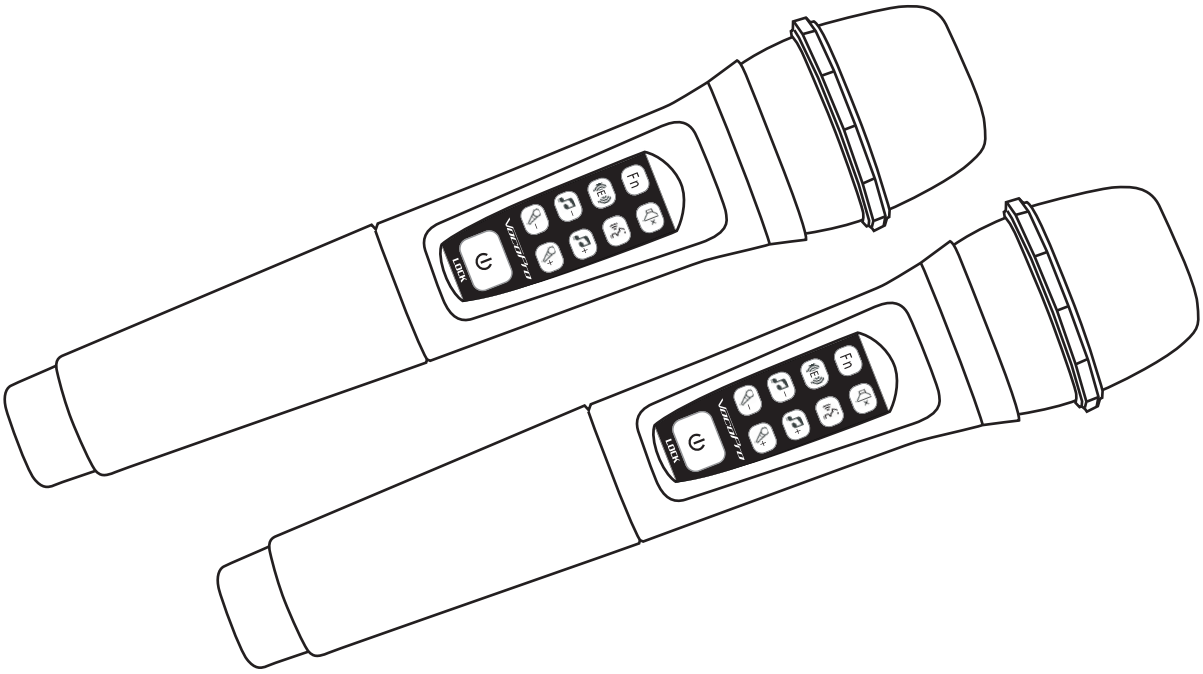
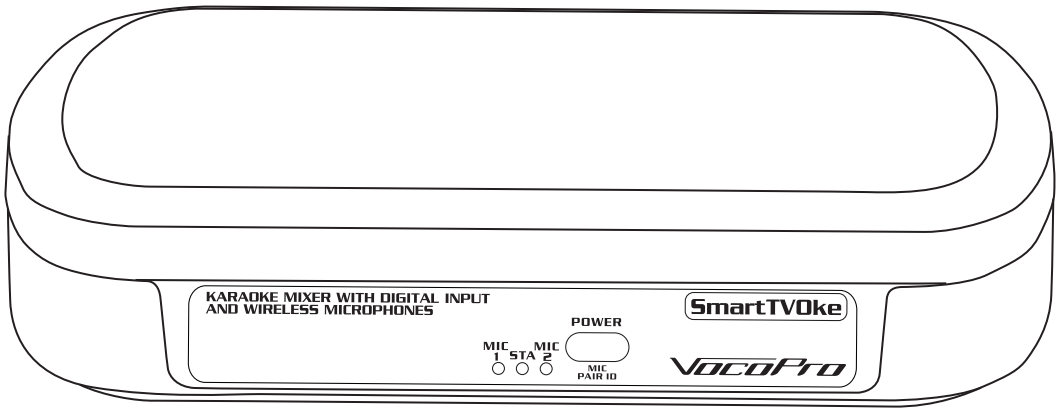
VocoPro®

PROFESSIONAL VOCAL SYSTEMS™





SmartTVOke

Karaoke Mixer with Digital Input & Wireless Microphones

owner's manual

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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.

