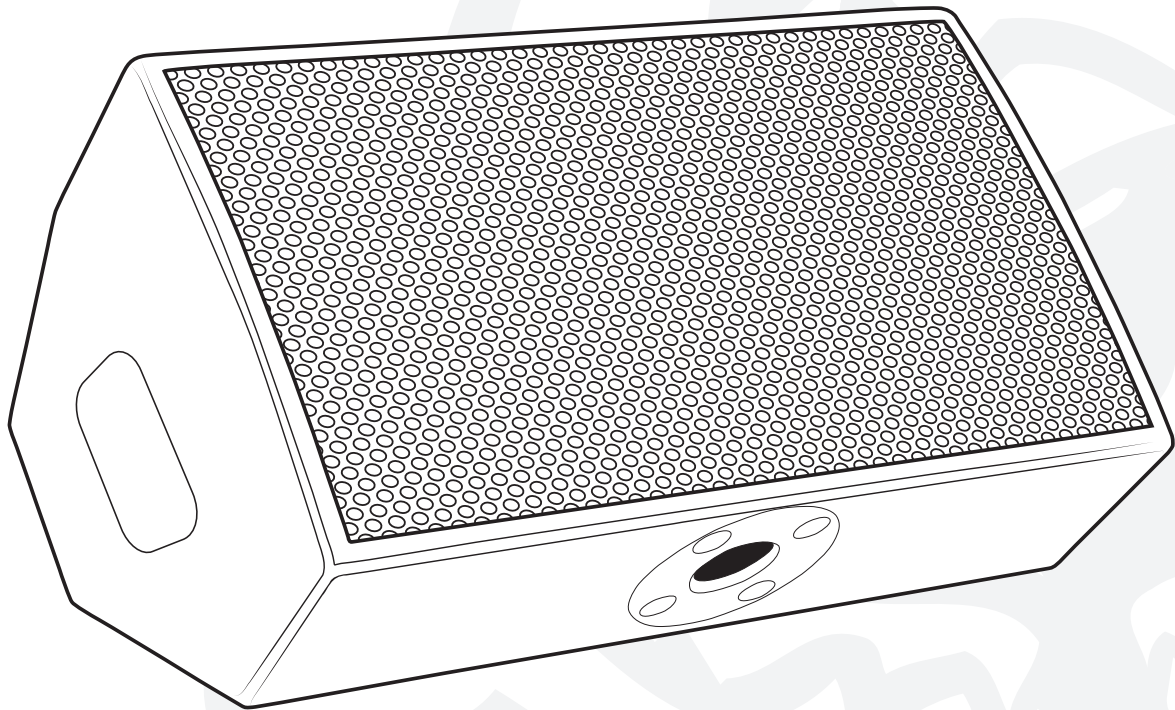


# **VocoPro**<sup>®</sup>

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**PROFESSIONAL VOCAL SYSTEMS**<sup>™</sup>



## ***STAGE-MAN***

**200W 3-Channel Active Vocal Monitor with DSP Effects**

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

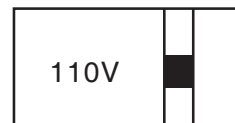
1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent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

-Information courtesy of the Deafness Research Foundation

# Features

## Features

- Small wedge design easily transports from stage to studio and can be mounted on a speaker stand for loudspeaker applications
- Built-in digital SD recorder to conveniently capture to SD card all performances and practice sessions
- Full compliment of DSP effects with ON/OFF switch designed especially for vocals and spoken word
- Three channels with connections for 2 microphones, MP3 player/laptop, and stereo audio device
- Individual loop jacks on each channel for connecting to external effects devices
- Five-band equalizer to fine-tune the sound of your source music
- Retain full control over your vocal sound on stage without the need of a soundman
- Wireless modules available to expand your STAGE-MAN



# Before Getting Started

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

## Unpacking the STAGE-MAN:

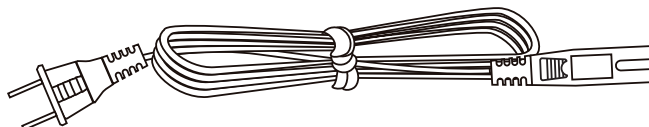
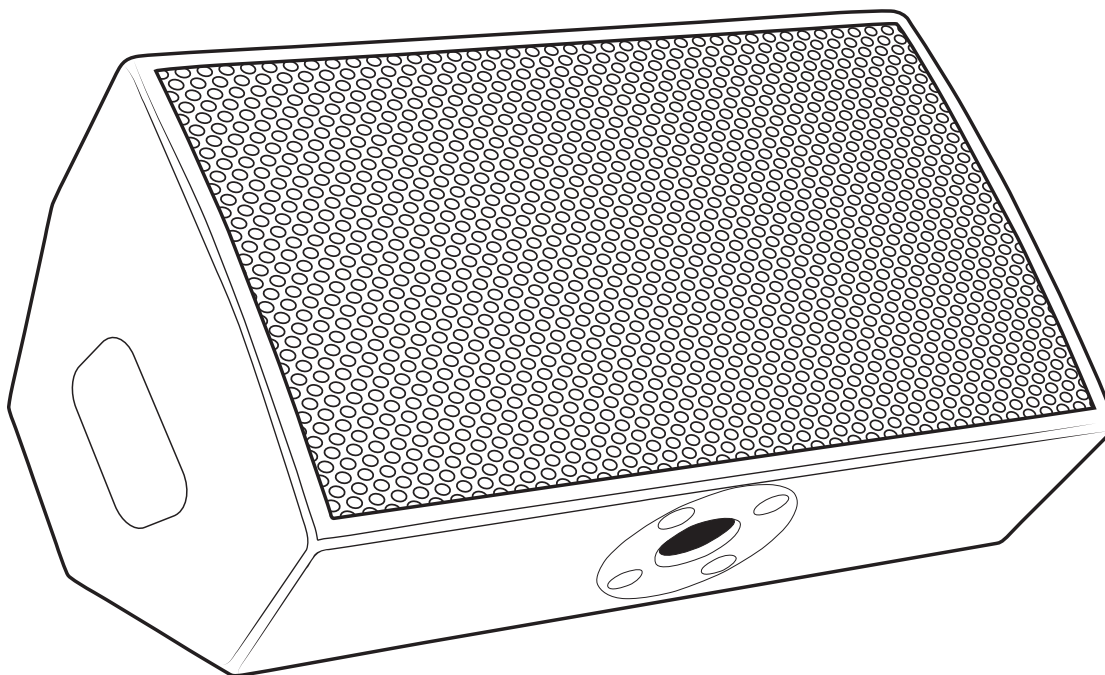
This STAGE-MAN has been inspected and tested prior to being shipped. During unpacking, carefully check that you have received all the required components. This is also the time to check the main unit for damage. If any damage is noticed, promptly report this to your shipping carrier. Save the shipping boxes and all packaging materials in case the unit needs to be shipped for service.

