



## WX3000

### Wireless Microphone System

### Manual and Quick Start-up Guide

For Bodypack transmitter  
Product Name: Wireless Microphone  
Model: TX3010N

For Handheld transmitter  
Product Name: Wireless Microphone  
Model: TX3000N



CAD Audio  
6573 Cochran Rd., Bldg. I Solon, OH 44139 U.S.A.  
Tel: (440) 349-4900 Fax: (440) 248-4904  
Sales: 800-762-9266 [www.cadaudio.com](http://www.cadaudio.com)

## FCC warning statement

This device complies with Part 15 of the FCC rules.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Two-Year Limited Warranty**

CAD Audio hereby warrants that this product will be free of defects in material and workmanship for a period of two years from the date of purchase. In the unlikely event that a defect occurs CAD Audio will, at its option, either repair or replace with a new unit of equal or greater value. Retain proof of purchase to validate the purchase date and return it with any warranty claim.

This warranty excludes exterior finish or appearance, damage from abuse, misuse of the product, use contrary to CAD Audio's instructions or unauthorized repair. All implied warranties, merchantability, or fitness for a particular purpose is hereby disclaimed and CAD Audio hereby disclaims liability for incidental, special or consequential damages resulting from the use or unavailability of this product.

This warranty gives you specific legal rights and you may have other rights that vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

Note: No other warranty, written or oral is authorized by CAD Audio.

### **Shipping Instructions**

Please call our customer service department at 440-349-4900 for a pre-approved return authorization number.

Carefully repack the unit and return the insured package to:  
CAD Audio, 6573 Cochran Road, Building I, Solon, Ohio 44139.

**RETURNS WITHOUT A PRE-APPROVED RETURN AUTHORIZATION NUMBER WILL BE REFUSED.**

If outside the United States, contact your local dealer or distributor for warranty details.

Individuals with cardiac pacemakers and other similar medical devices should consult with their physician before using any RF devices. Though the output level of this wireless system is below 50 milliwatts, the proximity of the transmitter to the implant device could pose a threat.

As with any wireless product, environmental conditions can reduce or in some cases prohibit a successful connection between the transmitter and the receiver.

This device complies with Part 15 of the FCC Rules. Most users of CAD Audio wireless products in the United States do not need a license for operation. However, the rules for unlicensed operation state that this device must not operate in excess of 50 milliwatts and it must not cause harmful interference to other wireless devices, and must accept interference received from other devices. Wireless products meeting CAD factory standards adhere to these rules. The FCC reserves the right to change these rules at any time. For more information contact the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at:

[www.fcc.gov/cgb/wirelessmicrophones](http://www.fcc.gov/cgb/wirelessmicrophones)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## CADLive™ WX3000

### Introduction

CADLive™ is designed to outperform your expectations and deliver exceptional performance. Engineered to compliment the new generation of exceptional sound systems - The CADLive Series taps our Equitek studio heritage along with our live sound know-how in creating an impactful and easy-to-use line of mics.

The CADLive 3000 series feature True Diversity operation to minimize multipath interference along with CADLock™ Automatic Tone Encoded Squelch to eliminate unauthorized transmissions in the signal path. Frequency agile design when partnered with ScanLink™ technology will precisely scan, select and link to the optimum channel allowing for an easy, flexible frequency plan.

The CADLive handheld transmitter features metal construction and the CADLive D90 Supercardioid dynamic capsule provides a powerful, smooth and highly articulate profile. The handheld and body pack transmitters also include SoftTouch™ multi-function On-Off/Mute switches. CADLive bodypack transmitters are equipped with CADTone™ circuitry ensuring accurate reproduction of Hi-Z guitar and Lo-Z mic inputs.

CADLive wireless features 10, 30, 50mW transmitter power adjustment and dynamic range up to 110dB. Receivers and transmitters are equipped with a high definition LCD display and full RF, AF, Battery Life, Mic Sensitivity and RF power metering.

