



ENCORE 200

VHF Bass Wireless Microphone System

Nady Wireless Systems are type accepted under FCC rules parts 90, 74 and 15. The device complies with RSS-210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



NADY SYSTEMS, INC.

6701 Shellmound Street • Emeryville, CA 94608 USA
Tel: 510/652-2411 • Fax: 510/652-5075
www.nady.com

OWNER'S MANUAL

S E R V I C E

(U.S.) Should your Nady Encore 200 Wireless Microphone System require service, please contact the Nady Service Department via telephone at (510) 652-2411 or e-mail to service@nady.com for a Return Authorization (R/A) Number and a service quote (if out of warranty). Make sure the R/A Number is clearly marked on the outside of the package and enclose a cashier's check or money order (if not prepaid with a credit card). Ship the unit prepaid to: Nady Systems, Inc., Service Department, 6701 Shellmound Street, Emeryville, CA 94608. Include a brief description of the problems you are experiencing.

The warranty card enclosed with this system contains additional valuable warranty and service information. Keep it in a safe place for future possible reference. Do not attempt to service this unit yourself as it will void the warranty.

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

S P E C I F I C A T I O N S

ENCORE 200 OVERALL SYSTEM PERFORMANCE

Frequency Response	25-20,000 Hz, ± 3 dB (variable Bass Boost™, to +6dB @ 100Hz)
Dynamic Range	120dB
Total Harmonic Distortion	< 0.3%
RF Carrier Frequency Range	169-216 MHz
Frequency Stability	$\pm 0.005\%$, crystal controlled
Modulation	FM (F3E), ± 20 KHz max.
Operating Range	Up to 250 ft. typical (depending on site conditions); up to 500+ feet optimum line-of-sight

ENCORE 200 RECEIVER

Reception Mode	DigiTRU Diversity™
Controls	Power ON/OFF, volume control, mute control, bass boost control
Connectors	Balanced XLR and unbalanced adjustable 1/4" audio out jacks, 2.1 mm barrel-type DC input jack
LED Indicators	Power ON, 5-LED RF & AF level displays, A/B Diversity
Dimensions (Max.)	1.75" x 7.5" x 8.1" (4.4 x 19 x 20.7 cm)
Weight	1.6 lbs (.73 kg)
Power Requirements	12V @ 400mA, nominal, AC/DC adapter supplied
Antenna	11.2" (28.5 cm), dual telescopic

BASS WIRELESS TRANSMITTER

Audio Inputs	3.5mm mono locking jack for connecting to instrument cable
Controls	OFF/STANDBY/ON switch, input level adjust
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	4.1" X 2.4" X 0.8" (10.4 X 6.1 X 2.0 cm)
Weight (w/o battery)	3.6 oz (101 g)

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I N T R O D U C T I O N

Thank you for purchasing a Nady Encore 200 VHF Bass DigiTRU Diversity™ Wireless Microphone System. The Encore 200 is loaded with top professional operating features and is the best performance and price value available in VHF bass diversity wireless systems.

U S I N G T H I S M A N U A L

This booklet gives instructions for the operation of the Encore 200 VHF wireless, including bass bodypack transmitter system. Please read the instructions for your system completely before operating unit.

This manual will first list the features of the Encore 200 and then will take you step by step to show you how to operate your new system. Included in this manual are system specifications and servicing information.

FEATURES

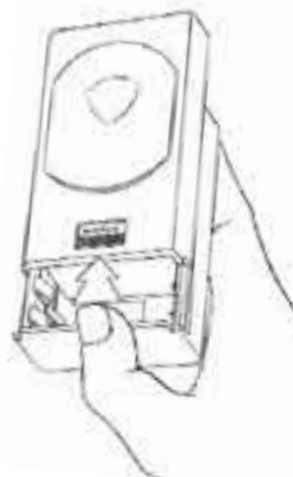
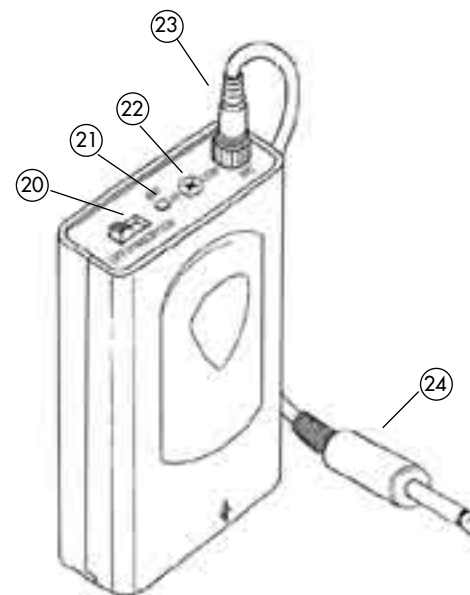
- Customized specially for use with bass guitars — playing your wireless bass never sounded so good!
- Enhanced Headroom™ for maximum possible clarity and distortion-free audio, even with high output active pickups
- Bass Boost™ adjust for tuning in exactly the right bass punch and presence missing in standard wireless
- All the advantages of wireless operation — with the true-to-life sound of a cord... and more

