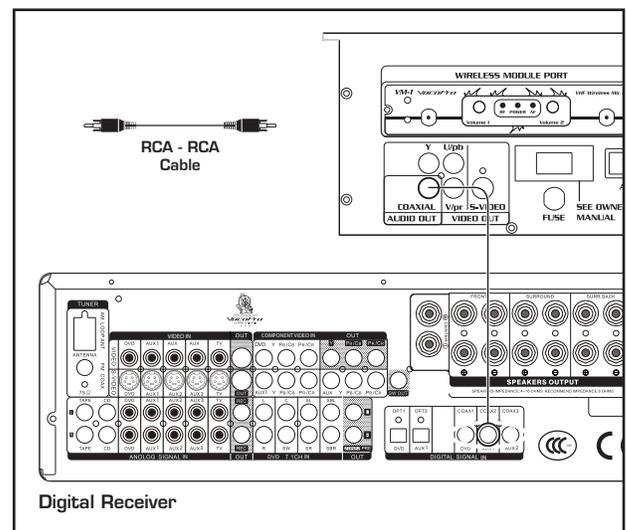
You can route a digital audio signal to a receiver or mixer using the digital coaxial output.

What you will need:

- RCA cable
- Receiver or mixer with digital coaxial audio input

To connect to a receiver:

1. Connect one end of the RCA cable to the COAXIAL output on the rear panel of the JAMCUBE.
 2. Connect the other end of the RCA cable to a coaxial digital audio input on your receiver or mixer.
- NOTE:** Microphone output is not present in this digital signal. Microphone output is only available from the analog RCA outputs.



Getting Connected

Connecting a TV or Monitor to the JAMCUBE

The JAMCUBE has three ways to output video. Choose the method that best suits your needs.

Using RCA video output

What you will need:

- RCA video cable
- TV or Monitor with RCA inputs

To connect to a TV or Monitor using RCA video output:

1. Connect one end of the RCA cable to the VIDEO output on the rear panel of the JAMCUBE.
2. Connect the other end of the RCA cable to the VIDEO INPUT jack on your TV or Monitor.

NOTE: While some TVs automatically switch when a video signal is detected, you may need to manually switch your TV to the correct video input. On most TVs, the INPUT jack is labeled A/V, AUX or VIDEO IN.

Using S-Video output

What you will need:

- S-Video cable
- TV or Monitor with an S-Video input

To connect to a TV or Monitor using S-VIDEO output:

1. Connect one end of the S-Video cable to the S-VIDEO output on the rear panel of the JAMCUBE.
2. Connect the other end of the S-Video cable to the S-VIDEO INPUT jack on your TV or Monitor.

NOTE: While some TVs automatically switch when a video signal is detected, you may need to manually switch your TV to the correct video input. On most TVs, the INPUT jack is labeled A/V, AUX or VIDEO IN.

Using Component (YPBPR) video output

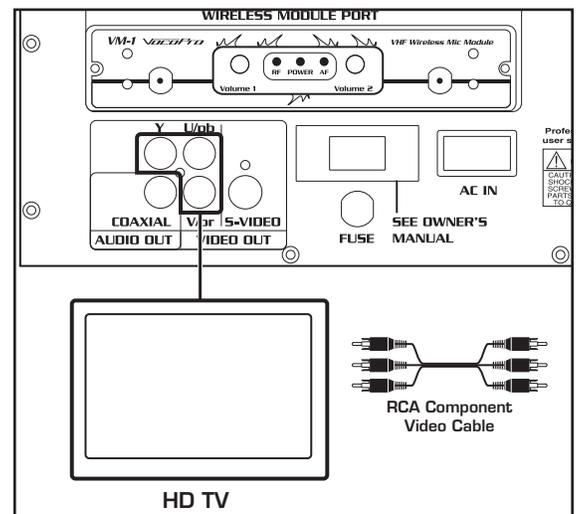
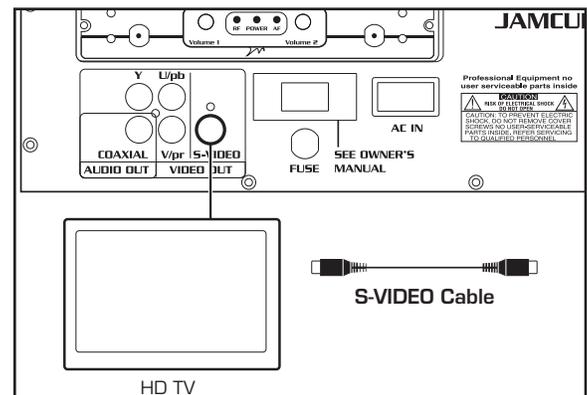
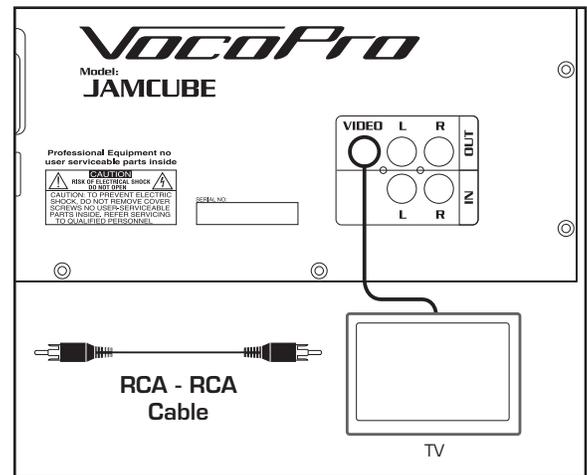
What you will need:

- Component (YPBPR) video cable
- TV or monitor with component (YPBPR) video inputs

To connect to a TV or Monitor using Component (YPBPR) video output:

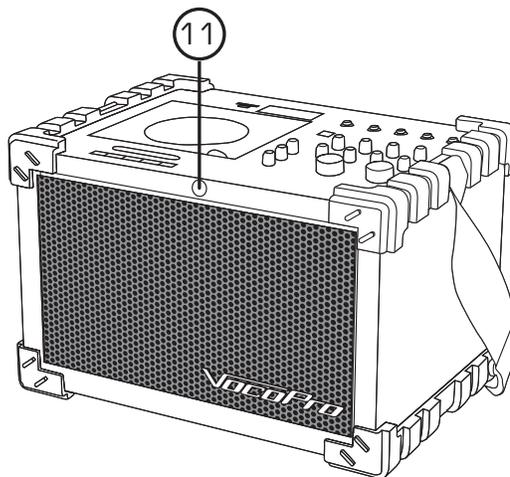
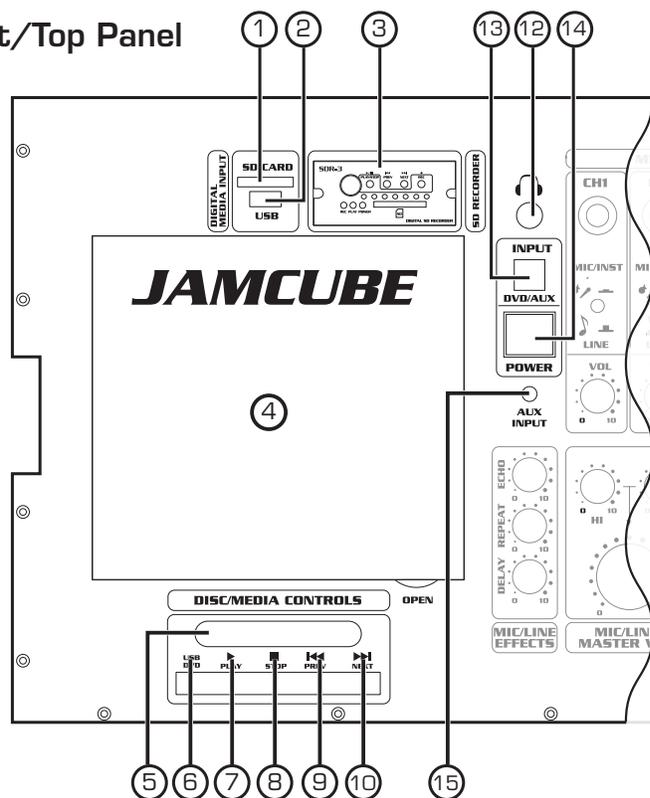
1. Connect one end of the component (YPBPR) cable to the Y, PB, PR outputs on the rear panel of the JAMCUBE.
2. Connect the other end of the Component (YPBPR) cable to the Component (YPBPR) jack on your TV or Monitor.

