

 Nakamichi

# DRAGON

Modular 12" Subwoofer Expansion



**Owner's Manual**



## Dear Valued Owners of DRAGON

# Congratulations on bringing home the best subwoofer ever built for a plug-and-play home surround sound system!

Your continued faith in Nakamichi means the world to us.

Half a decade ago, we had a vision: to create the ultimate home cinema solution that would live up to the DRAGON legacy. The DRAGON Home Surround Sound System was designed to fulfill that vision.

The 12" subwoofer represents our commitment to passionate fans seeking authoritative bass that competes with dedicated high-end wired setups. It is designed to propel DRAGON even further beyond the perceived limitations of plug-and-play home entertainment.

Our team is dedicated to your satisfaction, and we take your feedback and suggestions seriously. If there is anything we can ever do better, please do not hesitate to contact our DRAGON Concierge:

✉ : [dragonconcierge@nakamichi-usa.com](mailto:dragonconcierge@nakamichi-usa.com)

☎ : +1 (415) 888 9626

Sincerely,

*Rayman Cheng*

**Rayman Cheng**, CEO of Nakamichi USA

# Important Safety Instructions

DRAGON is designed and manufactured to operate within defined design limits, and misuse may result in electric shock or fire. To prevent DRAGON from being damaged, the following rules should be observed for its installation, use and maintenance. Please read the following safety instructions before operating DRAGON. Keep these instructions in a safe place for future reference.

- Read, keep and follow all instructions.
- Heed all warnings.
- Do not use DRAGON near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from DRAGON.
- Only use attachments / accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with DRAGON. When a cart is used, use caution when moving the cart / DRAGON combination to avoid injury from tipover.
- Unplug DRAGON during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when DRAGON has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into DRAGON, DRAGON has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to DRAGON.
- Unplug the power cord before cleaning DRAGON. A damp cloth is sufficient for cleaning. Do not use a liquid or a spray cleaner on DRAGON. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to ensure compatibility.
- When moving DRAGON from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on DRAGON to avoid causing fire, electric shock, or component damage.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of DRAGON and to protect it from overheating, be sure these openings are not blocked or covered. Do not place DRAGON in a bookcase or cabinet unless proper ventilation is provided.
- Never push any objects into the slots and openings on DRAGON's enclosure. Do not place any objects on the top of DRAGON. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on DRAGON.
- When connected to a power outlet, power is always flowing into DRAGON. To totally disconnect power, unplug the power cord.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- For 12" subwoofer(s): Do not set the voltage selector switch to the wrong voltage. Doing so will result in damage not covered by warranty and could result in fire or electric shock.
- The wall socket should be located near DRAGON and be easily accessible.
- Keep DRAGON away from moisture. Do not expose DRAGON to rain or moisture. If water penetrates into DRAGON, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use DRAGON if an abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair DRAGON yourself.
- Avoid using dropped or damaged appliances. If DRAGON is dropped and the housing is damaged, the internal components may not function normally. Unplug the power cord immediately and contact your dealer for repair.
- Continued use of DRAGON after an abnormality occurs or if the housing is damaged may cause fire or electric shock.
- Do not install DRAGON in an area with heavy dust or high humidity. Operating DRAGON in environments with heavy dust or high humidity may cause fire or electric shock.
- Ensure that the power cord and any other cables are unplugged before moving DRAGON.
- When unplugging DRAGON, hold the power plug, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When DRAGON will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert the remote control batteries in accordance with instructions. Incorrect polarity may cause the battery to leak which can damage the remote control or injure the operator.
- The marking label of the subwoofer is located on the external bottom enclosure of the product.
- The equipment shall be used at maximum 95°F ambient temperature.
- See the important note and rating located on the back of the unit.
- **WARNING** - This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near the equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.
- To prevent injury, DRAGON must be securely attached to the floor / wall in accordance with the installation instructions.
- **CAUTION** - Danger of explosion or fire if batteries are mistreated. Replace only with the same or specified type.
- Do not leave the batteries exposed to direct sunlight for a long period of time with doors and windows closed. Do not disassemble the batteries or dispose of them in fire. Where the MAINS plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

**WARNING:** To reduce the risk of fire or electric shock, do not expose DRAGON to rain or moisture.

# Important Safety Instructions



There are no user serviceable parts inside the subwoofer. Never attempt to service the subwoofer or disassemble the backplate.



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert user to the presence of not isolated dangerous voltage within the product that may be of sufficient magnitude to constitute a risk of shock to persons.



The exclamation point within the equilateral triangle is to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.



