



### A Message from the President

Congratulations on purchasing an Anchor Audio system, the choice of thousands of satisfied customers including the White House, prestigious universities, school districts nationwide, police and fire departments, and all branches of the U.S. Military. Our products are made of the finest materials and built with pride in the U.S.

We've incorporated the latest technology into your sound system yet kept it simple to use. Just take a few minutes to review this manual to ensure the maximum enjoyment of your Anchor system. Or, you can view a demonstration video complete with a trouble shooting section at [www.anchoraudio.com](http://www.anchoraudio.com).

Feel free to call our friendly customer support staff at 1-800-ANCHOR1 with any questions. We love to hear from our customers.

Janet Jacobs, President  
on behalf of all Anchor employees

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### GETTING STARTED

Please check your new unit carefully for any damage which may have occurred during shipment. Each Anchor product is carefully inspected at the factory and packed in specially designed boxes for safe transport.

Notify the freight carrier immediately of any damage to the shipping box or product. Repack the unit in the original box and wait for inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

NOTE: All damage claims must be made with freight carrier!

### RETURNING SYSTEMS FOR SERVICE OR REPAIR

For service or repair, please contact the dealer you purchased your system from, call us at 1-800-262-4671, or visit [www.AnchorAudio.com](http://www.AnchorAudio.com), Contact Us page. Our tech support team will issue an RA number for warranted systems, after which, you can ship the item(s) to Anchor for repair. All shipments to Anchor Audio must include an RA number and must be shipped prepaid. C.O.D. shipments and shipments without an RA number will be refused and returned at your expense.

IMPORTANT: Save the shipping box & packing materials, they were specially designed to ship your unit!

## Diversity Wireless by Anchor Audio

Anchor Audio Assistive Listening Systems are 100 channel UHF diversity wireless systems. Diversity wireless technology utilizes two independent antennae to receive signals. The diversity feature means the receiver will process the stronger of the two antenna signals, effectively minimizing dropouts and interference from other sources.

### Quick System Setup Instructions – Assistive Listening Package

#### **ALT-9000 Assistive Listening Transmitter**

1. Connect provided external antenna
2. Plug in ALT-9000
3. Power on transmitter base station
4. Plug in audio source to ALT-9000 into one or both line-in
5. Adjust input gain/volume knob on back panel as needed

#### **ALB-9000 Assistive Listening Beltpack Receiver**

1. Install 2 AA 1.5V batteries in beltpack
2. Extend antennas for maximum reception
3. Plug in headphones
4. Power on ALB-9000
5. Adjust volume as needed

#### **NOTE:**

Verify both transmitter beltpack and beltpack receivers are synchronized to the same channel. Default frequency setting is 902.00. This can be changed as needed. See Changing transmitter frequency on page 4.

### AL-9000 Assistive Listening Package



### Tour-9000 Tour Guide Package



### Quick System Setup Instructions – Tour Guide Package

#### **WB-9000 Assistive Listening Beltpack Transmitter**

1. Install 2 AA 1.5V batteries in beltpack
2. Extend antenna for maximum reception
3. Plug in microphone element to beltpack
4. Power on WB-9000
5. Adjust volume as needed

#### **ALB-9000 Assistive Listening Beltpack Receiver**

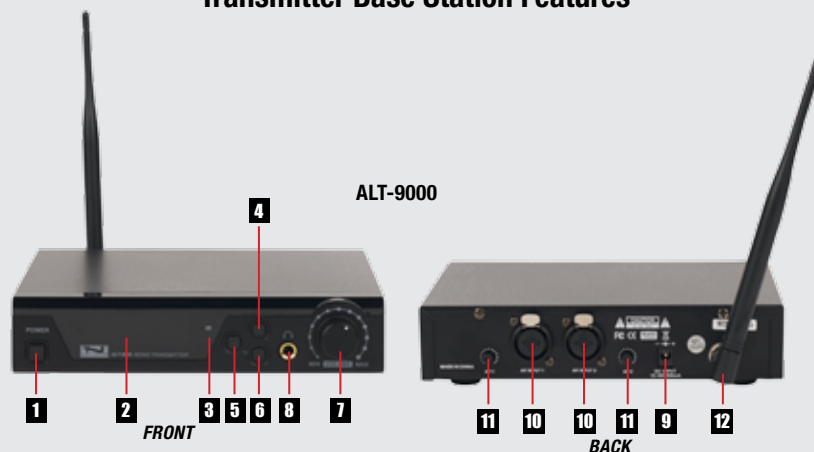
1. Install 2 AA 1.5V batteries in beltpack
2. Extend antennas for maximum reception
3. Plug in headphones
4. Power on ALB-9000
5. Adjust volume as needed