NOTE: While some TVs automatically switch when a video signal is detected, you may need to manually switch your TV to the correct video input. On most TVs, the INPUT jack is labeled A/V, AUX or VIDEO IN.



Descriptions and Functions

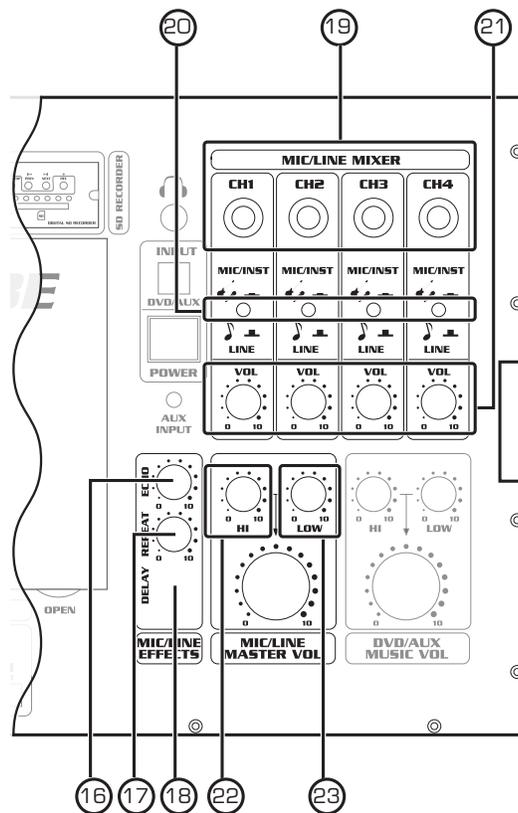
Front/Top Panel



1. **SD CARD SLOT** – Insert an SD card into this slot for playback of media files.
2. **USB PORT** – Insert a USB flash drive for playback of media files.
3. **SDR-3 EXPANSION PORT** – If you have an SDR-3 installed, or need to install the SDR-3, refer to pages 21-22 for details.
4. **DISC TRAY** – Insert your discs for playback. Open the disc tray lid by lifting the tab on the right side of tray lid. Carefully set your disc onto the tray and close.
5. **VFD DISPLAY** - Displays track, playback and setting information.
6. **USB/DVD BUTTON** – When an SD or USB device is connected, use this button to toggle between DVD, USB, and SD playback.
NOTE: The INPUT (DVD/AUX) BUTTON must be set to DVD.
 A video connection is required to see the options when using this button.
 This button is only functional when an SD or USB device is connected.
7. **PLAY/PAUSE BUTTON** - Plays a disc that is stopped or paused and pauses a disc that is playing.
8. **STOP BUTTON** – Stops a disc that is playing.
9. **PREV BUTTON** – Press this button to jump to the previous track or chapter.
10. **NEXT BUTTON** – Press this button to jump to the next track or chapter.
11. **REMOTE CONTROL SENSOR** - Receives signals from the remote control. For best results, aim the remote control directly at this sensor.
12. **HEADPHONE JACK** – Connect headphones with a 1/4" plug to this output for private listening.
NOTE: The JAMCUBE's main speaker output is disabled when headphones are connected.
13. **INPUT (DVD/AUX) BUTTON** - Use this button to select which audio source you want to use:
 DVD: DISC/SD/USB
 AUX: 1/8" AUX/REAR RCA INPUT
14. **POWER SWITCH** - Use this switch to power the JAMCUBE ON or OFF.
15. **AUX INPUT (1/8")** – Connect audio from an audio source (PC/MP3 player, etc) with an 1/8" audio cable.
NOTE: The INPUT (DVD/AUX) BUTTON must be set to AUX for playback.

Descriptions and Functions

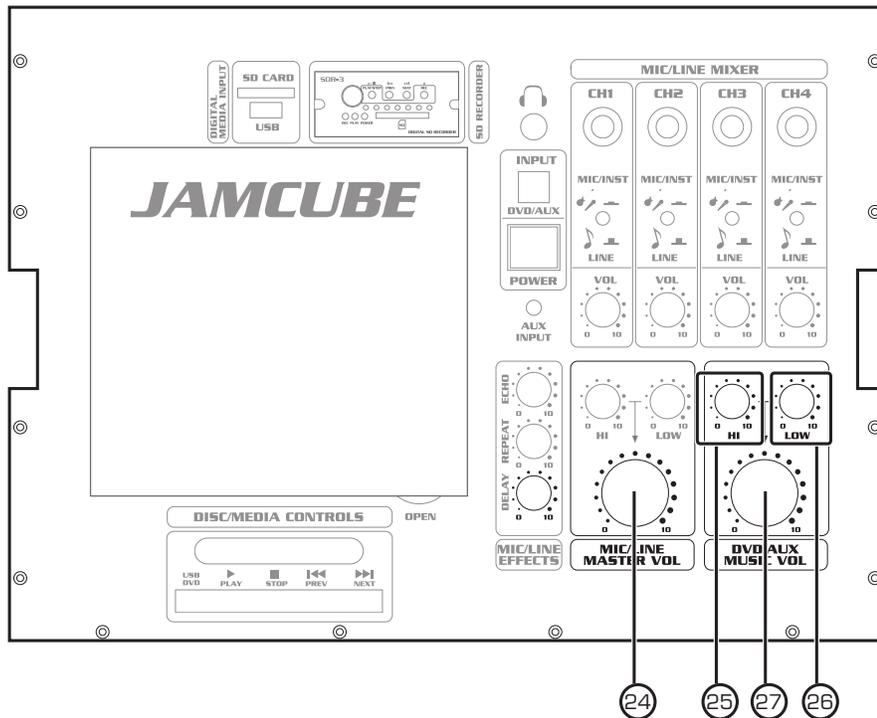
Top Panel



- 16. ECHO CONTROL** – This controls the level of echo effect applied on all four mic inputs. Rotate clockwise to increase the amount of echo effect applied to the signal, and counter-clockwise to decrease.
- 17. REPEAT CONTROL** – This controls the number of echo repetitions heard before the echo effect fades out. Rotate clockwise to increase the amount of repeat applied to the signal, and counter-clockwise to decrease.
- 18. DELAY CONTROL** – This controls the length of the gap between each echo repetition heard before the echo effect fades out. Rotate clockwise to increase the amount of delay applied to the signal, and counter-clockwise to decrease.
- 19. 1/4" MIC/LINE INPUTS (CH 1-4)** – Use these inputs to connect wired microphones or music instruments with a 1/4" plug.
- 20. MIC-INST/LINE BUTTON (CH 1-4)** – Use this button to set the input for a MIC/INSTRUMENT signal, or for a LINE LEVEL signal from a wireless receiver.
 MIC/INSTRUMENT – Set button to the IN position
 LINE – Set button to the OUT position
- 21. VOLUME CONTROL (CH 1-4)** – Use this control to raise and lower the volume of microphone output. Rotate clockwise to increase the volume, and counter-clockwise to decrease.
- 22. MIC/LINE HI CONTROL** – Use this control to raise and lower the high frequency portion of the MIC/LINE output. This control can be used to brighten up the sound of vocals or instruments. Rotate clockwise to increase high frequencies, and counter-clockwise to decrease.
NOTE: This control adjusts the high frequencies for CH 1-4.
- 23. MIC/LINE LO CONTROL** – Use this control to raise and lower the low frequency portion of the MIC/LINE output. This control can be used to thicken up the sound of vocals or instruments. Rotate clockwise to increase low frequencies, and counter-clockwise to decrease.
NOTE: This control adjusts the low frequencies for CH 1-4.