Warning: This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.



## Correct disposal of this product (Waste Electrical & Electronic Equipment)

This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling help protect natural resources, human health and the environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.



## For Products That Include Batteries: Instructions for Users on Removal, Recycling and Disposal of Used Batteries.

To remove the batteries from your equipment or remote control, reverse the procedure described in the owner's manual for inserting batteries. For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers. In the European Union and other locations, it is illegal to dispose of any battery with household trash. All batteries must be disposed of in an environmentally sound manner. Contact your local waste-management officials for information regarding the environmentally sound collection, recycling and disposal of used batteries.

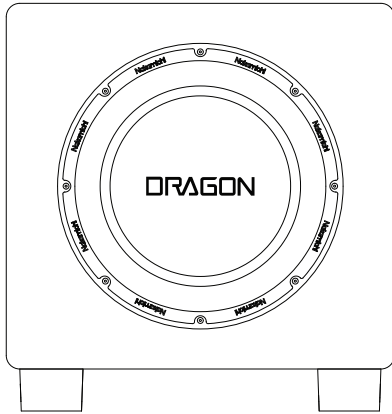
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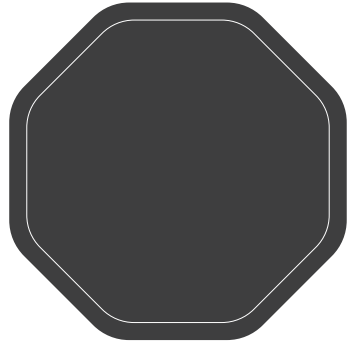
SECTION 1

**MEET THE 12"**

# 1.1 Package Contents



12" Subwoofer x 1



Removable Subwoofer Grille x 1



✓ TEAM LIFT ONLY ✓



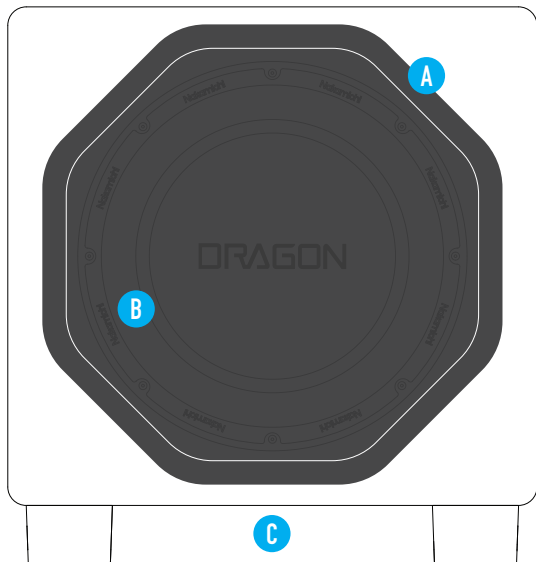
Subwoofer Power Cable x 1  
(Length: 10 ft each)



USB Drive  
(For Main Unit Firmware Upgrade)



# 1.2 Features and Connections



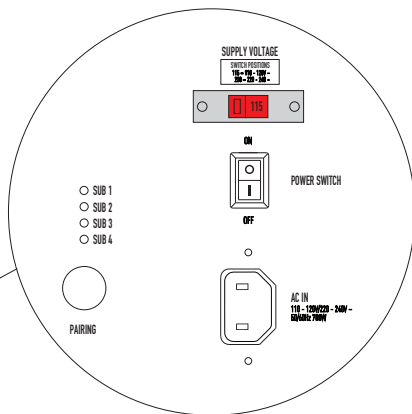
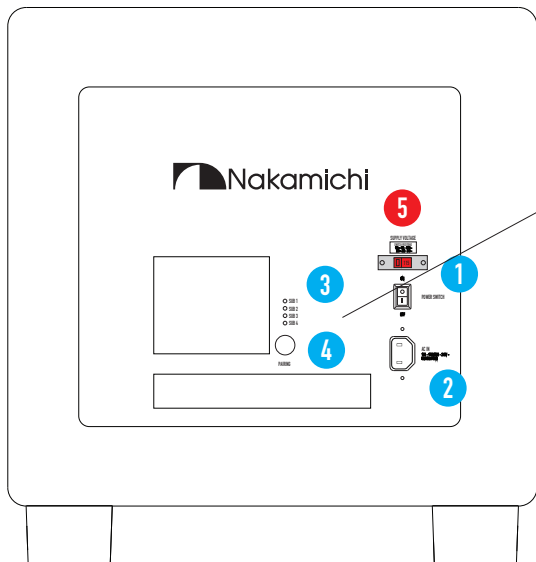
## A Removable Subwoofer Grille

The grille is held in place by magnets. To remove it, gently pull it away from the unit with your fingers.