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 if 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.

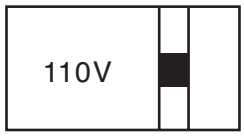
CALIFORNIA PROP 65 WARNING
WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.
(California law requires this warning to be given to customers in the State of California.)
For more information: www.vocopro.com/prop65

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, electric 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 **SmartTVOke** 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:

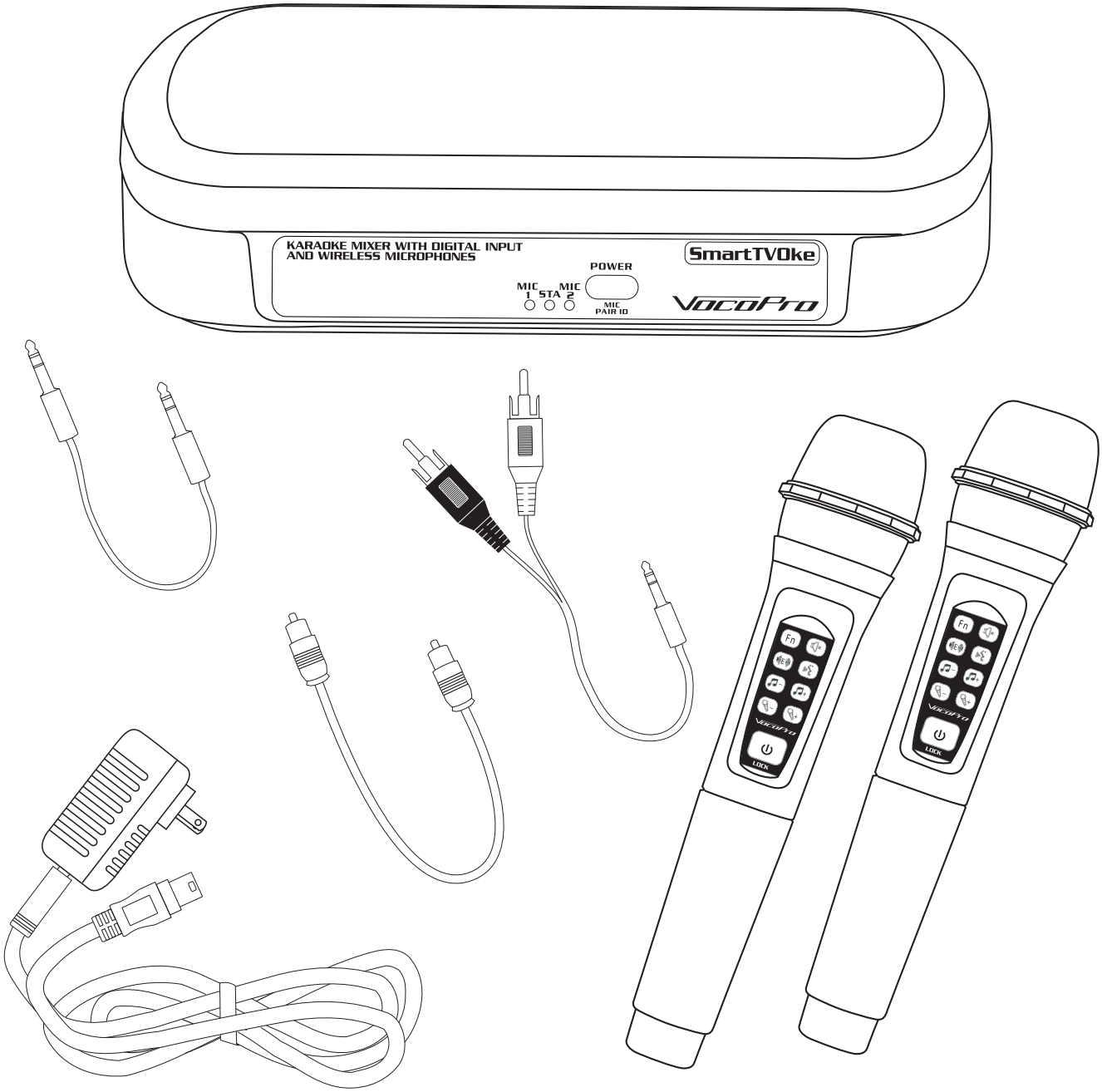
Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

