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› XIAOKOA N90 UHF Wireless Instrument Microphone User Manual

## XIAOKOA N90

# XIAOKOA N90 UHF Wireless Instrument Microphone User Manual

Model: N90

## INTRODUCTION

Thank you for choosing the XIAOKOA N90 UHF Wireless Instrument Microphone. This manual provides detailed instructions for the proper setup, operation, and maintenance of your device. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.

## PRODUCT OVERVIEW

### Key Features

- **UHF Wireless Technology:** Utilizes the latest UHF wireless technology for stable signal transmission with no noticeable delay. Offers an open-field transmission distance of up to 50 meters. Designed with anti-interference capabilities, allowing multiple microphone sets to operate simultaneously without signal conflict.
- **LED Digital Display:** Features an integrated LED digital screen on the instrument microphone for clear visualization of current frequency, battery level, and volume settings.
- **High-Sensitivity Condenser Microphone:** Equipped with a built-in high-sensitivity condenser microphone that accurately captures the instrument's sound, ensuring clear and realistic audio reproduction.
- **360-Degree Rotatable Clip:** The microphone includes a 360-degree rotatable clip for easy and secure attachment to various musical instruments. The silicone shock-proof design of the clip effectively minimizes noise caused by instrument vibrations.
- **Wide Compatibility:** Compatible with a broad range of audio equipment including amplifiers and speaker systems. Suitable for various applications such as concerts, band performances, individual practice, and group rehearsals. Designed for brass instruments like trumpet, tuba, horn, trombone, saxophone, and clarinet.
- **Fast USB Charging:** Features a built-in 400mAh rechargeable battery. A full charge takes approximately 2 hours and provides 5-6 hours of continuous use. A red indicator light illuminates during charging and turns off once charging is complete.

## Components

The XIAOKOA N90 system includes the following components:

- UHF Wireless Transmitter (with integrated microphone and clip)
- UHF Wireless Receiver
- 6.35mm Jack Adapter
- USB Charging Cable (Type-C)
- User Manual (this document)



*Image: Overview of the XIAOKOA N90 wireless instrument microphone system, showing the transmitter with its flexible gooseneck microphone and clip, and the compact receiver.*

## SETUP INSTRUCTIONS

### 1. Charging the Devices

Before initial use, ensure both the transmitter and receiver are fully charged.

1. Connect the provided USB charging cable to the charging ports on both the transmitter and receiver.
2. Plug the other end of the USB cable into a standard USB power adapter (not included) or a computer's USB port.

3. A red indicator light will illuminate on each device during charging.
4. Charging typically takes about 2 hours. The red light will turn off once the devices are fully charged.



*Image: The USB charging cable (Type-C) and the 6.35mm jack adapter, essential accessories for the microphone system.*

## **2. Attaching the Transmitter to an Instrument**

The transmitter features a 360-degree rotatable clip for secure attachment.

1. Open the retaining clip on the transmitter.
2. Carefully attach the clip to the bell or a suitable part of your instrument (e.g., saxophone bell, trumpet mouth). The silicone padding on the clip protects the instrument's finish.
3. Adjust the gooseneck microphone so that the microphone head is positioned within 10cm (approximately 4 inches) of the instrument's sound source and at an angle of 45 degrees or less relative to the instrument's opening. This optimal placement ensures clear sound capture and minimizes feedback.