## BOX CONTENTS

STAGE-MAN Main Unit (1)

Power Cable (1)

Owner's Manual (1)



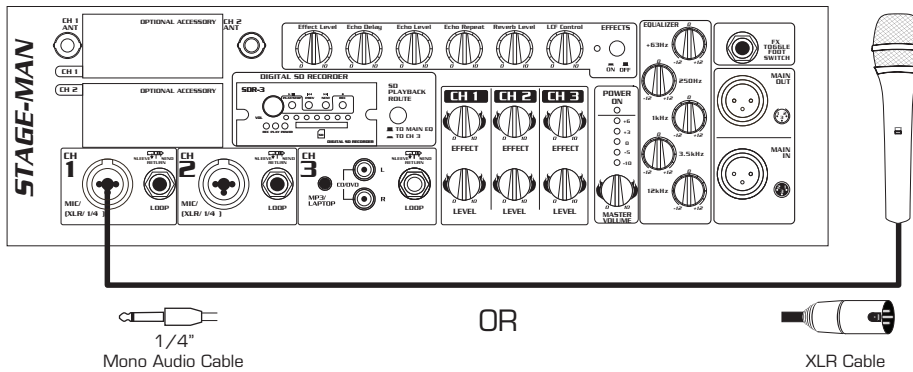
# Getting Connected

## CH 1-2 Connections

The 1/4" – XLR combo jacks on CH 1 and CH 2 allow you to connect up to two wired dynamic microphones or musical instruments. Note that UHF modules are installed on either CH 1 or CH 2, they will share the channel with devices connected to the 1/4" – XLR inputs.

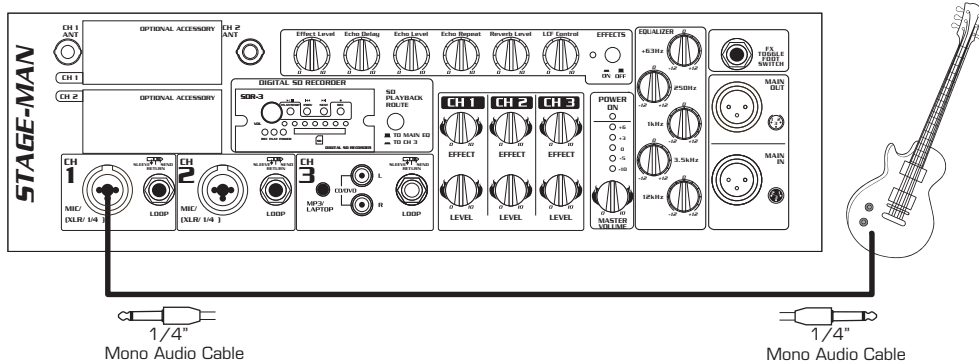
## Connecting Microphones

Connect standard dynamic microphones using a microphone cable with either a 1/4" or XLR plug.



## Connecting Musical Instruments

Connect a musical instrument with a 1/4" audio cable.

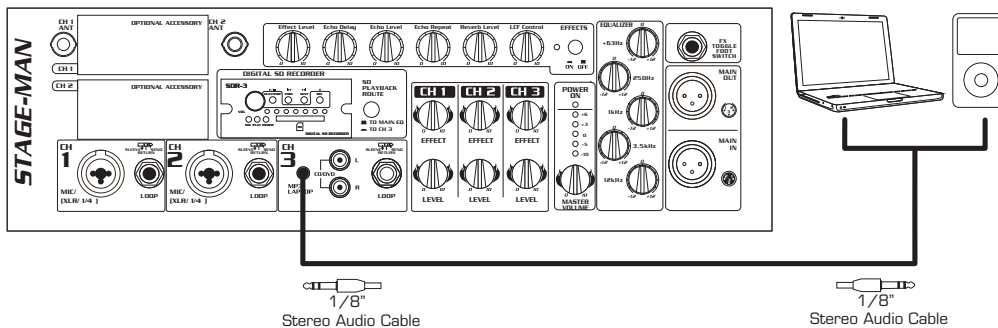


## CH 3 Connections

CH 3 is where you connect stereo audio devices. You can connect up to two stereo devices and play them simultaneously. Note that the SDR-3 can also be routed to the CH 3 for playback using the SD PLAYBACK ROUTE button.

## Connecting a MP3/laptop

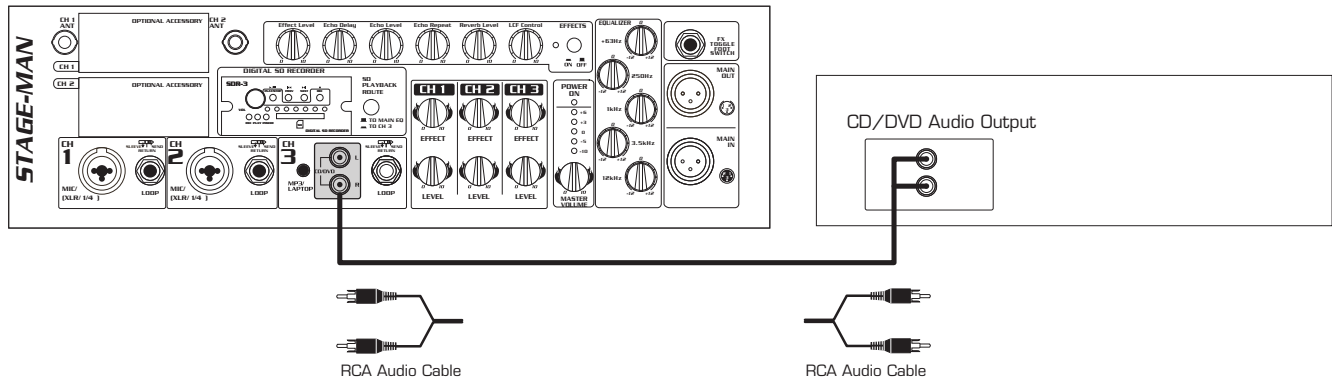
Using an 1/8" to 1/8" stereo audio cable, connect the audio output from your MP3/laptop to the 1/8" MP3/laptop jack.



