

CAD AUDIO

WIRELESS

WX1800

True Diversity 100 Channel UHF Wireless
Handheld Microphone System

User Guide



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.

IC Statement

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:

- (1) This device may not cause interference.
- (2) 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 flux RSS exemptés de licence de Innovation, Science et développement économique Canada. L'exploitation est soumise aux deux conditions suivantes:

- (1) cet appareil ne doit pas causer d'interférences.
- (2) ce dispositif doit accepter toute interférence, y compris toute interférence susceptible de provoquer un fonctionnement indésirable du dispositif.

WX1800 True Diversity 100 Channel UHF Wireless Handheld Microphone System

Introduction

Enjoy the easy and exciting performance that the WX1800 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 WX1800 is a True Diversity, frequency Agile UHF Wireless Handheld 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 10 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.

The WX1800 includes the following features:

- Frequency Agile Design (100 switchable frequencies)
- Use up to 20 systems at the same time
- True diversity system offers improved signal stability, improved audio quality and improved operating range
- Up to 394' (120m) 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 and receiver feature low battery indicators
- Transmitter utilizes 2 AA Batteries with >10 Hrs of operation
- Rack mounting hardware and antenna relocation kit 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

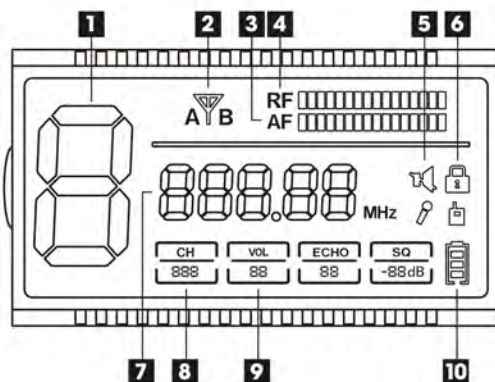
Receiver RX1800 (Front)

1. Antenna A and B
2. Monitor jack (6.3mm TRS)
3. Monitor volume control
4. IR sync sensor
5. LCD display
6. Multi-function setting control
7. Auto-scan
8. Infrared sync
9. Power switch



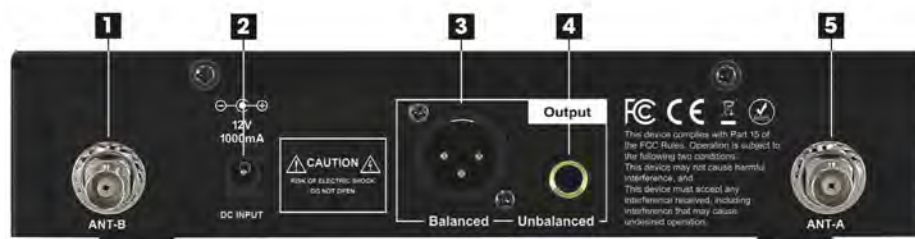
Receiver RX1800 Display

1. Channel in use
2. Signal reception mode
3. AF signal strength
4. RF signal strength
5. Muting status
6. Channel lock/unlock indicator
7. Channel frequency indicator
8. Communication channel
9. Volume setting indicator
10. Battery level of transmitter



Receiver RX1800 (Rear)

1. Antenna B
2. DC power jack (use included supply)
3. XLR-type balanced output
4. 1/4" (6.3mm) unbalanced output
5. Antenna A



Specifications RX1800

Frequency Response.....	30Hz - 18KHz
Frequency Range.....	555.1-579.85MHz
Modulation Mode	FM
Channels.....	100
Receiver Sensitivity.....	<108dBm
Signal-to-Noise Ratio	>85dB
Harmonic Distortion.....	<0.5%
Dynamic Range.....	>100dB
Delay	<3ms
Antenna Connector.....	2 x TNC, 50ohms
Operating Range.....	Up to 394' (120m) range between transmitter and receiver
Audio Output	XLR-type balanced, 1/4" (6.3mm) unbalanced
Antenna Connector.....	TNC-type, 50ohms
Power Requirements.....	12VDC, 1A, external power adapter
Dimensions	16" x 12.1" x 2.8" (40.5cm x 30.7cm x 7cm)
Weight	3.4Lbs (1.55kg)

Handheld TX1800 Transmitter

1. IR sensor
2. Battery compartment
3. Operating frequency
4. Battery level indicator
5. Power button



Specifications TX1800

Frequency Response.....	30 - 18KHz
Frequency Range	555.1-579.85MHz
Transmit Mode.....	Micro power wireless
Channels.....	100
Transmit Power.....	<10mW
Signal-to-Noise Ratio	>85dB
Distortion	<5%
Frequency Error.....	<15ppm
Frequency Stability	<=±0.002%
Modulation Mode	FM
Working Current	100~ 120mA
Power Supply	1.5V, 2AA batteries
Battery Life	< 10 hrs

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 Innovation, Science and Economic Development 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 Innovation, Science and Economic Development 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.



CAD Audio

310 Newberry Rd. Bloomfield, CT 06002-9005 U.S.A.

Tel: (800) 762-9266

cadaudio.com

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