

## Nady U-2100

# Nady U-2100 Dual GT 200-Channel UHF Wireless Instrument/Guitar System Instruction Manual

Model: U-2100

## INTRODUCTION

The Nady U-2100 Dual GT 200-Channel UHF Wireless Instrument/Guitar System provides clear, transparent audio with full frequency response and a 120dB dynamic range. Designed for instrument-level signals, this system offers reliable wireless operation up to 500 feet line-of-sight. It features sophisticated IF filtering for optimal simultaneous operation of multiple systems and an easy-to-use ASC download function for infrared (IR) channel synchronization.

This manual provides detailed instructions for setting up, operating, and maintaining your Nady U-2100 wireless system. Please read it carefully before use to ensure optimal performance and longevity of your equipment.

## PACKAGE CONTENTS

Your Nady U-2100 Dual GT system includes the following components:

- 1 x U-2100 Wireless Receiver
- 2 x U-1100GT Bodypack Transmitters
- 2 x 1/4-inch-to-3.5mm Locking Connector Instrument Cables
- 2 x Removable Swivel BNC Antennas
- 1 x AC Power Adapter (13.5VDC/0.4A)
- 1 x Instruction Manual



Image: The Nady U-2100 Dual GT Wireless Instrument/Guitar System, showing the main receiver unit with two antennas and two U-1100GT bodypack transmitters with instrument cables.

## COMPONENTS OVERVIEW

### U-2100 Wireless Receiver

The U-2100 receiver is the central unit of your wireless system. It features a rugged ABS housing for durability.

- **Front Panel:** Includes a large LCD display showing frequency, channel, RF/AF bar graphs for both channels (A and B), menu control buttons (SET A, SET B, Up, Down), and individual volume control knobs (VOL A, VOL B) for each wireless channel. A power button is also present.
- **Rear Panel:** Features two BNC antenna inputs (ANT.A, ANT.B), two balanced XLR microphone level outputs (BALANCED A, BALANCED B) for each channel, a 1/4-inch summed line audio output (SUM), two squelch adjustment knobs, and a power input jack (12-18VDC/150mA).

### U-1100GT Bodypack Transmitters

The U-1100GT bodypack transmitters are compact units designed for instrument use. They feature a metal belt clip for secure attachment.

- **Front:** An LCD display shows frequency, channel, and battery level. An infrared (IR) window is located below the display for syncing with the receiver.
- **Top:** Includes an external attached antenna, an ON/MUTE/OFF switch, and a 3.5mm locking mini-jack input connector for your instrument cable.
- **Battery Compartment:** Houses two AA alkaline or NiMH batteries, providing 8-10 hours of typical operation. The frequency band label is also located here.

### Antennas

Two removable swivel BNC antennas are included to enhance the operating range and performance of your wireless system. These attach to the rear panel of the receiver.

### Instrument Cables

Two 1/4-inch-to-3.5mm locking connector cables are provided to connect your instruments (e.g., guitar, bass) to the U-1100GT bodypack transmitters.

## SETUP

Follow these steps to set up your Nady U-2100 wireless system:

1. **Install Antennas:** Screw the two removable swivel BNC antennas onto the ANT.A and ANT.B connectors on the rear panel of the U-2100 receiver.
2. **Connect Power:** Plug the AC power adapter into the 12-18VDC/150mA power input jack on the rear panel of the receiver, then plug the adapter into a suitable wall outlet or power strip.
3. **Connect Receiver Output:** Connect the 1/4-inch SUM output from the receiver to your mixer or recording interface. Alternatively, use the individual balanced XLR outputs (BALANCED A, BALANCED B) for separate channel outputs.
4. **Install Batteries in Transmitters:** Open the battery compartment of each U-1100GT bodypack transmitter and insert two fresh AA batteries, observing correct polarity.
5. **Connect Instrument to Bodypack:** Plug one end of the 1/4-inch-to-3.5mm locking instrument cable into your instrument and the 3.5mm locking end into the input jack on the top of the U-1100GT bodypack transmitter.
6. **Power On Receiver:** Press and hold the POWER button on the front panel of the U-2100 receiver for one second to turn it on.
7. **Power On Transmitters:** Slide the ON/MUTE/OFF switch on each U-1100GT bodypack transmitter to the 'ON' position.

For a visual guide on unboxing and initial setup, please refer to the video below. Note that the video may show different transmitter types (handheld or lapel microphones) than your instrument-specific bodypacks, but the receiver setup and syncing process remain similar.