# Getting Connected

## Connecting a CD/DVD Player

Using an RCA to RCA stereo audio cable, connect the audio output from your player to the L&R RCA CD/DVD jacks.

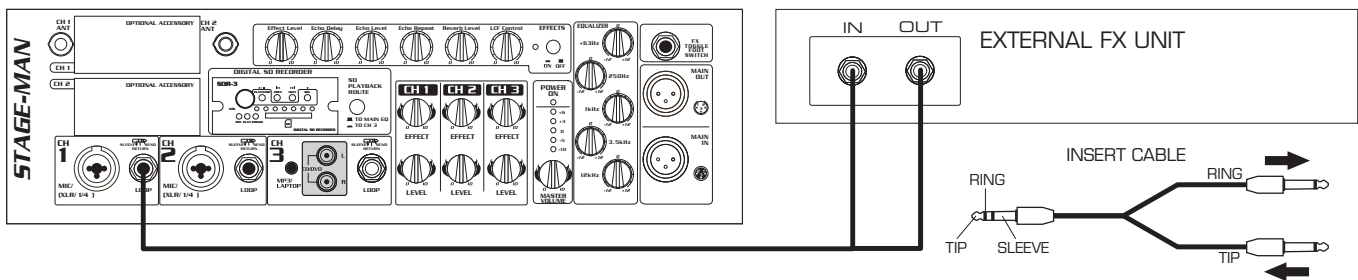


## Loop Jack Connections

An external effects device can be connected to the LOOP jacks on CH 1, 2 & 3. The effects device will only work on the channel it is connected to. For example, if you connect an EQ to channel 3, it will only apply EQ to channel 3. To connect an external device, you need an 'insert' cable (refer to diagram below). Once the external effects device is connected, use the controls on that device to customize the effects applied.

## Connect External Effects Devices to the Loop Jacks

Using an insert cable, connect the stereo end (with two rings) to the LOOP jack of your choice on the STAGE-MAN. For the other side of the insert cable to be connected to your effects device, connect the "send" 1/4" plug (may be labeled TIP) to an input jack, and connect the "return" 1/4" plug (may be labeled RING) to an output jack. NOTE: Please refer to the instruction manual of your external effects device for more information on connecting it to the STAGE-MAN

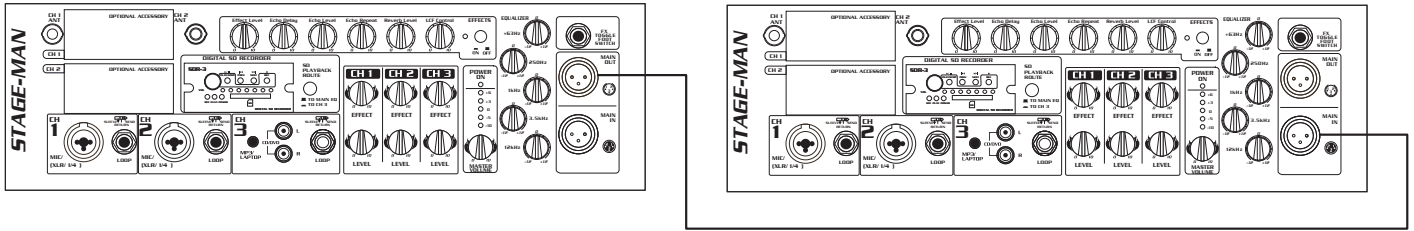


# Getting Connected

## Balanced Input and Output

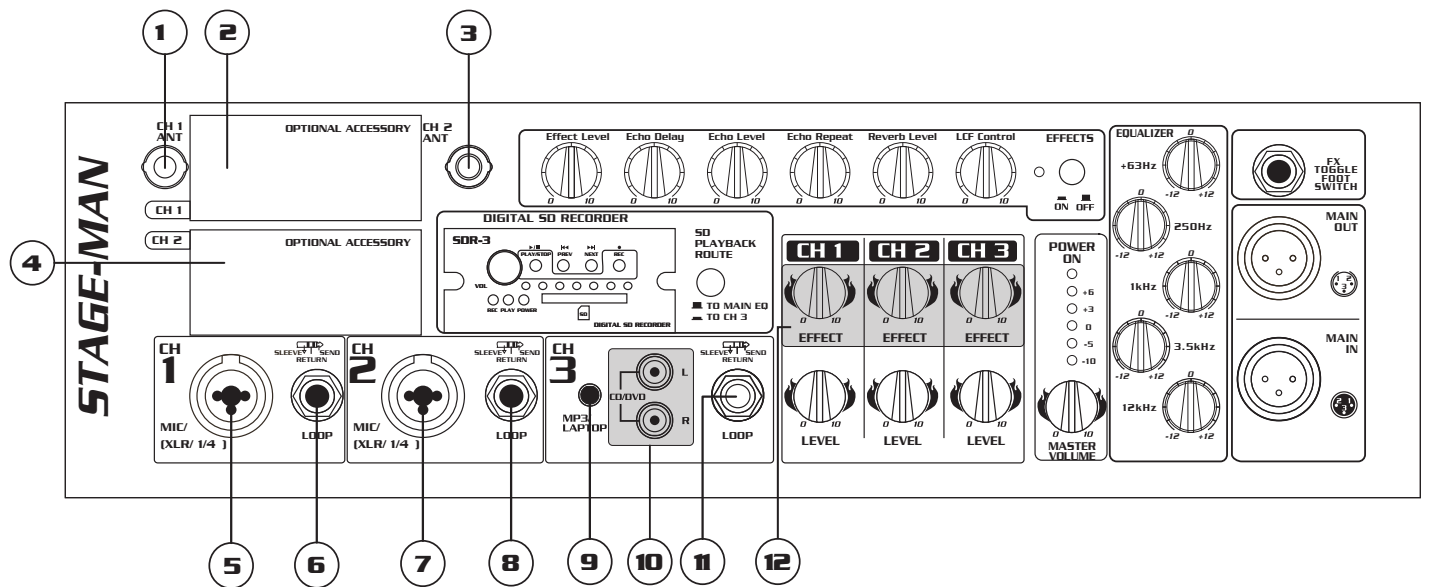
Use these jacks to link multiple STAGEMANs together for extra power. When multiple STAGEMANs are connected, the first in the chain is the master unit. The units after that are slave units that only act as powered speakers. All controls to music and microphone audio are to made on the master unit only.

