

Nady D-450-HT

Nady Systems D-450-HT Quad Receiver 200-Channel Digital Wireless Handheld Microphone System Instruction Manual

1. INTRODUCTION AND OVERVIEW

The Nady Systems D-450-HT Quad Receiver 200-Channel Digital Wireless Handheld Microphone System is designed for high-performance audio and reliable wireless operation. This rack-mountable system features advanced DQPSK digital modulation and 48 kHz/24 bit analog-to-digital conversion technology, ensuring exceptional audio clarity and virtually eliminating interference and noise. With 200 total selectable channels (50 options for each of the four receiver/transmitter pairs), it offers robust connectivity for various applications.

This system is ideal for any performing venue, school, university, church, lecture hall, or band requiring multiple handheld microphones to operate simultaneously. Its reliable long-range operation, extending beyond 300 feet line-of-sight, provides freedom of movement without compromising sound quality.

2. WHAT'S IN THE BOX

Your Nady Systems D-450-HT package includes the following components:

- 1 x D-450 Quad Receiver
- 4 x HT-450 All-Metal Handheld Microphones
- 4 x Receiver Antennas
- 1 x Power Adapter (DC 12V/500mA)
- 4 x AA Batteries (for microphones)
- 1 x 1/4" to 1/4" Audio Cable
- 1 x 1/4" to 3.5mm Audio Adapter
- 4 x Microphone Anti-Roll Rings
- 1 x Owner's Manual



Image: All components of the Nady D-450-HT Quad Wireless Handheld Microphone System laid out, including the receiver, four handheld microphones, antennas, power adapter, and cables.

3. SETUP INSTRUCTIONS

1. **Install Antennas:** Screw the four included antennas into the ANT A and ANT B jacks on the rear panel of the D-450 receiver. Adjust them for optimal reception.
2. **Connect Power:** Plug the DC 12V/500mA power adapter into the DC INPUT jack on the receiver's rear panel, then connect the adapter to a power outlet.
3. **Connect to Audio System:**
 - For individual microphone outputs, connect XLR cables from the BAL MIC OUT 1-4 jacks on the receiver to your mixer or amplifier's XLR inputs.
 - For a summed output of all microphones, connect a 1/4" cable from the UNBAL LINE SUM OUT jack to your audio system's 1/4" input.
4. **Insert Batteries into Microphones:** Unscrew the bottom part of each HT-450 handheld microphone. Insert two AA batteries, ensuring correct polarity. Re-attach the bottom part.
5. **Power On:** Press the Power button on the D-450 receiver. Then, press the Power button on each handheld microphone.
6. **Frequency Sync:** The system features IR synchronization. Ensure the receiver and microphones are powered on. Use the IR sync function (refer to the detailed operating instructions for specific steps) to automatically match the microphone frequencies to the receiver channels.

