



LIMITED WARRANTY

Brace Audio Corporation warrants to the original end user purchaser ("You") that, for a period of **one year**, (the "Warranty Period"), your Brace Audio Corporation product will be free of defects in materials and workmanship under NORMAL intended use. Warranty coverage does not extend to accident or abuse including, but not limited to, dropping, stomping, smashing, lightning on fire or other rock-n-roll histrionics. 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 falls 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. We hope you appreciate that we referred to you as "Your" throughout this onerous and legally required document. You Rock!

DWG1000

Digital Wireless Guitar System

User Guide



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Made in the USA



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

Common instrument cables can also contribute to signal loss, which is why the DWG-1000 is recommended for all guitarists and bassists - 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 digital audio. Brace Guitar Cable Emulation™ models the highest quality 15 foot cable. 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. Up to four receivers and 12 transmitters per receiver* can operate on a stage, so everyone in the band can use one!

*One Tx per Rx at a time.

What's in the box?

Your DWG-1000 Digital Wireless Guitar System contains:

- 1 - Transmitter (Tx / Gray Unit)
- 1 - Receiver (Rx / Dark Green Unit)
- 1 - AC Adapter (for Rx)
- 2 - 1/4" to 1/8" Guitar Cables
- 2 - Belt Clips
- This User Guide (Duh...)

Quick Start

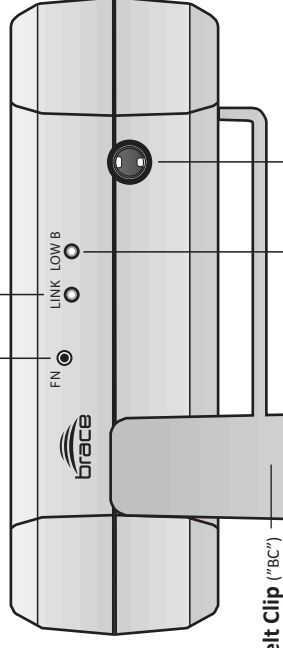
- 1) Register your product at <http://www.braceaudio.com>
- 2) Use batteries for the Receiver (Rx) or connect the AC Adapter.
- 3) Plug cable from Receiver (Rx / Dark Green) Audio Out into your amplifier input. If audio buzz is heard, move the unit to a new location.
- 4) Plug cable from your guitar into Transmitter (Tx / Gray) Audio In.
- 5) Each system is a pre-linked pair so there is nothing to do but confirm that the Link LED lights solid on both the Tx and RX units to show a successful wireless connection.
- 6) You are now ready to rock! (Or jazz...)

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.

Transmitter

Transmitter (Tx / Gray Unit)

- 1. Function Button ("FN")**
Press the Function Button to initiate Mating Function if necessary. (see section, **Changing Channels**). Use the end of an unfolded paper clip to access the button.
- 2. Link LED ("LINK")**
The LED lights solid when a wireless connection is made between the Tx and Rx units, and pulses when finding a connection to one of over 65,000 channels (1)



- 5. Belt Clip ("BC")**
- 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 ("That Hole")**
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

Receiver (Rx / Dark Green Unit)

1. Link LED ("LINK")

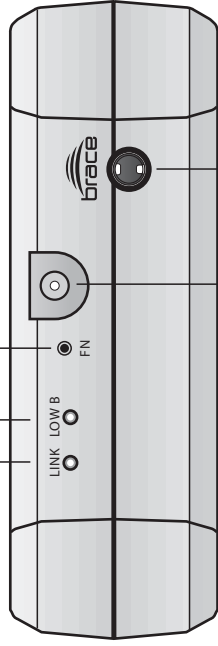
The LED lights solid when a wireless connection is made between the Tx and Rx units, and pulses when finding a connection to one of over 65,000 channels (!)

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 initiate Mating Function if necessary. (see section, **Changing Channels**). Use the end of an unfolded paper clip to access the button.



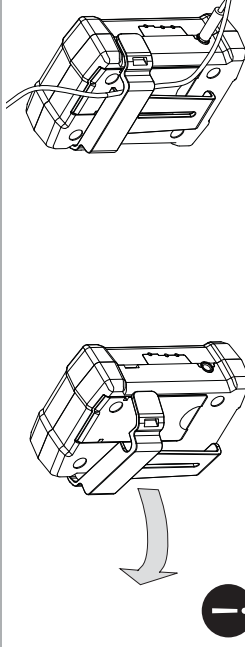
5. Jack for AC Adapter

Use only the Brace Audio supplied or recommended power supply. Approved replacement AC Adapters are listed at www.braceaudio.com/Products

3V DC, 500mA Regulated AC Adapter

Polarity: Tip Positive (+)
Adapter size 2.3 mm outside diameter, 0.7 mm inside diameter

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

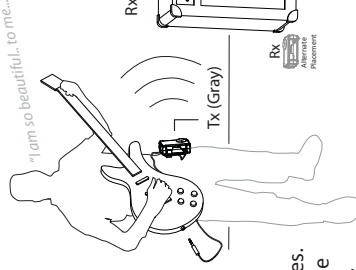
Transmitter (Tx / Gray Unit)

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 or on the stage. Alternatively you could place the Rx unit as the first device in-line with your stomp boxes. You'll get the same great performance with the placement and set-up that works best for you.

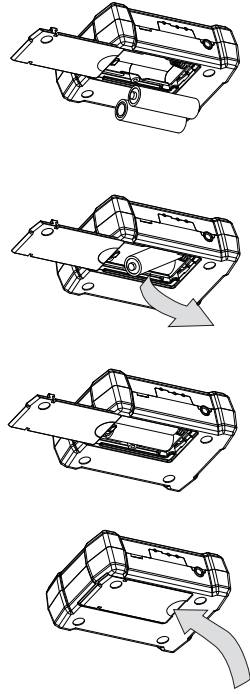
Performance may vary depending on location & environment. Not to mention how much you practice...