Using an XLR-XLR cable, connect one end to the LINE OUT jack on the master unit, and connect the other XLR end to the LINE IN jack on the slave unit.



XLR Female to XLR Female Cable

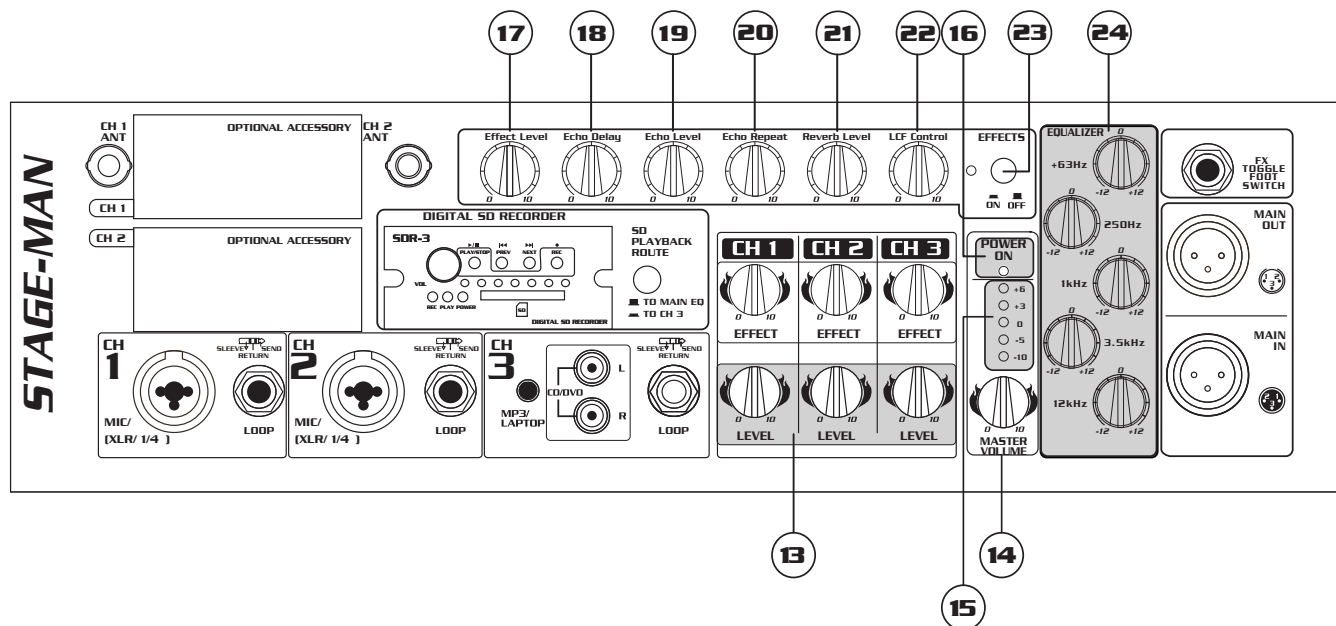
# Descriptions and Features



## Top Panel

1. **CH 1 ANTENNA input (BNC)** – Connect antenna for CH 1 UHF wireless module.
2. **CH 1 EXPANSION port** – Use this port to install a UHF wireless module to CH 1.  
NOTE: CH 1 UHF module is included with STAGE-MAN-I and STAGE-MAN-II models. If you purchased a STAGE-MAN (basic), UHF modules can be purchased separately.)
3. **CH 2 ANTENNA input (BNC)** – Connect antenna for CH 2 UHF wireless module.
4. **CH 2 EXPANSION port** – Use this port to install a UHF wireless module to CH 2.  
NOTE: CH 2 UHF module is included with STAGE-MAN-II model. If you purchased a STAGE-MAN (basic) or STAGE-MAN-I, UHF modules can be purchased separately.)
5. **CH 1 XLR-1/4" input** – Connect a microphone or music instrument to this jack.
6. **CH 1 LOOP jack** – Connect an external effects device to be used with CH 1 to this jack.
7. **CH 2 XLR-1/4" input** – Connect a microphone or music instrument to this jack.
8. **CH 2 LOOP jack** – Connect an external effects device to be used with CH 2 to this jack.
9. **CH 3 MP3/LAPTOP (1/8") input** – Connect audio from an MP3 player or laptop this jack.
10. **CH 3 CD/DVD (RCA) input** – Connect audio from an CD/DVD player this jack.
11. **CH 3 LOOP jack** – Connect an external effects device to be used with CH 3 to this jack.
12. **CH 1/2/3 EFFECT knobs** – Use these knobs to increase/decrease the amount of DSP effects applied to the channels. Turn clockwise to increase, and counterclockwise to decrease.  
NOTE: This knob does not affect the effects level for external effects devices.

# Descriptions and Features



**13. CH 1/2/3 LEVEL knobs** – Use these knobs to increase/decrease the volume level for these channels. Turn clockwise to increase, and counterclockwise to decrease.

**14. MASTER VOLUME knob** – Use this knob to increase/decrease the volume for all the channels (1-3) combined. Turn clockwise to increase, and counterclockwise to decrease.

**15. MASTER VOLUME LED indicators** – These LED indicators display the output level of the master output. Use these indicators to monitor the output level for distortion. When the output level reaches the AMBER LED, lower the master volume with the master volume knob.

**16. POWER ON LED indicator** – This LED will light green when the unit is powered on.

**17. EFFECT LEVEL knob** – Use this knob to increase/decrease the DSP effects applied to all channels (1-3). Turn clockwise to increase, and counterclockwise to decrease.

**18. ECHO DELAY knob** – Use this knob to increase/decrease the level of delay present in the echo effect. Delay is a function of the echo effect that controls the interval time between each echo repetition. Turn clockwise to increase, and counterclockwise to decrease.

**19. ECHO LEVEL knob** – Use this knob to increase/decrease the amount of echo applied to all channels (1-3). The echo level controls repeat and delay levels, as they are part of the echo effect. Turn clockwise to increase, and counterclockwise to decrease.