Descriptions and Functions

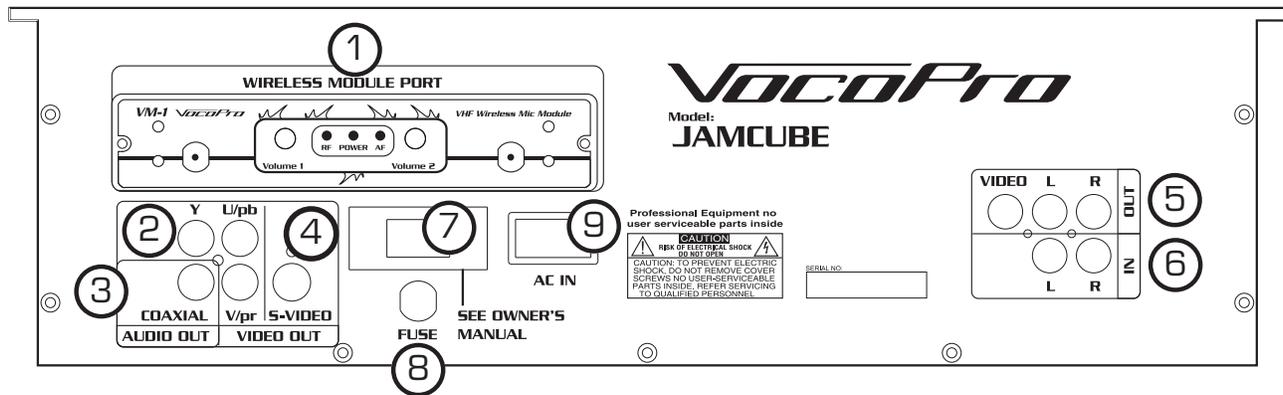
Top Panel



- 24. MIC/LINE MASTER VOL CONTROL** – Use this control to adjust the volume for all MIC/LINE CH.1-4. This is a master-level control, allowing for a one-touch volume adjustment for all the MIC/LINE channels at once. Rotate clockwise to increase the MIC/LINE master volume, and counter-clockwise to decrease.
- 25. DVD/AUX HI CONTROL** – Use this control to raise and lower the high frequency portion of the music signal from the DVD player and devices connected to the DVD/AUX inputs. This control can be used to brighten up the sound of the music. Rotate clockwise to increase high frequencies, and counter-clockwise to decrease.
- 26. DVD/AUX LO CONTROL** – Use this control to raise and lower the low frequency portion of the music signal from the DVD player and devices connected to the DVD/AUX inputs. This control can be used to thicken up the sound of the music. Rotate clockwise to increase low frequencies, and counter-clockwise to decrease.
- 27. DVD/AUX MASTER VOL CONTROL** – Use this control to adjust the music volume level from the DVD player and devices connected to the DVD/AUX inputs. Rotate clockwise to increase the MIC/LINE master volume, and counter-clockwise to decrease.

Descriptions and Functions

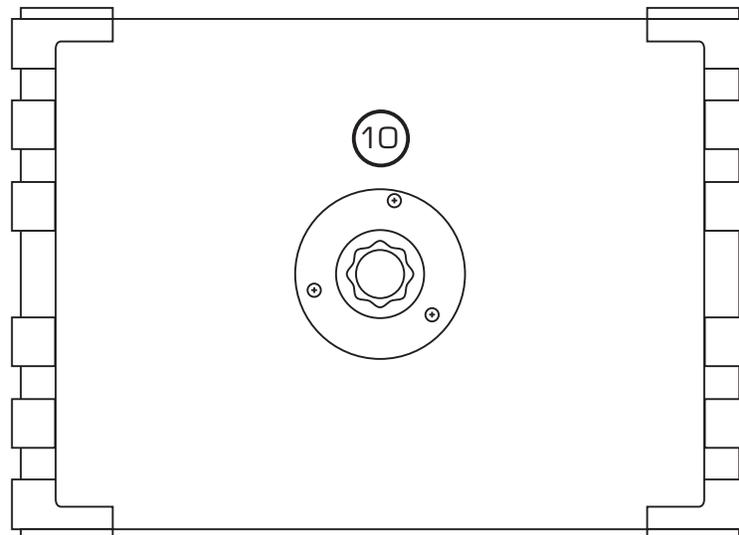
Rear Panel



1. **WIRELESS MODULE PORT** – If you have an VM-1 installed, or need to install the VM-1, refer to pages 23-24 for details.
2. **COMPONENT VIDEO OUTPUT (YPBPR)** – Use this output to connect to a TV or monitor with Component inputs (Y/Pb/Pr).
3. **COAXIAL DIGITAL AUDIO OUTPUT** – Use this audio output to connect to a digital receiver.
NOTE: Microphone audio will not be present in this output.
4. **S-VIDEO OUT** – Use this video output to connect to a TV or monitor with an S-Video input.
5. **RCA A/V OUTPUT** - Use this output to connect to additional TVs, monitors, recorders, or other devices.
6. **RCA AUDIO INPUT** - Use this input to connect an external audio player.
7. **AC VOLTAGE SELECTOR SWITCH** - Use this switch to select the proper voltage for your area.
U.S. – 115V
EUROPE – 230V
8. **FUSE COVER** – Remove to access the fuse.
NOTE: Replace only with type of fuse listed on back panel.
9. **AC POWER INPUT** – Connect the power cable here.
10. **SPEAKER MOUNT** - Use this to mount the JAMCUBE on a speaker stand with a 1 3/8" diameter shaft.

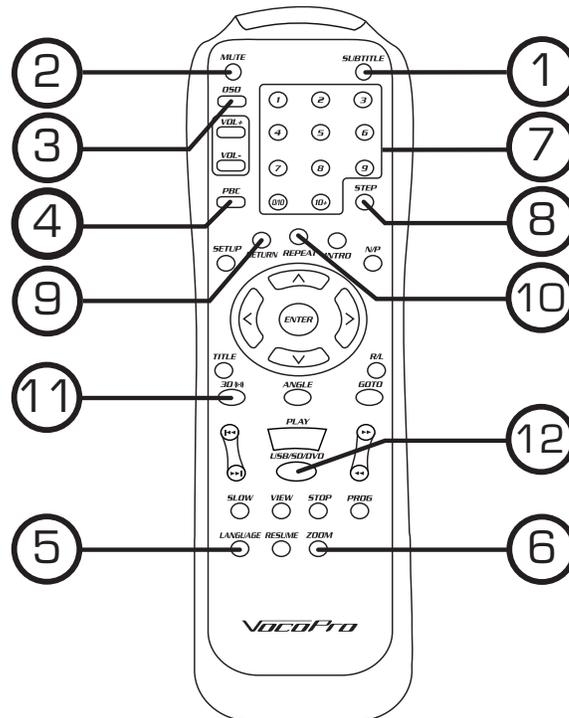
See getting connected section for more information on connecting devices.

