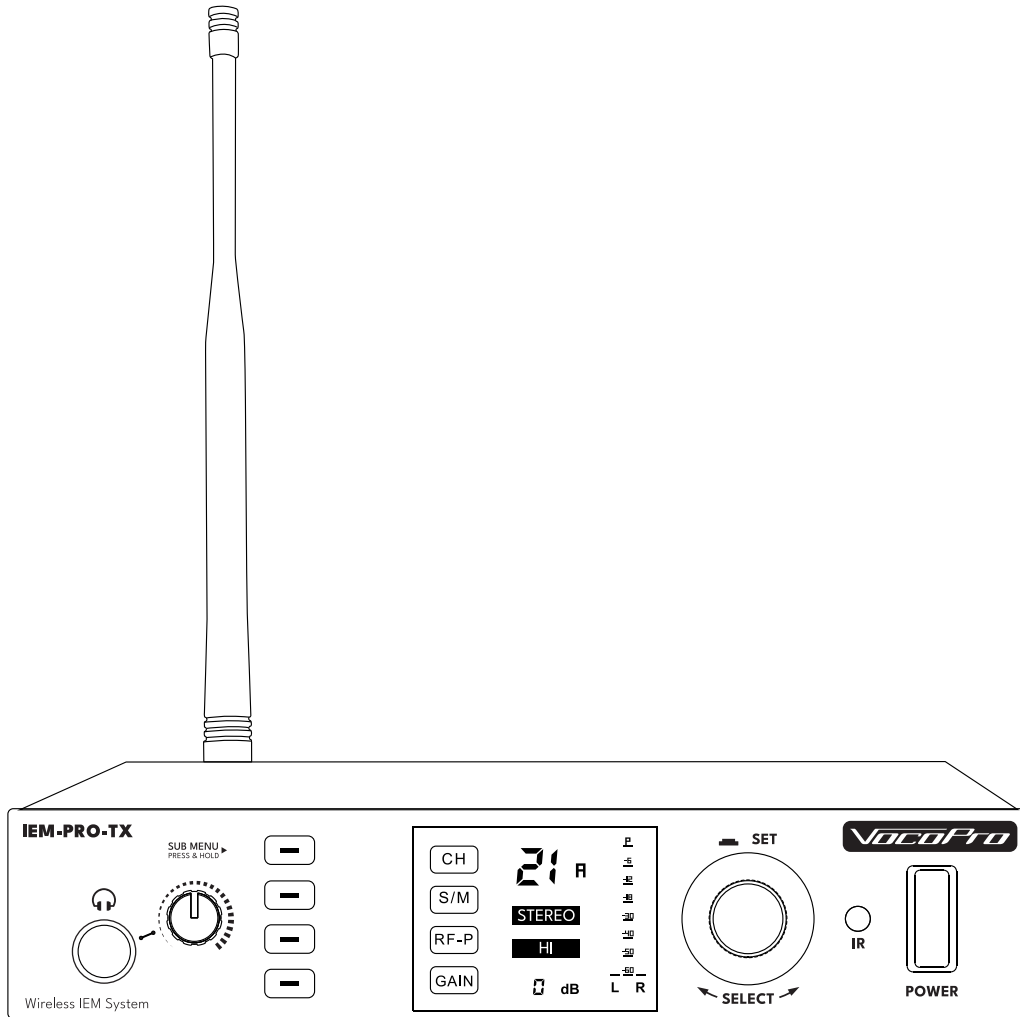


# VocoPro<sup>®</sup>

PROFESSIONAL VOCAL SYSTEMS<sup>™</sup>



## IEM-PRO

Professional Digital Stereo/Dual Mono In-Ear Monitor

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



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# 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.