# Installation method of transmitter

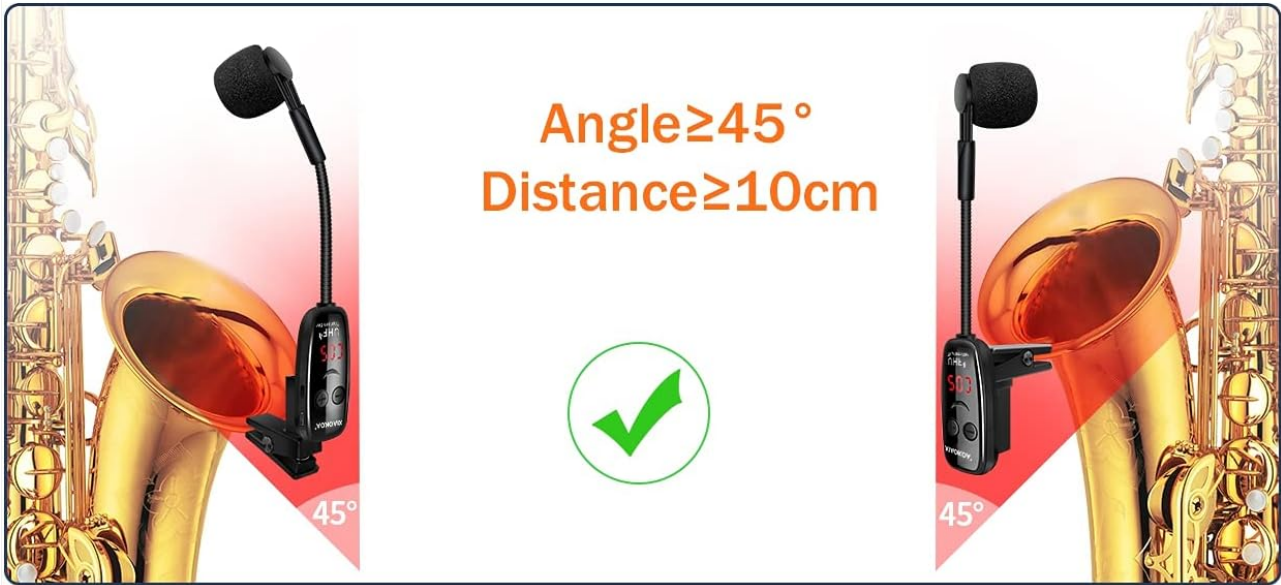


Image: Illustration showing the correct installation method for the transmitter on a saxophone, emphasizing the optimal angle ( $\leq 45^\circ$ ) and distance ( $\leq 10\text{cm}$ ) for the microphone head. An incorrect installation example is also shown.



### Damping Spring Condenser Mic

Microphone with shock absorber spring, accurate sound pickup, and effectively reduce noise and echo.

### Retaining clip

Fix transmitter on saxophone's trumpet mouth, Using high-quality materials, non-slip, and well protect the instrument from damage

*Image: Detailed view of the damping spring condenser microphone and the retaining clip, highlighting their design for accurate sound pickup and secure attachment.*

## 3. Connecting the Receiver

The receiver can be connected to various audio input devices.

1. Identify the audio input port on your amplifier, speaker system, mixer, or other compatible device. This is typically a 3.5mm or 6.35mm (1/4 inch) jack.
2. If your device has a 3.5mm input, plug the receiver directly into it.
3. If your device has a 6.35mm input, attach the provided 6.35mm adapter to the receiver's 3.5mm jack, then plug the adapter into your device's input.
4. Ensure the receiver is securely connected.

# Applicable Equipment

(not compatible with bluetooth speaker)



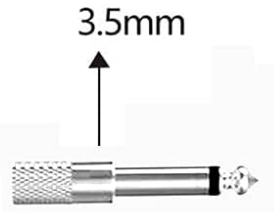
Trolley speaker



Outdoor Speaker



Power Amplifier Device



Voice Amplifier



Multimedia classroom speakers



Bus Speaker

Image: Diagram illustrating various compatible audio equipment such as trolley speakers, outdoor speakers, voice amplifiers, bus speakers, multimedia classroom speakers, and power amplifier devices, showing connections via 3.5mm or 6.35mm jacks. Note: Not compatible with Bluetooth speakers.



Image: Shows the wireless transmission range of 50 meters (160 feet) and the receiver connected to an audio input, along with the 6.35mm adapter.

## OPERATING INSTRUCTIONS

### 1. Powering On/Off

- To power on the transmitter and receiver, press and hold their respective power buttons until the LED display or indicator light turns on.
- To power off, press and hold the power buttons again until the display/light turns off.

### 2. Pairing (Automatic)

The transmitter and receiver are designed to pair automatically upon power-on. If they do not connect, ensure they are within range and try restarting both devices.

### 3. Adjusting Settings (Transmitter)

The transmitter's LED digital display shows important operational information.