Receivers are housed in an all-metal chassis and supplied with single/dual rack ears and a BNC relocation kit. Body pack systems include Equitek E19 earworn and E29 lavalier mics. Both systems are supplied with a heavy-duty carry case.

### The CADLive™ WX3000 includes the following features:

- True Diversity to minimize multipath interference
- CADLock™ Automatic Tone Encoded Squelch eliminates unauthorized interference
- Frequency agile operation for maximum frequency plan flexibility
- ScanLink™ technology for instantaneous and automatic channel configuration
- CADTone™ Body Pack input – Optimized Impedance interface - Hi-Z for Guitar and Lo-Z for mic
- Metal construction Handheld Transmitter equipped with CADLive™ D90 capsule
- High Contrast LCD displays on TX and RX
- Transmitters feature 10, 30, 50mW power adjustment to aid in multiple system applications

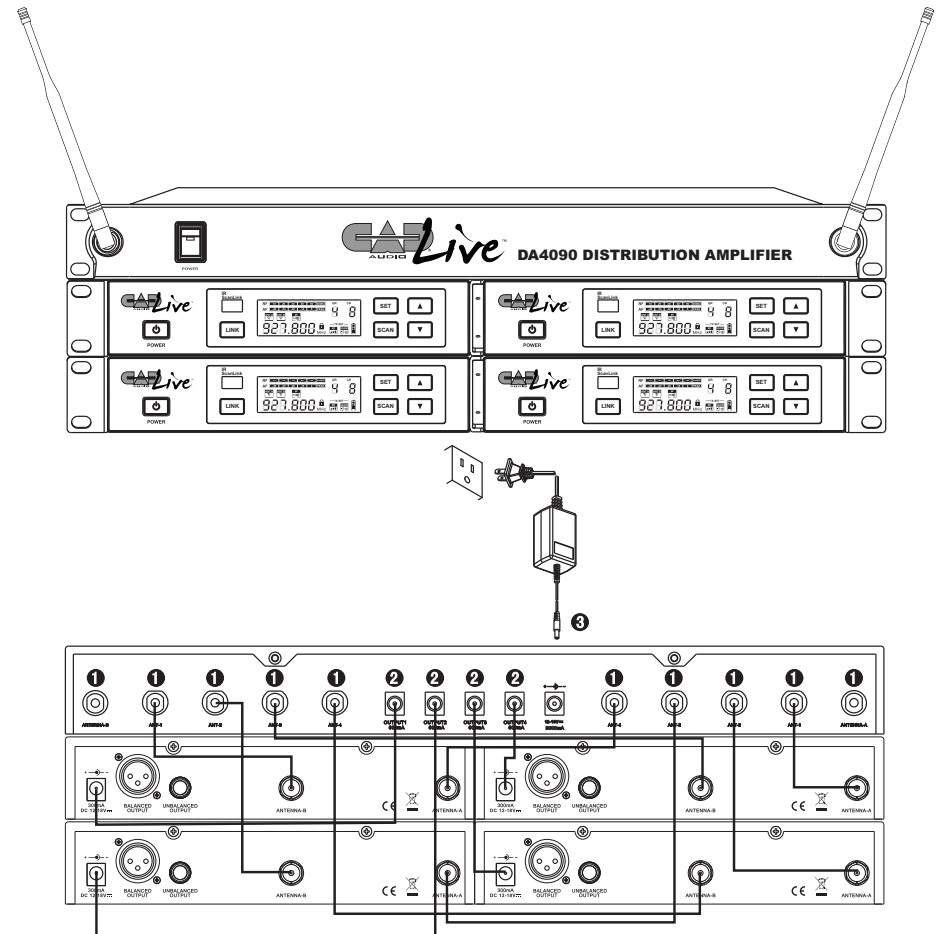
- Simultaneous usage of up to 15 systems per frequency band
- Dynamic Range > 110dB
- AA Batteries with up to 15 Hrs of battery life
- Systems ship with rack ears single/dual BNC relocation kit and durable carry case
- BodyPack systems include miniature E19 Earworn, E29 Lav, WXGTR guitar cable
- XLR and 1/4" outputs on receiver