BOTTOM OF JAMCUBE



Descriptions and Functions

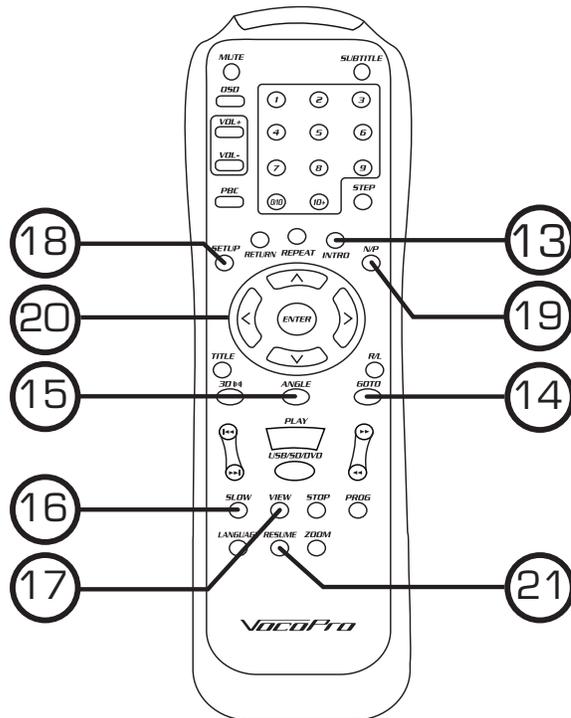
Remote Control



1. **SUBTITLE** – Use this button to select subtitles when viewing a DVD movie.
NOTE: This button only works with DVD discs. Not all DVDs contain subtitles.
2. **MUTE** – Press this button to MUTE audio output.
3. **OSD** – Use this button to toggle through the on-screen display options.
Track elapsed>Track remaining>Disc elapsed>Disc remaining>Off
4. **PBC** - This button activates menu navigation on VCD Discs.
NOTE: This button is only functional when playing a VCD disc.
5. **LANGUAGE** – Use this button to toggle through available audio tracks on a DVD disc. Some DVD movies contain dialog in different languages, and some karaoke DVDs have audio tracks with and without vocals.
NOTE: This button only works when playing DVD discs. Not all DVDs contain multiple audio tracks.
6. **ZOOM** – This button zooms in the video when playing a DVD, VCD or AVI media file.
7. **NUMBER PAD** – Use these buttons to select track numbers. Press the 10 button to access track 10. For tracks larger than 10, press the 10+ button and another number. For example, for track 22, press the 10+ button two times, and then press 2.
8. **STEP** – Press this button to view playback one frame at a time. Each time STEP is pressed, the playback will advance one frame. To exit step mode, press the PLAY button.
9. **RETURN** – Press this button to return to the main menu when playing a DVD.
10. **REPEAT** – Use this button to enter a REPEAT play mode. Repeat modes depend on the type of disc you are playing:
CD/CDG/VCD – Repeat One>Repeat All>Off
DVD – Repeat Chapter>Repeat Title>Repeat All>Off
11. **3D** – Use this button to enter the audio properties menu. In the audio properties menu, you can apply surround sound, EQ, and key control settings. Refer to the Operations section for instructions on how to adjust audio settings.
NOTE: This button does not work when playing a DVD disc.
12. **USB/SD/DVD** - Use this button to switch between USB/SD/DVD for playback.
NOTE: The **INPUT (DVD/AUX) BUTTON** must be set to DVD.
A video connection is required to see the options on screen when using this button.
This button is only functional when an SD or USB device is connected.

Descriptions and Functions

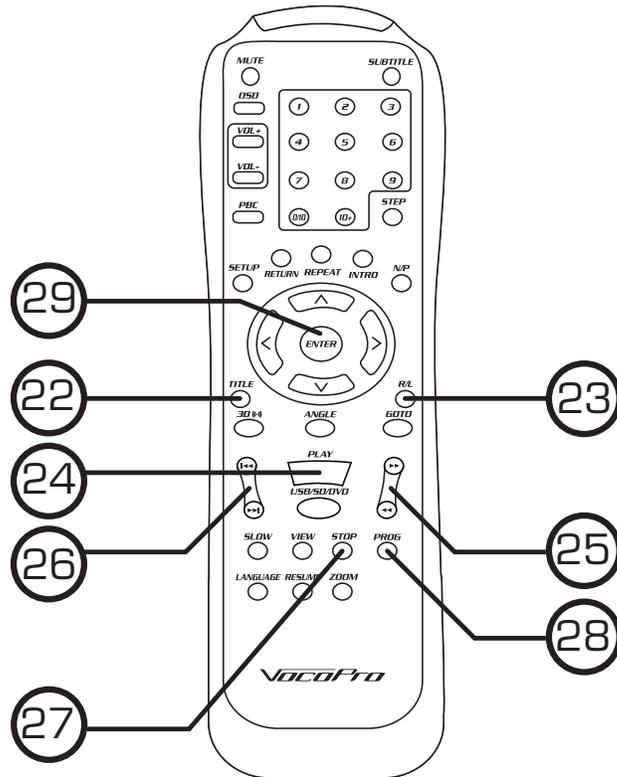
Remote Control



- 13. **INTRO** – Press this button to hear the first 15 seconds of each track. To exit INTRO play mode, press a second time.
NOTE: This feature does not work with DVD discs.
- 14. **GOTO** – Use this button to jump to a specific track or time. Use this button in combination with the left and right arrow keys and the number pad to enter tracks and times, then confirm with the enter button.
- 15. **ANGLE** – Use this button to change the viewing angle of the DVD.
NOTE: Not all DVDs have multiple angles available.
- 16. **SLOW** – Use this button to enter SLOW playback mode. Continue to press the SLOW button to further slow down the playback. To exit SLOW mode, press PLAY.
- 17. **VIEW** – Use this button for viewing specific sections on a VCD disc, such as the selection screen.
NOTE: The disc must be stopped in order to access the VCD View Menu.
- 18. **SETUP** – Use this button to enter the main SETUP menu for the JAMCUBE.
- 19. **N/P** – Use this button to select between PAL/NTSC video modes.
For U.S., Mexico, and Canada, select NTSC. For European countries, select PAL.
- 20. **DIRECTION PAD** – Use the UP, DOWN, LEFT, RIGHT buttons to navigate through menu screens. Press the ENTER button to make selections.
UP – The UP button also adjusts the KEY CONTROL UP (sharp) control when not in a menu screen.
DOWN – The DOWN button also adjusts the KEY CONTROL DOWN (flat) when not in a menu screen.
- 21. **RESUME** – Use this button to return to the track listing menu from any SETUP subdirectory.

