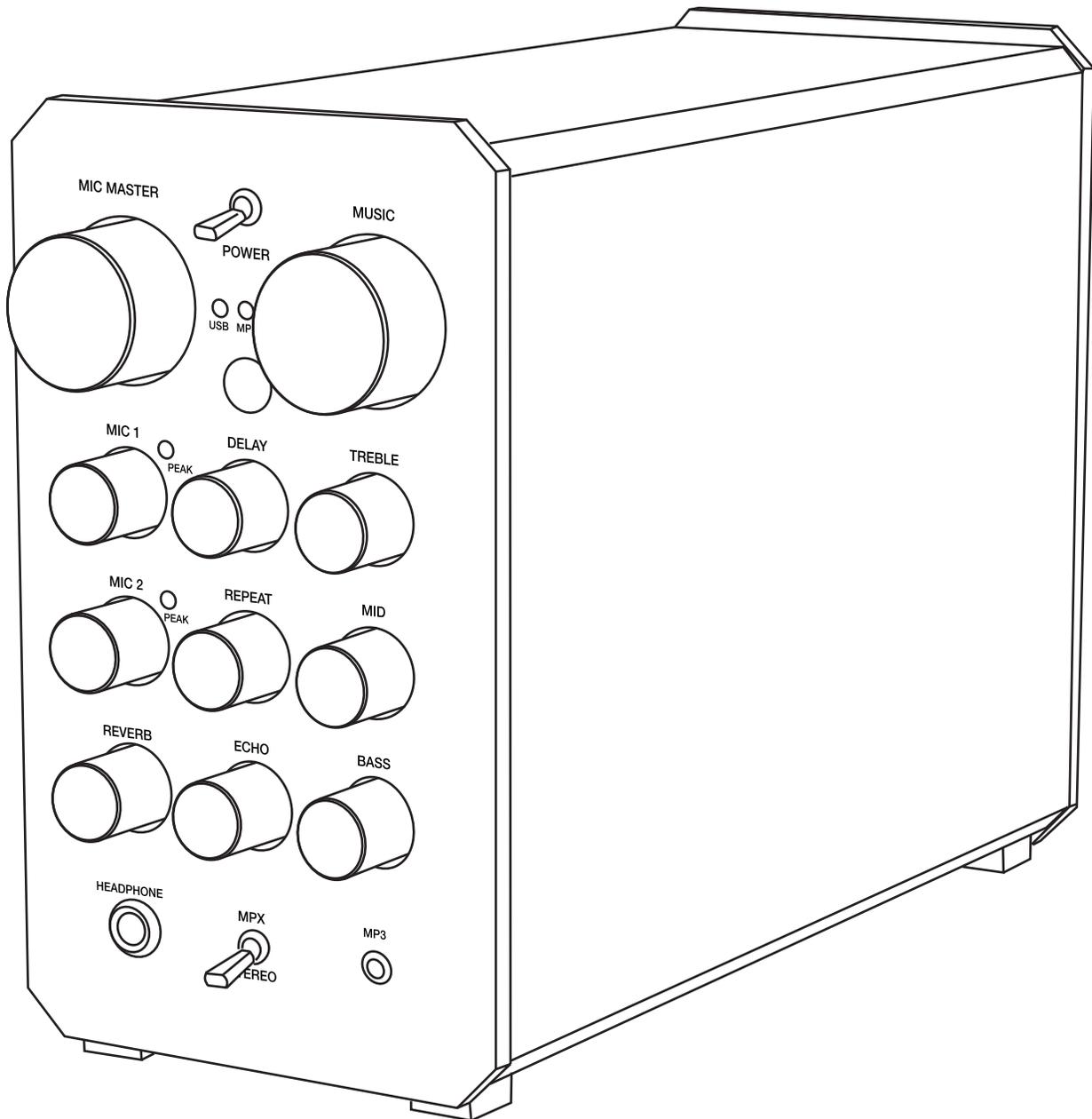


VocoPro[®]

PROFESSIONAL VOCAL SYSTEMS[™]



CASAMAN

Professional Digital Karaoke Mixing Amplifier

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

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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.
- 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

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

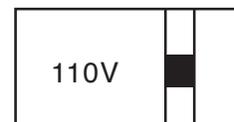
1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent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





Welcome

And thank you for purchasing the **CASAMAN** 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 reinforce 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** 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 KJ 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

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

Getting Started

Introduction

Thank you for purchasing the Casaman. By using Class D amplifier technology by ICEpower® - a subsidiary of Bang & Olufsen®, the Casaman provides audiophile sound quality while weighing in at under 6 lbs. Don't let the light weight fool you; the Casaman packs a serious punch. We are very proud of our new amplifier and think you will be too.