-Information courtesy of the Deafness Research Foundation

Getting Started

WHAT'S IN THE BOX

- SmartTVOke
- Wireless Microphones (2)
- USB Power Cord with Adapter
- 1/8"-to-RCA Cable
- 1/8"-to-1/8" Stereo Cable
- Optical Cable

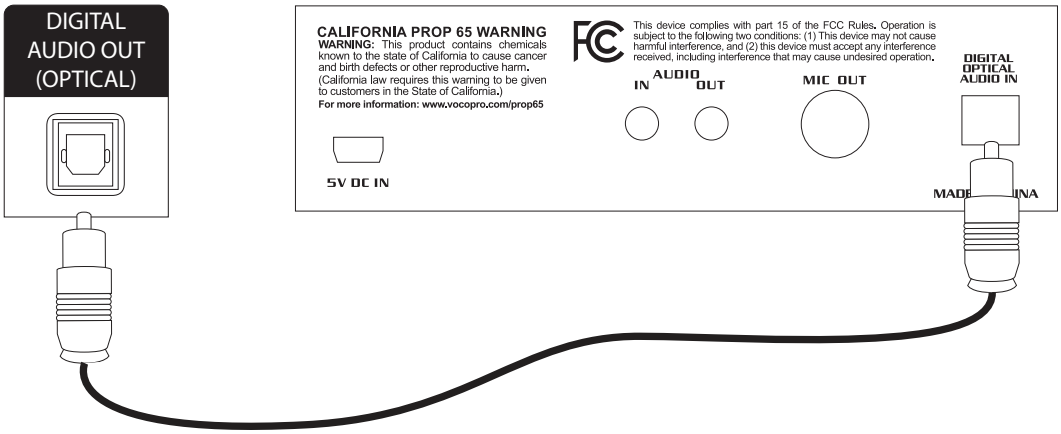


Getting Connected

PLUGGING IN THE INPUT SIGNAL

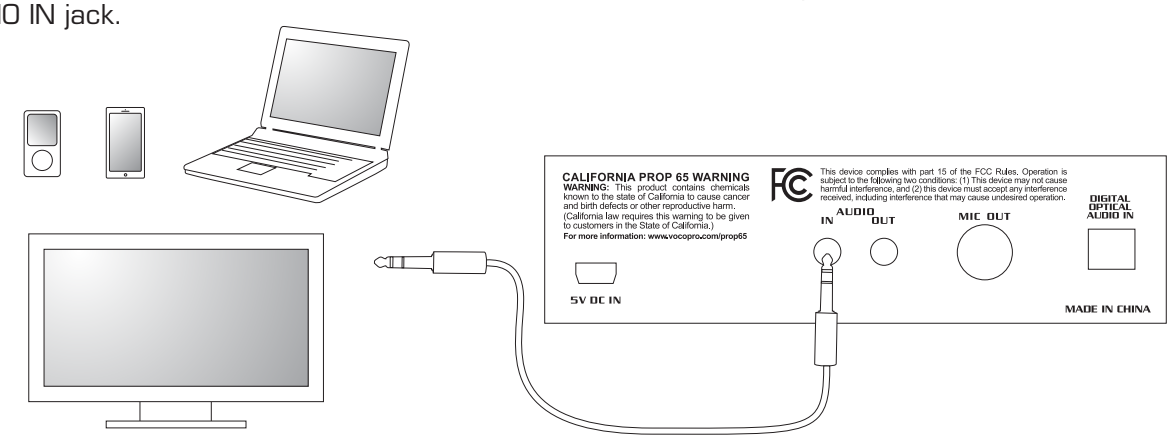
FROM A SMART TV

