



PROFESSIONAL UHF MOBILE WIRELESS SYSTEM

AWM6014U

OWNER'S MANUAL



AWX6014U



AWR6014U



AEM6014UH

Thank you for purchasing the Audio2000'S® Professional UHF mobile wireless system! To achieve maximum performance 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).

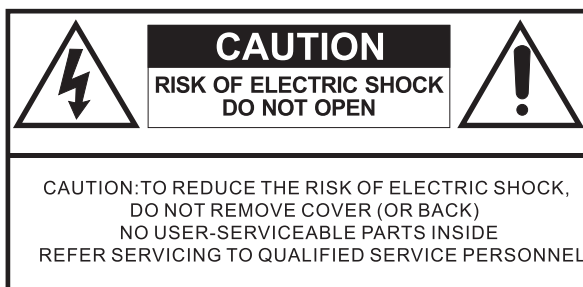
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IMPORTANT

For your protection, please read these instructions completely, and keep this manual for future reference. Carefully observe and comply with all warnings, cautions, and instructions placed on the equipment or described in the operations instructions to guard against injury.

WARNING AND SAFETY INSTRUCTIONS



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 persons.



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

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE
BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES
INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS
LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER
JUSQU'AU FOND.

WARNING AND SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 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) Water and Moisture--The appliance should not be used near water -- for example, near a bathtub, wash-bowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6) Carts and Stands--The appliance should be used only with a cart or stand that is recommended by the manufacturer.



- 7) An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 8) Wall or Ceiling Mounting--The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer
- 9) Ventilation--The appliance should be situated so that its location or position 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 openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 10) Heat--The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

- 11) 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.
- 12) Grounding or Polarization--The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.



AC 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 appliance.
- 14) Cleaning--The appliance should be cleaned only as recommended by the manufacturer.
- 15) Power Lines--An outdoor antenna should be located away from power lines.
- 16) Nonuse Periods--The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 17) Object and liquid Entry--Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 18) Damage Requiring Service--The appliance should be serviced by qualified service personnel when;
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has spilled 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.
- 19) 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.

FEATURES

- UHF-Band Frequencies
- Including One AEM6014U Headset Microphone, One AWX6014U Wireless Transmitter, and One AWR6014U Receiver
- One 3.5mm Mono Microphone Output on the AWR6014U
- One 3.5mm Mono Headphone Output on the AWR6014U
- Power ON/OFF Switch and Audio Level Control on the AWR6014U
- Power LED Indicator, AF LED Indicator, and RF LED Indicator on the AWR6014U
- One 3.5mm Microphone Input on the AWX6014U
- One Low Battery (LOW BATT) LED Indicator on the AWX6014U
- Omni-Directional Antenna on AWX6014U and AWR6014U
- Operating Range up to 100ft
- Both AWX6014U and AWR6014U Powered by Two AA Batteries (Not Included)

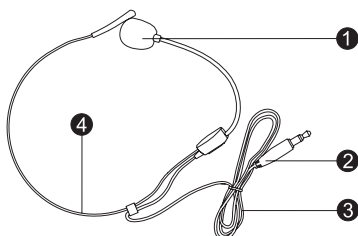
HANDLING PRECAUTIONS

Do not install the unit in following places:

- In a place which is exposed to direct sunlight or near a source of heat such as a radiator.
- In a place where the heat cannot escape due to poor ventilation, or where it is very humid or dusty.
- In an unstable place with excessive vibrations or sloping.
- In a place which may be exposed to rain, such as near a window.
- In a place which may be exposed to soot, vapor or heat, such as near a cooking stove.

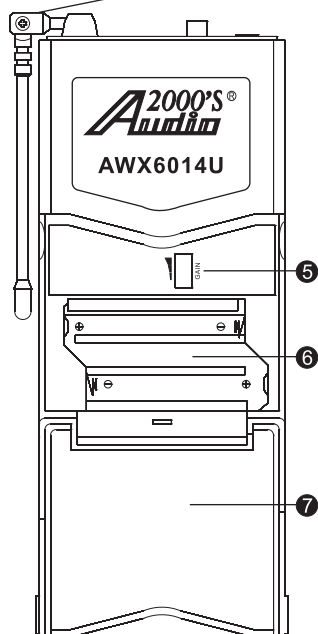
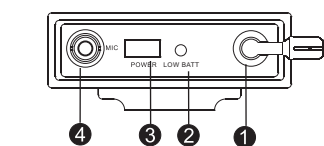
DESCRIPTIONS AND FUNCTIONS