Features

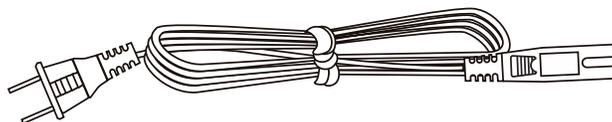
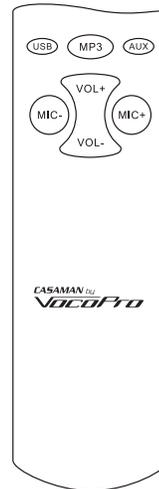
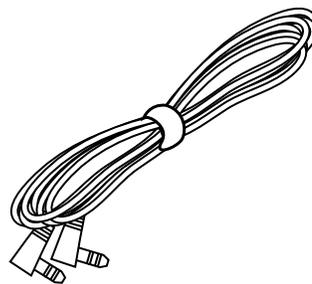
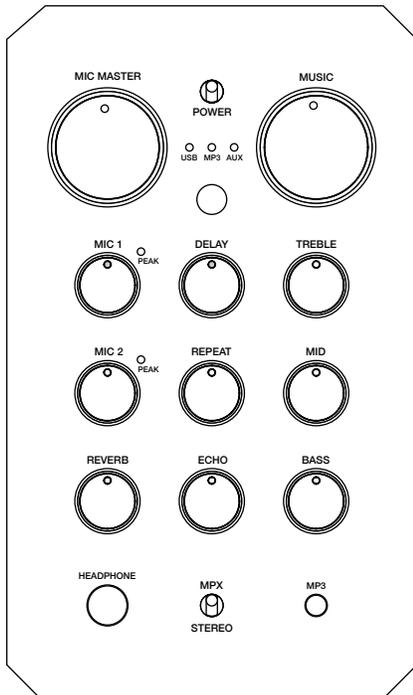
- Power rating: 100W+100W MAX/50W + 50W RMS
- Amplification by ICEpower®: Subdivision of the world famous Bang & Olufsen® Group
- Class D power: Exceptional power efficiency and low heat performance
- ¼" TRS audio inputs: Balanced and unbalanced audio connections
- 1/8" audio input: Front-mounted for easy connection to smartphones, tablets, and laptops
- Compact and lightweight: Small form-factor for custom installations
- Binding post speaker outputs: Versatile speaker connections
- Front panel LED indicators: Easy system status at a glance

Unpacking

Your Casaman has been thoroughly checked and tested prior to shipping and handling. Upon receipt, please make sure that the box and contents were not damaged en route. After unpacking, we recommend that you save the shipping box and packaging materials in case you need to send in your unit for service.