## 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](http://www.vocopro.com/prop65)

## CAUTION:

### READ THIS BEFORE OPERATING YOUR UNIT

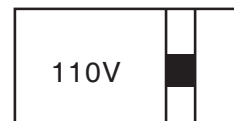
1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent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



# 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.



## Welcome

And thank you for purchasing the **IEM-PRO** 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**

# 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:

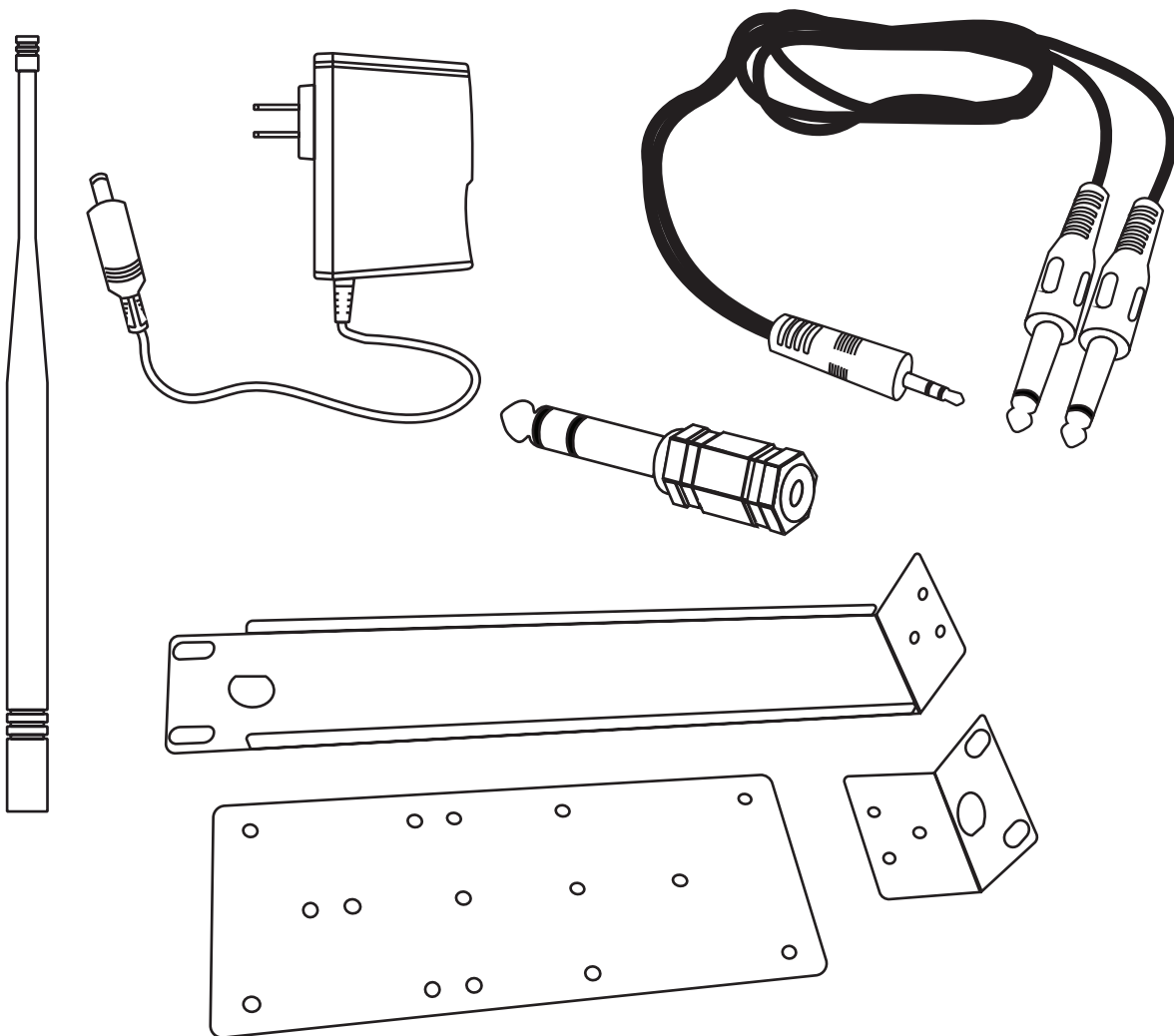
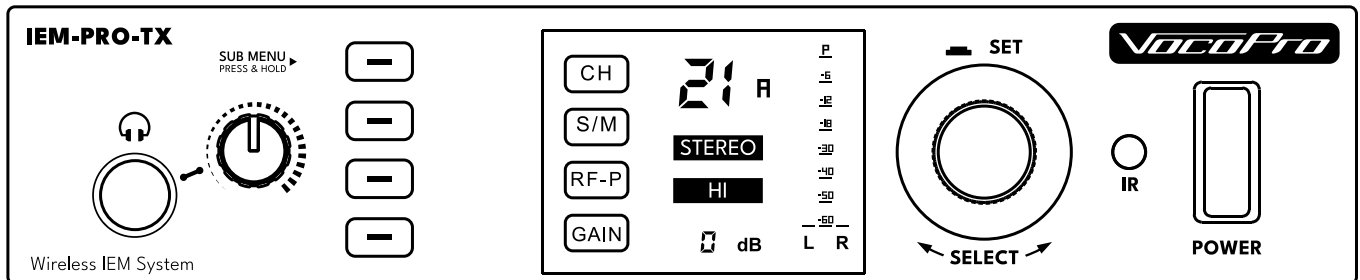
Level	Example
<b>90</b>	Subway, Motorcycle, Truck traffic, Lawn Mower
<b>100</b>	Garbage truck, Chainsaw, Pneumatics drill
<b>120</b>	Rock band concert in front of speakers
<b>140</b>	Gunshot blast, Jet plane
<b>180</b>	Rocket launching pad