**20. ECHO REPEAT knob** – Use this knob to increase/decrease the level of repeat present in the echo effect. Repeat is a function of the echo effect that controls the number of echo repetitions that occur before the sound fades completely fades out. Turn clockwise to increase, and counterclockwise to decrease.

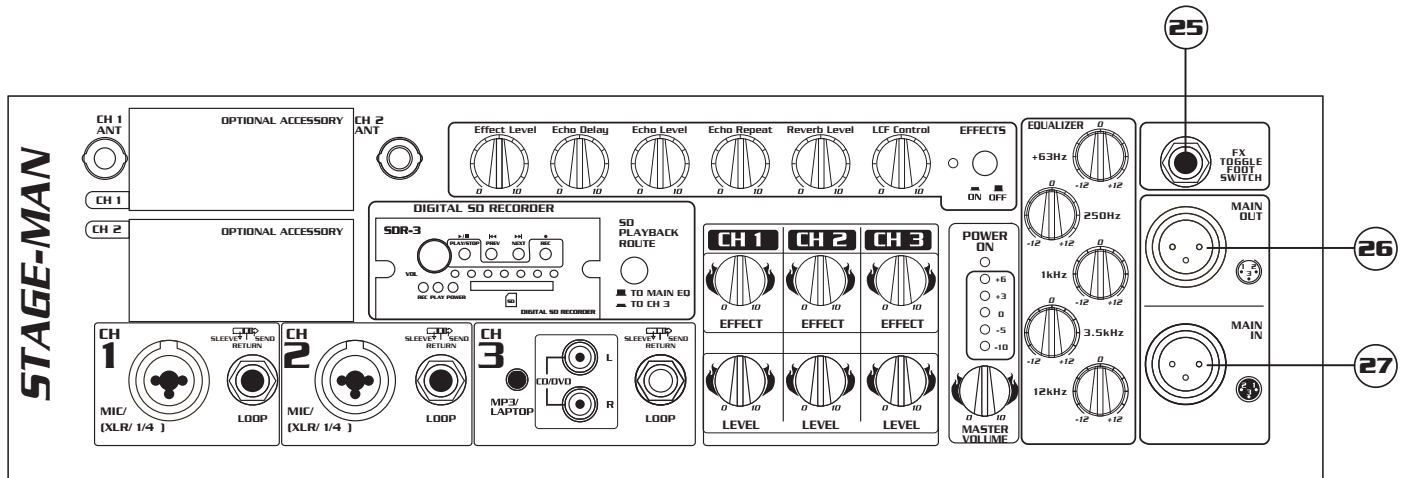
**21. REVERB LEVEL knob** – Use this knob to increase/decrease the amount of reverb applied to all channels (1-3). Turn clockwise to increase, and counterclockwise to decrease.

**22. LCF CONTROL knob** – Use this knob to increase/decrease the amount of high frequency (sibilance) found in the audio signal when using DSP effects. Set to '0' for minimum sibilance and set to '10' for maximum sibilance.

**23. EFFECT ON/OFF button** – Use this button to quickly enable/disable DSP effects to all channels (1-3).

**24. EQ 63Hz – 12kHz knobs** – Use these knobs to customize the sound of the master output (channel 1-3). Turn clockwise to increase, and counterclockwise to decrease.

# Descriptions and Features



**25. FX TOGGLE FOOTSWITCH jack (1/4")** – Connect an external footswitch (sold separately) to this jack. Once connected, use the footswitch to enable/disable DSP effects.

NOTE: The footswitch can only enable/disable DSP effects when the EFFECTS ON/OFF button is set to ON.

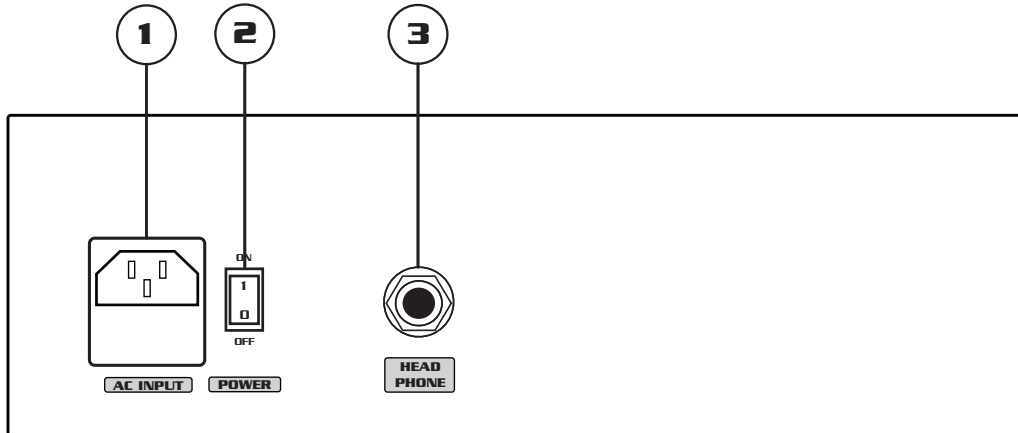
**26. MAIN OUT jack (XLR)** – Use this output to send a pre-amp signal to an external device.

**27. MAIN IN jack (XLR)** – Use this input to route in a pre-amp signal from an external mixer or audio device.

# Descriptions and Features

## Rear Panel

1. **POWER terminal** – Connect power cable to this terminal.
  2. **POWER ON/OFF switch** – Use this switch to turn the unit OFF/ON.
  3. **HEADPHONE jack (1/4")** – Connect a set of headphones with a 1/4" plug to this jack.
- NOTE: Connecting headphones mutes the main amplifier output.



## Bottom/Side Panel

1. **SPEAKER STAND mount** – Accepts standard speaker stand diameter of 1 3/8".





# Operations

## Adjusting the EQ

The 5 knobs each represent an audio frequency band: 63Hz, 250Hz, 1kHz, 3.5kHz, and 12kHz.

Each control adjusts the frequency up to a 12dB boost or cut. If left in the center position, there will be no change to the frequency.

It is important to remember that EQ controls are meant to provide precise adjustments to an audio signal. It is very easy to "over-EQ" an audio signal leading to an inflated and unnatural sound. Human hearing can adapt quite quickly to a particular sound signature, so it is best to find a suitable setting and leave it there until a change in the source audio or environment requires a change in the EQ.