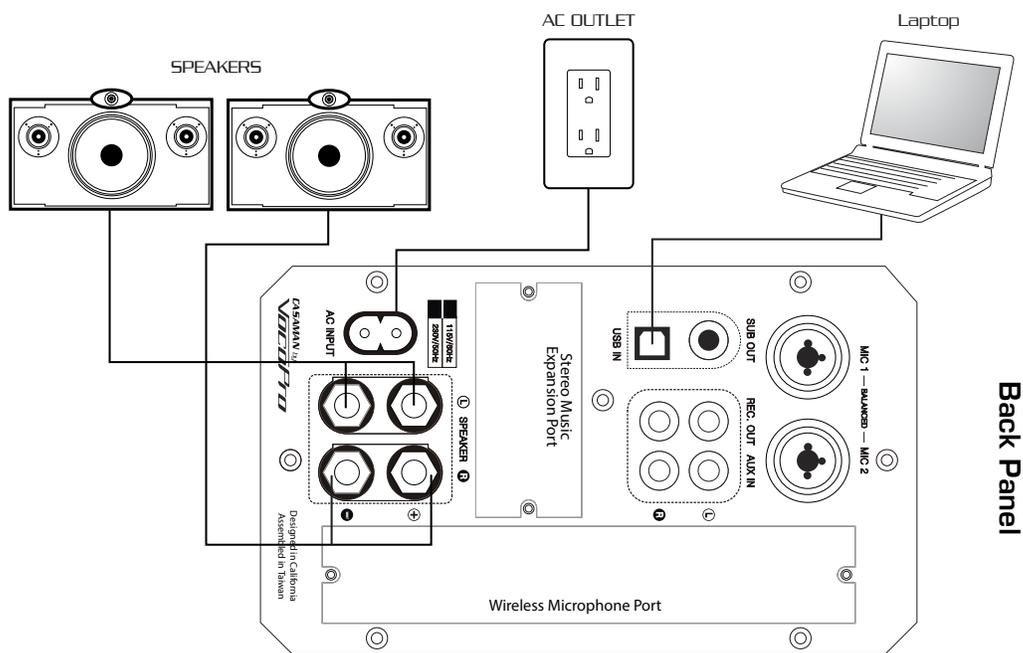
Box Contents

Casaman
Remote Control
1/8" to 1/8" stereo cable
Power cable

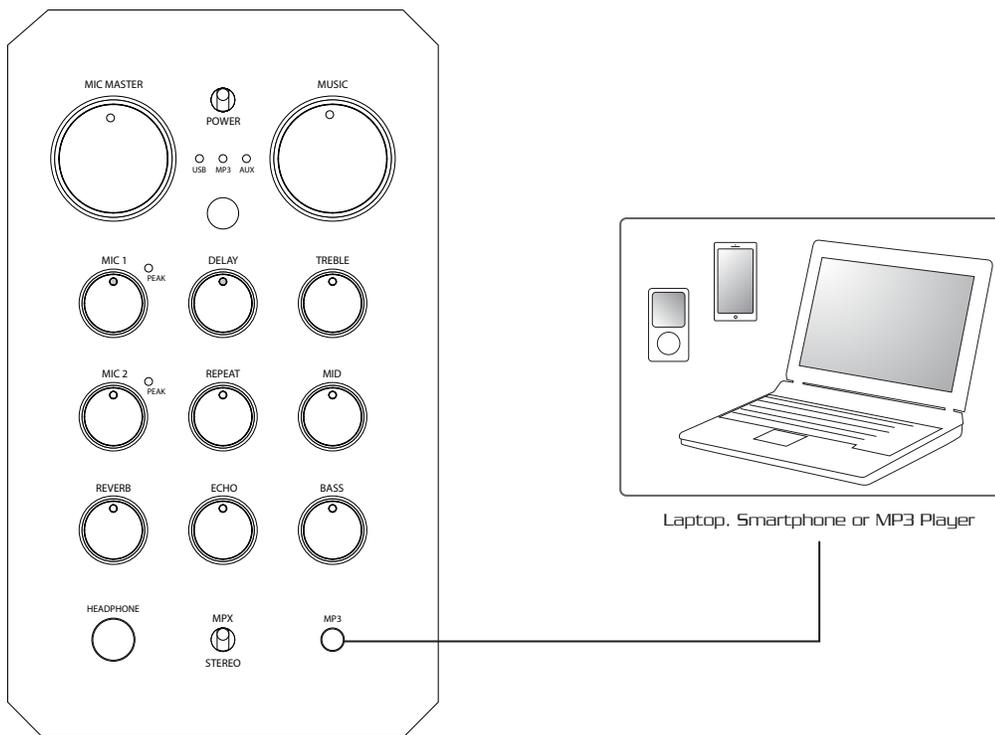


Getting Started

Connection Diagram