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*Video: Unboxing and Setup Guide for Nady U-2100 Wireless System. This video demonstrates the general setup process, including power connection, antenna installation, and transmitter syncing. While it may feature different transmitter types, the core steps for the receiver and syncing are applicable.*

## OPERATING INSTRUCTIONS

### Channel Scan and Synchronization

To ensure interference-free operation, it is recommended to perform a channel scan and synchronize your transmitters with the receiver.

1. **Initiate Channel Scan (Receiver):** On the U-2100 receiver, press the 'Up' arrow button above 'SET A' for approximately one second to initiate an automatic channel scan for Channel A. The display will show an animated icon during the scan and then settle on the best available channel number. Repeat this process for Channel B by pressing the 'Up' arrow button above 'SET B'.
2. **Sync Transmitter (IR Sync):** Once a channel is selected on the receiver, turn on the corresponding U-1100GT bodypack transmitter. Press the 'Down' arrow button above 'SET A' (or 'SET B') on the receiver to activate the IR search. 'IR' should appear on the receiver's display.
3. **Align IR Windows:** Align the IR window of the bodypack transmitter with the IR window on the receiver's front panel. Hold them close together until the channel number on the transmitter's LCD display matches the receiver's selected channel. This process typically takes a few seconds.
4. **Test Signal:** After synchronization, test your signal by playing your instrument. Observe the RF/AF bar graphs on the receiver's display to confirm signal reception and audio levels. Perform a sound check through your amplifier or speaker system.

## Volume and Squelch Adjustment

- **Volume Control:** Use the 'VOL A' and 'VOL B' knobs on the receiver's front panel to adjust the output volume for each channel independently.
- **Squelch Adjustment:** The squelch control knobs on the rear panel allow you to adjust the receiver's sensitivity to incoming signals. If you experience unwanted noise or interference when the transmitter is off or out of range, slowly turn the squelch knob clockwise until the noise disappears. Do not set the squelch too high, as this may reduce the system's operating range.

## SPECIFICATIONS

### Overall System Performance

- **Frequency Response:** 50Hz~18kHz  $\pm$ 3dB
- **Dynamic Range:** 120dB
- **Harmonic Distortion:** <0.5%
- **Operating Range:** 150-250 feet typical, 500 feet max line-of-sight
- **Number of Channels:** 2 (Dual)
- **Selectable Frequencies:** 100 per transmitter (200 total)

### U-2100 Receiver

- **Output Impedance:** 1k $\Omega$  (unbalanced), 600 $\Omega$  (balanced)
- **Audio Outputs:** Adjustable unbalanced summed line audio output (1/4-inch jack); fixed balanced microphone level audio output (XLR)
- **Power Requirement:** 13.5VDC/0.4A
- **Antennas:** Removable swivel BNC
- **Dimensions:** 14 x 12 x 3 inches
- **Item Weight:** 1.22 pounds

### U-1100GT Bodypack Transmitter

- **Input Impedance:** 500k $\Omega$
- **Input Connector:** Locking 3.5mm mini-jack
- **Antenna Type:** External attached
- **Battery Type:** 2 x AA alkaline or NiMH
- **Battery Life:** 8-10 Hours typical

## TROUBLESHOOTING

If you encounter issues with your Nady U-2100 wireless system, consider the following common solutions:

- **No Sound/Weak Signal:**
  - Ensure all components are powered on and connected correctly.
  - Check battery levels in the bodypack transmitters and replace if low.
  - Verify that the transmitter and receiver are synced to the same channel. Perform a channel scan and re-sync if necessary.
  - Adjust the receiver's volume knobs (VOL A/B) and the output level of your mixer/interface.
  - Ensure antennas are securely attached and positioned for optimal reception.

- **Interference/Noise:**

- Perform a channel scan to find a clear frequency.
- Adjust the squelch control knobs on the rear of the receiver. Slowly increase the squelch until the noise is eliminated.
- Ensure there are no other wireless devices operating on the same or nearby frequencies.
- Maintain line-of-sight between the transmitter and receiver, and avoid placing the receiver near large metal objects or other electronic equipment that could cause interference.

- **Transmitter Not Syncing:**

- Ensure the transmitter is powered on and has fresh batteries.
- Verify that the receiver is in IR search mode (displaying 'IR').
- Align the IR windows of the transmitter and receiver closely and directly.

## **WARRANTY AND SUPPORT**

For technical assistance, warranty information, or any other inquiries regarding your Nady U-2100 Dual GT Wireless Instrument/Guitar System, please contact Nady Systems Inc. customer support.

**Nady Systems Inc.**

**Website:** [nady.com](https://www.nady.com)

**Email:** [support@nady.com](mailto:support@nady.com)

Please have your model number (U-2100) and any relevant purchase information ready when contacting support.