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DWG 1000

Digital Wireless Guitar System

User Guide

brace DIGITAL WIRELESS

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Introduction

Thank you for purchasing the DWG-1000 Digital Wireless Guitar System by Brace Audio. The DWG-1000 is a true plug 'n play device, however, reading this user guide will ensure that you get the most from your new wireless system.

Wireless Audio for the 21st Century

Now you can enjoy the freedom of performing without the restriction of guitar cables. Never again will you be limited by cable length, worried about yanking the cable out of your amp, or mistakenly dragging your effects boxes across the stage.

Older wireless systems had transmission problems, as well as clumsy antennas that had to be positioned just right. Brace Audio's unique digital technology does away with the hiss, crackle, signal loss and RF interference inherent with UHF /VHF systems.

Common guitar cables can also contribute to signal loss, which is why the DWG-1000 is recommended for all guitarists, electric and acoustic-electric, not just for those doing on-stage acrobatics.

How the DWG-1000 Works

In the transmitter module, the guitar signal is converted into pristine quality digital audio. Using 2.4GHz spread spectrum transmission, the digitized signal is sent to the receiver unit. There, it´s converted back to analog audio, with no signal loss, and no loss of high frequencies due to long cable runs.

Never before has wireless audio been so trouble-free or easy to use, with the ability to deliver lossless digital quality. And, up to four units can operate at one time, so everyone in the band can use one.

What's in the box?

Your DWG-1000 Digital Wireless Guitar System contains:

- 1 - Transmitter (Tx / Gray Unit)
- 1 - Receiver (Rx / Dark Green Unit)
- 2 - 1/4" to 1/8" Guitar Cables
- This User Guide

Quick Start

1) Register your product at **http://www.braceaudio.com.**
2) Plug cable from Receiver (Rx / Dark Green) Audio Out into amplifier input. If audio buzz is heard, move the unit to a new location.
3) Plug cable from guitar into Transmitter (Tx / Gray) Audio In.
4) The Link LED light will light solid on both the Tx and RX units to show a successful wireless connection.
5) You are now ready to play.

Plugging the cable into the Tx or Rx units switches the unit on. To save battery life, unplug the cable to switch the unit off when not in use. Upon plugging in the cable, the Link LED will pulse steadily while it is waiting to make the wireless connection.

Physical Components

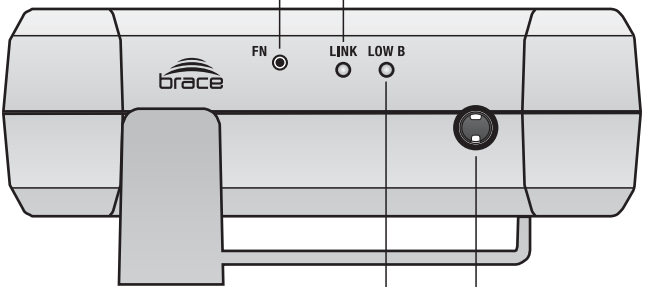
Transmitter (Tx / Gray Unit)

1. Function Button ("FN")

Press the Function Button to change channels (see section, Changing Channels). Use the end of an unfolded paper clip to access the button.

2. Link LED

The LED lights solid when a wireless connection is made between the Tx and Rx units, and pulses when waiting for a connection.



3. Low Battery LED ("LOW B")

When the batteries are low (less than 15 minutes of battery life), the Low Battery LED lights solid.

4. Audio In Jack

Plug the 1/8" connector on the included cable into the Audio In Jack, and the 1/4" connector into your guitar. This jack also acts as a switch, turning the unit on when the plug is inserted. Unplug the cable to turn the unit off.

Receiver (Rx / Dark Green Unit)

1. Link LED

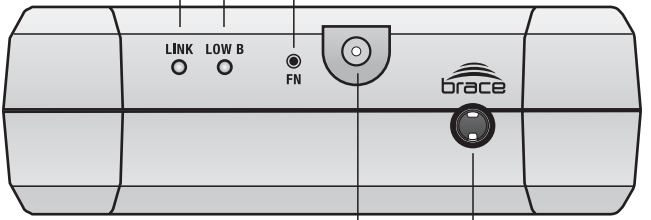
The LED lights solid when a wireless connection is made between the Tx and Rx units, and pulses when waiting for a connection.

2. Low Battery LED
("LOW B")

When the batteries are low (less than 15 minutes of battery life), the Low Battery LED lights solid.

3. Function Button
("FN")

Press the Function Button to change channels (see section, Changing Channels). Use the end of an unfolded paper clip to access the button.