## SDR-3 (STAGE-MAN-I ONLY)

Use the SDR-3 (if installed) to capture audio direct to SD card. Once recorded, the audio can then be routed to either CH 3 or the MAIN mix for immediate playback. 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 that the REC VOL CONTROL does not control the volume level when playing back from the SD card.

**2. PLAY/STOP BUTTON** – This dual function is used to initiate playback of recorded material, and to stop playback, or a recording, in progress.

When not in record mode, press the PLAY/STOP button to start playback. Playback will commence from the last track recorded.

During a recording, press the PLAY/STOP button to stop the recording and conclude the track.

**3. PREV BUTTON** – This button will skip back through previously recorded tracks. When the first track recorded is reached, it will continue to skip back starting with the last track recorded.

**4. NEXT BUTTON** – This button will skip forward through previously recorded tracks. When the last track recorded is reached, it will continue to skip forward from the first recorded track.

**5. REC BUTTON** – This button is used to put the SDR-3 in record mode, initiate recording, and pause a recording in progress without creating a new track.

In stop mode, press the REC button once to place the SDR-3 in record pause mode. This is the time to check the levels of the audio to be recorded and adjust the REC VOL control 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 sections of a recording session into a single cohesive track without breaking it up into several tracks.

**6. REC LED** – This red LED indicates the recording status of the SDR-3. When the SDR-3 is in record pause mode, the REC LED will blink. When a recording is in progress, the REC LED will stay lit until the recording is completed, or is set back to record pause mode.

**7. PLAY LED** – This orange LED will illuminate during playback of recorded material, and during a recording in progress.

**8. POWER LED** – This green LED indicates the SDR-3 is on and drawing power from the STAGE-MAN. This LED should illuminate and stay lit as long as the STAGE-MAN is powered on.

**9. SD CARD SLOT** – Insert your SD card into this slot. The SDR-3 will not record without an SD card in this slot.

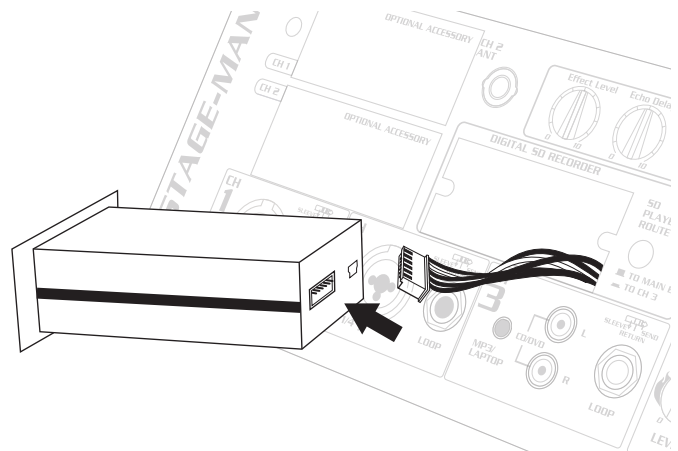
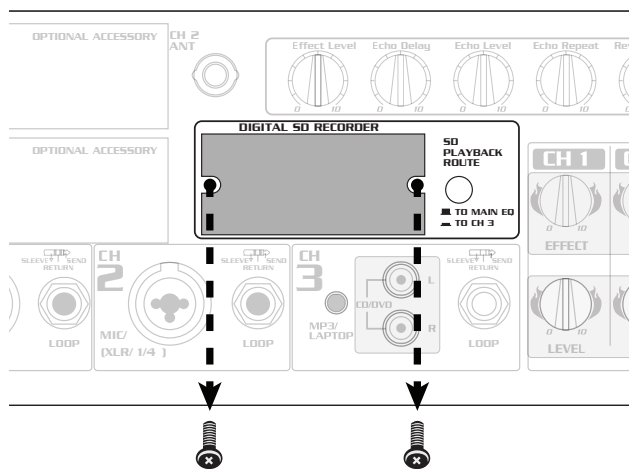
# Operations

**10. REC LEVEL LEDs** – These LEDs visually represent the gain level of the signal being recorded. There are five green LEDs and two red LEDs. An optimal recording level will illuminate all the green LEDs with minimal activity on the red LEDs.

**11. SD PLAYBACK ROUTE** – This button will direct the audio from the SD player to either the MAIN EQ output, or to CH 3. Switching the playback to CH 3 will allow you to make adjustments and/or add effects to the audio signal using the CH 3 controls.

## SDR-3 Installation

1. Unscrew the two retaining screws.
2. Remove plate and store it in a safe place.
3. Attach the cable to the back of the SDR-3.
4. Carefully slide the SDR-3 into place.
5. 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 unit 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 2GB. 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. Refer to the text on "REC LEVEL LEDs" to ensure a good level. Once you are happy with your overall mix, follow the steps below to record.

In stop mode, press the REC button once to place the SDR-3 in record pause mode. This is the time to check the levels of the audio to be recorded and adjust the REC VOL control if necessary.

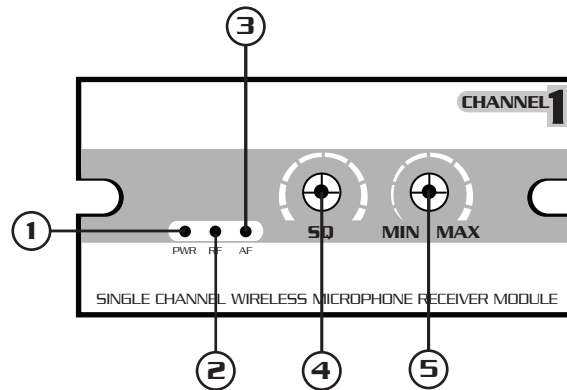
Press the REC button a second time to begin recording.

Pressing the REC button during a recording in progress will pause the recording without creating a new track. This is useful for recording several sections of a recording session into a single cohesive track without breaking it up into several tracks.

# Operations

## UHF Wireless Channels (STAGE-MAN-II Only)

There are two UHF wireless microphone modules (sold separately) available with the STAGE-MAN. Use the CH 1 & 2, and DSP controls to make adjustments to UHF microphone signals. Refer to the information below to setup and use your UHF wireless microphone(s).



## Module Description and Functions

**1. POWER (LED)** - Indicates there is power to the module.

**2. RF (LED)** - Lights when an RF connection is made. This LED should light when you turn on the associated microphone. If this LED light when its associated microphone is turned off, that indicates that another external device is connected to that channel (interference).