ENCORE 200 RECEIVER

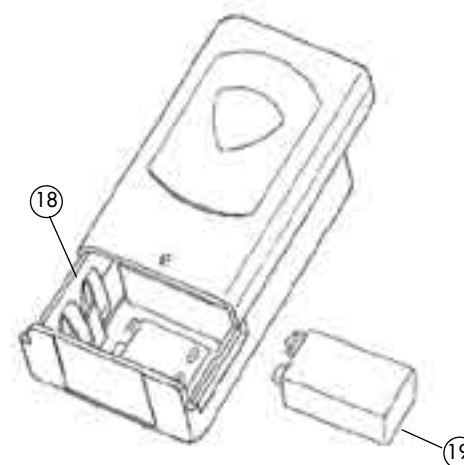
- Rugged half-rack model with retractable front panel dual antennas
- DigiTRU Diversity™ for optimum range and dropout protection
- Proprietary Enhanced Headroom™ circuitry designed specially for the unique demands of accurate, distortion-free sound reproduction of bass guitars
- 5-LED RF and AF displays for monitoring incoming signal strength and audio level
- Unbalanced 1/4" and balanced XLR outputs (for bass amp or direct mixer feeds, or both). Volume control for unbalanced line output.
- Unique user adjustable Bass Boost™ for dialing in the exact bass punch desired
- Unique snap-out side panel locking tabs for convenient single receiver or dual receiver (side-by-side) optional rack mounting
- Noiseless transmitter ON/OFF switching

BASS TRANSMITTER

- OFF/STANDBY/ON switch allows convenient audio muting with the transmitter "ON"
- Low battery LED indicator flashes once for unit "ON"; lights steady for low battery alert
- Locking 3.5mm mini-jack provides secure connection for removable instrument cable
- Easily accessible input level adjust control for optimum sound for all types of bass pickup outputs



Opening Battery Compartment



BASS WIRELESS TRANSMITTER

1. Snap open the BATTERY COMPARTMENT (18) and insert a fresh 9V BATTERY (19), observing the correct polarity. Close the compartment. The bass transmitter is provided with a 3.5 mm LOCKING JACK (23) for connecting the INSTRUMENT CABLE (24). To secure the connection, turn the metal slip ring on the plug clockwise to thread it on to the jack. To unplug, reverse the process. Slip the transmitter into a pocket or clip on to your clothes or instrument strap. *(Note: As the cord to the instrument also serves as the antenna, be sure to extend it fully for maximum range. Rolling up or shortening the cord may reduce the effective operating range.)*

2. Turn on the bass transmitter by sliding the OFF/STANDBY/ON SWITCH (20) to the STANDBY position (transmitter on, audio muted) or the ON position (transmitter and audio both on). The BATTERY INDICATOR LED (21) will give a single quick flash, indicating usable battery strength. In the case of a dead or low battery, the LED either will not go on at all or will stay on continuously, indicating that the battery should be replaced with a fresh one.

3. The bass transmitter is now ready to use. The A and/or B DIVERSITY LED INDICATORS (14) and most or all of the RF DISPLAY LEDs (15) on the Encore 200 receiver should now be lit, indicating a received signal from the transmitter. Adjust the volume of the receiver as per the Connecting the Audio Output section of the above Encore 200 receiver instructions. For optimum performance, an INPUT LEVEL CONTROL (22) is provided on the top panel of the transmitter. Adjust the gain by turning the control with a small slot head screwdriver. It is recommended that this control be turned to maximum gain. *(Note: the bass wireless transmitter has been designed for extra headroom).* However, for ultra high-gain instrument sources such as hot active bass pickups, turning the level down slightly can provide a cleaner sound. *(Note: Turning down the input gain too much can compromise the signal-to-noise ratio and is not recommended. Set for the maximum possible gain and headroom without noticeable distortion on the high level peaks).*

The AF LEVEL LED DISPLAY (16) on the Encore 200 receiver will light up to 5 LEDs (4 green and 1 red) for all input signals. Occasional flickering on and off during use of the top red LED indicator in this display is normal, however if the red LED stays on continuously, turn down the instrument volume or adjust the INPUT LEVEL CONTROL (22) on the bass transmitter, or noticeable distortion may result.