HEADSET MICROPHONE



- ① Cartridge
- ② 3.5mm Plug
- ③ Cable (3ft)
- ④ Head-Band Support

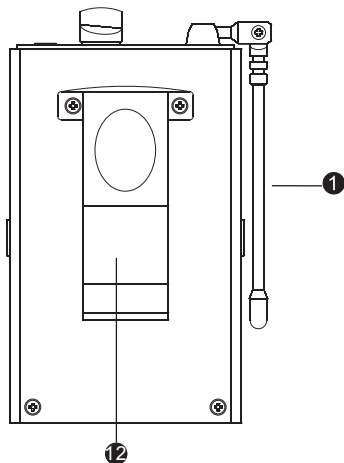
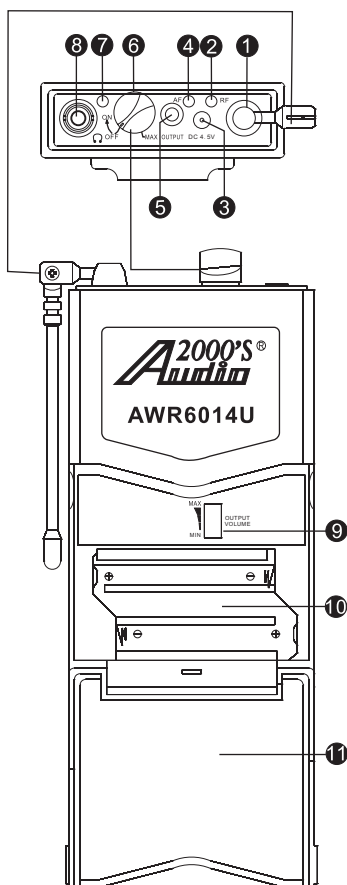
TRANSMITTER (BODY-PACK)



- ① Omni-Directional Antenna
- ② LOW BATT-Low Battery LED Indicator
- ③ Power ON/OFF Switch
- ④ MIC-Headset Microphone Input Jack
- ⑤ Audio Input Level Gain Control
- ⑥ Battery Compartment
- ⑦ Battery Cover
- ⑧ Belt-Pack Clip

DESCRIPTIONS AND FUNCTIONS

RECEIVER

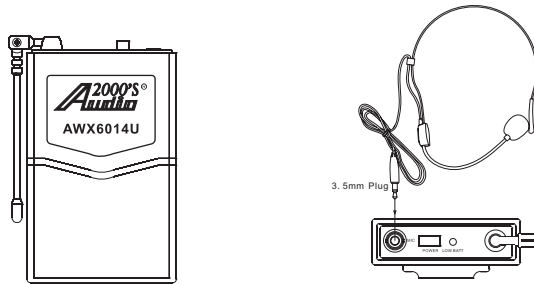


- ① Omni-Directional Antenna
- ② RF LED Indicator
- ③ DC 4.5V-DC 4.5V Input Jack
- ④ AF-Audio Signal LED Indicator
- ⑤ OUTPUT-Microphone Output Jack
- ⑥ Power On/Off Switch and Headphone Volume Control
- ⑦ Power LED Indicator
- ⑧ Headphone Output
- ⑨ Output Volume Control (for Microphone)
- ⑩ Battery Compartment
- ⑪ Battery Cover
- ⑫ Belt-Pack Clip

Basic Connections

1) Headset Microphone Connection

Connect the 3.5mm plug of the headset microphone to the MIC input jack on the AWR6014U transmitter.

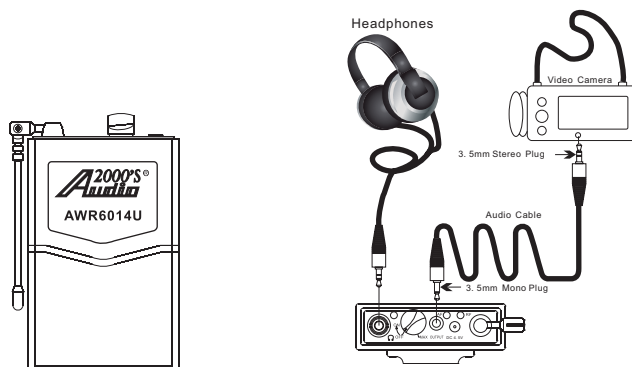


2) Headphone Connection

Connect the 3.5mm plug of the headphones to the Headphone Output jack on the AWR6014U receiver.

