

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.

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 cause harmful interference, and must accept any interference received, including interference that may cause undesired operation. 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

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.



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4000 Series Digital Wireless Microphone System

Manual and Quick Start-up Guide



The CADLive™ 4000 Series includes the following features:

- True Diversity to minimize multipath 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 1mW power adjustment to aid in multiple system applications
- Dynamic Range > 115dB
- 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 ¼" 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.

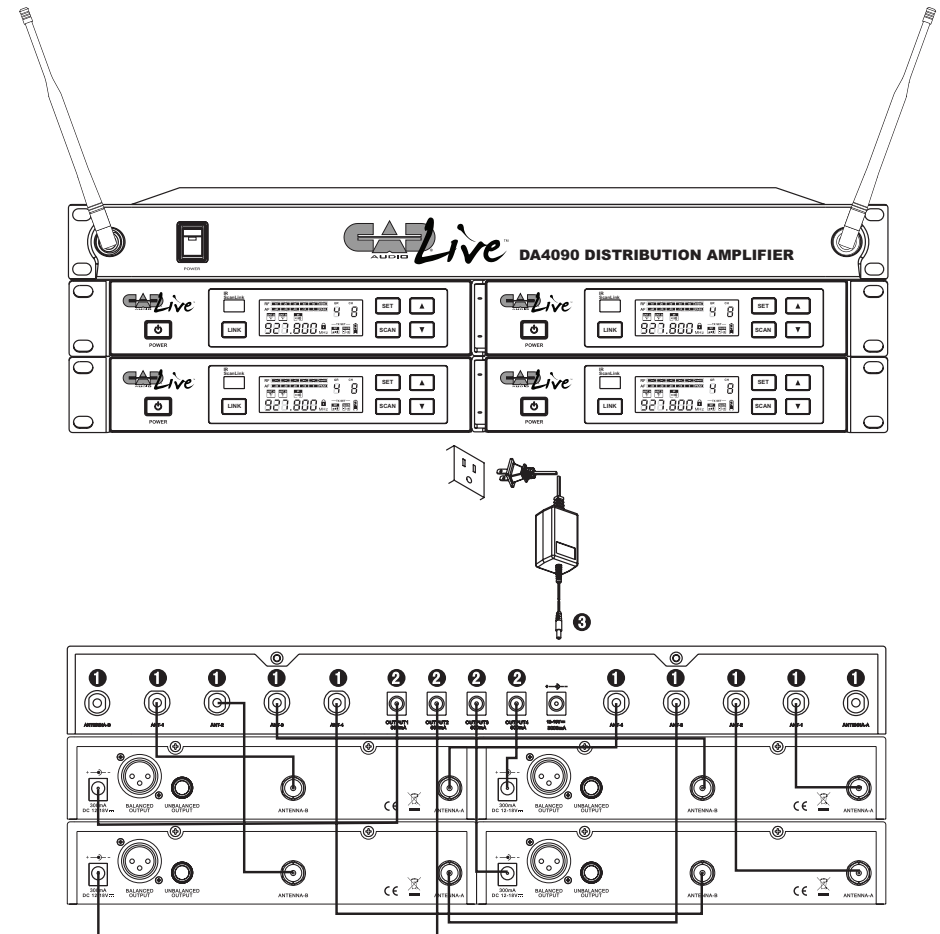
Accessing Advanced Features (SET button)

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)

Using the DA4090 Distribution Amplifier to Simplify Multiple-System Installations

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



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- Diagram of the E5051B Spectrum Analyzer showing the front panel and the back of the display. The front panel has a display (4) showing 909.800 MHz, a speaker (3), and a probe connector (2). The back of the display (6) shows the RF (7) and GAIN (8) indicators, and the battery level (9).



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- The image shows the front panel of a black receiver. On the left, the 'CAD'S Live' logo and '4000 Series' are printed. Below the logo is a power button labeled 'Power' with a callout '1'. To the right of the power button is an 'IR ScanLink' sensor area with a callout '2'. Further right is a 'LINK' button with a callout '3'. The central digital display shows '902.000 MHz' and other technical details like 'RF', 'AF', 'TX SPT', 'BATT', and 'C-SP'. To the right of the display is a 'SET' button with a callout '4' and a 'SCAN' button with a callout '5'. On the far right are two arrow buttons (up and down) with a callout '6'.

