

Frequency Allocation

U.S.A.		
FREQ. GROUP J		
CH.	FREQ. (MHz)	(TV CH.)
0	692.125	51
1	692.475	
2	692.925	
3	693.475	
4	694.125	
5	695.025	52
6	696.475	
7	698.225	
8	700.125	
9	702.775	53
A	703.875	
B	706.625	54
C	709.725	
D	713.925	55
E	716.125	
F	720.975	

EXPORT			
	K	L	M
CH.	FREQ. (MHz)	FREQ. (MHz)	FREQ. (MHz)
0	854.900	794.025	800.650
1	855.275	796.700	802.025
2	855.900	798.300	803.050
3	856.175	800.225	803.550
4	856.575	805.500	804.800
5	857.625	807.000	806.950
6	857.950	812.000	808.575
7	858.200	821.900	809.225
8	858.650	823.000	811.725
9	860.400	824.225	812.850
A	860.900	826.025	813.750
B	861.550	826.775	801.100
C	863.375	802.775	801.925
D	863.925	805.900	802.325
E	864.375	818.025	806.850
F	864.725	829.900	810.100

Troubleshooting Guide

Having trouble with the wireless system?

Condition

Possible Cause

No sound (power LED not lit):

- power supply not plugged in

No sound (power LED lights):

Antenna LED off

- output cable unplugged
- transmitter not on
- low battery or no battery in transmitter
- wireless volume control low or off
- no mic plugged into belt-pack transmitter

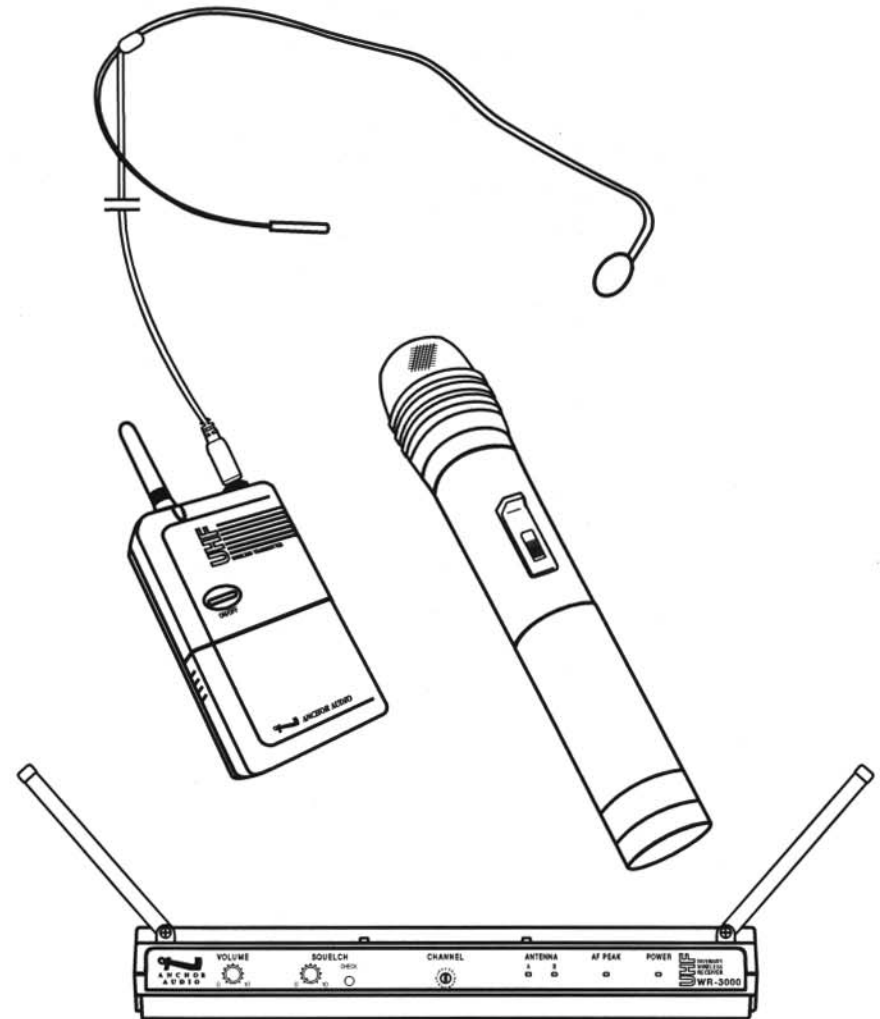
Antenna LED on

Distorted sound:

- poor or improper connection on input cable
- input signal too strong

Excessive hum or noise:

- input cable not shielded
- not using balanced cable



ANCHOR UHF WIRELESS SYSTEM



ANCHOR Audio, Inc. (310) 784-2300
100-0124-000 / Revision A, 1/03

Owner's Manual





IMPORTANT SAFEGUARDS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.