Descriptions and Functions

Remote Control

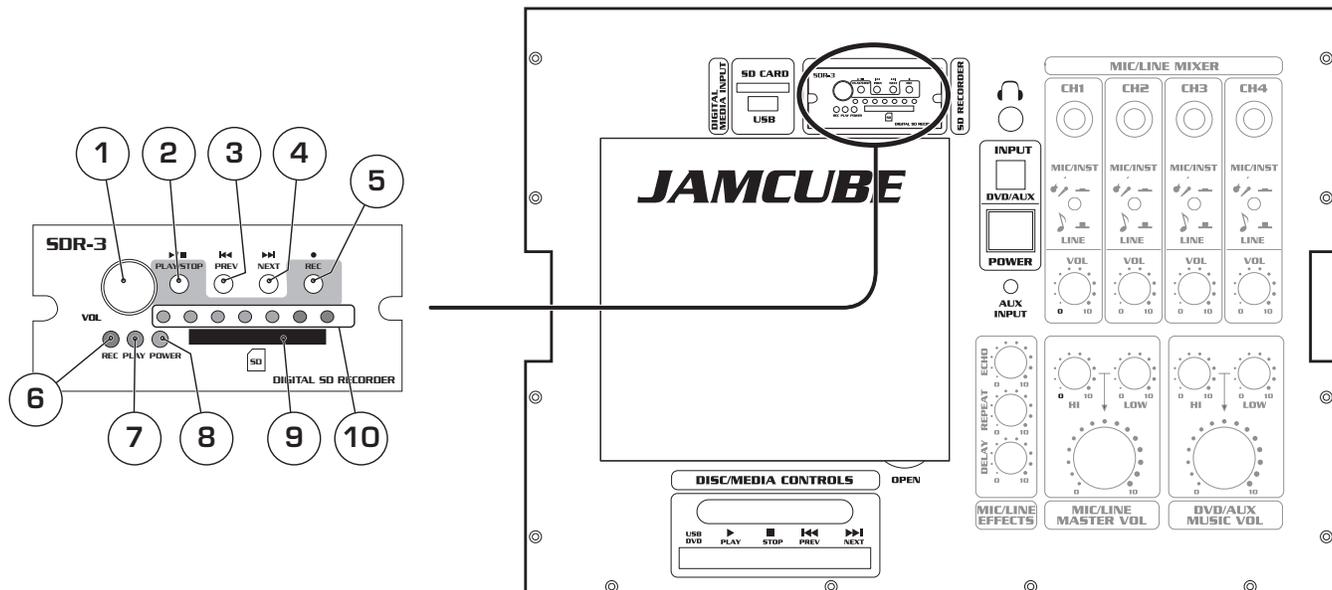


- 22. TITLE** – Use this button to go to the title screen of a DVD disc.
- 23. R/L** – Use this button to CANCEL VOCAL on a MULTIPLEX disc. This button toggles between left channel, right channel and stereo outputs.
Selecting MONO L will remove the R channel audio and play the L channel audio on both sides
Selecting MONO R will remove the L channel audio and play the R channel audio on both sides.
Selecting STEREO will play the audio in normal LR stereo mode.
- 24. PLAY/PAUSE** – Press this button to start/pause playback of a disc or media file.
- 25. << >>** - Press the << button to scan backward through a track, and press >> to scan forward through a track.
- 26. |<< >>|** - Press |<< to jump to the previous track, and >>| to jump to the next track.
- 27. STOP** – Press this button to STOP a track that is playing.
- 28. PROGRAM** – Use this button to set up a custom sequence of tracks for playback. Refer to the Advanced Operations section for instructions on how to setup a program.
- 29. ENTER** - Use this button to confirm onscreen selections.

Descriptions and Functions

SDR-3 (optional accessory)

Use the optional SDR-3 to capture audio direct to SD card. Once recorded, the audio can then be played instantly. Of course, you can also remove the SD card and transfer the MP3 files to your computer for further editing and processing.

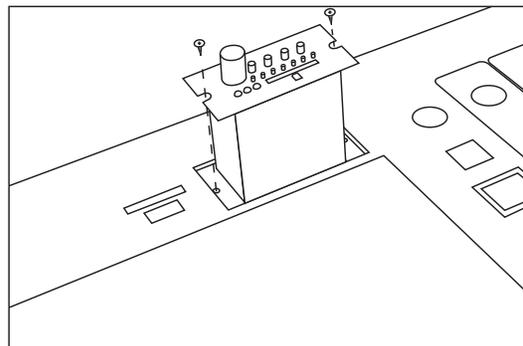
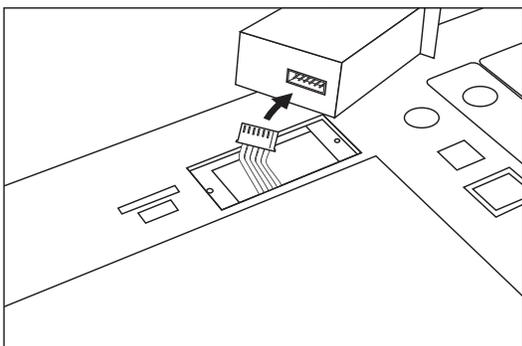


1. **REC VOL CONTROL** – Use this control to set the recording gain level. Turn clockwise to increase the gain, turn counter-clockwise to decrease the gain level. Use the REC LEVEL LEDs to monitor the record level as you adjust the REC VOL CONTROL.
NOTE: The REC VOL CONTROL does not control the volume level when playing back from the SD card.
2. **PLAY/STOP BUTTON** – Use this button to start playback from the SD card, and to stop playback or a recording in progress. Playback will commence from the last track recorded.
3. **PREV BUTTON** – Use this button to jump to the PREVIOUS track.
4. **NEXT BUTTON** – Use this button to jump to the NEXT track.
5. **REC BUTTON** – This button is used to put the SDR-3 in record mode, start recording, and pause a recording in progress *without creating a new track*. Press the REC button once to place the SDR-3 in record pause mode. This is the time to check the recording level and adjust if necessary.
 Press the REC button a second time to begin recording.
 Pressing the REC button during a recording in progress will pause the recording without creating a new track. This is useful for recording several sessions into a single track.
6. **REC LED** – Indicates the recording status of the SDR-3.
 Blinking LED – Record pause mode
 Solid LED – Record mode
7. **PLAY LED** – Indicates when playback and recording is in progress.
8. **POWER LED** – Indicates the SDR-3 is on.
NOTE: If this LED is not lit, refer to the installation instructions to check the power cable.
9. **SD CARD SLOT** – Insert your SD card into this slot. The SDR-3 will not record without an SD card in this slot.
10. **REC LEVEL LEDs** – Indicates the SDR-3 recording gain level. An optimal recording level will light all the green LEDs with minimal activity on the red LEDs.

Descriptions and Functions

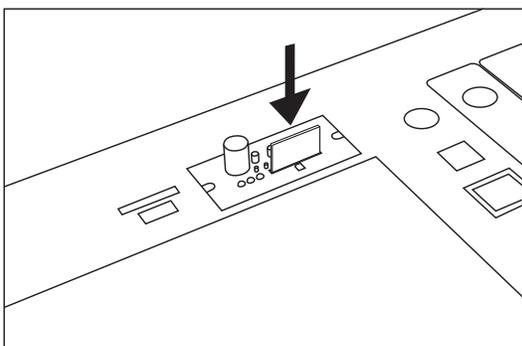
SDR-3 Installation

1. Turn **OFF** the JAMCUBE.
2. Unscrew the two retaining screws that hold the slot cover in place.
3. Remove plate and store it in a safe place.
4. Attach the cable to the back of the SDR-3.
5. Carefully slide the SDR-3 into place.
6. Replace and tighten screws.



Inserting/Removing an SD card

1. Insert SD card with the same alignment as indicated by the SD card icon.
 2. Push the SD card until it clicks into place.
 3. To remove the SD card, gently push in until it pops out slightly; it is then safe to remove.
- NOTE:** The maximum size SD card that can be used by the SDR-3 is 1GB. The SDR-3 does not support SDHC cards.