#### **NOTE:**

Verify both transmitter beltpack and beltpack receivers are synchronized to the same channel. Default frequency setting is 902.00. This can be changed as needed. See Changing transmitter frequency on page 4.

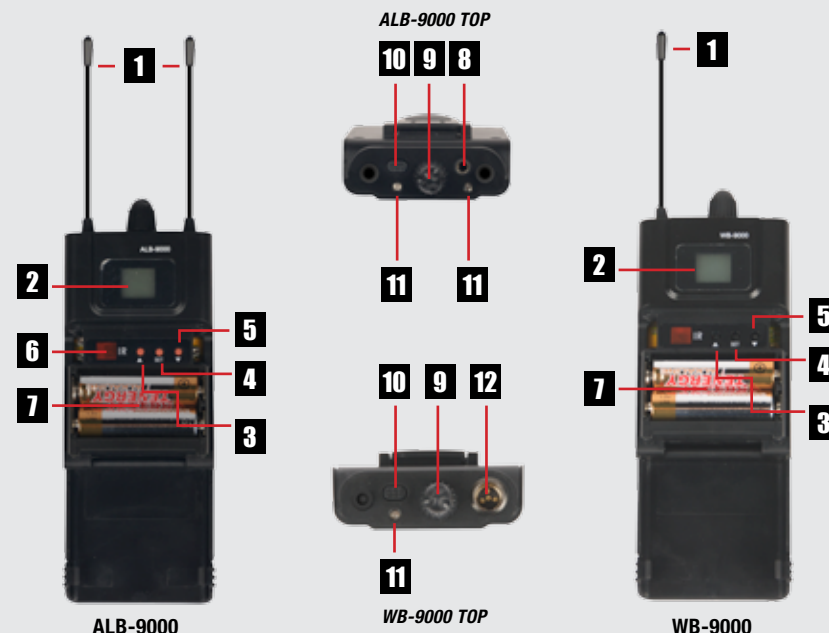
**NOTE:** It is advised to set the beltpack receiver volume to its minimum. Increase volume gradually to a comfortable level. Also, if using base station transmitter, set the input gain/volume knob to a minimum level to reduce hissing.

## Transmitter Base Station Features



1. **POWER SWITCH**  
Press to power on, press to power off, blue lights illuminate up when transmitter is on
2. **LCD DISPLAY**  
The high resolution LCD display shows the group, channel frequency, antenna status, RF level and IR set
3. **IR INFRARED PORT**  
Sends IR signal to the receiver for frequency synchronization
4. **UP BUTTON**  
Adjusts the frequency, channel, group, and power
5. **SET BUTTON**  
Menu control to set group, channel, frequency, power, and IR Synch
6. **DOWN BUTTON**  
Adjusts the frequency, channel, group, and power
7. **VOLUME CONTROL**  
Headphone jack volume control
8. **HEADPHONE JACK**  
Headphone output connector 1/4" jack
9. **POWER SUPPLY JACK (DC12-18V / 500mA)**  
Power supply input jack
10. **1/4" AUDIO INPUT JACKS**  
Connects audio source (mixer, computer, etc.)
11. **INPUT VOLUME CONTROLS**  
Input volume control/input gain
12. **TNC ANTENNA SOCKET**  
High gain antenna input