-Information courtesy of the Deafness Research Foundation

# Getting Started

## What's in the box?

- IEM-PRO Transmitter
- Power Adapter
- Antenna
- 3.5mm TRS to 1/4" TS Y-Cable
- 3.5mm to 1/4" Adapter
- Mounting Hardware



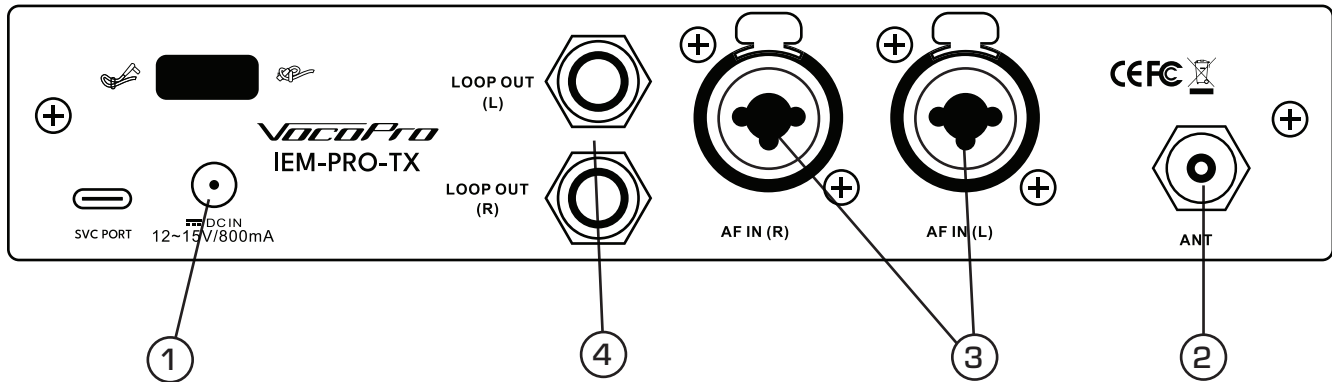
# Features

- 24 bit digital, dual frequency (true stereo) transmitter and receiver
- Operating in the 900MHZ range free of TV broadcast interference
- Hi and Low transmission preference can disperse across various venues
- Instantaneous connection and set-up with one touch IR sync
- Rugged all metal design for both transmitter and receiver belt pack

IEM-PRO transmitter is compatible with IEM-RX bodypack receiver and IEM-MR mini receiver.

