HAVING TROUBLE W/ YOUR WIRELESS SYSTEM?

CONDITION	POSSIBLE CAUSE
No Sound	• check the power supply of the microphone and receiver • check that the transmitter and receiver are tuned to the same frequency • check whether the hi-fi appliance is switched on and the receiver output is connected to the audio mixer or amplifier input • check whether transmitter is too far away from receiver or SQUELCH control set too high • check whether receiver is located too near metal object or there are obstructions between the transmitter and receiver
Sound Interference	• check the antenna location • when using 2 or more microphone sets simultaneously, make sure that the chosen frequencies do not interfered • check whether the interference comes from other wireless microphones, TV, radio and etc.
Distortion	• check the receiver volume level is set too high or too low • check whether the interference comes from other wireless microphones, TV, radio and etc.

ANCHOR AUDIO CUSTOMER SERVICE

888-444-6077

UHF-6400 TECHNICAL SPECIFICATIONS

WR-6400 – UHF Receiver	
Receiving System	PLL Synthesized, 64 CH
Frequency Stability	± 0.005%
S/N Ratio	> 94 dB, 48KHz deviation & 60 dBμV antenna input
Image & Spurious Rejection	80 dB minimum
Sensitivity	6 dBμV
Selectivity	> 50 dB
AF Response	50 Hz – 15 KHz *(± 3 dB)*
T.H.D.	< 1% *(@ 1 KHz)*
Modulation Mode	FM
IF Frequency	1st 56 MHz / 2nd 10.7 MHz
Dynamic Range	> 96 dB
Tone Signal	32.768 KHz
Audio Output	Balanced & unbalanced
Power Supply	12V DC
Frequency Stability	± 0.005%
Dimensions *(HWD)*	1.77x16.54x7.1" / 45x420x180 mm

WH-6400 / WB-6400 – UHF Transmitters	
RF Power Output	10mW
Oscillation Mode	PLL synthesized
Frequency Stability	± 0.005%
Max. Deviation	± 48 KHz
Spurious Emission	> 60 dB below carrier freq.
Microphone Capsule	
Handheld	Uni-directional dynamic or electret condenser
Lavaliere	Uni-directional electret condenser
Sensitivity	6 dBμV
T.H.D.	< 1% @ 1 KHz
Tone Key	32.768 KHz
Operating Voltage	2 x DC 1.5V "AA" batteries
Consumption	65 mA ± 10 mA
Operating Time	20 hours
Dims Handheld	2.17 dia x 10.50" / 55 dia x 267 mm
Dims Body Pack	3.86x2.60x1.02" / 98x66x26 mm

(Specifications subject to change without notice)

Anchor Audio, Inc.
Portable Sound Systems • Torrance, California

64 CHANNEL UHF

ANCHOR WIRELESS UHF SYSTEM

OWNER'S MANUAL

CONTENTS

100-0133-000/B - 1/07

A MESSAGE FROM THE OWNER

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 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

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 or Anchor Audio Customer Service at (888) 444-6077 to obtain a RA *(Return Authorization)* 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 expense.

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

WARRANTY REGISTRATION

Visit our website at www.anchoraudio.com and select "Warranty Registration". Complete the online form to activate the six-year limited warranty on your Liberty sound system and two-year limited warranty for the CD player and microphones.

ANCHOR WIRELESS 64 CHANNEL UHF SYSTEMS & ACCESSORIES

UHF-6400US/HH **64 CHANNEL RECEIVER & HANDHELD MICROPHONE/TRANSMITTER**

UHF-6400US/BP **64 CHANNEL RECEIVER & BODY-PACK TRANSMITTER W/ HANDS FREE MICROPHONE**

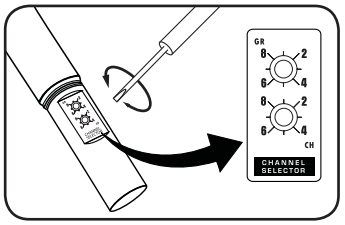
WIRELESS ACCESSORIES

WH-6400	64 channel wireless handheld microphone/transmitter
WB-6400	64 channel wireless body-pack transmitter for hands free microphone *(microphone not included - see below)*
CM-60	Lightweight, low-profile collar microphone - works w/ the WB-6400 transmitter
EM-60T	UltraLite "Over-the-Ear" hands free microphone - works w/ the WB-6400 transmitter
HBM-60	Ultra-lightweight headband microphone - works w/ the WB-6400 transmitter
LM-60	Lightweight, clip-on lapel microphone - works w/ the WB-6400 transmitter

