



# DKW-DUO WIRELESS MICROPHONE SYSTEM OPERATING INSTRUCTIONS

Congratulations on your purchase. The Nady DKW-DUO is the perfect entry level professional wireless, and delivers clear, transparent audio for a variety of singing and speech applications. Although offered at a breakthrough new low price for a professional wireless, this system is loaded with features:

- All the advantages and freedom of 2 channels of wireless operation without cumbersome cords
- Easy to use — simply plug in instead of your wired microphones
- Use both channels with single receiver and two handheld microphone transmitters for simultaneous dual operation
- Excellent high fidelity audio — perfect for public speaking, karaoke/recreational singers, DJ's, and many other applications
- VHF (170-216MHz) operation for reliable, interference-free performance
- 150+ feet typical operating range — up to 300+ feet line-of-sight



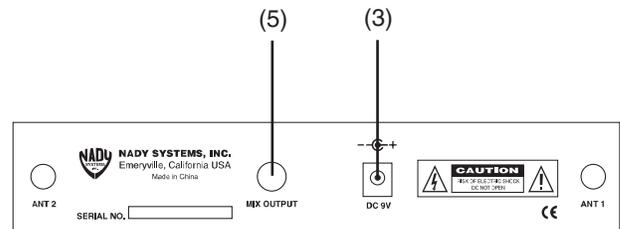
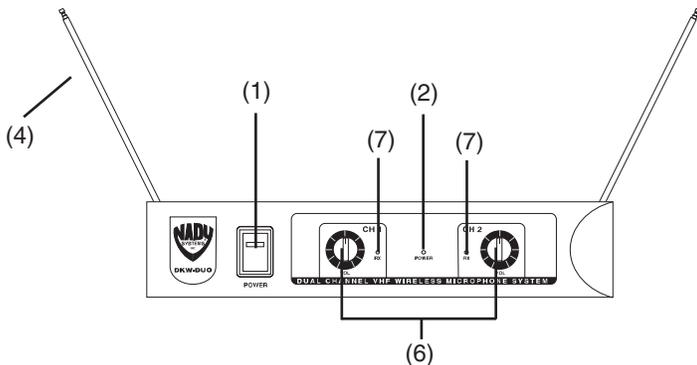
## Receiver

- Easy to use — simply plug into your audio mixer or amplifier instead of your wired microphone. Operate either channel (1, 2) singly or both simultaneously.
- High-band VHF (170-216 MHz) operation for interference-free performance
- Advanced audio processing circuitry for a wide dynamic range (no overloading for loud inputs or background hiss during quiet use)
- Complete controls and connections for professional operation include front panel power ON/OFF switch, CH 1 and CH 2 output volume controls, Power ON LED, CH 1 and CH 2 transmitter on LED indicators. Back panel 1/4" audio output jack and DC power input jack for supplied AC/DC adaptor. Dual retractable CH 1 and CH 2 antennas.
- Special added circuitry eliminates transmitter on/off "pop" noise

## Handheld Microphone Transmitters

- Each transmitter operates on a separate single frequency in the VHF 170-216MHz band and can be used singly or together simultaneously with the DKW-DUO dual receiver
- Easy, convenient operation with on/off switch and low battery LED indicator which flashes once for unit "ON", and lights steady for low battery alert
- Features the Nady DM-20 unidirectional dynamic cartridge for optimum true sound, maximum feedback rejection and minimal handling noise
- Each transmitter operates up to 15 hours on a single 9V alkaline battery

## OPERATION



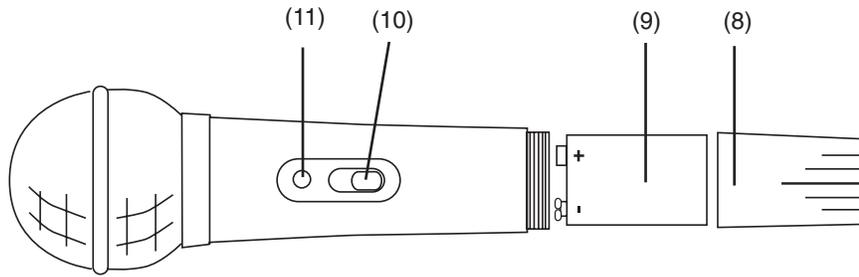
## RECEIVER

1. Plug the AC/DC adapter (provided) into the **9VDC INPUT JACK (3)** on the back of the receiver. Then plug the power supply into an AC outlet. Switch the **POWER (1)** to the ON position. The **POWER ON LED (2)** will now light and the receiver is operational.