- Connect the optical cable from the Optical Out on the back of the TV into the Optical IN on the SmartTVOke.



FROM A STEREO SOURCE

- Connect either the 1/8”-to-1/8” or RCA-to-1/8” cable from the output of the music source into the 1/8” AUDIO IN jack.



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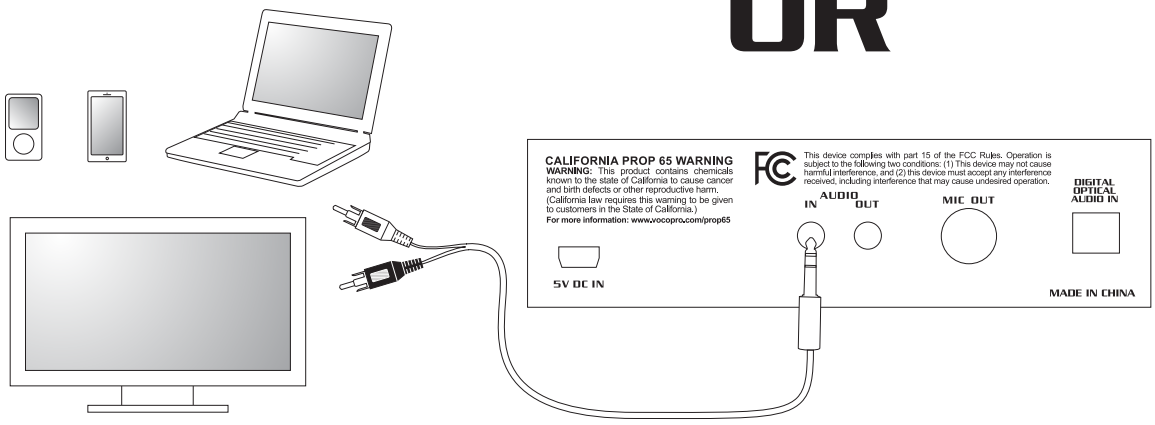
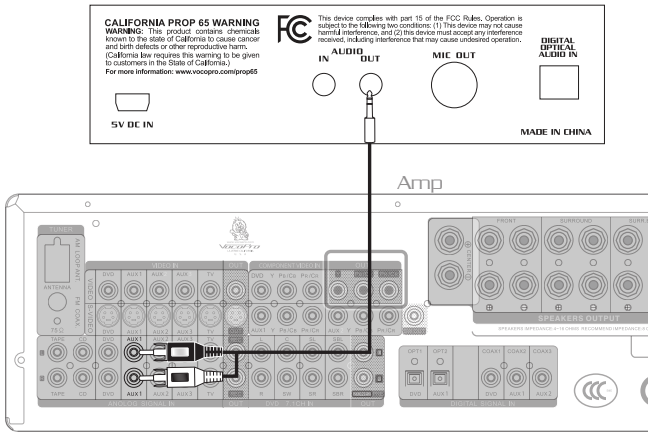