AVIS
RISQUE DE CHOC
ELECTRIQUE
NE PAS OUVRIR



ATTENTION: Pour éviter les risques de choc électrique, ne pas enlever le couvercle. Aucun entretien de pièces intérieures par l'utilisateur. Confier l'entretien au personnel qualifié.

AVIS: Pour éviter les risques d'incendie ou d'électrocution, n'exposez pas cet article à la pluie ou à l'humidité.

EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

EXPLICATION DES SYMBOLES GRAPHIQUES

Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour la fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.



CONTENTS

Getting Started	3
Quick Setup	4
Operation	5-10
Specifications	11
Frequency Chart	back cover
Troubleshooting	back cover

SPECIFICATIONS

RECEIVER

Power Source:	12-18VDC (supplied AC-3000 power supply must be used)
Power Consumption:	130mA @ 12VDC
Receiving Frequency:	16 Channel selectable (UHF) See frequency chart on back cover
Antenna type:	Rod (2)
Diversity System:	Antenna (or space) diversity
Receiving Sensitivity:	>80dB
Squelch Sensitivity:	18-40dBuV, variable
Frequency Response:	100-12KHz, +/- 3dB
S/N Ratio:	>104dB (a weighted, balanced output)
Harmonic Distortion:	<1%
Outputs:	Phone jack (unbalanced), 600 ohm impedance XLR (balanced), 600 ohm impedance
Output Level:	selectable to -20dB or -60dB nominal
Mix Input:	Phone jack (unbalanced), 10K ohm impedance. Accepts a -20dB signal
Operating Temperature:	-10 to +50 degrees C
Dimensions:	9.45 (240mm) W x 1.38 (35mm) H (without rubber feet) x 4.33 (110mm) D
Weight:	2.3lbs. (1.05kg)

POWER SUPPLY

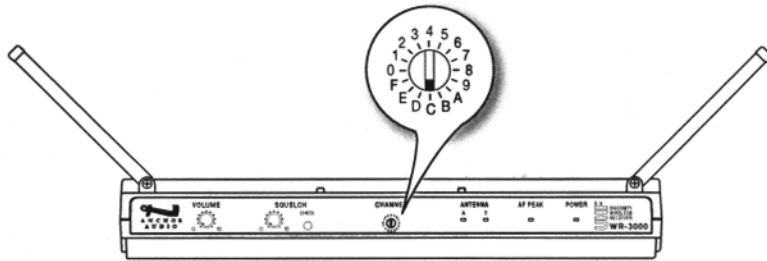
INPUT: US Model	110-125VAC, 50/60HZ, 6.5W for AC-3000
Export Models	210-240Vac, 50/60Hz, 6.5W for AC-3000UK & AC-3000E

Date of Manufacture: The date of manufacture of this Anchor Audio product can be determined by the six digit serial number code. The 1st digit denotes the month (A=Jan., B=Feb., etc.), the 2nd digit denotes the year. Example: "K20142" states that the unit was manufactured in November of 2002.

Specifications subject to change without notice.



OPERATION



NOTE: It is necessary for the transmitter and receiver to be operating on the same channel.

Operation

Confirm both receiver and wireless microphone are on the same channel number (Refer to Channel Selection above). Place the transmitter ON/OFF switch in the ON position. The red LED will indicate the mic is on.

Hold/place the microphone 1-2" from your mouth.

NOTE: If the mic placement is too far from your mouth, there may be insufficient signal strength for the application, requiring an increase in volume. This may increase the risk of feedback.

If you are using a microphone other than the CM-3000, HBM-3000 or the LM-3000 with the Belt Pack, it may be necessary to adjust the LEVEL setting in the battery compartment, next to the channel select switch (see illustration on page 9). Return the transmitter to the OFF position when not in use to preserve battery life.

The microphone's usable distance is up to 300 feet. When the microphone user moves about, signal "drop outs" may occur. These will be heard through the system as an interruption in speech and can also be seen by the receiver's indication LED. This may be due to obstructions or interferences which block or impede the transmission of the signal. The user may need to try a different channel or change locations for better reception.

In multiple wireless system applications, it is imperative that each system operates on its own frequency or channel.

Should you have any questions regarding the use of Anchor Wireless products, please contact Anchor Audio 800 262-4671.

Thank you for choosing an Anchor Audio portable sound system. Our products incorporate state-of-the-art design and the finest quality of materials and workmanship. We're proud of our products and appreciate the confidence which you have shown by selecting an Anchor system.