3) Output Connections

Connect the mono(TS) 3.5mm plug of the included audio cable to the microphone output jack on the AWR6014U receiver. Connect the stereo(TRS) 3.5mm plug of the included audio cable to the microphone input jack of a video camera or a video recording device.



GENERAL OPERATION

SYSTEM OPERATION

1. Fully extend the antennas on the AWX6014U transmitter and the AWR6014U receiver and set them at an angle perpendicular to the floor to achieve the best RF reception.
2. Install two AA batteries (not included) to the AWX6014U transmitter and the AWR6014U receiver respectively. Make sure that the polarities of the AA batteries are oriented as indicated in the battery compartment.
3. Connect monitor headphones (not included), if desired, to the headphone output on the AWR6014U receiver.
4. Connect the AWR6014U receiver microphone output to the microphone input of a video recording device via the included 3.5mm audio cable. (Refer to the "Output Connections" section on page 6 for the connection details.)
5. Turn on the On/Off switch on the AWX6014U. The red LOW BAT LED indicator On the AWX6014U will blink once.
6. Once the AWX6014U is turned on, the LOW BAT LED indicator will stay off until the battery level of the installed AA batteries is below a predetermined level. (The LOW BAT LED indicator will stay on only after the battery level of the installed AA batteries is below the predetermined level.)
7. Turn on the power of the AWR6014U receiver. After the power of the AWR6014U receiver is turned on, the power LED indicator will be turned on.
8. The RF LED indicator will be on as long as the AWX6014U is on. The AF LED indicator light will be on in responding to the audio signal from the AWX6014U.
9. Adjust the audio level control knob to have an optimal sound quality.

OPERATION NOTES

1. The wireless transmitter and the receiver need to be turned off before changing the batteries.
2. Any signal dropout or unexpected noise may be caused by low batteries or by an excessive distance between the wireless transmitter and the receiver. If you encounter any signal dropout or unexpected noise, please check the batteries first. If the batteries are still fresh, try to readjust the antenna on the AWX6014U transmitter and receiver.
3. Do not drop the wireless transmitter or the receiver on the floor or strike the wireless transmitter or receiver with any object.
4. Always turn off the wireless transmitter and receiver and remove the batteries if the wireless transmitter and receiver are not to be used for an extended period of time to prevent the wireless transmitter and receiver from being damaged by leaking batteries.
5. Avoid placing the receiver in a corner to prevent any RF reception deterioration.
6. Try to place the receiver as far away from any digital equipment, including computers and some CD players, as possible.

SAFETY PRECAUTIONS

In case of abnormality



In case an abnormal noise or smell is generated from the unit during use, immediately switch the power off, unplug the AC/DC adaptor from the power outlet, and consult your dealer or an authorized service center for a check-up.

Do not damage the AC/DC adaptor



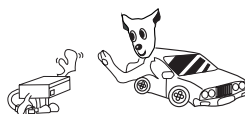
Hold the adaptor when plugging or unplugging the AC/DC adaptor. Do not pull the cord or touch it with wet hands, for this may cause short-circuit or electric hazard. Do not leave the cord under this unit, or under furniture, or between objects. Also do not tie the cord with another cord, make a knot on the cord, or leave it in a place where people walk frequently.

Do not open the unit



High-voltage components are used inside the unit. Do not open the cabinet to check or modify the unit, for this will cause the danger of electric shock. Performance degradation or malfunction due to the user modification will not be covered by the warranty.

When the unit is not to be used for a long period



When you will be away from home for a long period of time, for example before going on a trip, set the power switch to off and unplug the AC/DC adaptor from the power outlet for safety. This will prevent fire hazard due to unexpected accidents with the unit.

Keep away from water and foreign objects



Do not insert or drop metallic objects, such as a hairpin, nail and coin, or flammable objects, such as matches, on the recharge socket, for this will cause malfunction or hazard of fire and electric shock. In case water or a foreign object enters inside the recharge socket or the unit, consult an authorized service center or your dealer for a check-up.

TROUBLESHOOTING

MAINTENANCE

When the set gets dirty, wipe with a soft, dry cloth. If the set is extremely dirty, soak a soft cloth in a 5 to 6% solution of dishwashing detergent to water, wring it tightly, wipe the dirt away, and finally wipe the set with a dry cloth.

