



Notes:



**PLUG-IN-N-RECHARGE™ VHF DUAL-
CHANNEL WIRELESS MICROPHONE
SYSTEM**

**AWM6112
OWNER'S MANUAL**



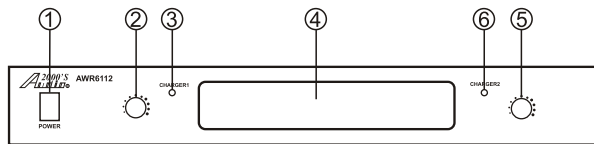
Thank you for purchasing the **Audio2000'S®** Plug-In-N-Recharge™ VHF Dual-Channel wireless microphone system! For the best results and the utmost satisfaction from your new unit, please read this manual thoroughly, and retain it for future reference. For more information, please visit our website (www.audio2000s.com).

AWR6112 RECEIVER

FEATURES

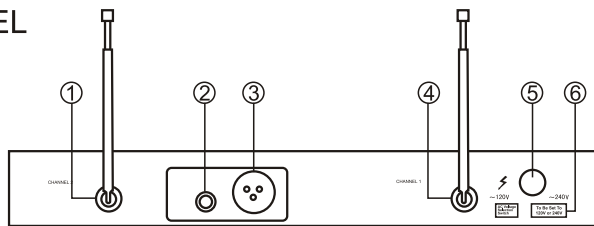
- * VHF Band Frequency
- * Recharge Mechanism Built-in on the Receiver
- * Balanced and Unbalanced Audio Outputs
- * Full Rack Case with Power and RF Indicators
- * Fluorescence Display
- * RF Input with Built-in RF Preamplifier to Improve S/N Ratio, Sensitivity and Dynamic Range
- * Low Noise Mixer Circuitry for Reducing interference
- * 120V-240V AC Power Supply

LOCATION AND FUNCTION OF PARTS AND CONTROLS FRONT PANEL



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Power On/Off Switch 2. Channel 1 Volume Level Control 3. Channel 1 Recharge LED Indicator | <ol style="list-style-type: none"> 4. Fluorescence Display 5. Channel 2 Volume Level Control 6. Channel 2 Recharge LED Indicator |
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REAR PANEL



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Channel 2 Antenna 2. Unbalanced Mixed Audio Output (1/4" Jack) 3. Balanced Mixed Audio Output (XLRM Jack) | <ol style="list-style-type: none"> 4. Channel 1 Antenna 5. AC Power Cord 6. 120V / 240V Voltage Selection Switch |
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SPECIFICATIONS

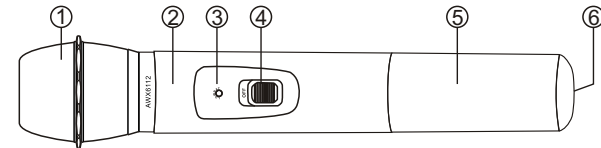
Carrier Frequency Range	VHF Band
Frequency Stability	±0.005%
Receiving Sensitivity	-97dBm
S/N Ratio	70dB
T.H.D.	<1%
Audio Output	1/4" and XLR (0 - 500mV @ 4.7K Ω)
Dimensions (W X H X D)	12.8" X 2.1" X 7.9" (326 X 53 X 200 mm)

AWX6112 TRANSMITTER

FEATURES

- * VHF Band Frequency
- * Recharge Mechanism at the Base of the Handheld Microphone
- * High Sensitivity Cardioid Microphone Capsule
- * Noise Reduction Mechanism for Eliminating Handling Noise and Switch Shock Noise
- * Low Battery LED Indicator

LOCATION AND FUNCTION OF PARTS AND CONTROLS HANDHELD MICROPHONE (AWX6112)



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Microphone Windscreen 2. Microphone Housing 3. Low Battery LED Indicator | <ol style="list-style-type: none"> 4. On/Off Switch 5. Battery Cover 6. Recharge Contacts |
|---|--|