I hope you'll take a few of minutes to review this manual. We've incorporated several unique features into our products, and your knowledge of how to use them will enhance the performance and your enjoyment of the system.

David Jacobs, President
on behalf of all Anchor employees

GETTING STARTED

Inspection and inventory of your system

Check unit carefully for damage which may have occurred during transit. Each Anchor product is carefully inspected at the factory and packed in a special carton for safe transport.

Inventory

- UHF wireless receiver
- AC power supply
- Warranty registration card

All damage claims must be made with the freight carrier.

Notify the freight carrier immediately if you observe any damage to the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

Returning your unit for service or repair

Should your unit require service, contact your dealer or the Anchor Audio Customer Service Department at (800) 262-4671 to obtain a Return Authorization (RA) number. All shipments to Anchor Audio must include an RA number and must be shipped prepaid. C.O.D. shipments will be refused and returned at your cost.

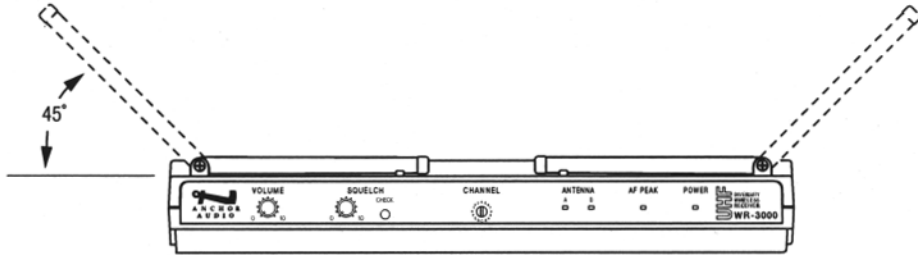
Warranty registration

Please fill out the warranty card and return it with a copy of your invoice to Anchor's Customer Service Department. This will activate your limited six year warranty.



QUICK SET UP

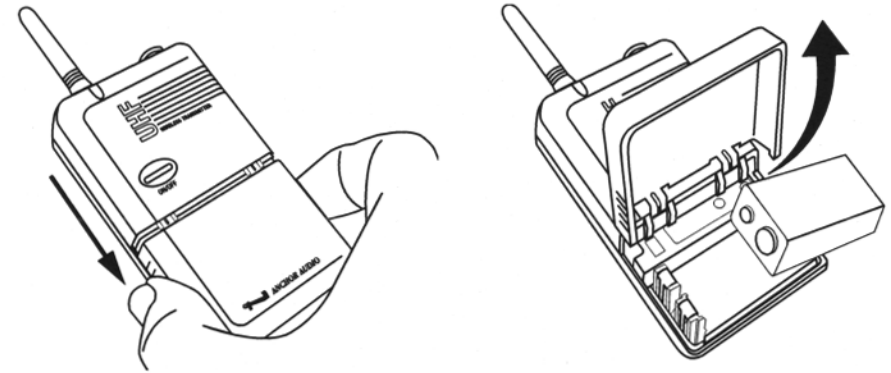
1. Connect a cable from the UHF receiver to the sound system. If it is necessary for the receiver to be away from the sound system, use a balanced / microphone cable for best results.
2. Select the appropriate output level based on the subsequent input being used; -60dBV for a microphone input, -20dBV for a line level input.
3. Raise the antennae to a 45 degree angle relative to the top of the receiver.



4. Connect the power supply to the receiver's DC IN jack. Since the WR-3000 does not have a power switch, simply plugging the power supply into an AC outlet will power up / turn on the receiver. The POWER LED on the front panel should illuminate.
5. Set the wireless transmitter and receiver to the same channel / frequency. Refer to pages 9 and 10 for channel selection procedure.
6. Confirm that there is a fresh battery in the transmitter and turn it on along with the sound system.

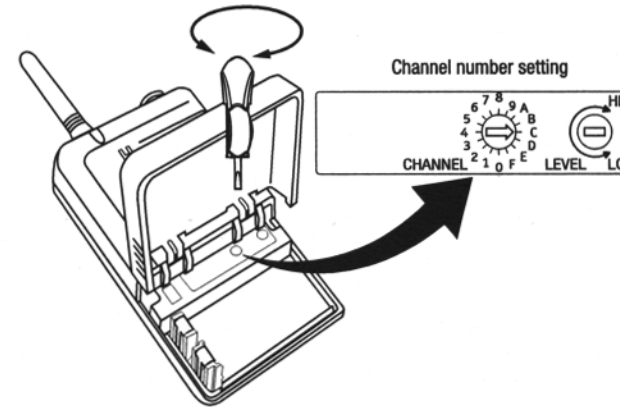
The system is now ready for use.