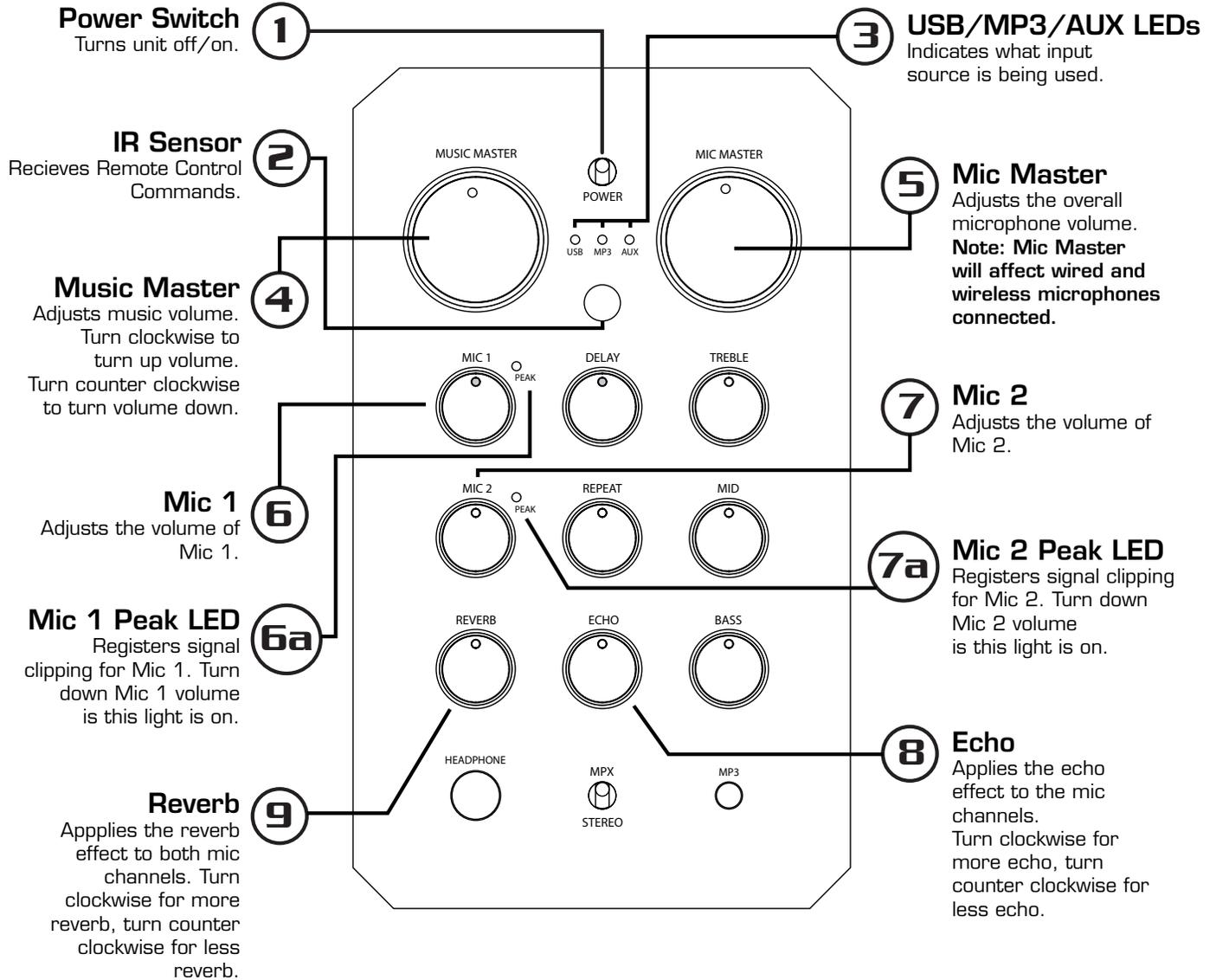


Front Panel



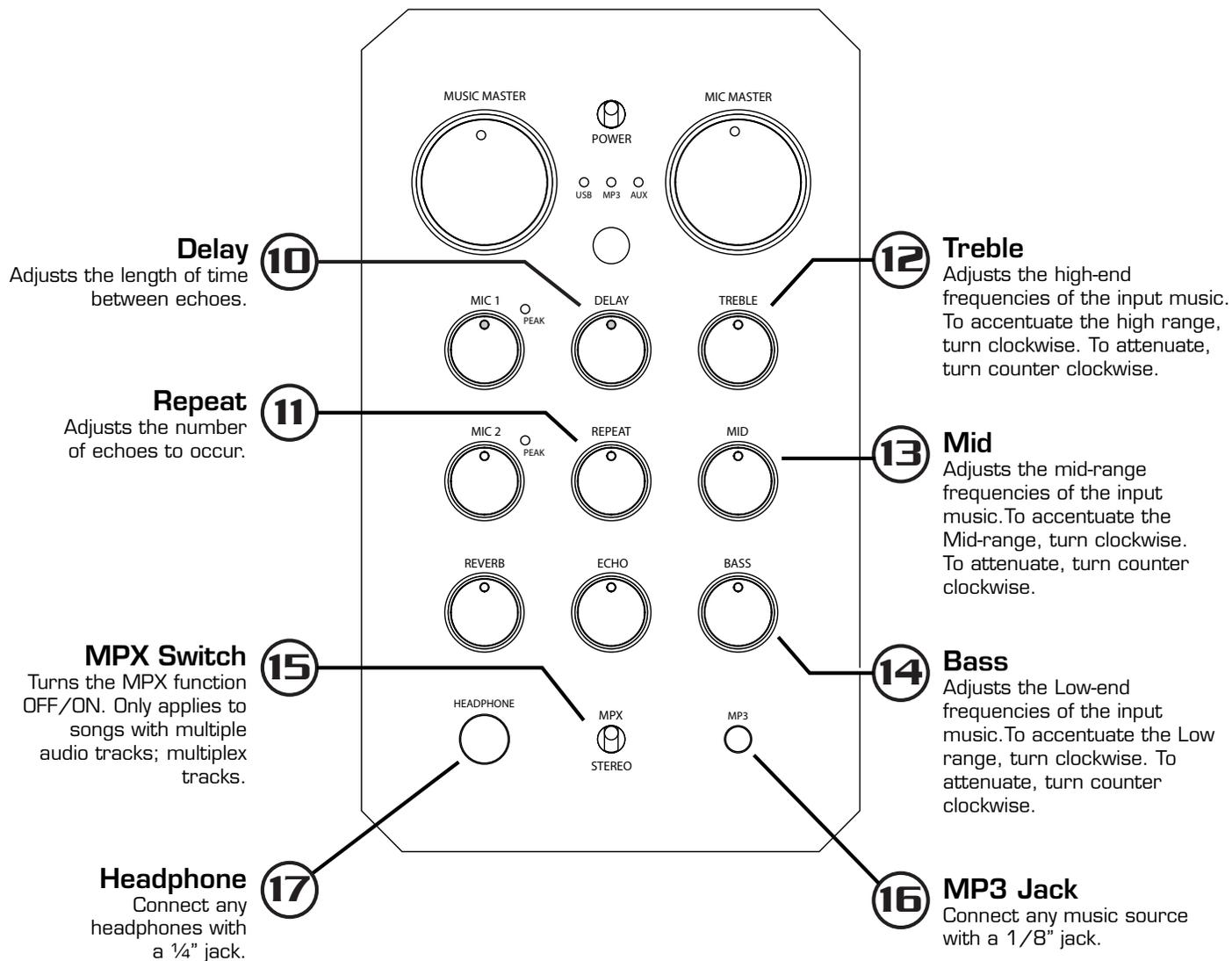
Features at a Glance

Face Panel



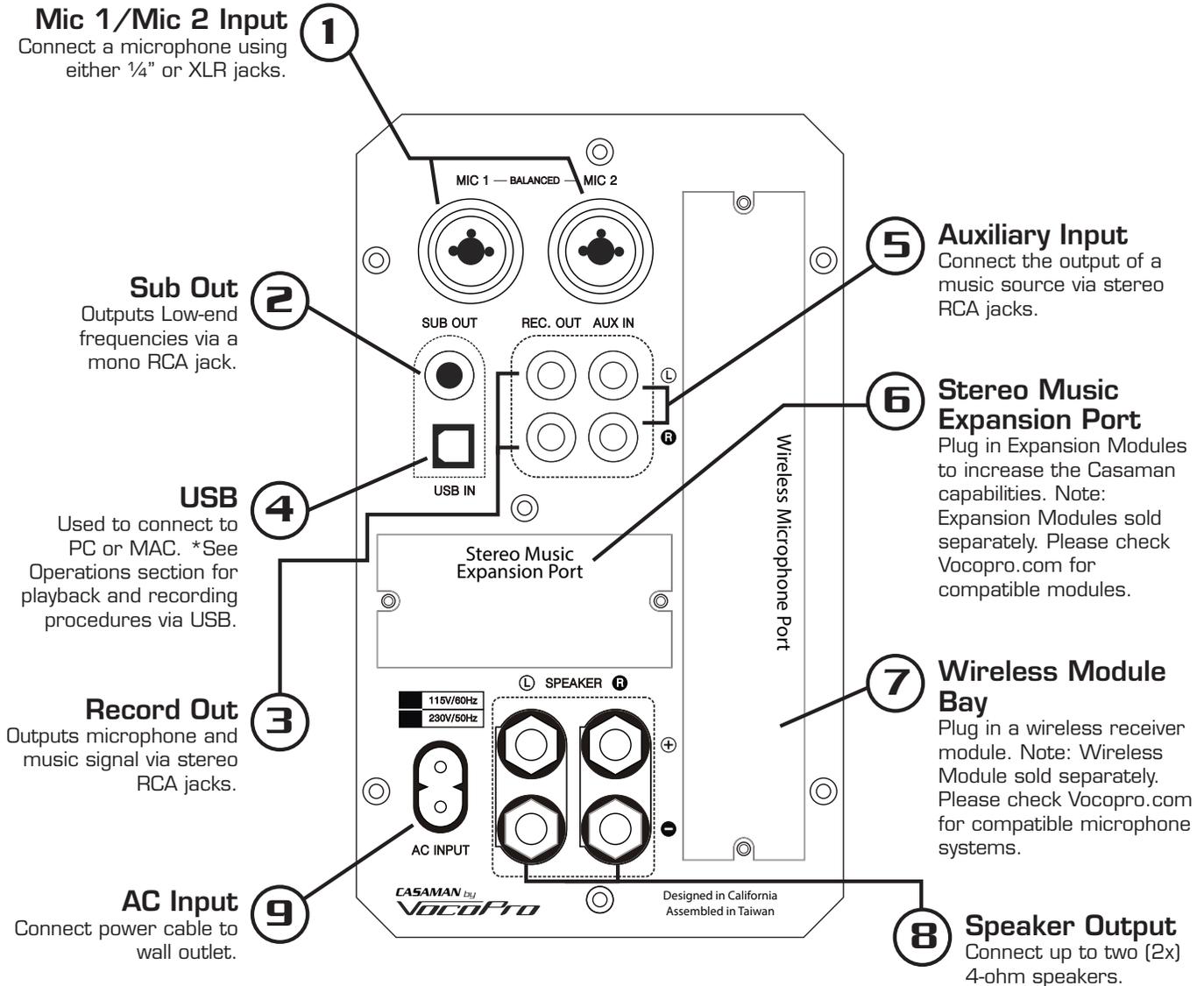
Features at a Glance

Face Panel Cont.