5. Jack for AC power supply (not included).

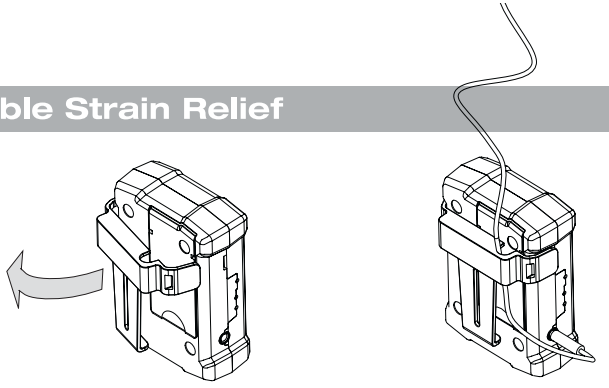
Remove the battery before connecting the AC power supply. Use only a Brace approved power supply.

WARNING!
Remove the batteries before connecting the AC power supply. See technical specification section for details.

4. Audio Out Jack

Plug the 1/8" connector on the included cable into the Audio Out Jack, and the 1/4" connector into your amplifier. This jack also acts as a switch, turning the unit on when the plug is insterted. Unplug the cable to turn the unit off. Before plugging the Rx into your guitar amp, turn the amplifier volume all the way down. This will prevent feedback or unwanted pops.

Cable Strain Relief



Remove belt clip on Transmitter. Thread cable through the notch in the clip, then snap the belt clip back onto Transmitter. This will provide strain relief for the cable.

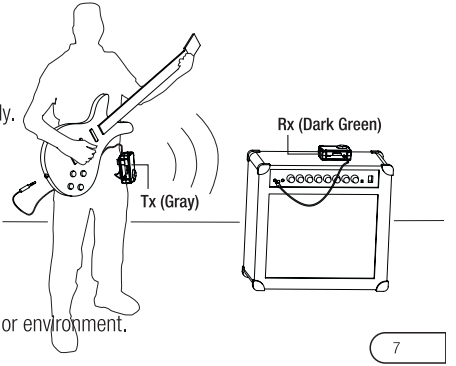
Placement of TX / RX Units

Transmitter (Tx / Gray Unit)

Place Tx unit on your hip on the side of the guitar neck, or away from the guitar output. The rounded dome should point away from your body.

Receiver (Rx / Dark Green Unit)

The RX unit can be placed on the amplifier as shown. Alternatively you could place the RX unit as the first device on the floor inline with your stomp boxes.

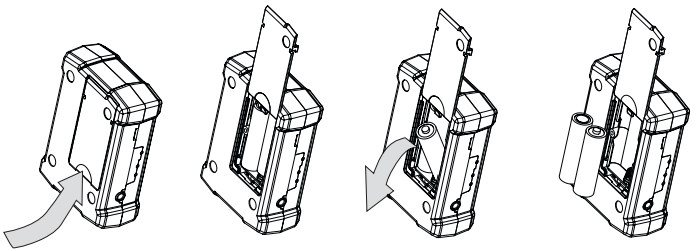


Performance may vary depending upon the location or environment.

Low Battey LED

The low battery LED will turn on when the battery power is at a minimum, indicating 15 minutes or less left of battery life. When this occurs, follow the instructions under Changing Batteries.

Changing Batteries



To change batteries on either the Transmitter or Receiver, remove the cover plate on the back of the unit. Press down at the top and slide the cover open. Each unit takes two “AA”batteries. Be sure to observe the proper polarity of the batteries.

Changing Channels

If the Link LEDs on both the Transmitter and Receiver units continue to blink and fail to light solid, your DWG-1000 might be sharing channels with another system. In the rare event that two DWG-1000 systems are sharing the same channel, the RF Mating feature enables the user to switch to a non-competing channel. To switch channels, use an unfolded paper clip to depress the Function Button.

1) Place the Tx and Rx units close to each other.

2) On the Receiver unit (RX/Dark Green) press in the Function Button and hold until the Link LED blinks rapidly. Release the button at this point. RF mating has been inititated now on the RX unit.

3) On the Transmitter unit (Tx/Gray), press in the Function Button and hold until the Link LED blinks rapidly. Release the button at this point. The TX unit will now negotiate with the RX unit and a new random channel will be assigned. When finished both RX and TX LEDs will light solid indicating that the units are now correctly working on the new channel.

To exit RF Mating mode, either complete the mating process, or turn the unit off (unplug the cable) and it will revert to its previous mating ID on the next boot.