OPERATION

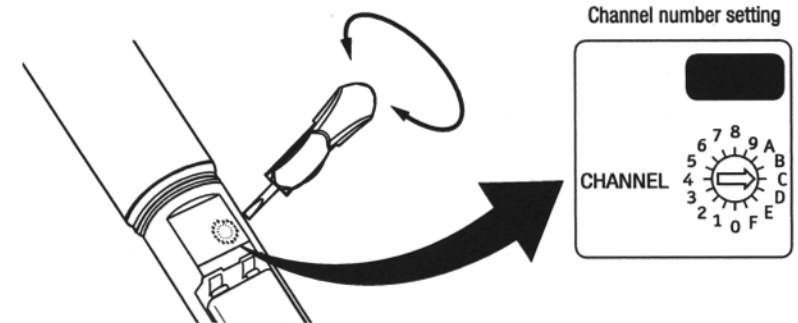


Channel Selection

Using the screwdriver supplied, select a channel, 0 through F (It may be necessary to try more than one channel to find which one functions best in your area). Use the same screwdriver to select the same frequency on the wireless transmitter. Open the battery compartment. The channel selector switch will be under the battery cover as shown at the left below.



Close the battery cover on the transmitter and replace the screwdriver on the receiver panel.



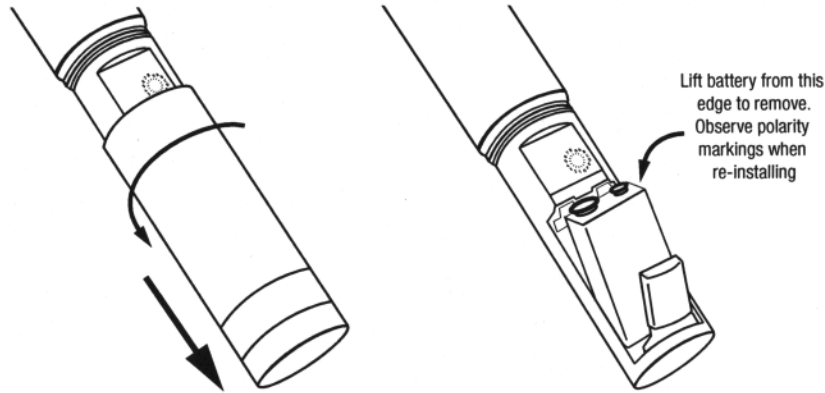


The Anchor Audio UHF wireless is a 16 channel, diversity wireless system. The receiver, transmitted in the less crowded UHF band, utilizes two independent antennae to receive signal. The diversity feature means that the receiver will process the stronger of the two antenna signals, effectively minimizing dropouts and interference from other transmitting sources.

Before you can begin to use your UHF wireless system, you will need to select a wireless frequency channel that will be most suited for your region. Various entities may be broadcasting in your area making it necessary to select a different channel than that selected at the factory. See Channel Selection later in this section.

Battery Insertion / Replacement for transmitters

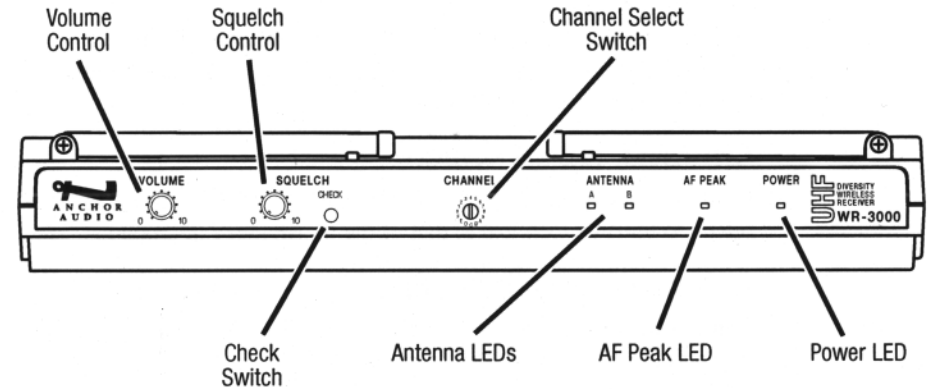
A brand new Alkaline battery will provide power enough to operate the microphone continuously for approximately 10 hours. As long as the battery has sufficient power for the microphone to function properly, the red LED will light solidly. When the red LED starts to fade or dim, then flash, replace the battery.



Hold the microphone body and rotate the microphone grip counterclockwise to remove it.