OPERATING THE WIRELESS MICROPHONE / TRANSMITTER

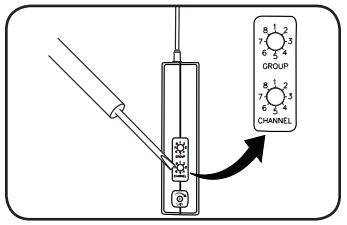
CHANNEL SELECTION - HANDHELD TRANSMITTER

1. Unscrew battery cover on bottom of microphone
2. Set the CHANNEL & GROUP SELECTOR dials to match the setting of your receiver
3. Replace battery cover and tighten firmly



CHANNEL SELECTION - BODY-PACK TRANSMITTER

1. The selection dials are located on the side of the transmitter
2. Set the CHANNEL & GROUP SELECTOR dials to match the setting of your receiver



NOTE: When using dual wireless, each microphone must be set to a different channel!

USING YOUR WIRELESS MICROPHONES

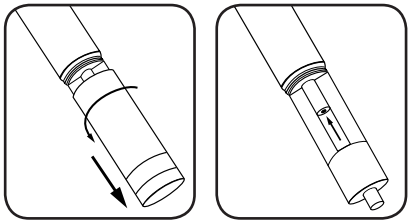
After you have set the transmitter channel *(see above)* you are ready to use your wireless microphone:

1. Body-pack transmitter users must insert the mic plug into the transmitter jack marked MIC
2. Turn the transmitter power switch to ON
   (The red LED will flash when the mic is turned on. If the red LED stays on, the battery is low)
3. Turn the receiver power switch to ON
4. The RX & AF indicators will light when the wireless signal is being transmitted and received

CAUTION: Harmful feedback may occur when walking in front of a sound system or speaker with a wireless microphone. Always point microphone away from speakers!

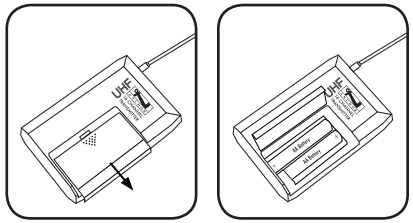
REPLACE BATTERY - HANDHELD TRANSMITTER

1. Unscrew battery cover on bottom of microphone
2. Replace old batteries with 2 fresh size 'AA' alkaline batteries
3. Replace battery cover and tighten firmly



REPLACE BATTERY - BODY-PACK TRANSMITTER

1. Slide open battery cover on front of transmitter
2. Replace old batteries with 2 fresh size 'AA' alkaline batteries
3. Replace battery cover by sliding firmly into place



NOTE: Transmitter power must be OFF when changing batteries!

DIVERSITY WIRELESS BY ANCHOR AUDIO

Anchor Audio UHF wireless is a 64 channel, diversity wireless system that receives signals with two independent antennae. With diversity wireless the receiver processes the stronger signal, effectively minimizing dropouts and interference from other transmitting sources. The antennae are mounted internally so there are no obstructions or risk of damage.

CHANNEL SELECTION - BASE STATION RECEIVER

Before you can use your UHF wireless system, you will need to select a wireless frequency, set the receiver, and microphone transmitter, to that channel.

1. Choose from any of the 64 available wireless channels
2. Set the receiver "GROUP" & "CHANNEL" selector knobs to the channel/frequency you have chosen

If you are using more than one wireless receiver repeat above for the each receiver. Remember each receiver/transmitter pair must be set to different channels for proper operation.