Features at a Glance

Back Panel



Features at a Glance

Remote Control

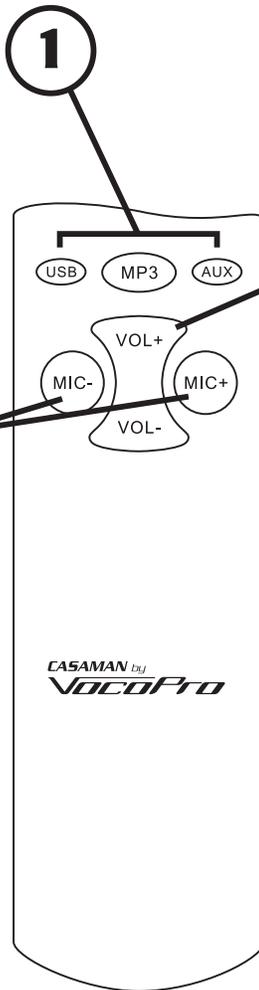
Input Select Buttons

a. USB b. MP3 c. AUX

Note: If an Expansion Module is installed, its audio signal will be overlaid any other input source being used. To isolate the Expansion module audio, stop playback on all other connected input sources.

Microphone Volume Buttons

Mic + raises the volume of the microphones. Mic - lowers the volume of the microphones. Applies to both wired and wireless mics connected to the Casaman.



Volume Buttons

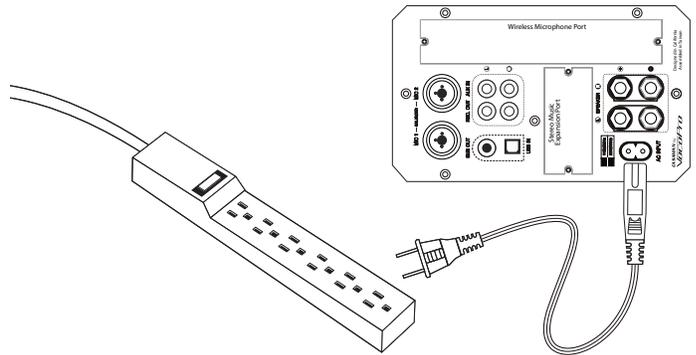
Volume + raises the level of the music. Volume - lowers the volume of the music.

Getting Connected

Power

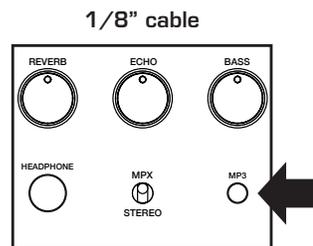
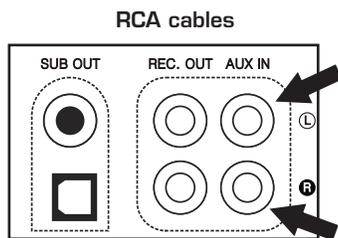
Using the supplied power cable, connect one end to an AC power receptacle, and connect the other end to the power jack on the Casaman's back panel.

NOTE: The Casaman is power configuration is factory set. For customers on a 220V power grid, make sure that your Casaman has been configured for 220V use. You can check this on the top panel power designation. If it is not configured for 220V use, contact VocoPro tech support at +1(909) 593-8893 or techsupport@vocopro.com.



Audio

You can connect source audio to the RCA jacks on the rear panel or to the 1/8" jack on the front panel.



The 1/4" input jacks on the rear panel accept both unbalanced TS and balanced TRS cables. If you are unsure whether to go balanced or unbalanced, here are a few general guidelines: 1) home stereo equipment typically uses unbalanced audio connections, while professional audio equipment uses balanced, and 2) if your source audio cable is less than 10 ft, unbalanced is fine; if it is more than 10 ft, go balanced.

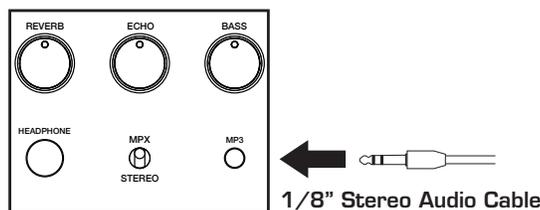


TS unbalanced



TRS balanced

The front-mounted 1/8" offers a convenient way to connect audio from devices such as smartphones, tablets, computers, or other devices with an 1/8" audio output. This audio input is pre-amplified, so that audio signal will be louder from this input than the RCA inputs on the rear panel.



1/8" Stereo Audio Cable

Getting Connected

Speakers

Before we get into connecting speakers, there are two important issues to consider: speaker impedance and multiple speakers.

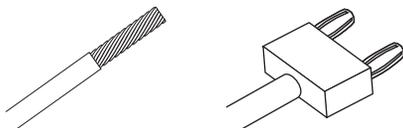
The Casaman is rated to perform as low as 4Ω (ohms). The Ω (ohms) rating is a measure of the speaker's impedance. Basically, the rating tells you how much amplifier power will be passed through the speakers. For example, a 4Ω (ohms) speaker has less impedance than an 8Ω (ohms) speaker, and thus will offer less resistance to the flow of energy from the amplifier. With less resistance, a 4Ω (ohms) speaker will pull more power from the amplifier than an 8Ω (ohms) speaker will. Since 4Ω (ohms) speakers are capable of drawing out more of the amplifier's power, 4Ω (ohms) speakers will play louder than 8Ω (ohms) speakers.