SPECIFICATIONS TRANSMITTER

Carrier Frequency Range	VHF Band
Frequency Stability	±0.005%
Modulation	Frequency Modulation (FM)
Modulation Depth	30KHz
Output Power	30mW, Max
Harmonic Suppression	40dB
Battery	AA Batteries X 2 (1.5V X 2)
Current Consumption	85 mA

SYSTEM

Carrier Frequency Range	VHF Band
Frequency Stability	±0.005%
Audio Frequency Response	80 - 15,000Hz
Image and Spurious Rejection	45dB
S/N Ratio	> 75dB
Max. SPL	>100dB
T.H.D.	< 1%
Service Area	100 ft (30 M)
Operation Temperature	14 °F -122 °F (-10 °C - +50 °C)

OPERATION

SYSTEM OPERATION

1. Fully extend the antennas and set them at an angle perpendicular to the floor to achieve the best RF reception.
2. Connect the AWR6112 receiver AC input to an AC power source via an AC cord.
3. Connect the AWR6112 receiver audio output to the microphone input of a mixer via a cable. (Note: There are two outputs: one unbalanced mixed output and one balanced mixed output.)
4. Place two rechargeable AA batteries into the battery housing of each of the AWX6112 microphones with the battery polarity oriented as indicated. If the batteries need to be recharged, insert the AWX6112 microphones (with the recharge contacts facing downwards) onto the recharge sockets on the AWR6112 receiver. (Note: Never recharge any battery that is not made to be rechargeable.) The recharge LED indicators will turn red when the batteries are being recharged. After the batteries are fully charged, the recharge LED indicators will turn green.
5. Turn on the power of the AWR6112 receiver. After the power of the AWR6112 is turned on, the fluorescence display will be turned on showing the volume control levels of channel 1 and channel 2.
6. Turn on the On/Off switch on each of the AWX6112 microphones. The low battery LED indicator will blink once and then stay off while the Normal Power LED indicator will then be turned on. If the low battery LED indicator stays on, recharge the rechargeable AA batteries in the AWX6112.
7. Once the AWX6112 microphones are turned on, the audio levels, channel numbers and the corresponding frequencies on the fluorescence display will be on to show the reception statuses.
8. Adjust the volume control knobs to have an optimal sound quality.

OPERATION SECTION:

1. The brand new rechargeable AA batteries for the handheld microphones need to be charged before use.
2. Connect the AWR6112 receiver AC cord to an AC power source. Make sure that the 120V/240V voltage selection switch under the AC input is set to the proper voltage. It should be set to 120V in North America.
3. Signal dropout or unexpected noise may be caused by a low battery or by an excessive distance between the microphone and the receiver. If you encounter signal dropout or unexpected noise, please check the batteries first. If batteries are still fresh, try to readjust the antennas on the AWR6112 receiver.
4. Place two rechargeable AA batteries into the battery housing of each of the AWX6112 microphones with the battery polarity orientations as indicated. The rechargeable batteries need to be recharged immediately if the red low-battery LED indicator on the AWX6112 is on. If the batteries need to be recharged, insert the AWX6112 microphones (with the recharge contacts facing downwards) onto the recharge sockets on the AWR6112 receiver. (**Note: Never recharge any battery that is not made to be**

rechargeable.) The recharge LED indicators on the AWR6112 receiver will turn red when the batteries in the AWX6112 are being recharged. After the batteries are fully recharged, the recharge LED indicators will turn green.

NOTE: Before recharging the batteries in the AWX6112 microphones, the power of the AWR6112 receiver needs to be **TURNED OFF**. If the power of the AWR6112 receiver is on, only **one** AWX6112 microphone is allowed to be in the recharge socket for the rechargeable batteries to be recharged. When the power of the AWR6112 receiver is **ON** and **both** AWX6112 microphones are in the recharge sockets, the batteries in both AWX6112 microphones will **NOT** be recharged.