(Note: Scratchy noises can sometimes occur when some basses with dirty pots or connections are used with any wireless system. For this reason, the supplied IC-V1 INSTRUMENT CORD (24) has a factory installed capacitor inside the 1/4" plug. This capacitor provides first order filtering of the RF signal from the cord into the guitar and eliminates virtually all scratchy noises. Should your equipment still give you scratchy noises, we suggest these steps to eliminate them:

- a. *Make sure all bass volume and tone pots are clean and all contacts are*

ENCORE 200 RECEIVER

1. Rackmounting the Receiver

There are 2 options available for rackmounting the Encore 200 receiver: singly or side-by-side with another Encore Series receiver.

- a. Single mounting: Remove the receiver SIDE MOUNT CLIP (1) from each side of the receiver (as shown) and slide in the optional ERM-12 RACK EARS (2).
- b. Side-by-side double mounting: After removing the SIDE MOUNT CLIPS (1) from both Encore receivers, join the two receivers with the EJC-2 JOINING CLIP (3) and attach the ERM-22 RACK EARS (4) as shown. *(Note: Do not mount the receiver in a rack directly above an amplifier or other source of high heat – this could degrade the performance of the Encore 200. Always ensure adequate airflow and heat dissipation in any rack configuration.)*

2. Powering the Receiver

Plug the 12V AC/DC ADAPTER (5) provided into the DC INPUT JACK (6) on the back of the receiver. Then plug the power supply into an AC outlet. Press the POWER SWITCH (12) once to turn on the receiver. The POWER ON LED (13) will now light and the receiver is operational.

3. Antennas

The Encore 200 receiver is supplied with TELESCOPIC ANTENNAS (17). These should be extended fully to obtain maximum range. Optimal antenna position is 45 degrees from the receiver (at 90 degrees from each other). For maximum range, it is always best to maintain a line of sight (no obstructions) between the receiver antennas and the transmitter at all times whenever possible.

4. Mute (Squelch) Adjustment

In normal operation, the MUTE CONTROL (9) should be set fully counterclockwise to the factory preset minimum RF level. However, in areas of high RF activity, the mute (or squelch, as it is sometimes called) may need to be adjusted to compensate for the adverse conditions in a particular location. If, with the transmitter off, the receiver's A and/or B DIVERSITY LED INDICATORS (14) and/or one or more LEDs of the 5 LED RF LEVEL DISPLAY (15) flicker or stay on, the squelch control should be turned clockwise until the LEDs extinguish. When the squelch is properly adjusted, the A and/or B LEDs or the RF LEVEL LED displays will only light when the system transmitter is turned on. Turning the squelch control too far clockwise will reduce the range, but yield a quieter mute (squelch) function. During operation, especially at ranges greater than 75 feet, one or the other of the A or B LEDs may extinguish briefly. This is normal – the unit's DigiTRU Diversity™ reception ensures that the received audio will not be interrupted. When both the A/B DIVERSITY LEDs and the 5 LED RF LEVEL display extinguish, the transmitter is out of range for that given location, and the user should move closer to the receiver to re-establish the radio link.

5. Bass Boost Control

Ordinary wireless systems all sound somewhat thinner (with less bass) than hardwired. This is due to (1) natural side effects of the noise reduction circuitry employed, and (2) lack of the high-frequency roll-off normally caused by longer hardwired cable runs. Adjust the BASS BOOST (11) control to add back low frequency content in your signal as desired. This is a low-pass filter, with up to 6 dB of gain, centered at 100Hz, when turned fully clockwise. The normal wireless sound is with the control left fully counterclockwise.

6. Connecting the Audio Output

The Encore 200 receiver provides both a fixed mic level BALANCED AUDIO OUTPUT XLR (8) and an adjustable line level UNBALANCED AUDIO OUTPUT 1/4" JACK (10). The level from the UNBALANCED OUTPUT is controlled by the rear panel VOLUME CONTROL (7).

(Note: As when making any connection, make sure the amplifier or mixing board volume is at the minimum level before plugging in the receiver to avoid possible sound system damage. Also make sure that the phantom power on the input of the mixer is turned OFF before making connection to the receiver.) Insert an audio cord with a 1/4" mono phone plug in the UNBALANCED OUTPUT JACK (10) on the rear panel of the receiver. Plug the other end of the cord into an amplifier, effects, or mixing board. Adjust the VOLUME CONTROL (7) on the Encore 200 receiver clockwise to about 3/4 rotation, until the volume level is comfortable for your application. This setting is roughly equivalent to a direct instrument cord connection. Turning the volume up to maximum will provide 4dB gain over a cord.

(Note: You can connect both outputs at the same time for added versatility in use. For example, simultaneously hook up the UNBALANCED AUDIO OUTPUT (10) to your bass amplifier and the BALANCED AUDIO OUTPUT (8) to the FOH mixer.)