*The products listed above are not compatible with previous series of Vocopro IEM systems, including IEM-Digital, IEM-900, or SilentPA.*

# Getting Connected



## Quick Connect Guide:

**Step 1** - Connect Power Adapter cable to DC Input.

**Step 2** - Connect Antenna to antenna connector.

**Step 3** - Connect audio source to inputs. These combo jacks accept both 1/4" and XLR connectors.

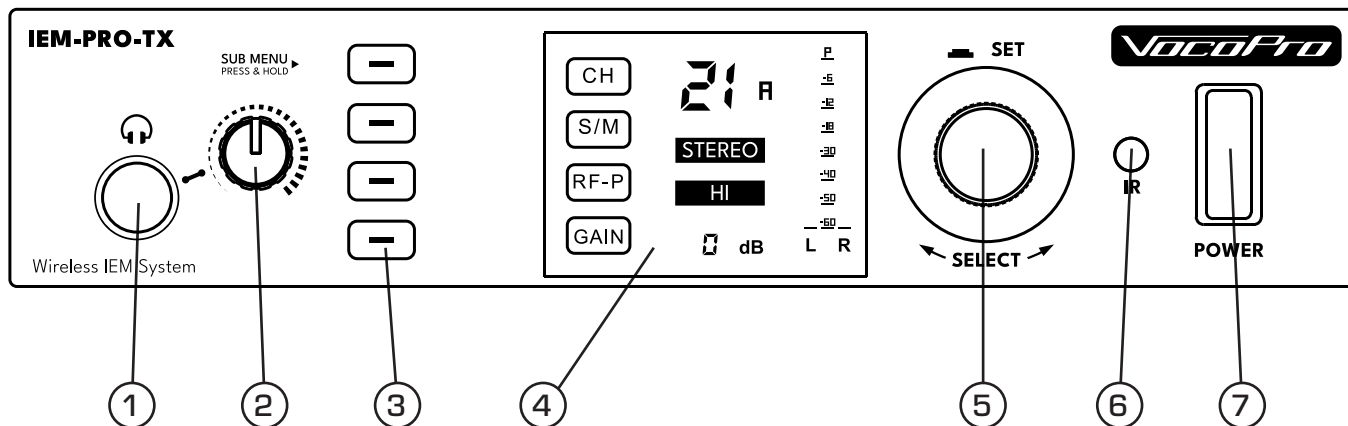
Mono - Connect audio source to left input

Stereo - Connect audio source to left & right inputs

**Step 4 (Optional)** - Connect Loop Out to recording devices, audio interfaces, or any other equipment you would like to route audio to.

**Step 5** - Power on transmitter and receivers. See page 13 for syncing instructions if no audio at receivers.

# Descriptions and Functions



## Transmitter Front

### Headphones:

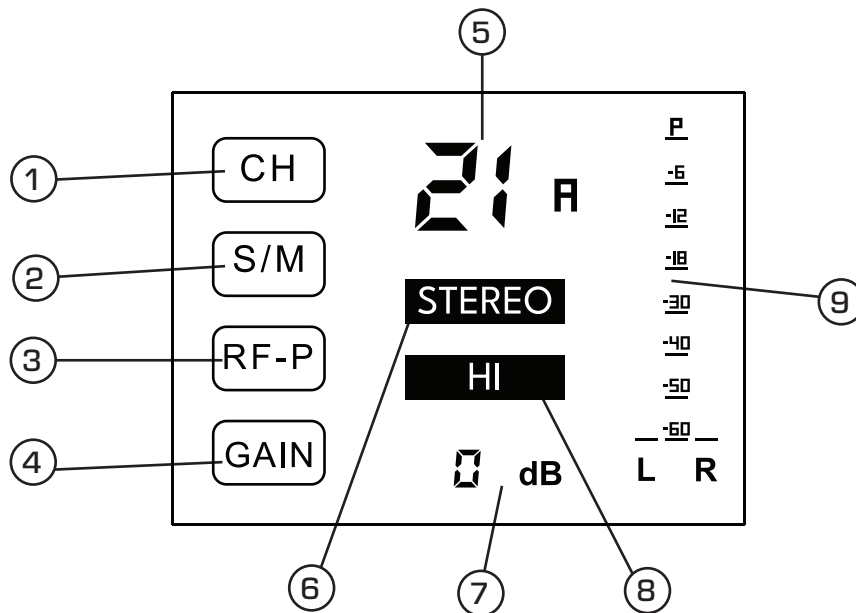
1. **Headphone Jack** - 1/4" headphone output for monitoring the input signal.
2. **Headphone Volume Knob** - Controls volume sent to headphone jack. (Does not effect volume of wireless receivers).

