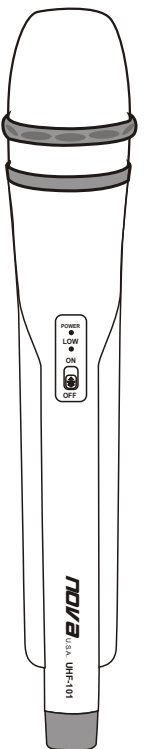


Handbuch User Manual

NOVA U.S.A.



UHF-101

Wireless Microphone System

CAUTIONS AND WARNINGS

**CAUTION****RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.



The lightning flash & arrowhead symbol within an equilateral triangle is intended to alert you to the presence of danger.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

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. Attachments - Do not use attachments not recommended by the product manufacturer as they may be dangerous.

6. Water and Moisture - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7.A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.



8. Ventilation - The appliance should be situated so its location 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 slots.

9. Heat - The appliance should be situated away from heat sources such as radiator, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources - Precautions should be taken so that the grounding or polarization marked on the appliance are followed.

11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of the appliance is not defeated.

12. 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. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp or dry cloth for cleaning.

14. Power Lines - An outdoor antenna should be located away from power lines.

15. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into enclosure through openings.

17. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- A.** The power supply cord or plug has been damaged; or
- B.** Objects have fallen 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.

18. 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.

NOTE:

To CATV system installer's (U.S.A.):

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

SAFETY INSTRUCTIONS

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by CRAFT AUDIO GmbH may void your authority, granted by the FCC, to use this product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable (s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the U.S.A..

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronics devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local distributor authorized to distribute CRAFT AUDIO GmbH products.

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent fire or electrical shock, do not expose to rain or water.

3. Do not operate the unit upside-down.

4. Never open the cabinet. If a foreign object drops into the set, contact your dealer.

5. Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.

6. Do not use force on switches, knobs or cords. When moving the unit, turn the unit off first. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.

7. Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a damp or dry but clean cloth with unit unplugged.

8. Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

9. This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

10. To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.

11. The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

CAUTION

The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully insure that the apparatus is indeed fully void of residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

NOTE:

Please check the copyright laws in your country before recording from records, compact discs, radio etc.
Recording of copyrighted material may infringe copyright laws.

UHF-101

Wireless Microphone System

NOVA U.S.A. UHF-101 microphone system offers the highest level of reliability and performance for all wireless microphone applications. Featuring a premium ultra-high frequency transmission, both the receiving unit and the handheld MIC transmitter can be individually set for its different frequencies ending the difficulty and worry of matching replacement and additional system components with preset frequencies.

Utilizing Phase-Locked Loop(PLL) technology, the UHF-101 maintains the appropriate frequency relative to the reference signal of the transmitter and ensures a stronger connection, complete with a cardioid, dynamic MIC transmitter the system delivers an 120 degree off axis pattern, superior noise absorption and unsurpassed gain-before-feedback.

Designed with a roaming range of over 300 ft, tone-squelch control, a high signal-to-noise ratio and wide frequency response, NOVA U.S.A. UHF-101 provides an elevated valued solution for even the most demanding applications.

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INTRODUCTION

The UHF-101 is a 16 channel PLL wireless system, it provides 16 custom selectable channels with easy and simple operation. It is the finest in its class. This system will give you excellent performance for years to come.

System Contents

The UHF-101 Wireless System contains the following components:

- Single channel wireless receiver
- Single wireless transmitter.
- Adapter
- Audio cable

DESCRIPTION

Wireless Receiver (Figure 1)

- 1.Power Switch
2. AF Signal Indicator
- 3.RF Indicator
- 4.Group Indicator
- 5.Frequency Indicator
- 6.RF Diversity Indicator
- 7.Rotate Frequency Selector
- 8.Volume
9. Telescoping Antennas. Receive signal from the transmitters
- 10.Independent Audio Output Connectors
- 11.Balanced Output XLR Connectors
- 12.Squelch Adjustment
- 13.Power Input Connectors. Connect to a 110V AC or 220V AC power adapter