2. Rotate and extend **ANTENNAS (4)** fully, angled at 60° position as shown.

3. The **1/4" AUDIO OUTPUT JACK (5)** provides a fixed, unbalanced MIC level audio output for connection to your mixer with the 1/4" to 1/4" cord supplied. As when making any connection, make sure the mixing board's volume is at the minimum level before plugging in the receiver to avoid possible sound system damage. [Note: this output is the sum of the signals received by both the internal receivers (CH 1 + CH 2). Use the CH 1 & CH 2 **VOLUME CONTROLS (6)** to adjust the individual relative channel volumes.]

# OPERATION



## HANDHELD MIC TRANSMITTER

1. Unscrew the **BATTERY COMPARTMENT COVER (8)** and remove. Insert a fresh **9V BATTERY (9)**, observing correct polarity as marked, and screw the cover back on to the microphone. To ensure proper battery contact, the cover must be screwed on completely.

2. Turn on the handheld mic by sliding the **OFF/ON SWITCH (10)** to the ON position. The **BATTERY INDICATOR LED (11)** will give a single quick flash, indicating usable battery strength. In the case of a dead or low battery, the LED will either not go on at all or will stay on continuously, indicating that the battery should be replaced with a fresh one.

3. The microphone is now ready to use. The corresponding **Rx LED (7)** on the DKW-DUO receiver should now be lit, indicating a received signal from the transmitter on that Channel (1,2). Adjust the **VOLUME (6)** control of the receiver channels you are using clockwise to about 3/4 rotation, until the volume level is comfortable for your application. If using both CH 1 and CH 2, adjust the relative volume of each channel as desired in the mixed (summed) receiver **AUDIO OUT (5)**.

[Note: Observe care in selecting P.A. volume, transmitter location and speaker placement so that acoustic feedback (howling or screeching) will be avoided.]

# SPECIFICATION

## OVERALL SYSTEM PERFORMANCE

Frequency Response: 80-14,000 Hz, +/-3dB  
Dynamic Range: 95dB  
Total Harmonic Distortion: <0.7%  
RF Carrier Frequency Range: 170-216 MHz  
Frequency Stability: +/- 0.005%, crystal controlled  
Modulation: FM (F3E), +/-15KHz max.  
Operating Range: 150 ft. typical-up to 300+ ft. line-of-sight

## TRANSMITTER

Audio Input: Nady DM-20D unidirectional dynamic cartridge  
Controls: OFF/ON switch  
LED Indicator Unit: "ON" (single flash), Low Battery Alert (steady)  
RF Power Out: 50mW (Max. allowed by FCC)  
Harmonic & Spurious Emissions: >-40dB

Battery: 9V Alkaline  
Battery Life: Up to 15 hours  
Dimensions: 8.9" X 1.4" Dia. (22.6 X 3.5 cm)  
Weight (w/o battery): 5.4 oz. (151 g.)

## RECEIVER

Controls: Power ON/OFF  
Connectors: 1/4" unbalanced audio out jack, 2.1 mm barrel-type DC input jack  
LED Indicator: Power ON, Transmitter RF (CH A & CH B)  
Dimensions: 8.2" X 5.3" X 1.75", (20.8 X 13.5 X 4.4 cm.)  
Weight: 16.1 oz. (451 g.)  
Power Requirements: 9V @ 120mA, nominal, AC/DC adapter supplied  
Antennas: Dual 15" (38 cm), collapsible  
*Specifications subject to change for product improvement purposes*

# SERVICE

**(U.S.)** Should your Nady DKW-DUO Wireless Microphone System require service, please contact the Nady Customer Service Department via telephone: (510) 652-2411 or e-mail: [service@nady.com](mailto:service@nady.com).

**(INTERNATIONAL)** For service, please contact the Nady distributor in your country through the dealer from whom you purchased this product.

*The warranty card supplied with this system provides valuable warranty and service information. Store it in a safe place for future reference. Do not attempt to service this unit yourself as it will void your warranty.*



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