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 cadaudio.com

Distributed Worldwide by American Music and Sound
925 Broadbeck Drive, Suite 220
Newbury Park, CA 91320 U.S.A.
Tel: (800) 431-2609 Fax: (800) 431-3129

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WIRELESS

WX1000BP

User Guide

WX1000BP 100 Channel UHF Wireless Body Pack Microphone System

Introduction

Enjoy the easy and exciting performance that the WX1000BP provides for your next performance. CAD Audio has been creating valued product since 1931 and prides itself on developing and supporting the live performer. Our concept was straightforward – develop a high value wireless microphone system that can cope with today's challenging RF environment that is both easy to operate and exciting to use.

The WX1000BP is a Frequency Agile UHF Wireless Body Pack System which operates in the 555.1– 579.85MHz frequency band and features 100 channels for optimum clarity of signal. Auto-scan and IR sync functions make set up and channel-changing a breeze. Enjoy up to 12 hours of run time using two AA batteries, with a battery level indicator on both the transmitter and receiver, so you'll know when you need to replace them. All metal construction and included rack mounting hardware help ensure your equipment will stand up to even the toughest conditions. System includes head-worn mic, lavalier mic, and guitar cable.

The WX1000BP includes the following features:

- Frequency Agile Design (100 switchable frequencies)
- Use up to 20 systems at the same time
- Up to 295' (90m) range between transmitter and receiver
- Rugged, all metal construction
- Auto scan finds the optimal frequency setting
- IR sync wirelessly matches transmitter and receiver frequencies
- Transmitter features battery life indicator
- Transmitter utilizes 2 AA Batteries with >12 Hrs of operation
- Rack mounting hardware and antenna relocation kit included
- Head-worn and lavalier microphones and guitar/instrument cable included
- 2 Year Warranty

Operating Instructions

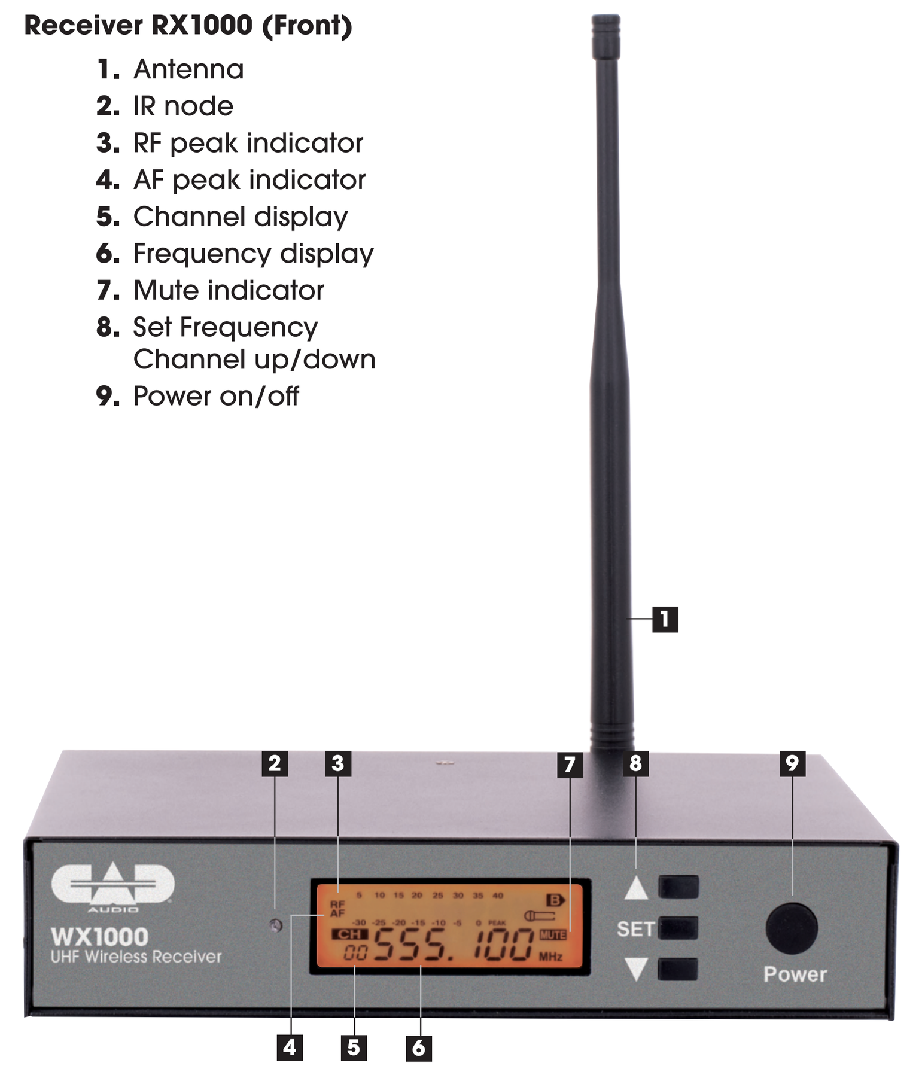
- Power on/off
- Volume Up: short press (▲)
- Volume Down: short press (▼)
- Synchronizing: short press the middle "SET" button, the system will enter into its pairing mode