### Control Panel:

3. **Multifunction Buttons** - Performs function showing on display. The top button corresponds to the topmost button on the left side of the display. The second button corresponds to the second button down on the display. Etc.
4. **Display** - Shows transmitter information such as Channel, Mono/Stereo mode, Transmission Power mode, Gain, and Metering.
5. **Control Dial** - Rotate to change settings and button press to confirm selections.
6. **IR Emitter** - Hold transmitter IR sensors up to this spot when syncing.
7. **On/Off Switch** - Flip switch up to power on and down to power off.

# Descriptions and Functions

## DISPLAY SCREENS



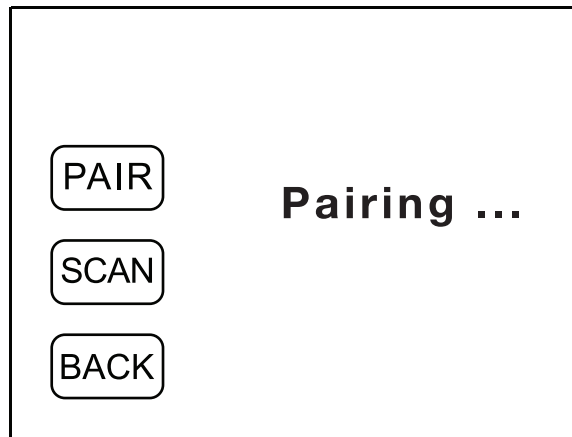
### Main Screen

1. **CH – Channel** – Press to enable channel selection. Turn Control Knob to select channel and press Control Knob to confirm choice.
2. **S/M - Stereo/Mono** – Press button to enable changing between Stereo or Mono mode. Turn Control Knob to change to stereo or to mono. Press Control Knob to confirm selection.
3. **RF-P – Transmitter Power** – Press to enable power mode selection. Turn Control Knob to choose “HI” (high power) or “LOW” (low power) transmission.
4. **GAIN – Gain Control** – Press to enable increasing or decreasing input gain. Turn Control Knob to choose between -30dB and +11 dB. Press Control Knob to confirm selection.
5. **Channel Display** - Shows the current transmitting channel.
6. **Stereo/Mono Display** - Shows whether the transmitter is in Stereo or Mono mode.
7. **Gain Display** - Shows how much gain or attenuation is being applied to the audio signal in decibels.
8. **RF Power Display** - Shows if the transmitter is in HI or LOW power mode.
9. **Audio Meter** - Shows realtime metering of audio signal being transmitted.