**3. AF (LED)** - Lights when AF signals are being transmitted. This LED will light as sounds is picked up and transmitted from the associated microphone (speech or instrument).

**4. SQ (Squelch)** - The Squelch control is used to mute unwanted noise interference from a microphone channel when the associated transmitter is turned off. To adjust squelch, turn clockwise to increase, and counterclockwise to decrease. NOTE: Typically, as a channel's squelch setting increases, its operating range decreases. It is therefore recommended to set the squelch control only as high as necessary to mute any noise interference.

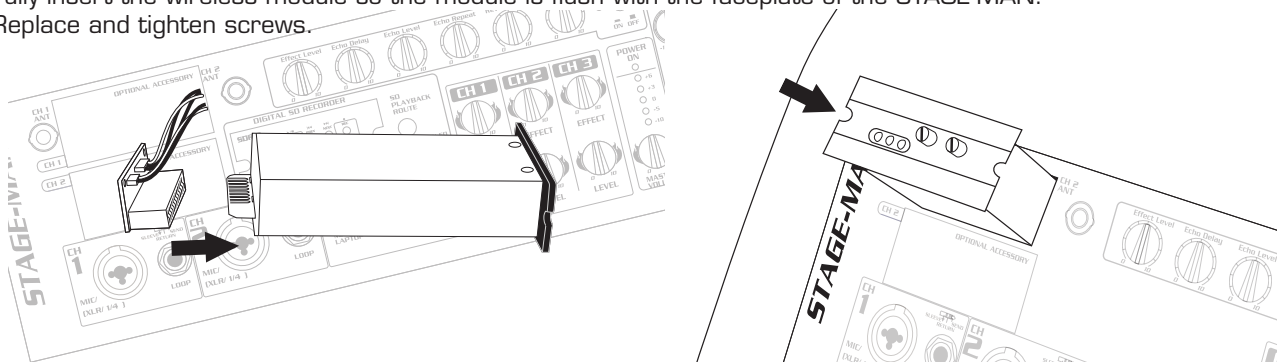
**5. Level** - This knob controls the microphone volume (gain) level for this channel. Turn clockwise to increase volume, and counter-clockwise to decrease.

## Setting Up

For each UHF wireless channel, you will have a handheld microphone, wireless module, and antenna. Follow the steps below to set them up.

## Module Installation

1. Unscrew the two retaining screws.
2. Remove the cover plate and store it in a safe place.
3. Attach the edge connector to the back of the UHF Module. Make sure the connector is oriented correctly as shown in the illustration below.
4. Fully insert the wireless module so the module is flush with the faceplate of the STAGE-MAN.
5. Replace and tighten screws.



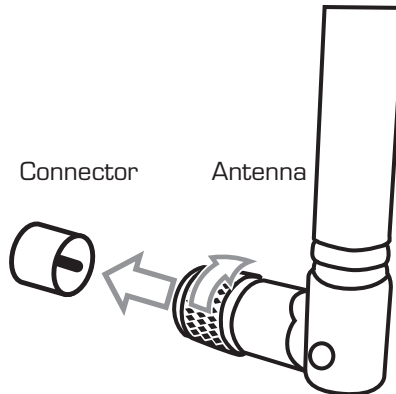
# Operations

## Removing Modules

1. Unscrew the two retaining screws.
2. To remove, simply slide the module out of the compartment.
3. Align the cover plate, and tighten screws.

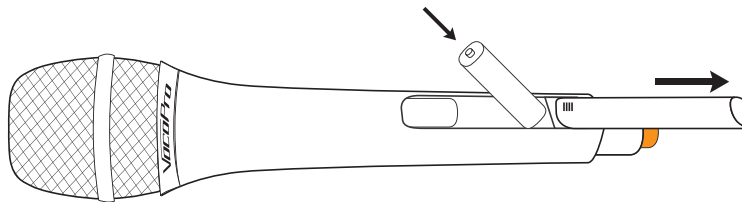
## Antenna Installation

Insert the antenna's TNC connector into the corresponding channel's TNC antenna jack and twist clockwise until it is firmly connected. If installing multiple antennas, ensure the antennas are not touching each other.



## Microphone Battery Installation

1. To remove the lid, press down on the tab and slide the lid down towards the bottom of the microphone.
2. Insert 2 fresh 1.5-volt AA alkaline batteries. Make sure the batteries are inserted in the right direction according to polarity (+/-)



## Basic Operations

1. Press the POWER switch on the front panel of the STAGE-MAN.
2. Adjust the module level controls to approximately 50%.
3. Switch the microphone's power switch to the ON position.
4. Talk or sing into the microphones and adjust the channel strip level and EQ controls (top panel) until you are satisfied with the sound.

NOTE: During normal operation, the RF/AF signal LED's will illuminate when a microphone is being used.

# Technical Specifications

## STAGE-MAN SPECIFICATIONS

### Mixer Input Specification (At Main L/R Output, +4dBu, 1kHz)

INPUT	CONNECTION	LEVEL (RATED INPUT)	TOTAL GAIN	IMPEDANCE
Mic INPUT (CH1-CH2)	XLR (BAL)	-50dBu	54dB	1Kohm
Mic INPUT (CH1-CH2)	1/4" TRS (BAL/UNBAL)	-50dBu	54dB	1Kohm
MUSIC CH 3	CD RCA Stereo (UNBAL)	-22dBu	26dB	2.7Kohm
	MP3 1/8" PHONE (UNBAL) TIP:LEFT, RING:RIGHT	-24dBu	28dB	2.2Kohm
MAIN MIX INPUT	XLR (BAL)	-10dBu	14dB	3Kohm
CH EFFECT LOOP (CH1,2,3)	1/4" (UNBAL) TIP SEND/RING RETURN	-6dBu	10dB	10Kohm
UHF MODULE	30PIN CARD EDGE	-28dBu	32dB	1Kohm
SD CARD MODULE	6PIN WIRE CONNECT	-24dBu	28dB	1.8Kohm

### Mixer Output Specification

OUTPUT	CONNECTION	LEVEL	IMPEDANCE
MAIN MIX OUTPUT	XLR (BAL)	+4dBu	240ohm
HEAD PHONE OUTPUT	1/4" PHONE (TIP: LEFT, RING: RIGHT)	1.0V	33ohm