When connecting two speakers to a speaker output, this changes the impedance. Basically, when two speakers of equal impedance are connected to a speaker output, the impedance is cut in half. So two 8Ω (ohms) speakers connected to a single channel now has a 4Ω (ohms) load. Because the Casaman is rated at no lower than 3Ω (ohms), you can only connect two speakers to a speaker output if they are 6Ω (ohms) or above.

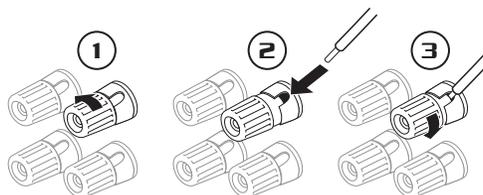
You can use speaker cable with either bare wire or banana plug ends.

Speaker 1	Speaker 2	Overall Impedance
8Ω	8Ω	4Ω
6Ω	6Ω	3Ω
4Ω	4Ω	2Ω

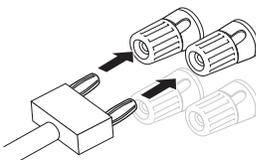
Warning: The 3Ω (ohms) and 2Ω (ohms) settings can damage the Casaman.



If you are using bare wire, loosen the plastic cap on each speaker connector by turning it counter-clockwise. This exposes the interior metal rod. You can either stick the bare wire through the hole in the rod, or line it around the rod itself. Then tighten the cap to secure the connection.

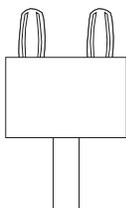


Banana Connector

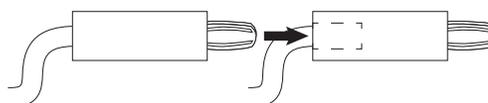


If using banana plugs, first ensure that the plastic caps are fully tightened on the speaker terminals. Connect the speaker cable by pushing the banana plug onto the speaker output with the pins properly aligned and color matched to ensure proper polarity. If connecting two speakers, stack the banana plugs.

Single Speaker



Two Speakers



Warning: Only to be used with 8Ω (ohms) DO NOT stack (2x) 4Ω (ohms) speakers.

Basic Operations

Using the MPX/Stereo Switch

The MPX switch will change the Casaman into pseudo-stereo mode, the Left Channel audio being sent through both Left and Right speakers. It is intended for use with Multiplexed tracks, songs designed to have the main vocals removed. If used with non-Multiplexed tracks, it may cause the audio to be unintelligible or sound improper.



HEADPHONE



STEREO



MP3

Connecting to a Computer via USB

IF USING A PC:

Playing music to the Casaman.

When connected via USB to the computer, the appropriate drivers will install automatically and will change the audio settings required to send the audio to the Casaman.

Note: These settings revert to normal once the Casaman is disconnected from the computer.

Recording Audio from the Casaman.

- When connected via USB to the computer, any audio (music and microphone signal) played through the Casaman will stream back to the computer.
- Use a recording program to capture the audio the Casaman is sending to the computer.

IF USING A MAC:

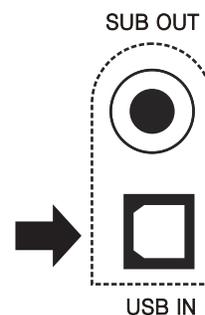
Playing music to the Casaman.

Please refer to your Apple computer manual for detailed instructions regarding audio settings.

- When connected via USB to a MAC, the appropriate sound settings must be altered to select "USB Audio Codec" as the primary *output* destination.
- Use a music program to playback tracks and the audio will stream to the Casaman via the USB cable.

Recording Audio from the Casaman.

- When connected via the USB to a MAC, the appropriate sound settings must be altered to select "USB Audio Codec" as the primary *input* source.
- Once the settings are changed, any audio (music and microphone) played through the Casaman will stream back to the computer.
- Use a recording program to capture the audio the Casaman is sending to the computer.



Installing a Stereo Expansion Module

- Locate the stereo expansion port.
- Remove the metal cover plate and locate the 6-pin ribbon cable inside.
- Firmly press the 6-pin ribbon cable into the 6-pin socket on the expansion module.
- Slide expansion module into the bay and secure it with the two screws.