# Descriptions and Functions

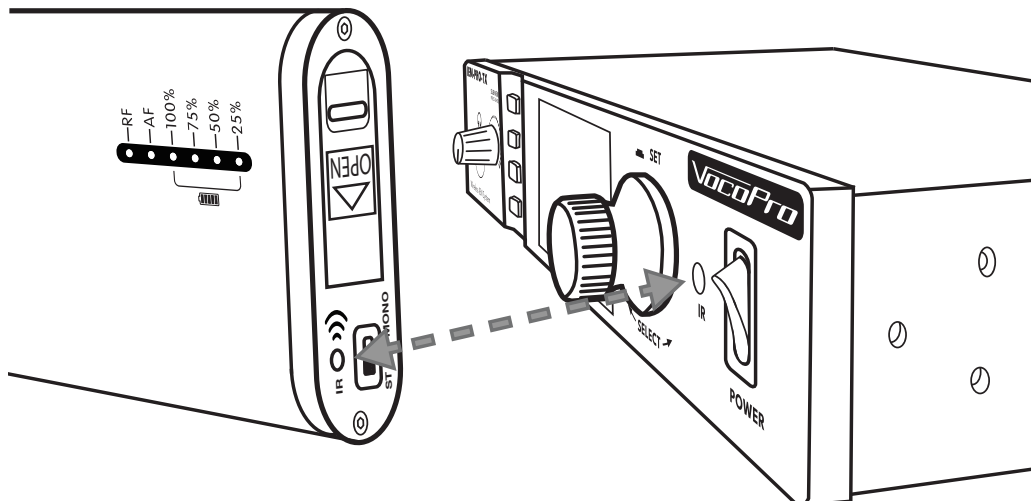
## More Settings

To access more settings, make sure no button on the main screen is highlighted in green (CH, S/M, RF-P, GAIN). With no buttons highlighted, press and hold top button for several seconds until display changes.



**Pair** – Press to begin pairing mode. The word “Pairing” appears followed by blinking dots. Hold up any receivers to the IR emitter on the front that you would like to pair with the transmitter.

Make sure the IR sensor on the receiver is facing the IR emitter on the transmitter.  
(Pictured below)

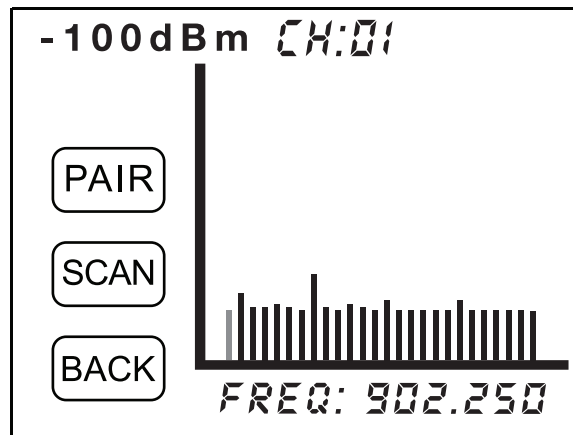


After holding them in close proximity (1-4 inches) for a few seconds each, check the RF indicator on the receiver to see that it has connected. You can exit pair mode by pressing the back button after the transmitter’s IR LED has stopped flashing. See page 14 for instructions on using more than one transmitter at a time.

# Descriptions and Functions

## More Settings

**Scan** – Press to scan for open frequencies automatically. Once an optimum channel has been determined, it will be selected and the screen will return to the main display.  
(Completed scan pictured below)



**Back** – Pressing back will return you to the main display screen.

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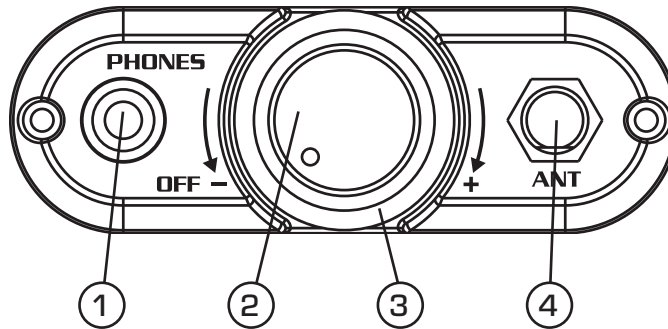
## Using Multiple Transmitters

You can use multiple transmitters to send several audio signals to different receivers at the same time. Here is some information to keep in mind:

- Receivers are paired to transmitters using the pairing process. They remain paired with that receiver until the receiver is paired with a different transmitter.
- Changing the channel on the transmitter automatically changes the channel of the receivers that are paired with it.
- Make sure each transmitter is set to a different channel from each other or there will be interference between them.