Low Battery 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.

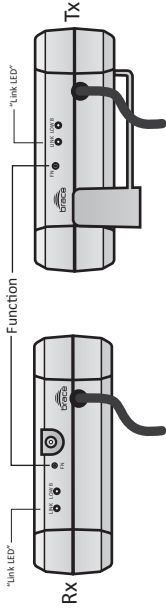
AC Adapter

The DWG-1000 Receiver (Rx) can be operated with the supplied AC adapter or two AA batteries. The provided AC adapter accepts input voltages from 110V - 220V. Connect the AC adapter's power cord to the Rx AC adapter power input jack.

If you always intend to power the Rx from the AC Adapter, remove the batteries.

Changing Channels

DWG-1000 system components are linked at the factory. In the rare event that 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 wireless system. The **RF Mating** feature enables you to switch to one of over 65,000 non-competing channels. To switch channels, use an unfolded paper clip to depress the Function Buttons.

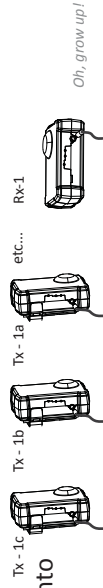


- 1) Plug guitar cables into each unit to turn them on, (snicker) and place the Rx and Tx units close to each other. (Don't stare. They're shy...)
- 2) On the Receiver unit (RX/Dark Green) press in the Function Button and hold until the Link LED blinks rapidly. Release the button at this point. RF mating has been initiated 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, turn the units off (unplug the cables) and they will retain their new mating ID; even after changing batteries. Future frequencies may vary based on location, so tattoos are not advised, though flowers and breakfast in bed would be a nice touch.

Configuring Multiple Transmitters

Up to 12 DWG-1000 TX transmitters can be associated, or bonded, to each receiver. **But it's only one Transmitter at a time!** This is very cool for having your entire rack of axes hooked-up and ready to go; live or in the studio.



! Plug cables into all units first!

1. Place Tx-1a close to the receiver. Push and hold the paperclip button on transmitter unit 1a until the link LED blinks rapidly.
2. Place Tx-1b close to the receiver. Push and hold the paperclip button on transmitter unit 1b until the link LED blinks rapidly.
3. Continue for all remaining transmitters you want to configure...
4. Push and hold the paperclip button on the single receiver unit until the link LED blinks rapidly. **You must press the Rx button last, or things won't work!**
5. Wait until the link LED's go solid on all the units and then you are done.

All the transmit units are now bonded to the single receiver; even after they are shut off. If you change batteries, they will still be bonded. The bonded channel number is a random value of 1 - 65,536. This allows multiple band members to bond their transmitters to their own receivers without worrying that there will be a conflict on a band-mate's channel.

Please note: You cannot use more than one of the bonded transmitters at a time. If you do, two (or more) bonded channels will collide with each other. Life as we know it - could come to an end, and it would be your fault. And future authorities will find out who you were, because you registered your rig at www.braceaudio.com. So, one axe at a time, please. The World thanks you...

Always unplug the transmitter(s) that you are NOT using, to prevent problems when switching to your next axe!

Technical Specifications

Transmitter (Tx)

- RF Output Power: 16 dBm
- Maximum Input Level: 1V RMS
- THD: < 2% @ 800 mV pp 1kHz tone
- S/N Ratio: 100 dB
- Battery Life: 5 hours (AA size battery)
- Input Jack: 1/8" (3.5mm), mono
- System Gain: 1:1 (unity)
- Wireless Frequency: 2.4 GHz, FHSS
- Input Impedance: 600K ohm
- Operating Power Voltage: 3.0V Nominal
- Audio Frequency Response: 15Hz - 15kHz
- Low Battery Alert: 15 minutes of life left
- Antenna: Internal
- Tx's per Receiver (one at a time): 12

Receiver (Rx)

- Wireless Frequency: 2.4 GHz, FHSS
- AC Adapter: 110V-220V - 3V, 500mA
- Output Jack: 1/8" (3.5mm), mono
- Battery Life: 7 hours (AA size battery)
- Receivers operating at same time: 6
- Cables: 1/8" - 1/4"

Company Contact Information

- For technical assistance or support, please contact your local dealer or go to www.braceaudio.com for more information. Don't forget to register your product on-line too!

Brace Audio
 15600 NE 8th St, Suite B1, 287
 Bellevue, WA 98008

made in the USA

Declaration of Conformity



Declaration of Conformity

Brace Audio Corporation declares that the equipment described in this document is in conformance with the requirements 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 V1.8.1 (2008-04),
- EN 301 489-17 V1.3.2 (2008-04),
- EN 60065:2002 + A1:2006,
- EN 50392:2004

CE06810!

All essential radio test suites have been carried out.

Product Description: **Digital Wireless Guitar System**
 Model: **DWG1000**

This declaration is issued under the sole responsibility of Brace Audio Corporation and, if applicable, their authorized representative(s)

David Stokes, CEO/President

July 31, 2008

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Identification Number: 0681

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440 Boulder Court
Suite 200
Pleasanton, CA 94566
USA

Brace Audio Corporation
15600 NE 8th St, Suite B1, 287
Bellevue, WA 98008 USA
www.braceaudio.com

Usage Notice



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 Européenne 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 V1.8.1 (2008-04), EN 301 489-17 V1.3.2 (2008-04), EN 60065:2002 + A1:2006, EN 50392:2004