Getting Connected

SENDING THE OUTPUT SIGNAL

TO AN AMPLIFIER

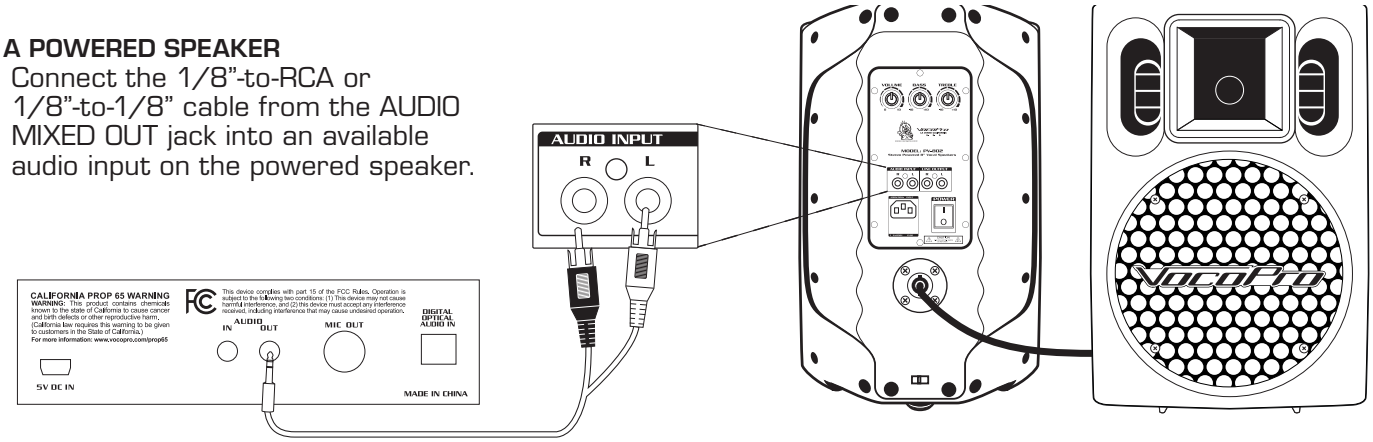
- Connect the 1/8”-to-RCA or 1/8”-to-1/8” cable from the AUDIO MIXED OUT jack to an available audio input on the amplifier.



(Amp Not Included)

TO A POWERED SPEAKER

- Connect the 1/8”-to-RCA or 1/8”-to-1/8” cable from the AUDIO MIXED OUT jack into an available audio input on the powered speaker.

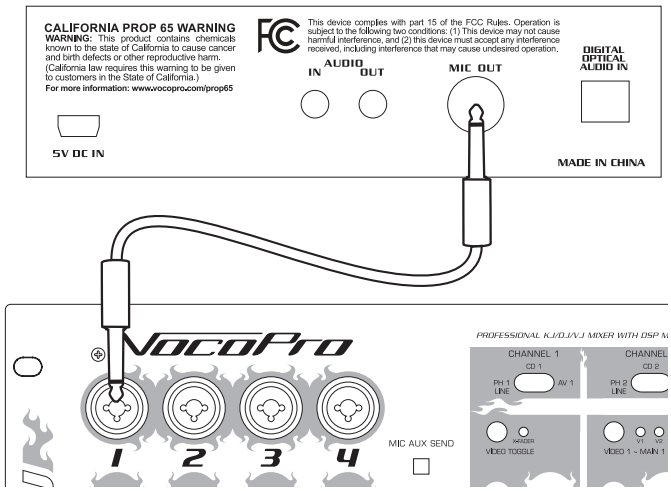


(Speakers Not Included)

GETTING ONLY MICROPHONE AUDIO

- Connect a 1/4” patch cable (not included) from the MICROPHONE OUT to an available Microphone Input jack on either a mixer or sound system.

Note: Both mic signals will be heard with the one 1/4” patch connection.