## Beltpack Receiver Features



1. **ANTENNA**  
1/4 wavelength wire type antenna(s). Should be fully extended during normal operations.
2. **BACKLIT LCD**  
Displays frequencies and battery life. Replace batteries when symbol blinks.
3. **UP BUTTON**  
Adjusts the frequency
4. **SET BUTTON**  
Menu control to set the frequency
5. **DOWN BUTTON**  
Adjusts the frequency
6. **IR INFRARED PORT**  
Receives IR signal from transmitter base station to synchronize frequencies. Hold the receiver with IR port facing directly to transmitter IR port when transmitter is in sync mode (ALB-9000 only).
7. **BATTERY COMPARTMENT**  
To replace batteries, slightly press the marked positions on sides of the cover. Make sure to check polarity of the batteries.
8. **HEADPHONE AUDIO OUTPUT**  
3.5mm plug (ALB-9000 only)
9. **VOLUME CONTROL**  
Turn clockwise to increase, counter-clockwise to decrease
10. **POWER SWITCH**  
Press to turn on, hold for 2 seconds to turn off
11. **RF INDICATORS**  
Antenna indicator(s)
12. **MIC INPUT**  
Mini XLR microphone element input (WB-9000 only)

# Assistive Listening Owners Manual



TWO YEAR WARRANTY

## CHANGING TRANSMITTER AND BELTPACK FREQUENCIES

The Assistive Listening 9000 system operates on the 902-928 MHz frequency range. The default frequency is set to 902.00 MHz. If you are experiencing interference or need to change to a different channel, follow the steps below to first select transmitter frequency, then sync beltpacks. There are 100 channels to choose from, which are organized as follows: 10 groups, each group has 10 channels = 100 channels total.

### ALT-9000 Assistive Listening Transmitter

#### GROUP setting

- Push SET button once. 'Group' will blink. Push UP and DOWN to select the desired group (1-10). Wait 10 seconds for selection to confirm.

#### CHANNEL setting

- Push SET button twice. 'Channel' will blink. Push UP and DOWN to select the desired channel (1-10). Wait 10 seconds for selection to confirm.

#### RF POWER Output Level setting

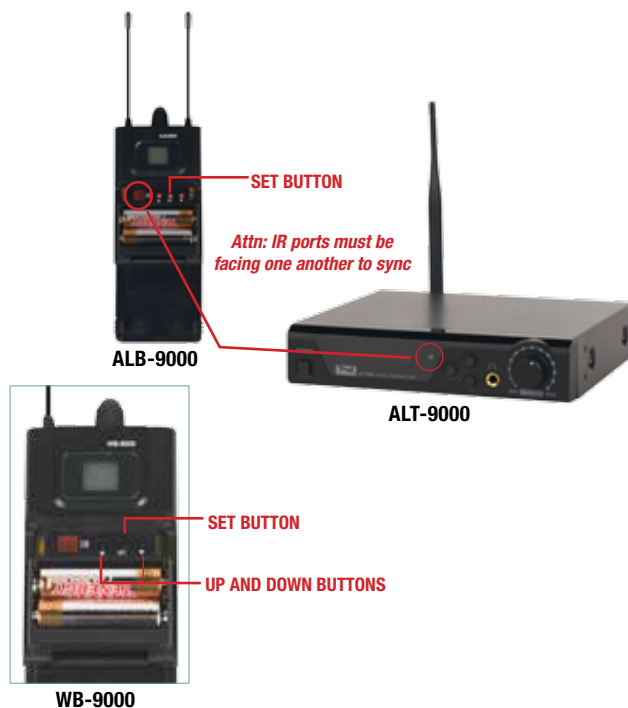
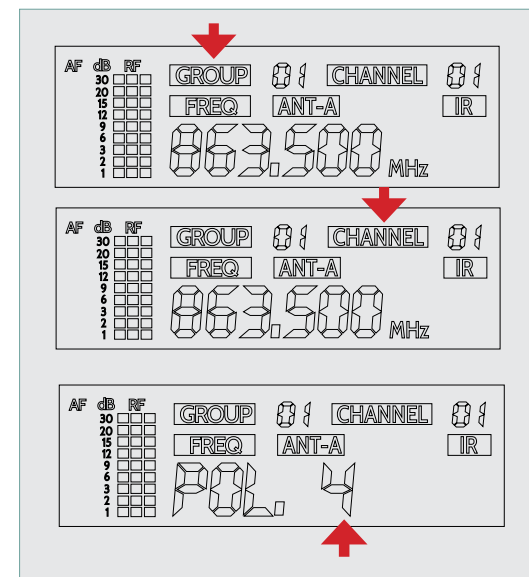
- Push SET button three times. 'POL' (Power Output Level) will blink. Push UP and DOWN to select the desired power level (1-4). Wait 10 seconds for selection to confirm.