Never use alcohol, thinner, benzine, insecticide or other volatile agents, as they may damage the surface paint or gloss of the set.

Also do not wipe the set with a chemical cloth or leave it on the set for a long period, as the surface finish may be damaged or the paint may be stripped off.

TROUBLESHOOTING

Should problems occur, they are, in many cases, due to simple operation mistakes or the like. On the basis of the following checks, you will be able to rectify a number of problems yourself without difficulty.

If the problem cannot be remedied after the following checks, please consult your dealer.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
No sound	The receiver power is off.	Turn on the receiver power.
	The transmitter power switch is off.	Turn on the 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.
	The receiver audio cable is missing or defective.	Connect, repair or replace the audio 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 the 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 a 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 the receiver to another location.
	External electromagnetic field source.	1. Select another operating frequency. 2. Remove the source of interference.
Distortion	Low transmitter battery level.	Replace transmitter batteries.
	The AF level control on the transmitter is set too high, overloading the receiver circuit.	Turn down the AF level control on the transmitter.
	The volume control on the receiver is 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 the performance.
Low sound level	A faulty cable connection.	Check the cable connection between the receiver and the subsequent sound device.
	The receiver volume control is set too low.	Turn up the receiver volume control.
Sound levels between two microphones are different	The receiver volume controls need to be adjusted.	Adjust the receiver volume control as necessary.

SPECIFICATIONS

AWR6014U TRANSMITTER

Carrier Frequency Range.....	UHF Band
Frequency Stability.....	$\pm 0.005\%$
Modulation.....	Frequency Modulation (FM)
Modulation Depth	$\pm 48\text{KHz}$
RF Power Output	-3.0dbm
Battery	2 * AA Batteries
Current Consumption.....	80 mA

AWR6014U RECEIVER

Carrier Frequency Range	UHF Band
Frequency Stability	$\pm 0.005\%$
Receiving Sensitivity	50 dB S/N ratio(10dBu)
S/N Ratio	100dB
T.H.D.	< 1%
Power.....	2 * AA Batteries or DC 4.5V

Dimensions (L X W X H)66MM X 112MM X 25MM

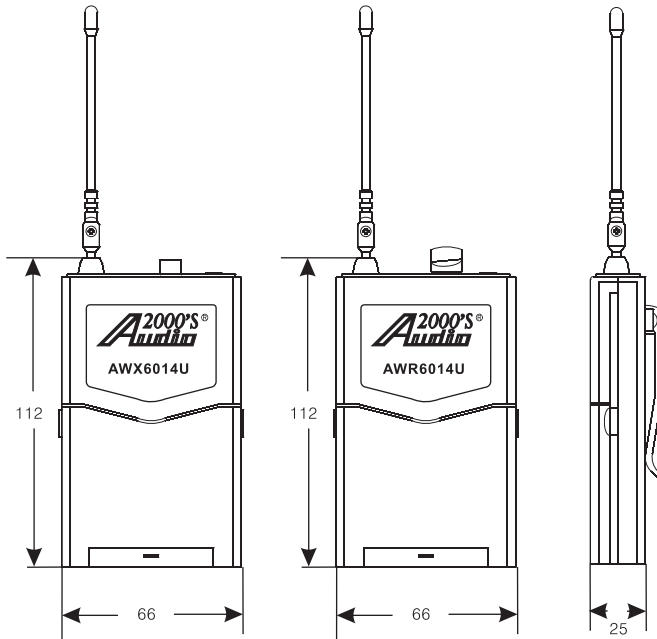
AWR6014U SYSTEM

Carrier Frequency Range	UHF Band
Frequency Stability	± 0.005%
Audio Frequency Response.....	50-16K Hz
Image and Spurious Rejection.....	45dB Minimum
S/N Ratio	> 80dB
Max. SPL	>100dB
T.H.D	< 5%
Service Area	100 ft. (30 M)
Operation Temperature	(14°F-122°F)

ACCESSORIES

AWR6014U Transmitter.....	1
AWR6014U Receiver.....	1
One Cable (3.5mm Stereo-3.5mm Mono).....	1
OWNER'S MANUAL	1
Headset Microphone.....	1
Lanyards	2

Dimensions



SERVICE INFORMATION

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 805-523-2759.

FACTORY SERVICE

If the equipment needs factory service, call **Audio2000'S®** at 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.

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