# Descriptions and Functions

## IEM-RX



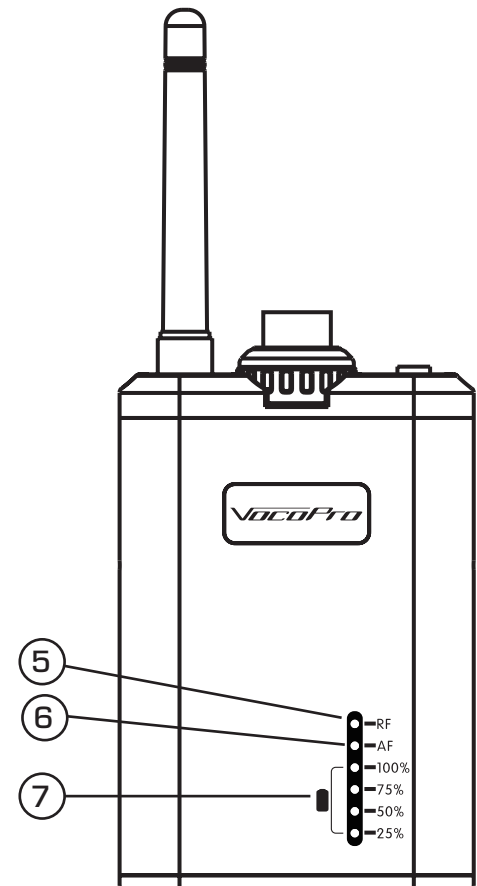
### Receiver

#### Top

1. **Headphone Jack** – Plug in headphones or 3.5mm audio cables here.
2. **Combo Knob Inside** – Smaller inner knob controls power and volume. Turn clockwise to power on and increase volume. Turn counterclockwise to reduce volume and continue past click to power off.
3. **Combo Knob Outside** – Larger outer knob controls panning. Turning counterclockwise will make the Left channel louder and the Right channel quieter. Turning clockwise will make the Right channel louder and the Left channel quieter.
4. **Antenna Connector** – Used to connect antenna.

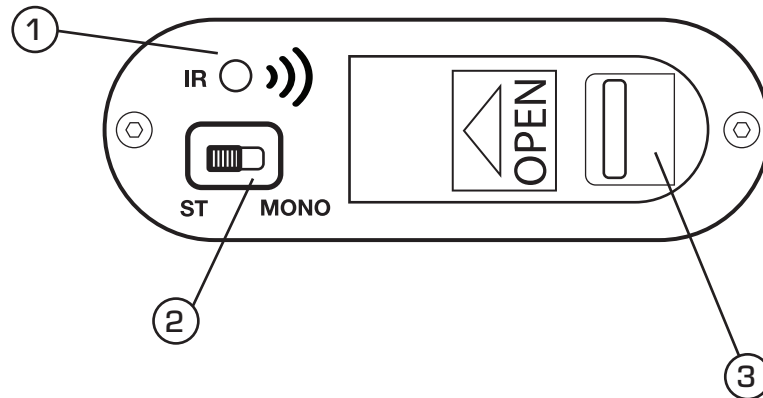
#### Front

5. **RF** – Red LED that stays lit to indicate a connection to the transmitter.
6. **AF** – Green LED that flashes corresponding to audio signal being received. Please note that the AF light does not flash if audio is only sent to the Right input in Stereo Mode.
7. **Battery Indicator** – These LEDs show how much charge is left in the receiver's batteries in increments of 25%. The green 25% LED will blink to indicate low battery.



# Descriptions and Functions

## ***IEM-RX***



## Receiver

### Bottom

1. **IR Sensor** – Align this sensor with the IR on the transmitter during the pairing process.
2. **ST/MONO Switch** – Switch to ST for Stereo mode or MONO for Mono mode.
3. **Battery Door** – Push battery door latch toward middle of bodypack to open.