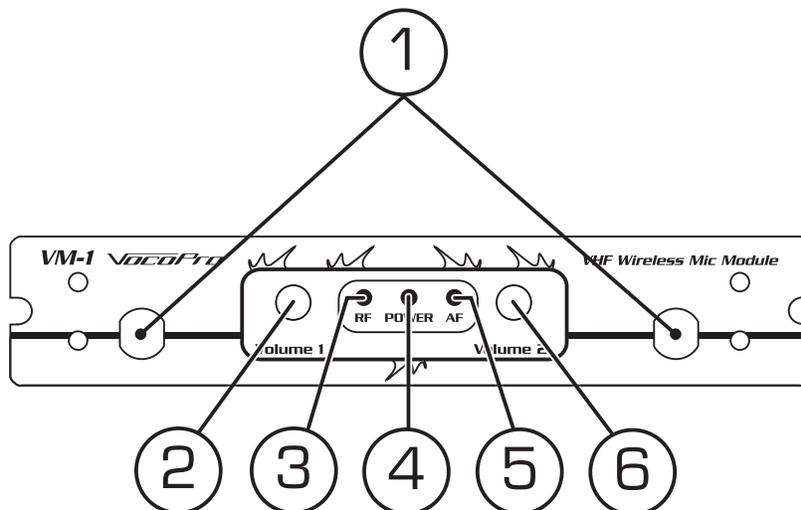
Recording to the SDR-3

Prior to recording to the SDR-3, you want to ensure that the signal being recorded is properly mixed. Once you are happy with your overall mix, follow the steps below to record.

1. Press the REC button once to place the SDR-3 in record pause mode. This is the time to check the recording level and adjust if necessary.
2. Press the REC button a second time to begin recording.
3. Press PLAY/STOP to stop a recording. Or press REC to pause the recording without creating a new track.

Descriptions and Functions

VM-1 Receiver (optional accessory)

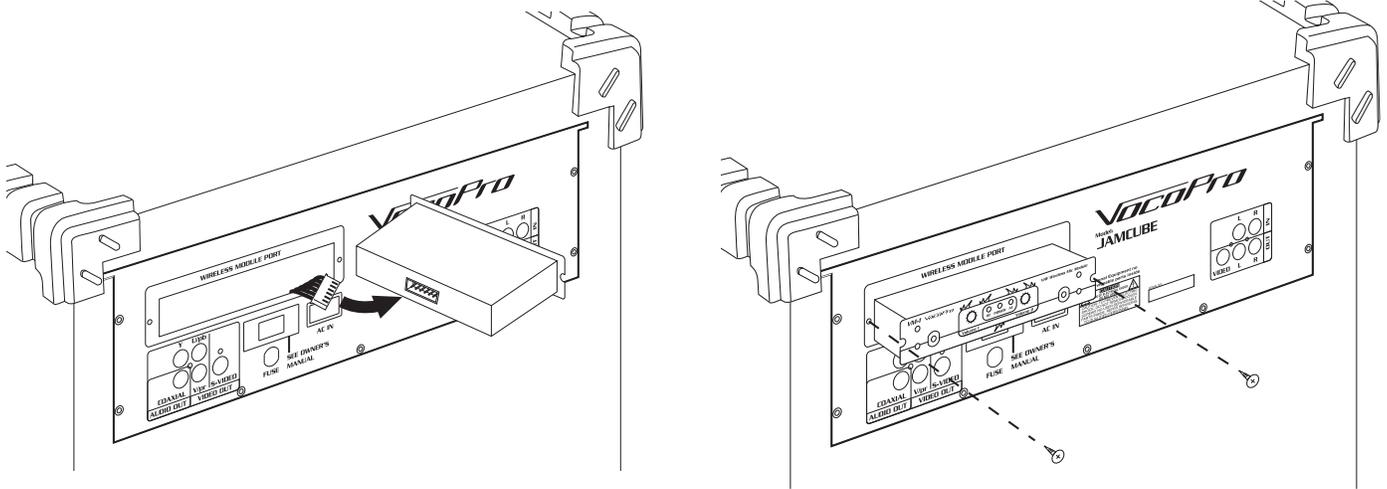


- 1. ANTENNA CONNECTORS** - Connect each antenna to each connector.
- 2. CH1 VOL CONTROL** - Turn this dial clockwise to increase the volume of wireless channel 1, turn counter-clockwise to decrease.
- 3. RF LED** - This LED will light when the wireless mic 1 is switched on.
- 4. POWER LED** - This LED will light when the power is turned on.
- 5. AF LED** - This LED will light when the wireless mic 2 is switched on.
- 6. CH 2 VOL CONTROL** - Turn this dial clockwise to increase the volume of wireless channel 2, turn counter-clockwise to decrease.

Descriptions and Functions

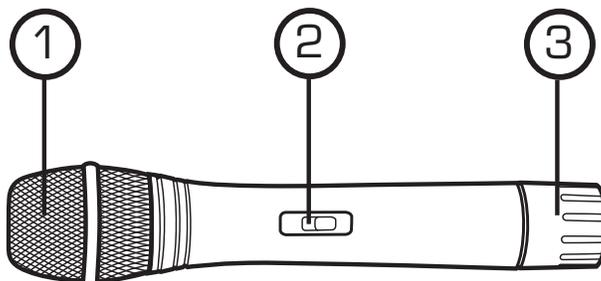
Installing a Wireless Module

1. Turn **OFF** the JAMCUBE.
2. Remove the two screws that hold the slot cover in place.
3. Carefully detach the connector cable from the slot cover.
NOTE: Make sure the cable does not fall back into the unit. It may be necessary to temporarily secure the cable to the unit with tape while there is no module in the slot.
4. Carefully connect the connector cable to the module. The cable plug is designed to fit only one way, if it does not fit correctly, flip the plug over and try again.
5. Carefully slide the module into the slot.
6. Secure the module with the two screws.



Descriptions and Functions

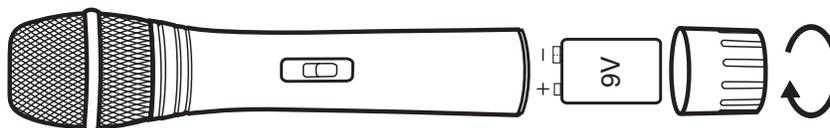
VM-1 Microphone (optional accessory)



1. **GRILL** - Protects the microphone cartridge and helps reduce breath sounds and wind noise.
2. **POWER BUTTON** - Used to turn the microphone ON/OFF or put it in STANDBY mode.
3. **BATTERY CAP** - Removable cap hides and protects the microphone battery.

Microphone Battery Installation

1. Unscrew the microphone battery compartment cap and insert the 9-volt alkaline battery. Be sure to observe proper polarity (+/-).
2. Tighten the battery compartment lid.



General Operations

Using the Disc Player

To play a disc:

1. Set the **INPUT (DVD/AUX) BUTTON** to DVD.
2. Open the disc tray.
3. Place a disc in the tray, label side up.
4. Close the tray.
5. The disc will automatically begin to play.

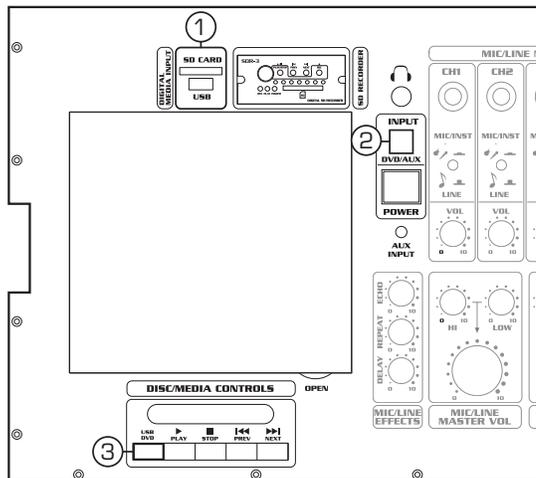


Playing from the USB flash drive or SD Card

To play songs, videos and other files from a USB flash drive or SD card:

1. Plug a USB flash drive or SD card into the appropriate slot on the top panel of the JAMCUBE.
2. Set the **INPUT (DVD/AUX) BUTTON** to DVD.
3. Use the **USB/DVD BUTTON** to select the slot you are playing from (USB/SD).
4. The media menu selection window will appear, and the first track from the first folder will begin playing.