# Digital screen display introduction

It will be displayed the frequency/battery status and volume.

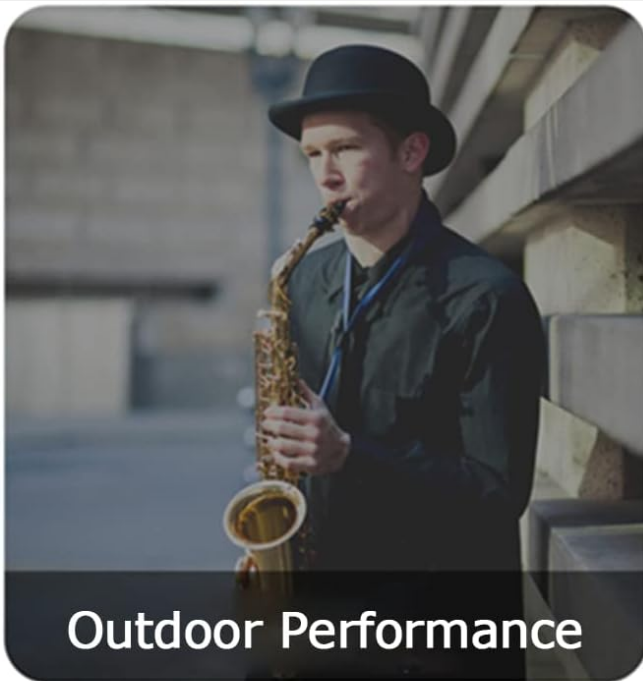


Image: Explains the digital screen display on the transmitter, showing indicators for Volume (levels 008-011), Frequency, and Battery Status.

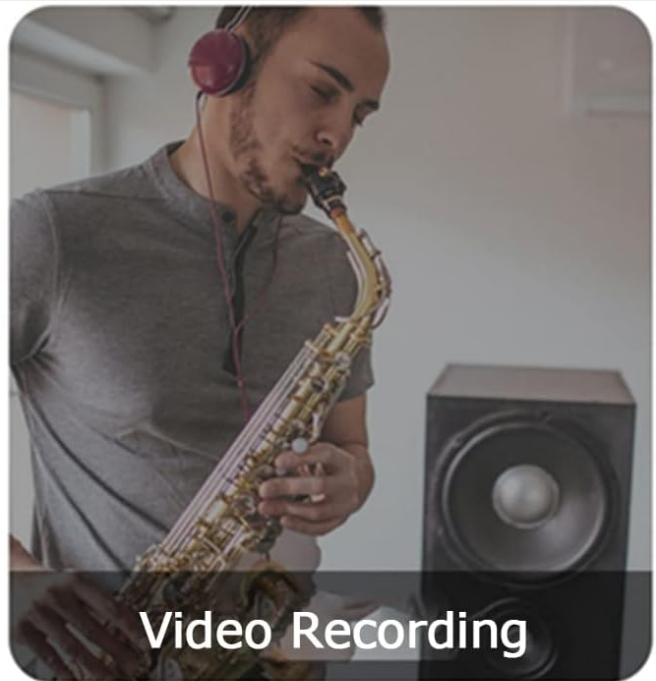
- **Frequency:** The display shows the current operating frequency. The system automatically selects an optimal frequency. If interference occurs, you may be able to manually change the frequency by pressing specific buttons (refer to device markings for +/- buttons).
- **Battery Status:** The display indicates the remaining battery level. Charge the device when the battery icon is low.
- **Volume:** The transmitter has adjustable volume levels (e.g., 008-011). Use the '+' and '-' buttons on the transmitter to adjust the input volume. Start with a moderate volume and adjust as needed to avoid distortion.