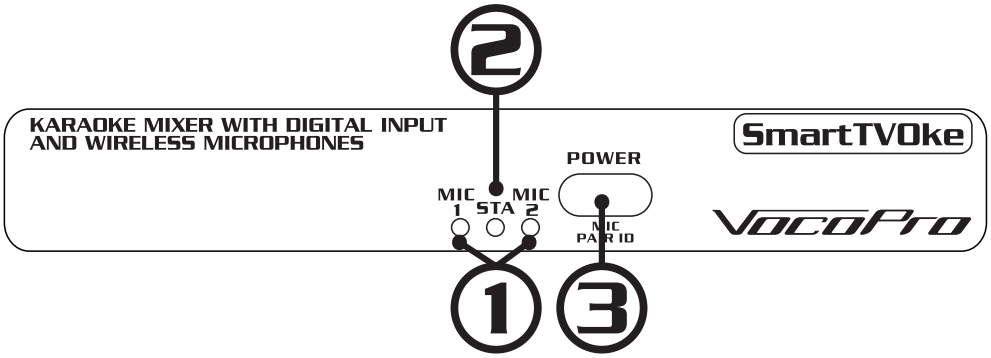


(Mixer Not Included)

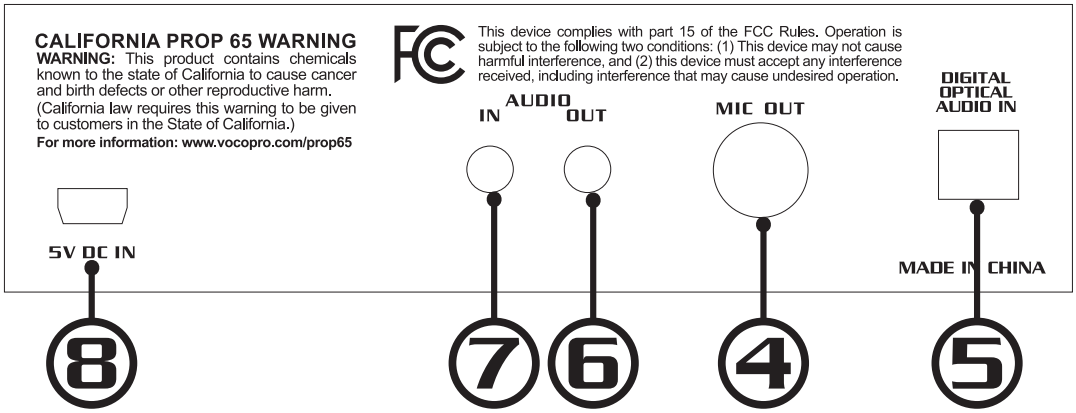
SmartTVOke Layout

1. **CH. A/B LEDs -** Indicates connection status of each microphone.
2. **Status LED -** Visually confirms all buttons pressed on each of the microphones.
   - The LED will flash once for every button pressed on either microphone.
3. **Power Button/Pair ID -** Turns receiver OFF/ON.
   - This button also toggles the microphone pairing mode.
4. **Microphone Out -** Provides microphone output only.
5. **Optical Input -** Accepts digital audio from music sources (PCM only).
   - The SmartTVOke is not compatible with Dolby audio signals.
6. **Audio Mixed Out -** Provides both microphone and music output.
7. **Audio In -** Connect a music source that uses the 1/8" audio jack.
8. **Power In -** Power cord connects here. Any adapter will work if rated at 5V DC.