UHF-101

Wireless Microphone System

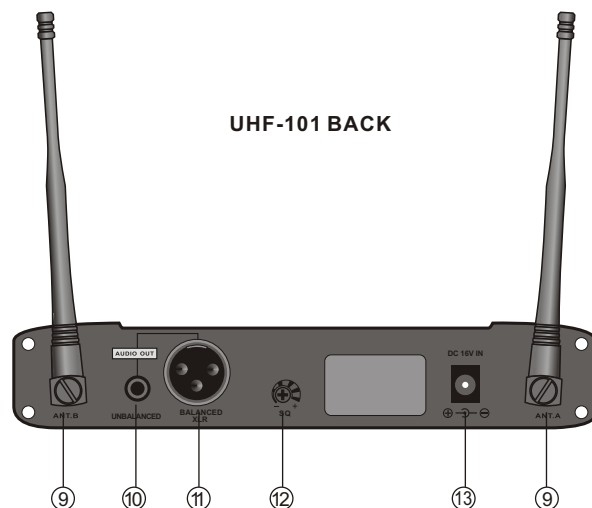


Figure 1

Handheld Microphone Transmitter (Figure 2)

1. Power ON/OFF Switch.

When this red light is glowing, you have 20 minutes or less of useful operating time; change the battery.

2. Power and battery Indicator.

3. 2 AA Alkaline Batteries Provide power to the microphone transmitter. Typical battery life is 8 hours.

4. Battery Cover. Take off the battery cover to insert two 1.5V alkaline batteries.

5. Rotate Frequency Selector. Select the frequency by rotating the frequency selector.

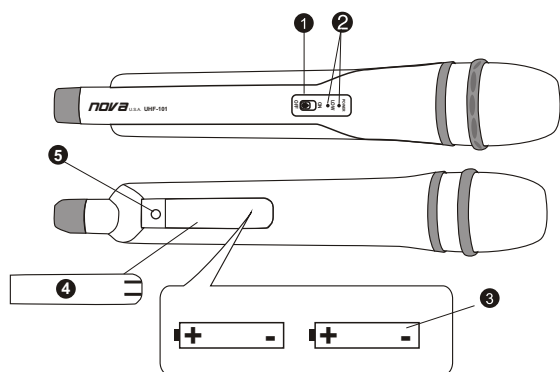


FIGURE 2

UHF-101

Wireless Microphone System

USING THE WIRELESS RECEIVER

Connecting the Wireless Receiver

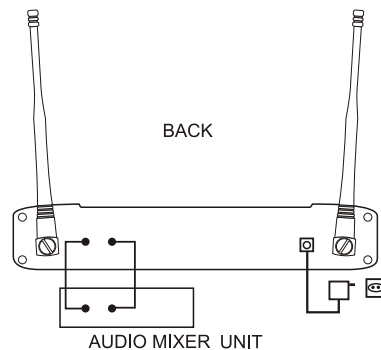


FIGURE 4

1. Connect the receiver output to the Audio Mixer unit using unbalanced, single-conductor, shielded cables with 1/4-inch phone plugs/or balanced XLR.
2. Connect the AC adapter to the POWER jack on the rear panel of the receiver.
3. Plug the AC adapter into an appropriate power outlet.

USING THE HANDHELD MICROPHONE TRANSMITTERS

Operating the Hand Microphone Transmitters (Figure 5)

1. Press the Power ON/OFF switch on the receiver to the ON position. Select the Frequency you want by rotating the Frequency Selector of the receiver.
2. Select the same frequency as receiver by rotating the Frequency Selector of the transmitter. Slide the transmitter POWER ON/OFF switch to the ON position. Check the battery level. If the LOW BATTERY indicator is lit, see Transmitter Battery Installation.
3. Check the RF indicator on the receiver to see if the radio signal is being received.
4. If the RF light is shown, begin speaking or singing.
5. During the performance or presentation, you can still change the frequency. First, you should reselect the frequency from the receiver; Second, you must slide the handheld POWER ON/OFF to OFF position and select the frequency as the same as receiver, then slide the handheld POWER ON/OFF to ON position; Third, wait about 5 seconds, when the receiver will indicate the RF signal, you can begin speaking or singing.
6. When the performance or presentation is over, slide the transmitter Power ON/OFF switch to the OFF position to conserve battery power.

IMPORTANT : Because this UHF-101 is a PLL wireless system, when you turn on this system, the receiver needs 5 seconds to source the partnership to the transmitter.