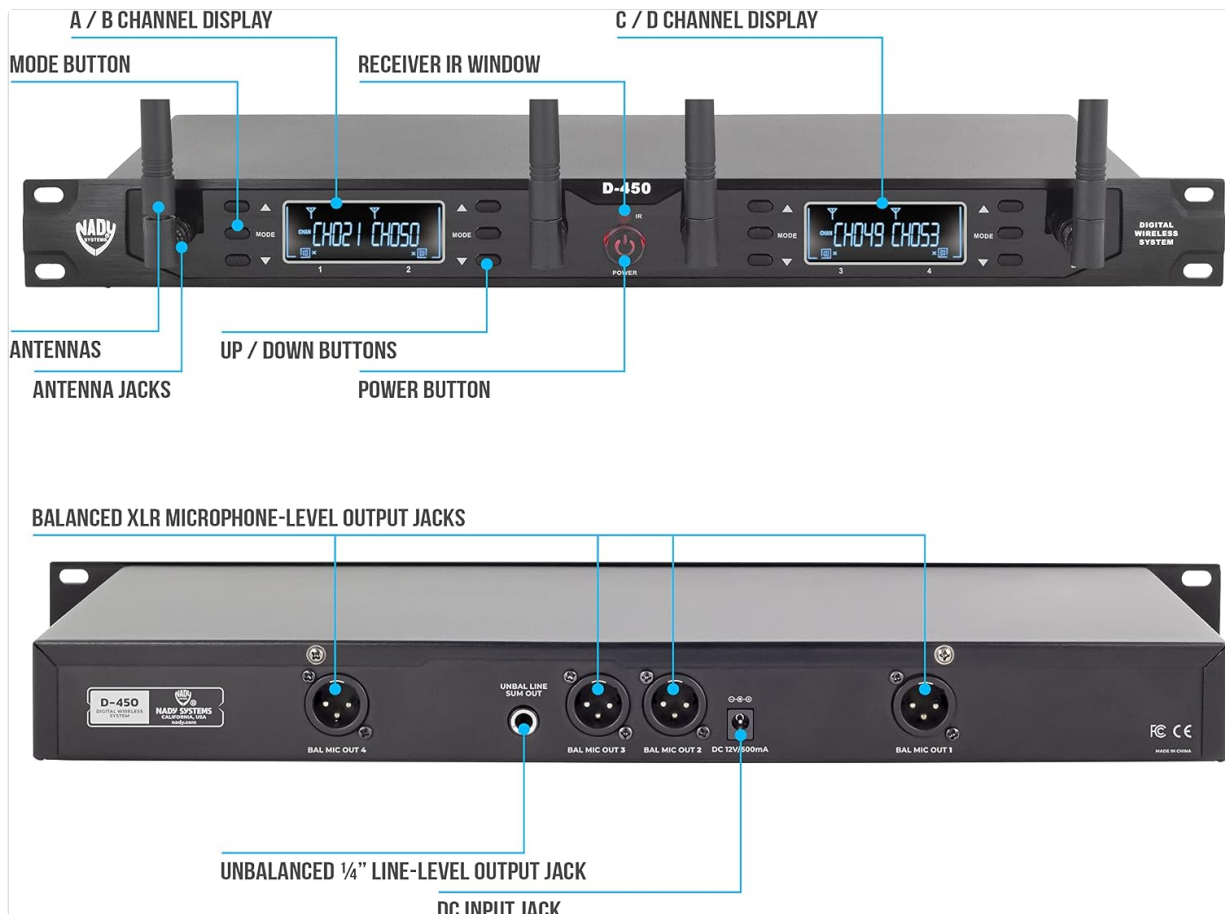


Image: Detailed view of the Nady D-450 receiver, highlighting the front panel controls (Mode, Up/Down, Power, Channel Displays) and the rear panel connections (Antenna Jacks, Balanced XLR Microphone-Level Jacks, Unbalanced 1/4" Line-Level Output Jack, DC Input Jack).

4. OPERATING INSTRUCTIONS

1. Power On/Off:

- Receiver: Press the 'Power' button on the front panel.
- Microphones: Press the 'Power' button on the handheld microphone.

2. Volume Adjustment:

- Receiver: Adjust the individual volume knobs on the receiver's front panel for each microphone channel (Vol 1-4).
- Microphones: The handheld microphones may have internal volume controls accessible via the 'SET' and '+/-' buttons, allowing fine-tuning of the microphone's output level.

3. **Mute/Unmute:** On the handheld microphone, a short press of the 'Power' button typically toggles the mute function. The display will indicate the mute status.

4. **Frequency Selection:** The D-450-HT offers 200 selectable frequencies. Use the 'MODE' and 'UP/DOWN' buttons on the receiver to browse and select different frequency groups and channels. For handheld microphones, use the 'SET' button and '+/-' buttons (usually located inside the battery compartment or on the body) to change frequencies. After changing frequencies on the microphone, re-sync with the receiver using the IR sync window.

5. **IR Synchronization:** To synchronize a microphone with the receiver, select the desired channel on the receiver. Then, align the IR window of the microphone with the IR window on the receiver and activate the sync function on the microphone (usually by pressing a dedicated sync button or holding the 'SET' button). The receiver will automatically detect and match the microphone's frequency.

6. **Output Modes:** The receiver supports both stereo and mono output configurations. Refer to the full manual for detailed instructions on selecting and configuring these modes for your audio setup.

5. FEATURES AND SPECIFICATIONS

- **Brand:** Nady
- **Model:** D-450-HT
- **System Type:** Quad Receiver 200-Channel Digital Wireless Handheld Microphone System
- **Microphones:** 4 x All-Metal Handheld Microphones (HT-450)
- **Frequency Range:** 500 MHz band (with 200 selectable frequencies, 50 per channel)
- **Range:** >300 feet line-of-sight
- **Audio Quality:** 48 kHz/24 bit Analog-to-Digital Conversion
- **Modulation:** DQPSK Digital Transmission
- **Outputs:**
 - 4 x Individual Balanced XLR Microphone-Level Outputs
 - 1 x Sum 1/4" Unbalanced Line-Level Output
- **Special Features:** Wireless, XLR connectivity, IR Synchronization, Volume controls, Frequency selection, Mute function, Equalizer, Limiter, Lock functions.
- **Power Source:** Battery Powered (AA batteries for microphones)
- **Color:** Black
- **Manufacturer:** Nady Systems, Inc.
- **GTIN/UPC:** 634343118285

Your browser does not support the video tag.

Video: A showcase of the Nady D-450 Series Wireless Systems, demonstrating its features and various configurations, including handheld and bodypack options.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Avoid using harsh chemicals or abrasive materials.
- **Battery Replacement:** Replace microphone batteries when the low battery indicator appears on the microphone's LCD display. Always use fresh AA batteries for optimal performance.
- **Storage:** When not in use for extended periods, remove batteries from the microphones and store the system in a cool, dry place.

7. TROUBLESHOOTING

- **No Sound:**
 - Check if the receiver and microphones are powered on.
 - Verify all audio cables are securely connected between the receiver and your audio system.
 - Ensure microphone batteries are fresh and correctly inserted.
 - Check if the microphone is muted.
 - Confirm that the receiver and microphone are on the same frequency and properly synchronized

via IR.

- Adjust volume levels on both the microphone and receiver.

- **Interference/Noise:**

- Change the operating frequency of the microphone and receiver to an unused channel.
- Ensure antennas are properly connected and positioned for optimal reception.
- Keep the receiver away from other electronic devices that may cause interference.

- **Limited Range:**

- Ensure antennas are unobstructed and positioned vertically.
- Avoid physical barriers between the microphone and receiver.
- Check for strong RF interference in the environment and change frequencies if necessary.

8. WARRANTY AND SUPPORT

The Nady Systems D-450-HT Quad Receiver 200-Channel Digital Wireless Handheld Microphone System comes with a **Limited Manufacturer Warranty**. For specific details regarding warranty coverage, duration, and how to obtain service, please refer to the warranty information provided in your Owner's Manual or contact Nady Systems, Inc. customer support directly.

For technical assistance, troubleshooting beyond this guide, or inquiries about replacement parts, please visit the official Nady Systems website or contact their customer service department.