### Power Output

MAIN MIX TO AMP OUT	CONDITION	OUTPUT	LOAD	VOLTAGE
OUTPUT POWER	EIA @ THD +N = 1%	200W	4ohm	28.26V
OUTPUT POWER RATED	FTC @ THD + N = 0.1%	185W	4ohm	26.83V
POWER BANDWIDTH	RATED (0dB / - 1.0dB)	20Hz-30KHz	4ohm	26.83V
FREQUENCY RESPONSE	1 Watt (0dB / - 1.5dB)	20Hz-40KHz	4ohm	2V

### Frequency Response

MIC IN UNITY GAIN (-30dBu) to MAIN MIX OUTPUT @ +4dBu/MUSIC IN UNITY GAIN (0dBu)

MIC INPUT/CH1-2	20Hz-40KHz	0dB/-1.5dB
MUSIC INPUT/CH3	10Hz-40KHz	0dB/-1.5dB

MIC IN MAX GAIN (-50dBu) to MAIN MIX OUTPUT @ +4dBu/MUSIC IN MAX GAIN (-22dBu)

MIC INPUT/CH1-2	20Hz-34KHz	0dB/-3dB
MUSIC INPUT/CH3	10Hz-35KHz	0dB/-1.5dB

# Technical Specifications

## 5 Band Graphic EQ

MAIN MIX OUTPUT (XLR/BAL)	63Hz	±12dB
	250Hz	±12dB
	1KHz	±12dB
	3.5KHz	±12dB
	12KHz	±12dB

## T.H.D+N

BAND PASS ON (20 Hz to 20KHz BANDWIDTH)

OUTPUT	LEVEL	T.H.D
MIC MONO to Speaker Output @ Unity Gain Input	1/2 Power	Less than 0.09%
CH3 to Speaker Output @ OdBu Gain Input	1/2 Power	Less than 0.09%
CH1-2 to Main Mix Output	+4dBu(BAL)	Less than 0.05%
CH3 to Main Mix Out	+4dBu(BAL)	Less than 0.02%
EFFECT Loop Send	-6dBu(UNBAL)	Less than 0.02%

## Hum & Noise (S/N)

OUTPUT	LEVEL	CONDITION
AMP OUTPUT	< 85dB	RATED POWER 1KHz MAIN MIX INPUT
MIC to MAIN MIX OUTPUT	< 75dB	CH Level Center, Main VR
MUSIC to MAIN MIX OUTPUT	< 75dB	+4dB ADJ
EFFECT LOOP OUTPUT SEND (TIP)	< 74dB	INPUT -
HEADPHONE OUTPUT	< 85dB	30dB

## E.I.N

MIC INPUT 150ohm TERMINATION	-125dBu
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## Attenuation

INPUT & OUTPUT	CH1-2 to MAIN	CH LEVEL DOWN	-82dB
		MAIN LEVEL DOWN	-82dB
	MUSIC CH3 to MAIN	CH LEVEL DOWN	-78dB
		MAIN LEVEL DOWN	-82dB

# Technical Specifications

## Maximum Input Level

INPUT	CONNECTION	LEVEL
MIC INPUT	XLR(BAL)	-22dBu
	1/4" TRS (BAL/UNBAL)	-22dBu
MUSIC INPUT CH3	CD RCA Stereo (UNBAL)	+5dBu
	MP3 1/8" PHONE (UNBAL) TIP: LEFT, RING: RIGHT	+4dBu

## Effect Controls (D.S.P)

Reverb/Delay Control	
Echo Delay	40mS-242mS
Echo Repeat	30%-80%
Echo Volume	0%-100%
Reverb Volume	0-100%
LPF Control	3KHz-8KHz
Effect Master	0%-100%
EFX DSP Control	Foot Switch (1/4" TS), On/Off Switch with LED Indicator
EFX DSP Buss Control	

## Control

SD Playback Route	TO MAIN EQ/TO CH3
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## Power Consumption

AC 120v, 3.2 A (@ RATED POWER)

## Dimension (W x H x D) .mm

UNIT	INNER BOX	SHIPPING BOX
460 x 250 x 270		380 x 550 x 350

## Weight

NET: 15.50 Kg

# Troubleshooting

## **There is no power**

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

## **There is no sound**

- . Make sure the MASTER and CH 1-3 LEVEL VOLUME knobs are set to an audible level.
- . Make sure headphones are not connected. Connecting headphones disables the main speaker output.
- . If using microphones, make sure they are connected properly and cables are not defective.
- . If using an external player, make sure they are connected properly and cables are not defective.
- . If an external effects device is connected, make sure it is powered on.

## **The sound has static**

- . Check the EQ settings. You may have set the EQ settings too high.
- . You may have a line-level signal connected to the CH 1-3 inputs. Connect only mics or music instruments to the CH 1-3 combo jacks.

## **(Optional Wireless Channels)**

### **No sound output, RF/AF LED(s) are not glowing**

- . Make sure the microphone power switches are set to the ON position.
- . Make sure the UHF POWER on the main unit is set to ON.
- . Check microphone batteries to ensure that they are providing sufficient power. Replace battery if necessary.
- . Make sure antennas are firmly connected and extended to an optimal position.
- . If necessary, reduce the distance between the microphones and receiver.
- . Talk into the microphone and observe the module's RF/AF signal LEDs. If they glow, the problem is else where in the sound system.

### **Received signal is noisy or contains extraneous sounds with the microphone(s) ON.**

- . Make sure everything is connected firmly and properly
- . Make sure there are no defective cables

### **There is noise coming from the receiver with the microphones turned OFF.**

- . This is called interference. Remove local sources of UHF interference, such as lighting equipment. In some locations this may be unavoidable due to a frequency conflict. Contact VocoPro tech support for more information.

### **Momentary loss of sound as microphone(s) are moved throughout the operating range.**

- . Reposition the receiver, perform a "walkthrough", and observe the signal strengths. If audio dropouts persist, mark these "dead spots" in the operating area and avoid them during the performance.

## **(SDR-3 Recorder)**

### **SDR-3 is not recording to SD card**

- . Make sure the SD card capacity is 1GB or less
- . Make sure there is sufficient room to record (1MB per minute, on average)



# Troubleshooting

## **Recordings are distorted**

- . Lower the recording level on the SDR-3
- . If routing SDR-3 playback to EQ, check the EQ settings, and readjust in necessary.

# Notes

# Notes

# **VocoPro**<sup>®</sup>

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**PROFESSIONAL VOCAL SYSTEMS**<sup>™</sup>



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