Front



Rear



Microphone Button Layout

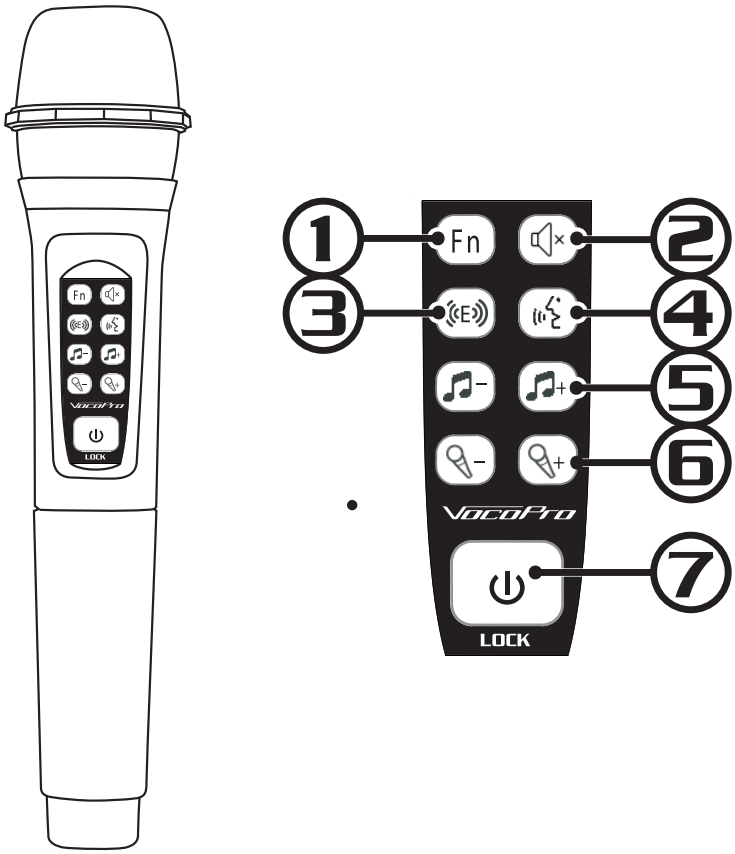
1. **FN -** Toggles between Left-Mono, Right-Mono, and Stereo.
2. **Mute -** Mutes ALL audio output, both Mic and music.
3. **Mic EQ -** Toggles through Mic EQ presets.
   - Low-End (accentuates Bass frequencies)
   - Middle (accentuates Middle frequencies)
   - High-End (accentuates High frequencies)
4. **Mic Echo -** Toggles through the Echo Level presets
   - Off
   - Low
   - Medium
   - High
   - Maximum
5. **Music Vol +/-** Raises and lowers Music volume.
6. **Mic Vol +/-** Raises and lowers the Mic channel volume.
7. **Power/Lock -** Powers microphone OFF/ON. Press and hold power button for 4 seconds to toggle the Microphone Lock; when locked, all mic buttons are disabled except the Power button.

   Power Button LED has 3 Color Modes

   - Solid Green - Microphone is on and has a connection to the receiver.
   - Flashing Green - Microphone is on but has no connection to the receiver.
   - Yellow - Microphone buttons are locked.

Notes:

- ***The microphone will remain locked when powered off and on. Lock must be toggled off to access microphone buttons.***
- ***The Lock cannot be activated if the microphone is not paired to the receiver.***



Pairing the Microphones

If the Microphones experience signal loss or drop outs, the microphones should be resynced to the receiver. In doing so, the receiver will automatically change the operational frequency of each mic.

FOLLOW THE STEPS BELOW TO RESYNC THE MICROPHONES WITH A NEW FREQUENCY CHANNEL.

1. Power the receiver on - Press power button once (1x).
2. Select which Mic channel to be paired:

   Note: The flashing receiver LED denotes which Mic channel to be paired.

   A. Selecting Mic 1 to pair

      i. Press and hold Power/Pair ID button on receiver until the Mic 1 receiver LED is *flashing.*