NOTE: To view the media menu selection window, you will need to have a video device connected and turned on.



Navigating the Media Menu Selection Window

The media menu selection window is divided into 3 sections: folders on the left side, folder contents (media files) on the right side, and media file icons on the bottom.

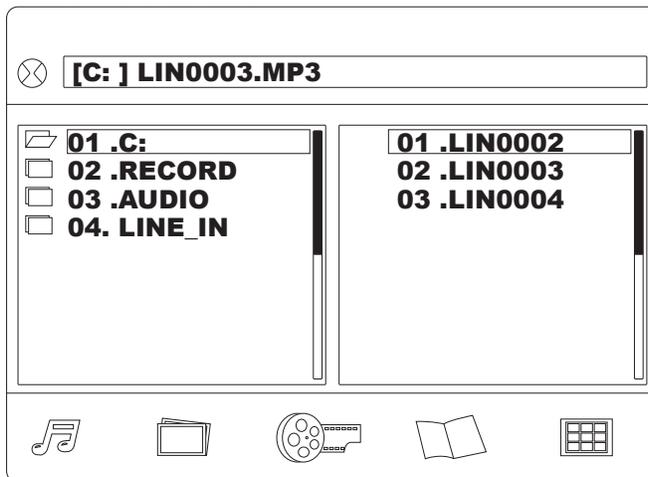
To view a folder's contents, highlight the folder using the direction pad on the remote control, and press ENTER. To select a particular file, highlight that file in the folder contents window and press ENTER.

NOTE: Only files of the selected type will be shown in the folder contents window.

The icons on the bottom of the screen represent the different media types: MUSIC, PICTURE, MOVIE, E-BOOK and GAME. To select a media type, highlight an ICON and hit ENTER.

NOTE: The icons are only accessible if there are files of that type present on the USB/SD device.

Media Menu Selection



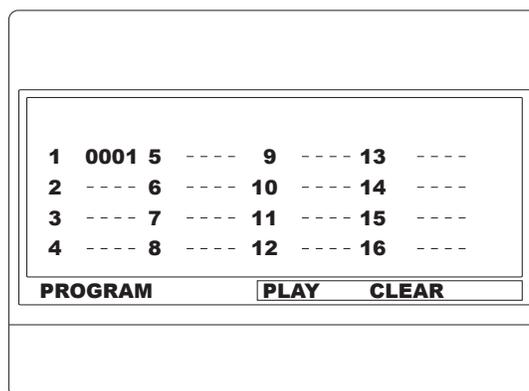
General Operations

Using the Program Feature

You can use the PROGRAM feature to set up a custom playlist of tracks. **NOTE:** You can only include tracks from the currently selected source (DISC, USB, SD) to the program list.

To Create a Program:

1. Press the PROGRAM button on the remote control.
2. In the program window, use the direction pad to navigate the track position fields.
3. Use the number pad to enter the track number to be played.
4. When you are finished programming tracks, highlight PLAY and press ENTER to start playback.



Jumping to a specific time in a track or chapter

Press the GOTO button on the remote control to access the menu. Use the number pad to enter the exact time to skip to. For example:

To jump to :30 seconds in a track while it is playing:

1. Press GOTO.
2. Press 30 in the seconds area of the time box and press ENTER.

To jump to a track:

1. Press GOTO.
4. Enter the track number in the TRK X/XX box and press ENTER.

Using Digital Echo

Digital echo can be used to add depth to vocals and music instruments.

Take the following steps to achieve a custom echo effect setting and apply to a channel.

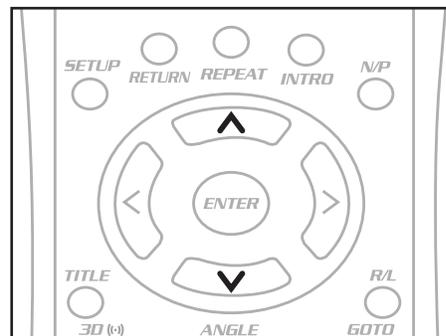
1. Set the ECHO control to 20%.
2. Set both the REPEAT and DELAY controls to 35%.
3. Connect a microphone or instrument to one of the input channels on the front panel.
4. Ensure the VOL controls for the channels you are testing are at an adequate level.
5. Test the sound and make further adjustments as necessary.

Using Digital Key Control

If a song's natural musical key is either too high, or too low to be sung comfortably, use the DIGITAL KEY CONTROL feature to bring the musical key into range. You can raise and lower the key 6 steps, for a total range of 12 steps.

Using the remote control:

- Press the DIRECTION PAD UP BUTTON (sharp) button to raise the key
- Press the DIRECTION PAD DOWN BUTTON (flat) button to lower the key



General Operations

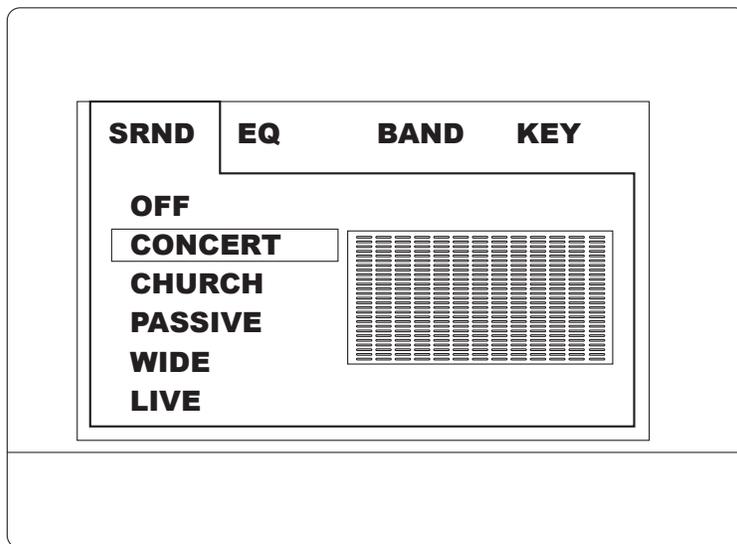
Setting Surround Sound

You can apply a surround sound setting to enhance the sound of source music. The surround settings are designed to simulate different acoustical settings: CONCERT, CHURCH, PASSIVE, WIDE and LIVE.

NOTE: Surround sound does not apply to microphone/music instrument audio on CH 1-4.

To apply a surround sound setting using the remote control:

1. Press the AUDIO button.
2. Using the DOWN ARROW button to choose a surround sound setting.
3. Press ENTER to apply the surround sound setting.

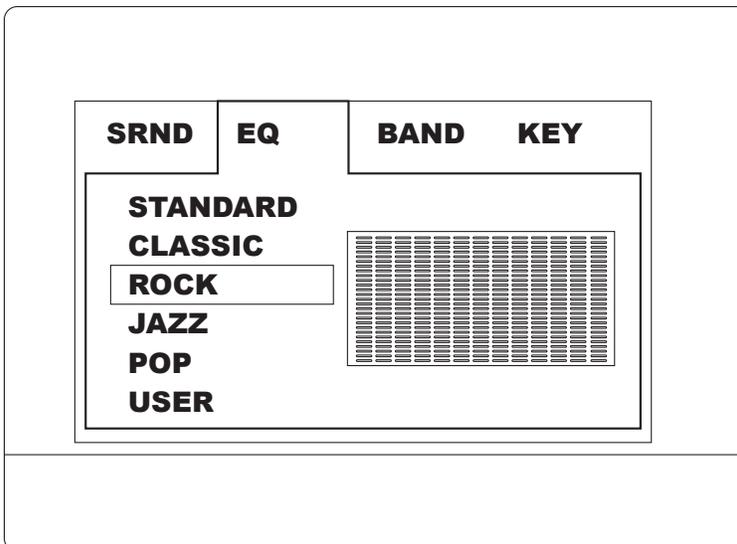


Setting the Equalizer

You can customize particular frequencies in the source music by setting the equalizer. The equalizer is similar to adjusting the MUSIC HI/LO music control, but with more detail over the midrange frequencies.