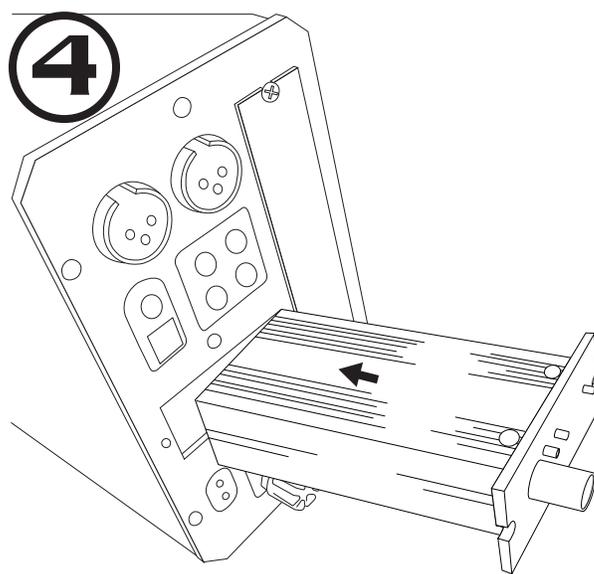
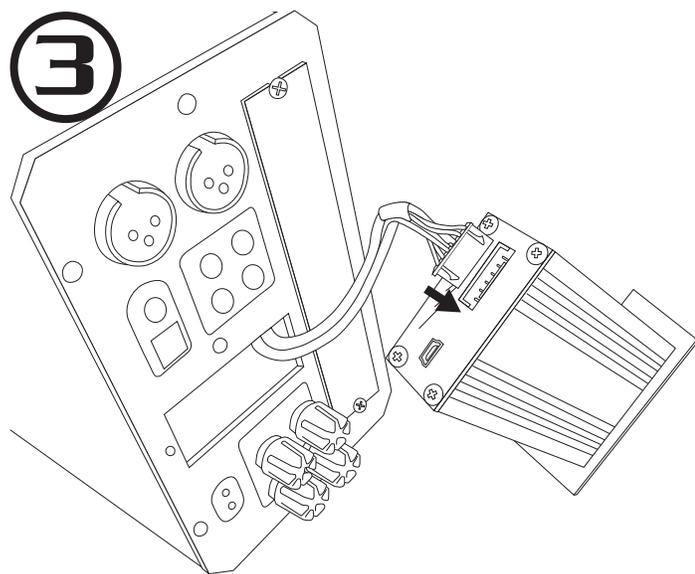
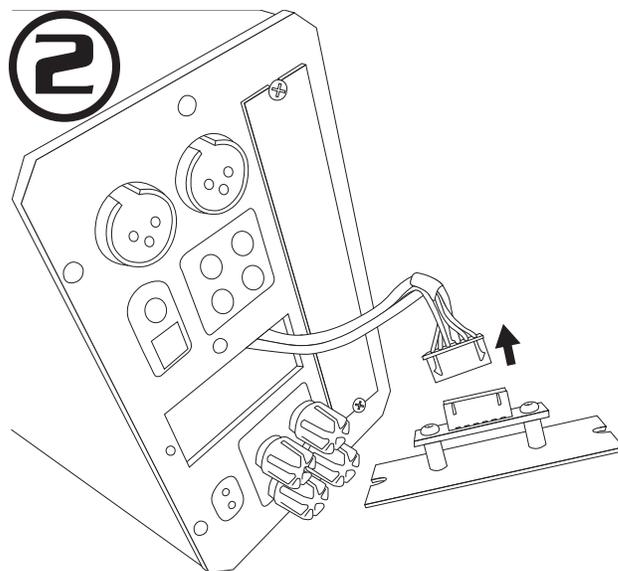
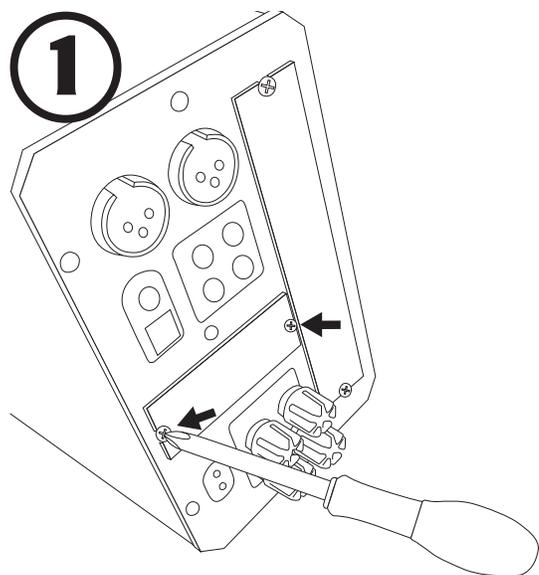
Note: When the expansion module is installed, the mic+music will be overlaid on any other input source in use.

Basic Operations

Installing a Stereo Expansion Module

1. Locate the stereo expansion port.
2. Remove the metal cover plate and locate the 6-pin ribbon cable inside.
3. Firmly press the 6-pin ribbon cable into the 6-pin socket on the expansion module.
4. Slide expansion module into the bay and secure it with the two screws.

Note: When the expansion module is installed, the expansion module audio will be overlaid on any other input source in use.