NOTE: Ongoing wireless interference? The frequency you selected may be in use by other systems in the area! Change channels until you find a clear frequency!

FCC STATEMENT

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.

NOTICE: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

SAFETY

- Do not spill liquid on the unit and do not drop it on a hard concrete floor.
- Do not place the unit near heat sources such as radiators, amplifier, or etc.
- Do not expose to direct sunlight, extreme dust, excessive moisture, or vibration.
- Remove batteries from transmitter if the unit will not be used for a long period to avoid the damage resulting from a leaking or otherwise defective battery.

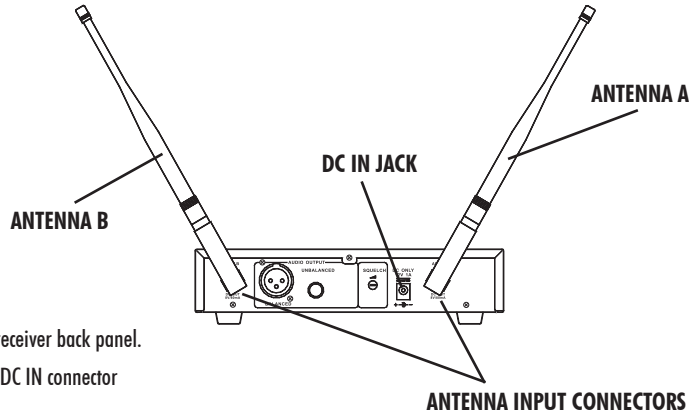
ENVIRONMENT

- Do not throw used batteries into a fire or garbage bin with domestic rubbish. Be sure to dispose of used batteries in accordance with local waste disposal rules.
- When disposing of the equipment, remove the batteries, separate the case, circuit boards and cables, and dispose of all components in accordance with local waste disposal rules.

CONNECTING ANTENNAS & POWER SUPPLY

Connect both antennas to the receiver back panel for proper operation.

1. Screw antennas onto TNC connectors on receiver back panel
2. Position antennas pointing upward and slightly to the sides



Connecting the AC adapter to the receiver back panel.

1. Insert AC adapter into the DC IN connector on receiver back panel
2. Plug AC adapter into electrical outlet
3. Push receiver Power knob on front panel

CONNECT RECEIVER TO AUDIO MIXER OR AMPLIFIER

Connect the receiver output to the audio mixer or amplifier input, using a standard audio cable with 3-pin XLR connectors or "M" *(6.3mm)* phone plugs.

To assure sound quality and avoid distortion, please adjust receiver volume level according to the following instructions. When using a standard audio cable with 3-pin XLR connectors or "M" *(6.3mm)* phone plugs to connect into:

MIC IN on audio mixer or amplifier, turn the Volume control to the 1 o'clock position, the output level for balanced and unbalanced output is about 77mV.

LINE IN on the audio mixer, turn the Volume control to the MAX position, the output level for balanced and unbalanced output is about 770mV.

BASIC SYSTEM OPERATION

NOTE: Fully Charge Batteries Before First Use!

1. Set all Input Level Controls to minimum & Tones Controls to flat or the middle setting before turning your system on
2. Plug a wired microphone into the MIC 1 or MIC 2 jacks and/or plug an audio source into the LINE-IN jack
3. Switch POWER to ON, the red BATTERY LED will light
4. Slowly increase the Level Control for the input jacks used to the desired volume
5. Set SPEECH PROJECTION to ON for speech applications or OFF for standard applications *(music & indoor use)*
6. Adjust BASS & TREBLE controls to desired sound quality

NOTE: Never use the balanced & unbalanced audio outputs the same time! Signal loss or increased noise may occur.

CHARGING RECHARGEABLE BATTERIES

IMPORTANT: Only use for rechargeable batteries.

Attempting to recharge normal batteries will cause damage to the unit.

1. Connect the supplied DC 1.5 cable to DC OUT on the receiver front panel.
2. Connect the other end of the cable to the charging input on the bottom of the microphone/transmitter.
3. Charging takes approximately 10 hours to complete.