#### Power Output Level chart

POL	RF Power
1 =	5 mW
2 =	10 mW
3 =	30 mW
4 =	100 mW

*The Assistive Listening 9000 system default RF power output level (POL) is set to 4 (100mW)*

- Large area - use higher power
- Small area - use lower power
- Experiencing interference on all channels - use lower power



### ALB-9000 Assistive Listening Beltpack Receiver

**IR Synchron** – Beltpack can be automatically synced to the same frequency as ALT-9000 using the IR ports on the transmitter base station and beltpack receivers.

1. Press and hold SET button on transmitter base station for 2 seconds. Transmitter LCD display will blink.
2. Power on beltpack receiver. Open battery compartment. Hold beltpack IR port 2 – 5 inches away from transmitter's IR port. IR ports must be facing one another. Beltpack LCD will blink when frequencies are synced.
4. Once frequencies on transmitter base station and beltpack receivers are the same, the beltpack will pick up audio signal from the transmitter.
5. Repeat for each beltpack in use.

**Manual Frequency Adjust** – Beltpack receiver can be manually synced to the same frequency as ALT-9000 or WB-9000.

1. Open battery compartment. Using a pointed edge tool, press and hold SET button for 2 seconds. Beltpack receiver display will flash.
2. With pointed edge tool, press up or down until desired frequency is displayed.
3. Press SET button to confirm selection.

### WB-9000 Assistive Listening Beltpack Transmitter

1. Open battery compartment. Using a pointed edge tool, press and hold SET button for 2 seconds. Beltpack transmitter display will flash.
2. With pointed edge tool, press up or down until desired frequency is displayed.
3. Press SET button to confirm selection.

**NOTE:** It is advised to set the beltpack receiver volume to its minimum. Increase volume gradually to a comfortable level. Also, if using base station transmitter, set the input gain/volume knob to a minimum level to reduce hissing.

## Important Safety Instructions

- 1) Read Instructions – All the safety and operation instructions should be read before the product is operated.
- 2) Retain Instructions – The safety and operating instructions should be retained for future reference.
- 3) Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
- 4) Follow Instructions – All operating and use instructions should be followed.
- 5) Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.  
Exception: A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for the CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the product in the cleaning description otherwise in above 5).
- 6) Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7) Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8) Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9) A product and cart combination should be moved with care. Quick stop, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10) Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a build-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11) Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12) Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13) 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 product.
- 14) Protective Attachment Plug – The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- 15) Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection of grounding electrodes, and requirements for the grounding electrode. See Figure A.
- 16) Lightning – For added protection this product during lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 17) Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 18) Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 19) Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 20) Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 21) Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power-supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the product.
  - c. If the product has been exposed to rain or water.
  - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - e. If the product has been dropped or damaged in any way.
  - f. When the product exhibits a distinct change in performance – this indicates a need for service.
- 22) Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23) Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operation condition.
- 24) Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 25) Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.