## 4. Usage Scenarios

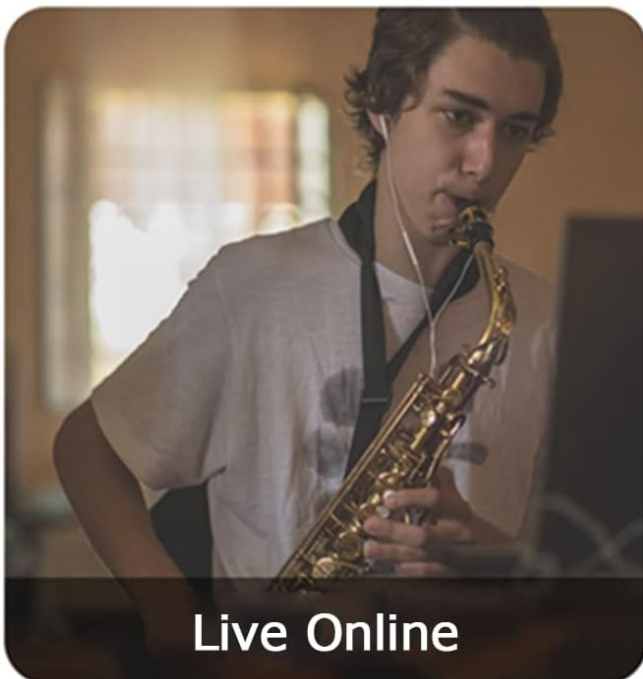
The XIAOKOA N90 is versatile for various musical and performance settings.



Outdoor Performance



Video Recording



Live Online



Teaching Course

*Image: Depicts various usage scenarios for the wireless microphone, including outdoor performances, video recording, live online streaming, and teaching courses.*

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter and receiver. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the microphone system in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the devices frequently. If storing for an extended period, charge the batteries to about 50% every few months.
- **Microphone Head:** Keep the microphone head clean and free from dust or debris. Avoid touching the microphone capsule directly.

## TROUBLESHOOTING

## No Sound or Weak Sound

- **Check Power:** Ensure both the transmitter and receiver are powered on and fully charged.
- **Check Connection:** Verify that the receiver is securely plugged into the audio input of your amplifier or speaker. Ensure the 6.35mm adapter (if used) is properly attached.
- **Volume Levels:** Adjust the volume on both the transmitter and your connected audio device.
- **Microphone Placement:** Ensure the microphone head is correctly positioned near the instrument's sound source (within 10cm, angle  $\leq 45^\circ$ ).
- **Pairing:** If the devices are not paired, power them off and on again to re-establish the connection.

## Interference or Static Noise

- **Distance:** Ensure the transmitter and receiver are within the 50-meter operating range.
- **Obstacles:** Minimize physical obstructions (walls, large metal objects) between the transmitter and receiver.
- **Other Wireless Devices:** Move away from other strong wireless signals (Wi-Fi routers, other UHF devices) that might cause interference.
- **Change Frequency:** If available, try changing the operating frequency on the transmitter to an alternative channel.

## Short Battery Life

- **Full Charge:** Ensure devices are fully charged for the recommended 2 hours.
- **Battery Age:** Over time, rechargeable batteries may degrade. If battery life significantly decreases, consider contacting customer support.

## SPECIFICATIONS

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<b>Model Number</b>	N90
<b>Brand</b>	XIAOKOA
<b>Connectivity Technology</b>	UHF Wireless
<b>Connector Type</b>	3.5mm Jack, 6.35mm Jack (with adapter)
<b>Special Feature</b>	Instrument Clip
<b>Compatible Devices</b>	Amplifiers, Speaker Systems
<b>Included Components</b>	Wireless Transmitter, Wireless Receiver, 6.35mm Adapter, USB Charging Cable
<b>Audio Sensitivity</b>	58 Decibels
<b>Item Weight</b>	140 Grams
<b>Power Source</b>	Battery Powered
<b>Battery Type</b>	1 Lithium-polymer (built-in 400mAh)
<b>Charging Time</b>	Approx. 2 hours
<b>Operating Time</b>	5-6 hours
<b>Signal-to-Noise Ratio</b>	80 dB
<b>Number of Channels</b>	1
<b>Internal Material</b>	Silicone (for clip padding)
<b>Manufacturer</b>	XIAOKOA

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or contact XIAOKOA customer service directly. Details regarding specific warranty periods and support channels are typically provided with your purchase documentation.

Please retain your proof of purchase for any warranty claims.