  Bring the transmitter 2" (5cm) close to the "IR indicator" on the left of the front panel, and the receiver and transmitter will be synchronized
- Frequency Setting Manually: Long press (▲) to enter the manual setting mode. Press (▲) and (▼) to select channel 0-99
- Frequency Automatic Scanning Feature: Long press (▼) to enter auto-scanning mode, and the system will scan for the best possible frequency to eliminate radio interference
- Lock/unlock Setting: press (▲)(▼) at the same time, the "LOCK SIGN" on the LCD screen will display or conceal

FCC Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help
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.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

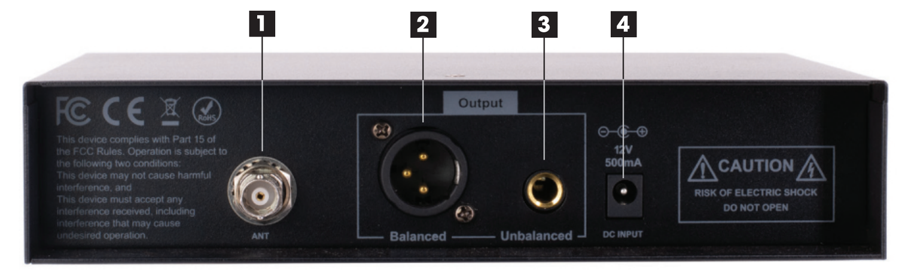
Receiver RX1000 (Front)

1. Antenna
2. IR node
3. RF peak indicator
4. AF peak indicator
5. Channel display
6. Frequency display
7. Mute indicator
8. Set Frequency Channel up/down
9. Power on/off



Receiver RX1000 (Rear)

1. Antenna jack
2. XLR-type balanced output
3. 1/4" unbalanced output
4. DC power jack (use included supply)



Specifications WX1000

Frequency Response	30Hz - 18KHz
Frequency Range	555.1MHz – 579.85MHz
Frequency Mode	FM
Channels	100
Receiver Sensitivity	<108dBm
Signal-to-Noise Ratio	>85dB
Harmonic Distortion	<0.5%
Dynamic Range	>100dB
Delay	<3ms
Operating Range	278' (85m) in open area, 196' (60m) indoors
Audio Output	XLR balanced output, 1/4" (6.3mm) unbalanced jack
Antenna Plug	1x TNC, 50ohms
Power Requirements	DC 12V, 1A
Dimensions	16" x 12.1" x 2.8" (40.5cm x 30.7cm x 7cm)
Weight	3.3Lbs (1.5kg)

Bodypack TX1000 Transmitter

1. Antenna
2. Audio input jack
3. Power Switch
4. LCD display
5. Battery compartment

Specifications TX1000

Frequency Response	30 - 18KHz
Frequency Range	555.1MHz – 579.85MHz
Transmit Mode	Micro power wireless
Channels	100
Input Power	<10mW
Signal-to-Noise Ratio	>85dB
Harmonic Distortion	<0.5%
Frequency Error	<15ppm
Frequency Stability	≤±0.002%
Modulation Mode	FM
Working Current	100 - 120mA
Antenna	Sheltered antenna
Power Requirements	2x AA batteries 1.5V

IC Warning
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
This device may not cause interference.
This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:
Cet appareil ne peut pas causer d'interférences.
Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un fonctionnement indésirable de l'appareil.

This device operates on a no-interference, no-protection basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. For further details, consult Innovation, Science and Economic Development Canada's Client Procedures Circular CPC-2-1-28, Voluntary Licensing of Licence-Exempt Wireless Microphones in the TV Bands.

Ce dispositif fonctionne sur une base de non-interférence, aucune protection. Si l'utilisateur cherche à obtenir la protection d'autres services de radio opérant sur les mêmes bandes de télévision, une licence de radio est requise. Pour de plus amples renseignements, veuillez consulter la circulaire sur les procédures à l'intention des clients CPC-2-1-28, licence volontaire de Microphones sans fil exemptés de licence dans les bandes de télévision, Innovation, sciences et développement économique Canada.

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

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 autoris é e 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.