5. Always turn off the microphones and remove the batteries if the microphones are not to be used for a period of time to prevent any of the microphones from being damaged by a leaking battery.
6. Avoid placing the receiver in a corner to prevent any RF reception deterioration.
7. Try to place the receiver as far away from any digital equipment, including computers and some CD players, as possible.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
No sound.	Receiver is off.	Turn on receiver.
	Transmitter power switch is off.	Turn on transmitter power switch.
	No battery or bad battery in transmitter.	Insert or replace battery.
	Wrong polarity or faulty battery contact	Correct polarity or battery contact.
	Receiver audio cable is missing or defective.	Connect, repair or replace cable.
Short range or signal dropouts.	Low transmitter battery level.	Replace transmitter batteries.
	Poor antenna reception.	Reposition antenna or receiver.
	Faulty transmitter antenna.	Return transmitter to factory or authorized service station for service.
	Too many obstacles between the receiver and transmitter.	Move the obstacles or move the receiver away from nearby metal objects.
Signal Interference.	Another wireless microphone operating on the same frequency.	Use a wireless microphone with different operating frequency.
	Placement too close to a digital signal processor or similar device (CD player, stage lighting, etc.).	1.Select another operating frequency. 2.Move receiver to another location.
	External electromagnetic field source.	1.Select another operating frequency. 2.Remove source of interference.
Distortion.	Low transmitter battery level.	Replace transmitter batteries.
	AF Level control on the transmitter set too high, overloading the receiver circuit.	Turn down the AF Level control on the transmitter.
	Volume control on the receiver set too high, overloading the subsequent sound device input.	Turn down the volume control on the receiver.
Momentary loss of sound when transmitter is moved around the performing area.	Radio frequency (RF) blind spots.	Reposition the receiver. If the momentary loss of sound problem cannot be removed, walk through the performing area and mark "Blind" spots. Avoid these "Blind" spots during performance.
Low sound level.	Faulty cable connection.	Check cable connection between the receiver and the subsequent sound device.
	Receiver volume control and/or transmitter AF level control set too low.	Turn up the receiver volume control and/or the transmitter AF level control.
Sound levels between two microphones are different.	The receiver volume control and/or the microphone AF Level control need to be adjusted.	1.Adjust the transmitter gain control as necessary. 2.Adjust the receiver volume control as necessary.

SERVICE INFORMATION

SHIPPING DAMAGE

If the shipping carton is found to be damaged, notify the delivery company immediately. Save the damaged carton as evidence for the delivery company to inspect. It is the responsibility of the consignee to file a claim with the delivery company for any damaged that occurs during shipping. In the case that the shipping carton is in good condition but the unit is damaged or defective, call **Audio2000'S®** at 800/661-8069 or 805/523-2759.

FACTORY SERVICE

If the equipment needs factory service, call **Audio2000'S®** at 800/661-8069 or 805/523-2759 for a Return Authorization number (RA number) and the address of the authorized service representatives. Insure and ship the product, prepaid, in its original carton along with proof of purchase in the form of a bill of sale or receipted invoice to the above address. Please clearly write the RA number on the shipping carton. Also enclose a note describing the problem along with any other helpful information such as where and how the unit was used.

LIMITED WARRANTY

H&F Technologies, Incorporated (H&F) hereby warrants that **Audio2000'S®** products will be free from defects in material and workmanship for a period of 1 (one) year from date of purchase. At its option, H&F will repair or replace the defective product and promptly return it to you.

The Limited Warranty will not cover any item that has been, in H&F's estimation, subject to alteration, misuse, neglect, accident or improper installation. In addition, any service not performed by H&F or an authorized service center will terminate terms of this warranty. Normal wear and tear of this product will not be covered by this or any implied warranty.

No liability will be accepted for damages/loss directly caused from the use of this product. H&F's liability shall be limited to the repair/replacement of this product if found to be defective.