Transmitter Battery Installation

1. Slide the transmitter Power ON/OFF switch to the OFF position.
2. Take off the transmitter battery cover to expose the battery terminals, as shown in Figure 6.

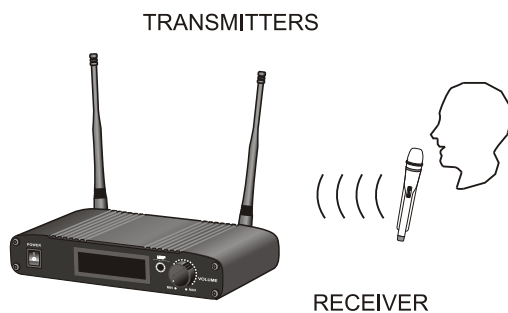


FIGURE 5

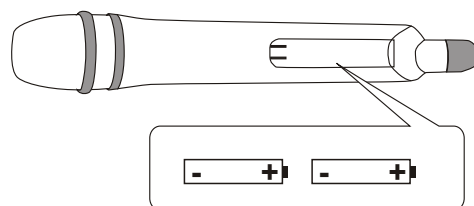


FIGURE 6

UHF-101

Wireless Microphone System

3. Insert two 1.5VAA alkaline batteries into the battery compartment as shown in Figure 6. Two fresh 1.5V alkaline batteries should typically provide 8 hours of performance time. Two fully charged 1.2V Nicad batteries (1800 mA) should provide 12 hours of performance time. When the LOW BATTERY light on the transmitter turns on, you have 20 minutes or less of useful battery life remaining. Change the battery at your first opportunity.

IMPORTANT: Carbon-zinc and zinc-chloride will not provide adequate power and are not recommended.

4. Replace the battery cover.

TIPS AND TROUBLESHOOTING

Tips for getting the best performance

- Maintain a line-of-sight between the transmitter and receiver antennas.
- Keep the receiver and antennas away from large metal objects.
- Avoid placing the receiver near computers or other RF generating equipment.
- Point the receiver antennas straight up.
- Avoid placing the receiver in the bottom of an equipment rack unless the antennas are remotely located.

Troubleshooting

Some common problems and their solutions are identified in the table below. If you are unable to solve a problem, contact your dealer.

Problem	Solution
No sound; RF light(S) not glowing.	• Make sure the transmitter POWER switch is ON and the receiver is plugged into a power source. • Check battery. • Check receiver squelch setting. • Check receiver antenna connection(s). • Make sure antennas are in line of sight of transmitter.
No sound; RF lights glowing.	• Turn up receiver audio VOLUME control. • Check for proper connection between receiver and Audio mixer unit.
Received signal is noisy or contains extraneous sounds with transmitter on.	• Check battery. • Remove local sources of RF interference. • If using a guitar or other instrument, check connections. Two transmitters may be operating on the same frequency. Locate and turn one off. • Signal may be too weak. Reposition antennas. If possible, move them closer to transmitter.
Noise from receiver with transmitter off.	• Adjust receiver squelch control. • Remove local sources or RF interference. • Reposition receiver or antennas.
Momentary loss of sound as transmitter is moved around performing area.	• Reposition receiver and perform another "walkthrough" test and observe the RF indicators. If audio dropouts persist, mark these "dead spots" in performing area and avoid them during performance.

UHF-101

Wireless Microphone System

SPECIFICATIONS AND INFORMATION

Specifications

RF Carrier Frequency Range

863 - 865 MHz

Working Range

100m(approximately 300ft)under typical conditions.

Audio Frequency Response

60 to 21,000Hz, -3dB.

Audio Output Level(+ -20KHz deviation, 1 KHz tone)

1/4-inch connector(into 3k load):-8.8dBV(Hi Z)

XLR connector

RF Sensitivity

-107 dBm,typical

System Distortion(ref,+15KHz deviation,1KHz modulation)

0.4%.

Power Requirements

Handheld and lavalier:

Two 1.5V alkaline batteries. Two 1.2 V Nicad (rechargeable) are strongly recommended.

Current Drain

Transmitter: 110mA average (140mA max)

Receiver: 230mA average (300mA max)

Operating Temperature Range

-20° to 50°C (-4° to 122°F). **NOTE:** Battery characteristics may limit this range.



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