NOTE: Transmitter LED will flash during charging.

HEADPHONE MONITOR VOLUME CONTROL
Turn knob to control headphone volume level

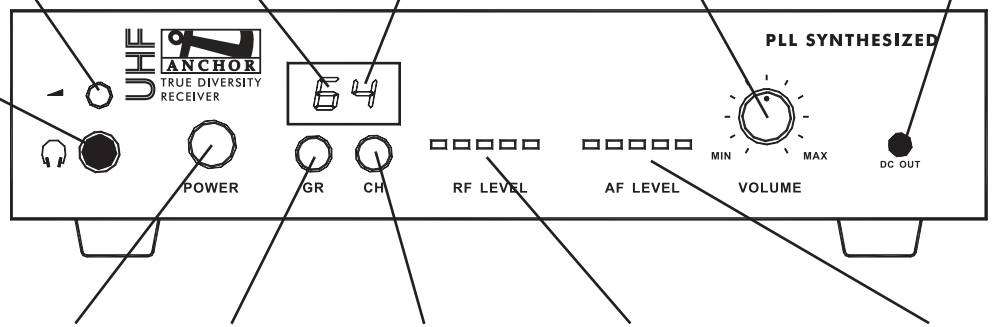
LED DISPLAY: GROUP NUMBER

LED DISPLAY: CHANNEL NUMBER

LEVEL CONTROL
Rotate to adjust the receiver output level to match the input sensitivity of an audio mixer or amplifier.

CHARGER INPUT
Connect the supplied DC 1.5mm cable to the receiver and the microphone, and it takes around 10 hours to re-charge and the LED of transmitter is flashing all the time.

HEADPHONE INPUT CONNECTOR
Plug headphone into this "M" *(6.3mm)* connector to monitor receiver audio



POWER
Push to turn the receiver on & off

GROUP SELECTOR
Rotate knob to choose group number.

CHANNEL SELECTOR
Rotate knob to choose channel number.

RF LEVEL INDICATORS
Five LEDs per RF antenna channel glow to indicate RF signal strength

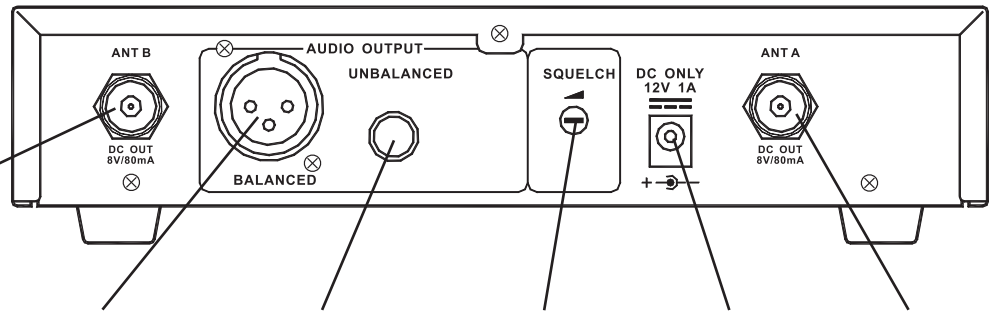
NOTE: If no LEDs are lit no signal is being received

AF LEVEL INDICATORS
Five LEDs light to indicate audio signal strength

Green = Normal Operation
RED = Approaching Overload Condition

UHF-6400 RECEIVER FRONT & BACK PANELS

MODEL SHOWN: WR-6400



ANTENNA B: INPUT CONNECTOR
TNC-type connector provides connection to supplied antennas or coaxial cable used w/ antenna divider, antenna boosters or remote antennas

BALANCED OUTPUT
3-pin XLR connector provides balanced low-impedance output

UNBALANCED OUTPUT
"M" *(6.3mm)* phone jack provides unbalanced low-impedance output

SQUELCH
Adjusts output level to suppress noise

(Set to minimum before turning receiver on)

DC IN
Input connector for AC adapter

ANTENNA A: INPUT CONNECTOR

NOTE: Setting squelch too high will reduce the usable range of the system.