TWO YEAR WARRANTY

## Troubleshooting guidelines:

### No Sound:

- Check the power supply of transmitter and receiver
- Check that transmitter and receiver are tuned to the same frequency
- Check that transmitter and receiver volume/gain knobs are turned up
- Verify that the transmitter is not too far away from receiver (ALT-9000 = 500 ft. max/WB-9000 = 200 ft. max)
- Verify that receiver is not located near metal objects and that there are not too many obstructions between transmitter and receiver

### Sound Interference:

- Check antenna location on transmitter and verify the beltpack antennas are straight
- Make sure that the chosen frequencies are not experiencing interference
- Verify there are no other wireless devices on the same channel in a close proximity

### Distortion:

- Check if the receiver volume level and/or power output levels are set too high
- Verify there are no other wireless devices on the same channel in a close proximity

### Excessive Hissing:

- Adjust the AF input at the transmitter base station as low as possible

## ANCHOR AUDIO CUSTOMER SERVICE

**800.262.4671**

FOR ADDITIONAL INFORMATION  
visit [www.anchoraudio.com](http://www.anchoraudio.com)

## Anchor Audio Warranty

Anchor Audio products are warranted to be free from defects in materials and workmanship for the period of SIX (6) YEARS from the date of original purchase unless listed below, which are warranted for a period of TWO (2) YEARS:

- All wired and wireless microphones, beltpack transmitters, base station transmitters, base station receivers, and hands-free microphones
- Rechargeable batteries
- All woodworking
- CouncilMAN microphones and bases
- PortaCom and ProLink 500 systems in their entirety
- Assistive Listening systems in their entirety
- Accessories, cables, cases, and covers

Warranties are subject to the following conditions:

- Product must have been purchased from an authorized Anchor Audio Dealer
- Anchor Audio must perform or authorize all warranty services or warranty is void
- Warranty is void when equipment is subjected to negligent use, connection to improper power sources, misuse, and operation beyond specifications and limits
- Warranty shall not apply to exterior finish, AC power cords, bulbs, or any other failings due to normal wear
- Warranty is void when equipment is subjected to adverse temperature, humidity, moisture, or any condition not considered normal environmental conditions
- Products out of warranty cannot be repaired by Anchor Audio

To locate an authorized dealer near you, please contact [sales@anchoraudio.com](mailto:sales@anchoraudio.com). Please contact Technical Support at [www.AnchorAudio.com/technical-support-form.html](http://www.AnchorAudio.com/technical-support-form.html) to with any questions, to begin the Return Authorization process, or to verify your warranty period.

## ASSISTIVE LISTENING TECHNICAL SPECIFICATIONS

### ALT-9000 – Base Station Transmitter

Frequency Range: 902~928 MHz  
System Range: Up to 500' line of sight  
Channels: 100 (10 x 10)  
Oscillator: PLL Synthesized  
Modulation: FM, Mono  
RF Output Power: 5mW/ 10mW/ 30mW/ 100mW  
Frequency Response: 60 Hz - 17 kHz  
Dynamic Range: >100dB  
Audio Input: 2 x 1/4 "Jack  
Antenna: TNC  
Power Supply: DC 12-18V/500mA  
Dimensions: (HWD) 2" x 8.5" x 8"  
(5 x 22 x 20 cm)

### ALB-9000 – Beltpack Receiver

Frequency Range: 902~928 MHz  
Oscillator: PLL Synthesized  
Modulation: FM, Mono  
Type of reception: Diversity  
Sensitivity: -107dBm  
Antenna: 1/4 wave length wire type  
Earphone output: 3.5mm / 16-Ohm, 105mW  
Power Supply: 2 x 1.5V AA, Alkaline batteries  
Dimensions: (HWD) 4" x 2.5" x 1"  
(10 x 7 x 3 cm)

### WB-9000 – Beltpack Transmitter

Frequency Range: 902~928 MHz  
System Range: Up to 200' line of sight  
Oscillator: PLL Synthesized  
Modulation: FM, Mono  
RF Output Power: 10mW  
Input connector: TA4F plug for an Anchor LM-60 or HBM-TA4F  
Antenna: 1/4 wave length wire type  
Power Supply: 2 x 1.5V AA, Alkaline batteries  
Dimensions: (HWD) 4" x 2.5" x 1"  
(10 x 7 x 3 cm)



(Specifications Subject to Change Without Notice)