## Startup Guide

1. Install new high quality alkaline batteries into transmitter, observing proper polarity.
2. Power up receiver by holding power button for one second.
3. Hold the SET button for one second to unlock the receiver menu.
4. Hold the SCAN button for one second to activate the ScanLink™ environmental frequency analysis, which automatically selects a clear operating frequency.
5. Turn on the transmitter by holding the power button for one second.
6. Open the battery compartment to reveal the IR node.
7. Press the LINK button (note the IR node will illuminate). Align the two IR nodes (transmitter and receiver) at a distance of 4"-12" (ambient room light can affect distance) for a few seconds while the receiver updates the transmitter. Your system is now ScanLink'd.

## Using the DA4090 Distribution Amplifier to Simplify Multiple-System Installations

1. BNC 50 ohm cable.
2. Power cable.
3. Power adapter.



## Bodypack TX3010 Transmitter

1. Power/Mute button: hold for power, press for mute.
2. CADTone TB4M-type audio input connector.
3. Transmitting antenna
4. Power indicator
5. High-contrast display
  - a) Operating frequency
  - b) RF power indicator
  - c) transmitter audio gain indicator
  - d) mute indicator
  - e) battery strength indicator
6. IR node for ScanLink
7. SET button. Unlocks advanced features.
8. UP arrow button. Use to adjust advanced feature menu items.
9. Battery compartment. Use only high quality AA alkaline batteries observing proper polarity.



## Accessing Advanced Features (SET button)

All advanced features are accessed by holding the "SET" button for one second to unlock the menu. Press the "SET" button to advance through menu items. Menu items may be adjusted using arrow keys.

1. Manually Select Frequencies
  - GR** (frequency group)
  - CH** (channel)
2. Receiver Squelch Level
  - SQL** (used to reduce sensitivity to competing RF by sacrificing operating distance)
3. Transmitter Power
  - TX SET RF** (higher power increases operating distance, lower power improves simultaneous usage)
4. Transmitter audio gain
  - TX SET GAIN** (lower gain may be used as needed for louder performers)
5. Receiver Output Volume
  - VOL** (may be reduced if audio signal overloads mixer)

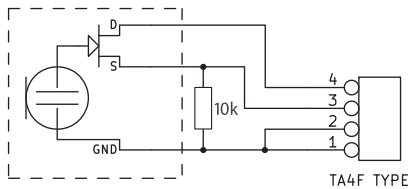
## Specifications WX3000

Frequency Range .....	520.600 - 541.625 MHz
Frequency Response .....	40Hz - 15kHz
Dynamic Range .....	>110dB
Transmitter Power .....	Switchable 10, 30, 50mW
Battery Life .....	Up to 15 Hrs
Dimensions .....	17" [43.2cm] x 12" [30.5cm] x 4" [10.2cm]
Weight .....	5lbs [2.3kg]

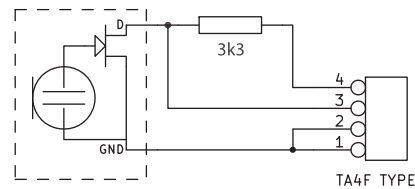
TX3000N power: 3.2 dBm  
TX3010N power: 4.2 dBm