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- The diagram shows the display of a Yaesu FT-817 radio. The display is divided into several sections. At the top, there are labels 'a' through 'f' pointing to various indicators. 'a' points to the 'RF' indicator, 'b' points to the 'AF' indicator, 'c' points to the 'ANT.A' indicator, 'd' points to the 'IR' indicator, 'e' points to the 'SQL' indicator, and 'f' points to the 'GR' indicator. The main display area shows the frequency '902.000' in large digits, with 'MHz' below it. To the right of the frequency is a lock icon. Below the frequency is a label 'g' pointing to the '902.000' display. To the right of the frequency is a label 'h' pointing to the 'TX SET' section, which includes 'RF' and 'GAIN' indicators. At the bottom right, there is a label 'i' pointing to the 'dB' indicator. The 'dB' indicator shows a scale from 0 to 10. The 'SQL' indicator shows a signal strength bar. The 'ANT.A' and 'ANT.B' indicators show signal strength bars. The 'IR' indicator shows a signal strength bar. The 'GR' indicator shows a signal strength bar. The 'CH' indicator shows a signal strength bar.

Receiver RX4000 (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.



Specifications 4000 Series

Frequency Range T Band 903.55 - 927.65 MHz
Frequency Response 40Hz - 15kHz
Dynamic Range..... >115dB

Battery Life Up to 15 Hrs
Dimensions 17" [43.2cm] x 12" [30.5cm]
x 4" [10.2cm]
Weight..... 5lbs [2.3kg]

Channelization

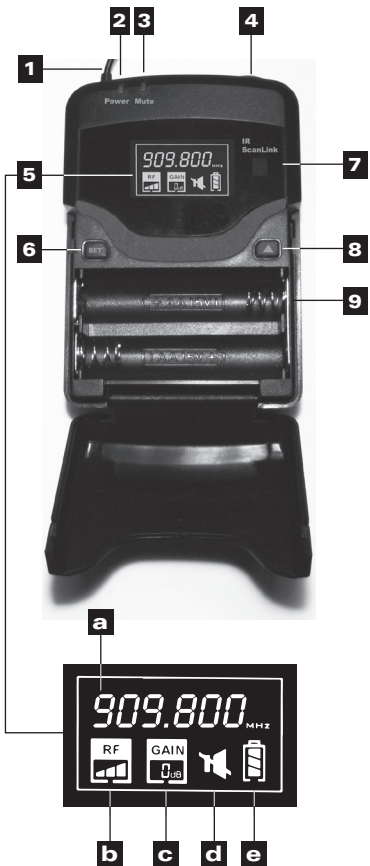
These frequencies have been approved for use within the **United States and Canada** as of the date of publication of this manual. It is the user's responsibility to comply with local regulations.

903.55 - 927.65 MHz Band T

CH	Group 1	Group 2	Group 3	Group 4
1	/	903.550	904.050	905.150
2	906.550	904.800	907.550	908.950
3	908.300	906.250	910.300	912.000
4	910.500	909.800	912.900	913.400
5	913.900	914.400	915.850	916.350
6	919.050	915.350	918.000	918.500
7	922.700	923.200	920.050	924.200
8	925.050	926.650	923.700	927.650

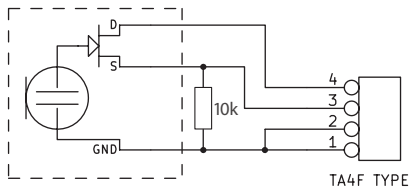
Bodypack TX4010 Transmitter

- 1. Transmitting antenna
- 2. Power indicator
- 3. Power/Mute button: hold for power, press for mute.
- 4. CADToneTB4M-type audio input connector.
- 5. High-contrast display
 - a) Operating frequency
 - b) RF power indicator
 - c) Transmitter audio gain indicator
 - d) Mute indicator
 - e) Battery strength indicator
- 6. SET button. Unlocks advanced features.
- 7. IR node for ScanLink
- 8. SELECT▲ button. Use to adjust advanced feature menu items.
- 9. Battery compartment. Use only high quality AA alkaline batteries observing proper polarity.

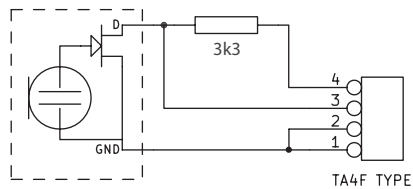


Interfacing to CADTone TB4M-type input connector

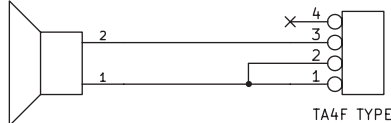
3-wire type electret mic



2-wire type electret mic



Dynamic mic



Instrument



This device complies with Part 15 of the FCC rules.

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- 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.