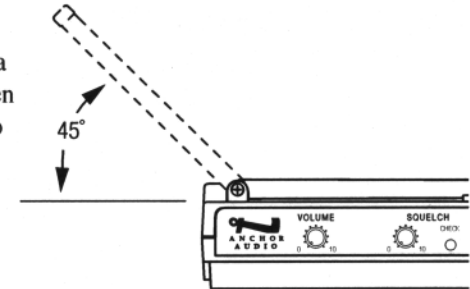
Insert the battery (Alkaline 9V) according to the instructions attached to the inside of the battery compartment. Pay attention to the correct polarity when inserting the battery.

Replace the microphone grip by sliding it over the battery and rotating it clockwise.



Antenna

Raise the two antenna to a 45 degrees angle each from the top of the receiver. Use this reference as a starting point. Reposition, if necessary, to improve reception at an imperfect location. Keep the antenna in their down position when transporting the receiver to avoid damage.



VOLUME Control:

Use this control to adjust the output signal level.

SQUELCH control:

Controls the squelch level. This circuit suppresses the audio output of the receiver when there is an absence of strong, desired signal input. This prevents unwanted lower-power or slightly off frequency input signals from being heard at the output of the receiver.

NOTE: For most applications, setting the squelch control between 0 and 2 will be acceptable. If more suppression is necessary, adjust the Squelch to a higher setting (higher number). This minimizes the possibility of interference but diminishes the usable service distance. Conversely, setting the Squelch to minimum provides minimal interference suppression but allows for maximum reception distance.



CHECK switch:

Disables the squelch feature while the button is depressed to allow monitoring the receiver for any unwanted transmissions at the currently selected channel / frequency.

CHANNEL select switch:

Used to select the channel / frequency. NOTE: The receiver frequency selection must be identical to that of the transmitter / microphone.

Antenna (reception) LEDs:

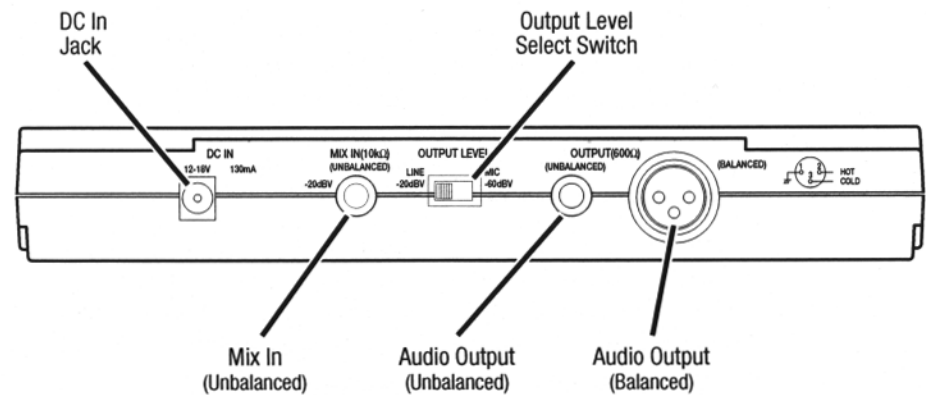
Either A or B LED illuminates yellow when the receiver detects an RF signal at the selected channel / frequency.

AF PEAK LED:

Illuminates red when the receiver output level is within 3dB (or higher) of clipping. For best results, set the volume level so that the red LED just turns on with the loudest input signal.

POWER LED:

Illuminates green when the power is applied from the power supply unit to the receiver.



Audio OUTPUT (BALANCED):

This output is a three pin, male XLR jack (pin 2 is signal +). Connect a standard microphone / balanced XLR cable from this jack to the balanced input of a mixing console or Anchor sound system.

Audio OUTPUT (UNBALANCED):

This output is a 1/4" phone jack (tip is signal +). Connect a standard 1/4" shielded line cable from this jack to the unbalanced input of a mixing console or Anchor sound system.

Audio OUTPUT LEVEL Selector:

Sets the audio output level to either -60 dB for connection to a microphone input or to -20dB for connection to a line level input (0dB = 1V) of the next subsequent component of the sound system.

MIX IN (UNBALANCED):

Use this input to daisy chain a second UHF receiver's audio signal (with output level selector to -20dB). Up to three receivers can be connected in this manner eliminating the need for an external mixer.

DC IN Jack:

Connects the unit to the AC-3000 power supply. Because the receiver is equipped with no power switch, it automatically turns on when the power supply is connected to this jack and the wall AC outlet. Disconnect the power supply unit from the AC outlet when the receiver is not in use.