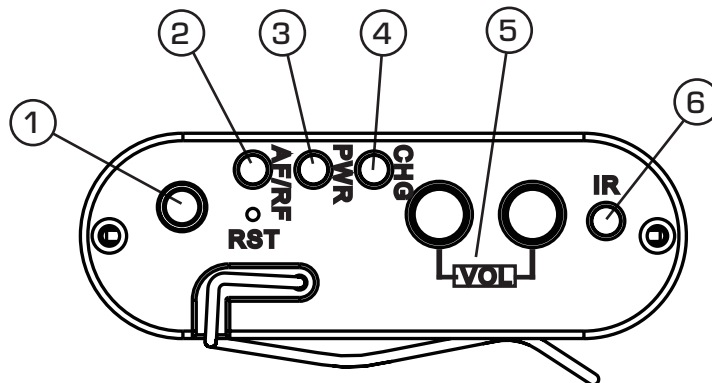
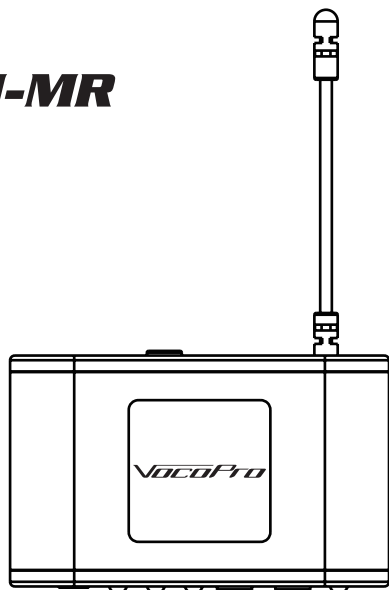
*(Be sure to use high quality batteries because these bodypacks are power hungry. If using rechargeable batteries, be sure they are 1.5v because they are often rated lower than that.)*



\*do not eat batteries

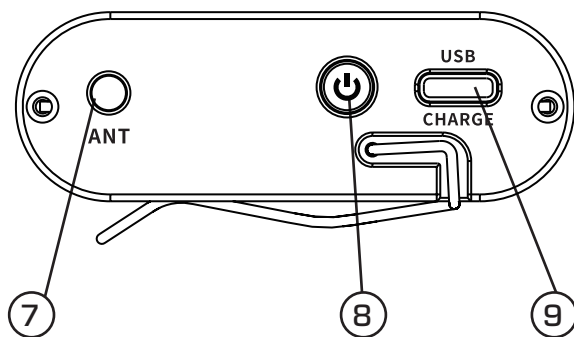
# Descriptions and Functions

## IEM-MR



### Mini Receiver Top

1. **Headphone Jack** – Connect headphones or 3.5mm audio cable.
2. **AF/RF LED** – This LED is steadily red while receiving signal from the transmitter. It flashes green corresponding to audio being received.
3. **PWR LED** – Power light stays green to indicate the receiver is powered on. Blinks red when battery power is low.
4. **CHG** – Charging status indicator light stays red while charging and turns green when battery is fully charged.
5. **Volume** - (-) button decreases volume. (+) button increases volume. A beep will be audible in the headphones when the maximum volume has been reached.
6. **IR Sensor** - Align this sensor with the IR on the transmitter during the pairing process.



### Mini Receiver Bottom

7. **Antenna** – Permanently attached antenna.
8. **Power Button**
  - Press and Hold for 3 seconds to Power On. Light will be white for a few seconds and turn red when it is receiving audio.
  - Press once to enter Mute mode. Light will blink red and white while in Mute mode. Press once again to exit Mute mode.
  - Press and hold for 5 seconds to power Mini Receiver off.
9. **USB Port** – Used to connect USB-C cable to recharge internal battery.

Notes

# Notes