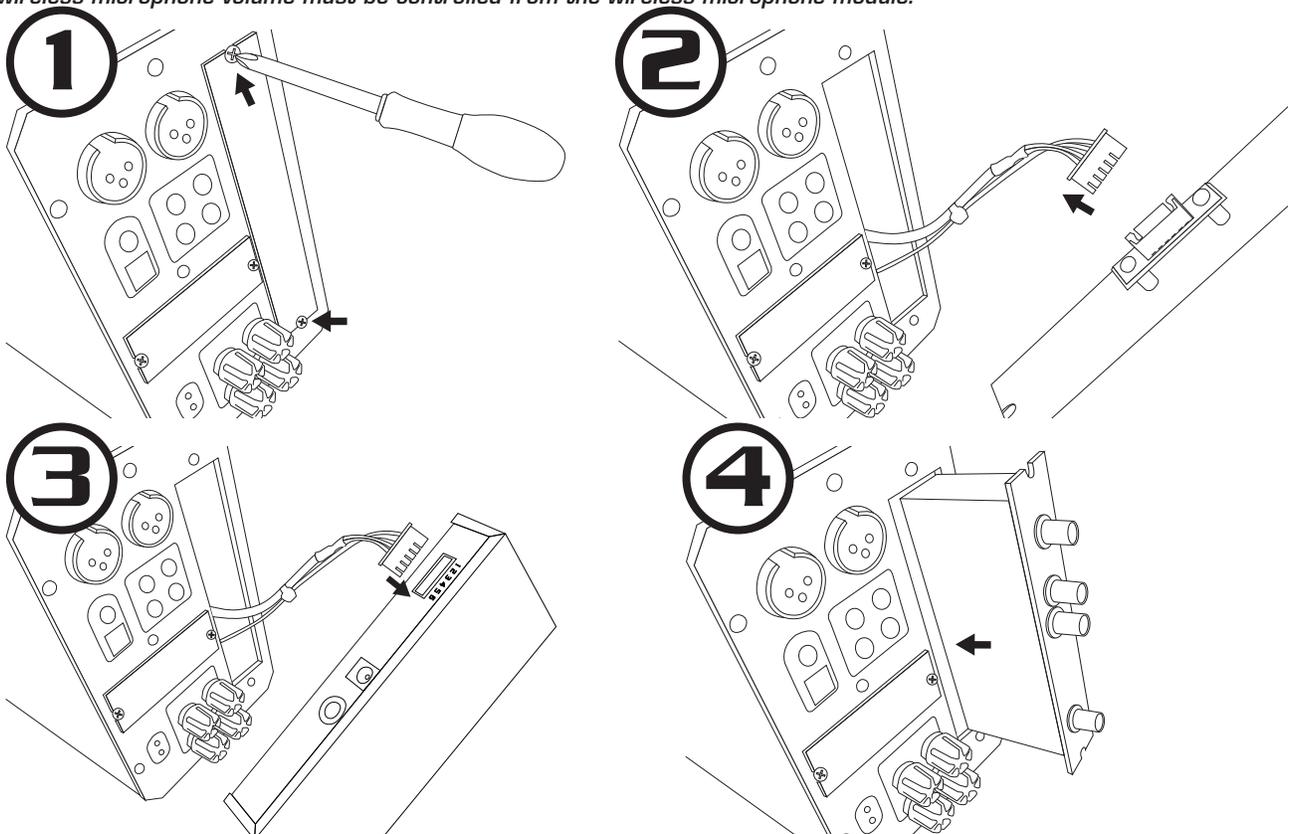
Basic Operations

Installing the Wireless Microphone Module

1. Locate the wireless module bay.
2. Remove the metal cover plate and locate the 6-pin ribbon cable inside.
3. Firmly press the 6-pin ribbon cable into the wireless mic module.
4. Slide the wireless module into the bay and secure it with the two screws.

Note: The wireless microphone signals will be mixed over any wired microphones that may be plugged into the Casaman.

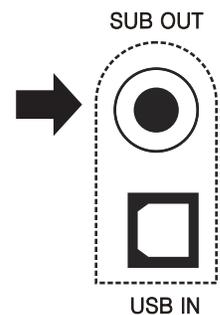
Note: Mic 1 & 2 volume knobs will affect both wired and wireless microphones plugged into the Casaman. If both are connected, the wireless microphone volume must be controlled from the wireless microphone module.



Connecting a Subwoofer

Powered Subwoofers: The Sub Out jack is meant for use with what's known as an active subwoofer; one in which the amplifier is built into the subwoofer. Plug the mono- Sub Out into either Left or Right channel inputs of the active subwoofer.

Non-powered Subwoofers: If used with a direct amplifier and a passive subwoofer, a 1/4-to-RCA cable is needed to connect the Casaman Sub Out to the input of the subwoofer amplifier.



Specifications

INPUTS SENSITIVITY:

Mic 1 & 2 (Balanced) 1.5mV/1K Ω (XLR Comb)

AUX 0.3V/47K Ω (Ohms) (RCA Jack)

MP3 150mV/47K Ω (Ohms) (3.5mm Jack)

AUX USB Audio CODEC (PCM-2902)

TREBLE +/-12dB (10KHz)

MID +/-12dB (1KHz)

BASS +/-12dB (100KHz)

POWER OUTPUT 1KHz, @1% THD (STEREO) 47W + 47W into 4 Ω (Ohms)

FREQUENCY RESPONSE 20Hz-20KHz +/- 0.5dB (All Loads)

SIGNAL TO NOISE RATIO 96dB

THD+N (4 Ω AES 17) 0.003% f=1KHz, Po=1W

REC OUTPUT 0.75V/600 Ω (Ohms) (RCA Jack Unbalanced)

SUB WOOFER OUTPUT (LPF 200Hz) 1V/600 Ω (Ohms) (RCA Jack Unbalanced)

DIMENSIONS 110mm(W) x 273mm(D) x 186.0mm(H)

NET WEIGHT 2.80Kgs

Troubleshooting

There is no power

- Check the power cable connection both at the mains and the Casaman. Also make sure that the Casaman is configured for local power (115V/230V).

One channel is not working

- Check the source audio device. Is it configured correctly? Are both channels working? If using RCA cables, are both cables working and connected properly?

Sound is distorted

- This is most likely occurring at the source device. Make sure the signal is set to an appropriate level. Are there clip LEDs lighting on the source device?

The unit has shut down on its own.

- The unit has exceeded its maximum operating temperature. Check the impedance of connected speakers. Is the total load lower than 4Ω (ohms)? Refer to the Getting Connected section.

COMMONLY ASKED QUESTIONS

How do I get the Bluetooth Module as an Input Source?

The Bluetooth module signal is overlaid the input source currently playing. To isolate the Bluetooth module, simply pause/stop all other music sources connected to the Casaman.

I'm using a Mac, and I can't get the audio to or from the Casaman. Help!

Please refer to your Apple computer owner's manual for detailed instructions on how to switch audio output/input settings.

The settings that dictate where your computer sends audio needs to be changed to send it to the Casaman, which is listed as "USB Audio Codec" in the audio setting menu.

To record, you have to change the settings that dictate where your computer receives audio from. Change it to accept audio from "USB Audio Codec".

Why won't the MPX switch remove the vocals from my music?

The MPX switch will only work properly when applied to what's called Multiplexed tracks and discs. Multiplexed discs/tracks are recorded in such a way that allows the removal of the main vocals; if the track is not a multiplex enabled song then the switch will not remove the vocals entirely.

Please contact Vocopro at 800-678-5348 if you have any questions regarding the operation of this unit or any missing/defective parts.