   B. Selecting Mic 2 to pair

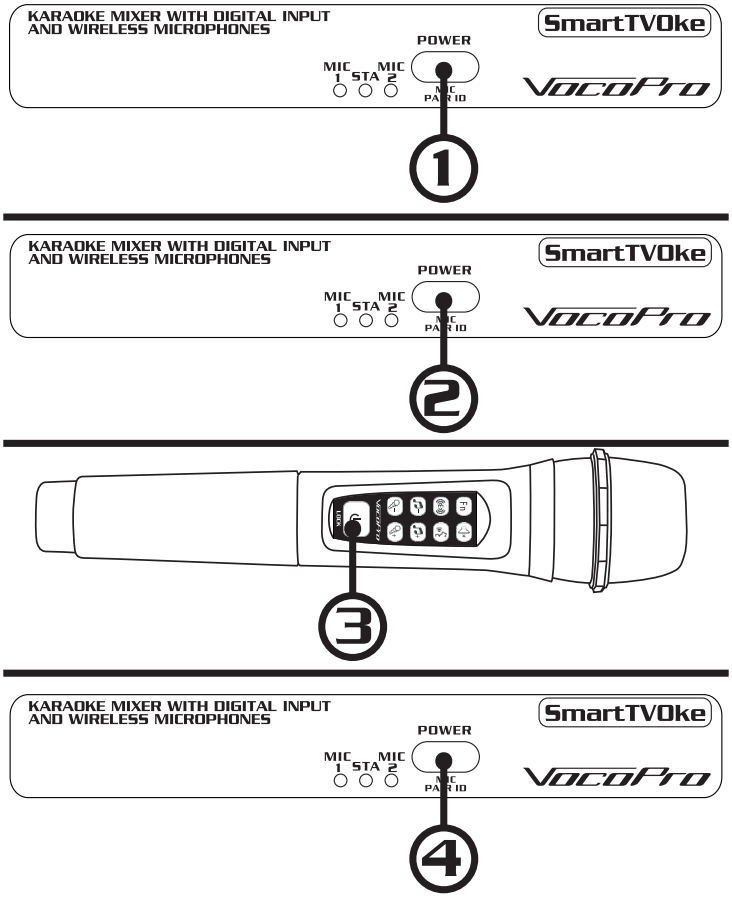
      i. Press and hold Power/Pair ID button on receiver until the Mic 2 receiver LED is *flashing.*
3. When the desired Mic channel LED, Mic 1 or Mic 2, has been selected for pairing, turn on either handheld microphone to assign the microphone to that Mic channel.

Note: The channel indicator lights on the receiver will then flash and the receiver will power off. This is normal.

4. Power the receiver back on and check that the Mic channel LED is solidly lit on the receiver; this indicates the microphone was paired successfully.
5. Repeat steps 2-3 for the second microphone.

Notes:

- ***When pairing, only one microphone can be paired at a time.***
- ***The receiver WILL shut off when it pairs with a microphone, this is normal.***
- ***The receiver will power off if the Power button is continued to be pressed down once the flashing LED has selected Mic.***



Commonly Asked Questions

1. **What is PCM Audio?**
   - PCM stands for Pulse-Code Modulation and it is a direct digital representation of an analog signal. It means the digital signal does not contain any algorithm or implement compression.
2. **Why do I hear a strange growling & buzzing noise through the Optical Input?**
   - The strange buzzing noise is what happens when a Dolby audio signal is fed into the SmartTVOke. The audio compression used by Dolby audio signals is incompatible with the SmartTVOke.
   - Change the optical out settings on the TV from Dolby to PCM for correct audio.
3. **What is the range of the microphones?**
   - The maximum range is approximately 40ft.
4. **What is the operational frequency of the microphones?**
   - The microphones operate in the 2.4Ghz band.
5. **What do I do if the microphones start dropping out?**
   - The first step is to change the frequency of the mics, refer to Pairing the Microphones for instructions on how to do so.
   - The second step would be to change the batteries and move the receiver away from any sources of RF signals like routers and cordless phones that operate in the 2.4Ghz band.
   - If the problem persists, please call VocoPro at 800-678-5348.
6. **I lost my original power supply, what can I do?**
   - Any standard computer USB jack will power the SmartTVOke. You can also use any power adapter rated at 5V DC.
7. **I'm missing some parts from my box. What do I do?**
   - Please call VocoPro regarding any missing or defective parts at 800-678-5348.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

o Reorient or relocate the receiving antenna.
o Increase the separation between the equipment and receiver.
o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
o Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.