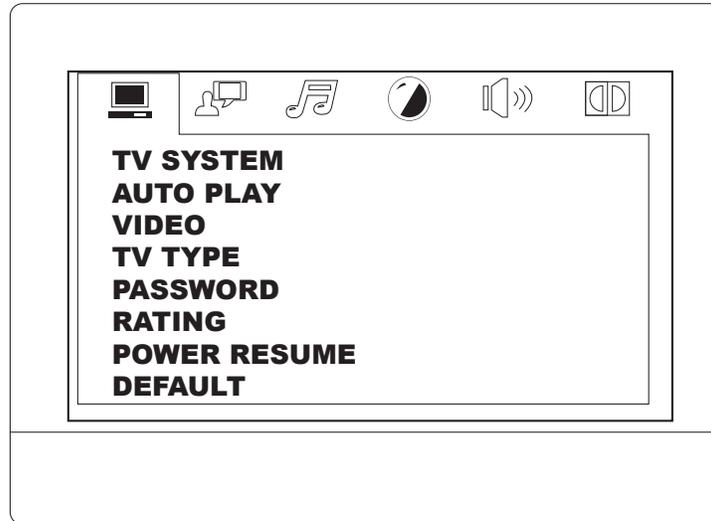
To adjust the equalizer using the remote control:

1. Press the AUDIO button.
2. Press the RIGHT ARROW button to move to the EQ tab.
3. Press the DOWN ARROW button to select an EQ preset.
4. Press ENTER to apply the preset.



System Setup Menu

To access your preferences settings, use the SETUP button on your remote. Use the DIRECTION keys to navigate within this menu for the specific subdirectory desired and press ENTER. The icon file tabs at the top of the screen indicate which menu is highlighted.



1. TV SYSTEM

Use this menu to set your system preferences for regional TV system types NTSC, PAL60, PAL, or AUTO to have your JamCube automatically find any compatible TV system.

2. SCREENSAVER

The DVD screen saver can be toggled ON/OFF. When set to ON, after a period of inactivity, the screen will display graphics. Use DIRECTION keys to make your selection.

3. VIDEO

Refer to your TV manual to determine which type of video it supports. You can choose between INTERLACE-YUV, TV-RGB, P-SCAN YPBPR or S-VIDEO.

4. TV TYPE

This menu actually refers to TV display mode. Choose between 4:3PS for Panoramic Screen, 4:3LB for Letterbox, or 16:9 based on your viewing preference.

5. PASSWORD

The password to lock or unlock RATING setting is 0000. If you are a parent and want to limit the types of DVDs viewed with the JAMCUBE, type this password using the NUMBER keys on the remote, and press ENTER. You will see the padlock icon either open or close, affecting the ability of the user to make a selection in the RATING mode.

6. RATING

Choose between levels of KID SAFE {1} and ADULT {8} to designate which types of DVDs you want users to be able to view.

7. POWER RESUME

Select ON to have the JAMCUBE resume playback from the location it stopped during a prior shutdown.

8. DEFAULT

Select this RESTORE to return all system settings to their factory default settings.

System Startup Menu



1. OSD LANGUAGE

This sets on screen display language for the setup menu, playback status and remote functions. Choose from the list of languages provided.

2. AUDIO LANGUAGE

This sets the default audio language when playing DVDs. This setting is not functional for all DVDs, results may vary. Choose from the list provided.

3. SUBTITLE LANGUAGE

This sets the default subtitle language when playing DVDs. Choose from the list provided.

NOTE: Available DVD subtitle languages may vary.

4. MENU LANGUAGE

This sets the default main menu language when playing DVDs. Choose from the list provided.

NOTE: Available DVD menu languages may vary.



1. AUDIO OUT

When connecting the JAMCUBE to an external sound system with digital inputs, choose between:

SPDIF/OFF to disable digital audio output

SPDIF/RAW for Dobby 5.1

SPDIF/PCM for digital 2-CH output

2. KEY CONTROL

This feature functions exactly the same as the KEY CONTROL buttons on the remote control, but with a vertical "fader" instead of a left-right display. Use the DIRECTION keys to locate the fader bar, raise (#/sharp) or lower (b/flat) the output of the disc in half-step increments.



1. BRIGHTNESS

This setting will make the on screen image lighter or darker.

2. CONTRAST

This setting will make light colors lighter and dark colors darker.

3. HUE

This setting will change the color tint of the on screen image.

4. SATURATION

This setting will increase or decrease the amount of color in the on screen image.



1. DOWNMIX

LT/RT - Select this option when playing a multiplexed format disc.

STEREO - Select for a standard stereo output.

System Setup Menu

1. **OP MODE**

There are two operating modes for the Dolby Digital decoder: LINE OUT and RF REMOD.

LINE OUT – Select for standard line-level output

RF REMOD – Select for an increase in the output level

2. **DYNAMIC RANGE**

The dynamic range setting is used to control the variance in loudness within an audio track. When set to OFF, maximum range in volume will be allowed. When set to high compression, the volume will be compressed for little dynamic range (Good for late night viewing.)

OFF: No Compression

2/8: Low compression

4/8: Medium compression for general use

6/8: High compression for quieter (late night) use

FULL: Full-volume cinematic sound

3. **DUAL MONO**

STEREO OUTPUT: Outputs audio in stereo

L-MONO: Only plays the LEFT channel on both sides

R-MONO: Only plays the RIGHT channel on both sides

MIX-MONO: Plays the LEFT and RIGHT MONO audio on the LEFT and RIGHT speakers

Troubleshooting

There is No Power

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

There is No Sound from Disc

- Make sure everything is connected firmly and properly.
- Make sure the INPUT SELECTOR button is set to DVD.
- Make sure the volume is turned up using the remote control.
- Make sure there are no defective cables.
- Make sure all of your compartments are turned on.
- Make sure all of the components (amp, mixer, TV, etc.) are set to the proper inputs.

There is No Sound from Microphones or Instruments

- Make sure the MIC-INST/LINE button is set correctly. (Page 12)
- Check to make sure the cable(s) are connected and functioning properly.

Can't access USB/SD files

- Make sure the USB drive/SD card is connected firmly and properly.
- Make sure the INPUT SELECTOR button is set to DVD.
- Make sure the USB/DVD button is set to the correct device.
- Make sure the files on the device are compatible with the JAMCUBE: MP3, AVI, JPG, VOB

No Picture

- Make sure everything is connected firmly and properly.
- Make sure there are no defective cables.
- Make sure all of your components are turned on.
- Make sure all of the components (amp, mixer, TV, etc.) are set to the proper inputs.
- Make sure the TV or monitor is working correctly.

The Disc Does not Play

- Make sure the Source Selector Switch is set to DVD.
- Make sure the disc is inserted correctly (label side up).
- Make sure the disc is clean and not scratched.
- If using a CD-R/RW, try using a different brand as some brands might not be compatible.
- Clean the DVD lens using a DVD lens cleaner.

The Picture is Unclear

- Make sure the disc is not dirty or damaged.
- Make sure that the TV TYPE is set correctly:
 - NTSC: In North America, Japan and many other Asian countries
 - PAL: In Europe
- Try restarting the disc player.

Notes

Notes

Notes

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