## Interfacing to CADTone TB4M-type input connector

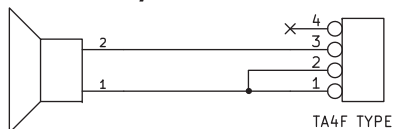
### 3-wire type electret mic



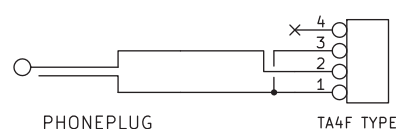
### 2-wire type electret mic



### Dynamic mic



### Instrument

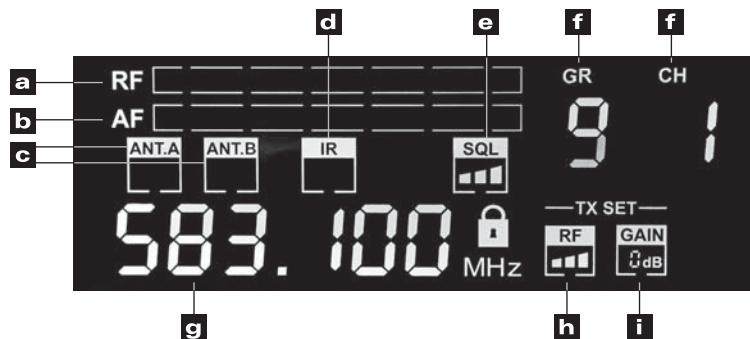


## Receiver RX3000 (Front)

1. Power button.
2. IR ScanLink node. Use for linking transmitter and receiver.
3. LINK button. Use to initiate TX-RX link.
4. SET button. Unlocks advanced features.
5. SCAN button. Use to initiate environmental frequency analysis.
6. UP and DOWN buttons. Use to adjust advanced feature menu items.

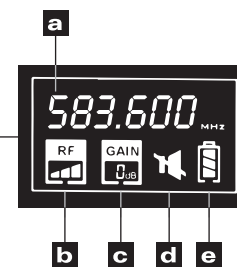
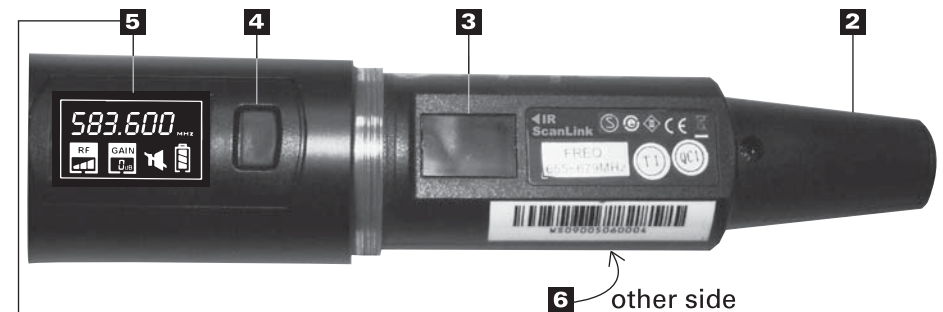


7. High-Contrast display.
  - a) Multi-segment RF signal strength meter.
  - b) Multi-segment AF signal level meter.
  - c) ANTA/ANT.B diversity indicator.
  - d) IR indicates active IR communication.
  - e) SQL squelch level indicator.
  - f) GR CH group and channel indicator.
  - g) Operating Frequency.
  - h) TX SET RF indicates transmitter RF power setting.
  - i) TX SET GAIN indicates transmitter audio gain setting.



## Handheld TX3000 Transmitter

1. CADLive D90 supercardioid dynamic capsule.
2. Enclosed transmitting antenna.
3. IR node for Scan-Link™
4. Power/Mute button. Hold for power, press for mute.
5. High-contrast display
  - a) Operating frequency
  - b) RF power indicator
  - c) Transmitter audio gain indicator
  - d) Mute indicator
  - e) Battery strength indicator
6. Battery compartment. Use only high quality AA alkaline batteries. Observe polarity.



## Receiver RX3000 (Rear)

1. DC power input jack. 12-18VDC, 300mA min, center positive.
2. XLRM-type low-impedance balanced audio output.
3. 1/4" [6.35mm] high-level unbalanced output
4. BNC 50 ohm antenna inputs.



## Channelization

These frequencies have been approved for use within the United States and Canada as of the date of publication of this manual. It is the user's responsibility to comply with local regulations.