Optional AC Adapter

The DWG-1000 Receiver (Rx) can be operated with an AC power supply (not included) instead of batteries. Information about purchasing the proper power supply can be found on the Brace Audio website at **http://www.braceaudio.com**. Or, contact your local distributor.

WARNING! Remove the batteries before connecting the AC power supply. Only a power supply with the proper specifications can be used. Using an improper power supply can damage the unit and void your warranty.

Technical Specifications

Transmitter (Tx)

RF Output Power: 16 dbm

Frequency: 2.4 Ghz, FHSS

Maximum Input Level: 2.75v peak to peak

Input Impedance: 600K ohm

THD: < 2% @ 800 mV pp 1kHz tone

Operating Power Voltage: 3.0V Typical

S/N Ratio: More than 90 dB

Audio Frequency Response: 50Hz - 15kHz

Battery Life: 5 hours (AA size battery)

Low Battery Alert: 15 minutes of life left

Output: 33mm, 1/8 in. mono Jack

Antenna: Internal

System gain: 1

Units operating at same time: 4

Receiver (Rx)

Frequency Type: 2.4 Ghz, FHSS

Battery Life: 7 hours (AA size battery)

Company Information

For technical assistance and support, please contact your local dealer.
Or, go to **http://www.braceaudio.com** for more information.
Also, don't forget to register your product on the Brace Audio website.

Warranty Information

LIMITED WARRANTY

Brace Audio Corporation warrants to the original end user purchaser ("You") that, for a period of **two years**, (the "Warranty Period") your Brace Audio Corporation product will be free of defects in materials and workmanship under NORMAL intended use. Your exclusive remedy and Brace Audio Corporation's entire liability under this warranty will be for Brace Audio Corporation, at its sole option, to repair or replace the product. All conditions of merchantability or fitness for a particular purpose and implied warranties are limited. Brace Audio Corporation disclaims for the duration of the warranty period all other express or implied conditions, representations and warranties, including implied warranty of non-infringement. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to You. This warranty gives You specific legal rights, and You may also have other rights which vary by jurisdiction. To the extent not prohibited by law, in no event will Brace Audio Corporation be liable for any lost revenue or profit, or for special, consequential, indirect, incidental or punitive damages, however caused regardless of the theory of liability, arising out of or related to the use of or inability to use the product, even if Brace Audio Corporation has been advised of the possibility of such damages. In no event will Brace Audio Corporation's liability exceed the amount paid by you for the product from direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its accompanying accessories, product packaging, or its documentation. Brace Audio Corporation does not offer refunds for any product. The foregoing limitations will apply even if any warranty or remedy provided under this Section fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to You.

In the unlikely occurrence the product proves defective during the warranty period please visit our web page at **http://www.braceaudio.com** for the most up-to-date method of return. With a validated warranty claim, Brace Audio Corporation will have the option to repair or replace with new or refurbished units. Should the product be discontinued and the unit cannot be repaired or replaced, Brace Audio Corporation at its sole option can choose to replace the product with a next generation product of similar capability. Be sure to keep your proof of purchase as it will be required to ensure proper warranty handling. Warranty return requests cannot be processed without proof of purchase. You are responsible for shipping charges related to the defective product(s) to Brace Audio Corporation. Brace Audio Corporation will pay for Ground shipping from Brace Audio Corporation back to You only.

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Usage notice:

The DWG-1000 transmits wireless signals and should only be used as instructed. Failure to use as instructed could expose the user to higher levels of radio emissions, even though the transmission levels of the DWG-1000 are low. The user should in no way try to alter the radio settings as provided by Brace Audio. Changes or modifications not expressly approved by Brace Audio could void the user's authorization to operate the equipment.

This product is intended for indoor use only, in that outdoor use may be in violation of local or country usage restrictions. Consult your local rules regarding outdoor use before using product outdoors.

Product Support**:** For Technical Support or for help not available in this manual, see the brace audio website at www.braceaudio.com

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 Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Notice (United States):

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 commercial 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 the 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.

Industry Canada Notice (Canada)

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Notice (European Notice):

The Conformité Européne symbol found on this product indicates compliance to the EMC Directive and the Low Voltage Directive of the European council Directives 1999/519/EC, 2006/95/EC, 2004/108/EC and 1999/5/EC, listed below:

EN 300 328 V1.7.1 (2006-10), EN 301 489-1 V1.7.1 (2007-04), EN 301 489-17 V1.3.2 (2008-04), EN 60065:2002 + A1:2006, EN 50392:2004

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