Do not use sharp objects to detach the grille.

## B 12" Carbon Fiber-Reinforced Aluminum Subwoofer Driver

## C 12" Carbon Passive Radiator



## 1 Power Switch

## 2 Power Port

## 3 Pairing Status Indicator

Indicates the number assigned to your subwoofer (See pg 16)

## 4 Pairing Button

## 5 Voltage Selector Switch

**IMPORTANT: Residing Outside the USA?**  
 Before connecting subwoofer to power, slide the voltage selector to the correct setting for your country.

**United States:** 115V (DEFAULT)  
**Europe / United Kingdom:** 230V (Countries with 220-240V AC)

Damage resulting from incorrect voltage selection will not be covered by warranty.

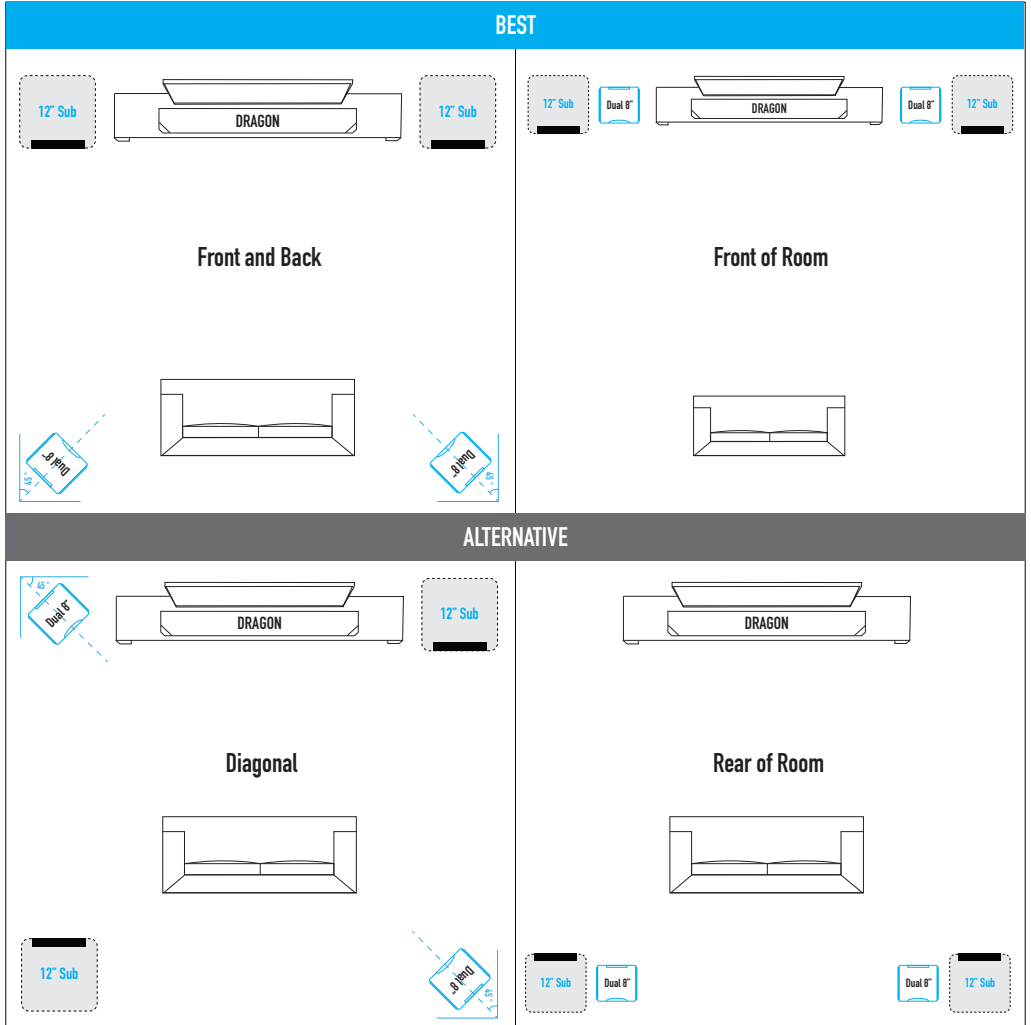
SECTION 2

# SET UP AND PAIRING

# 2.1 Recommended Placement

For optimal bass, place 12" subwoofers in the front or back corners of the room.

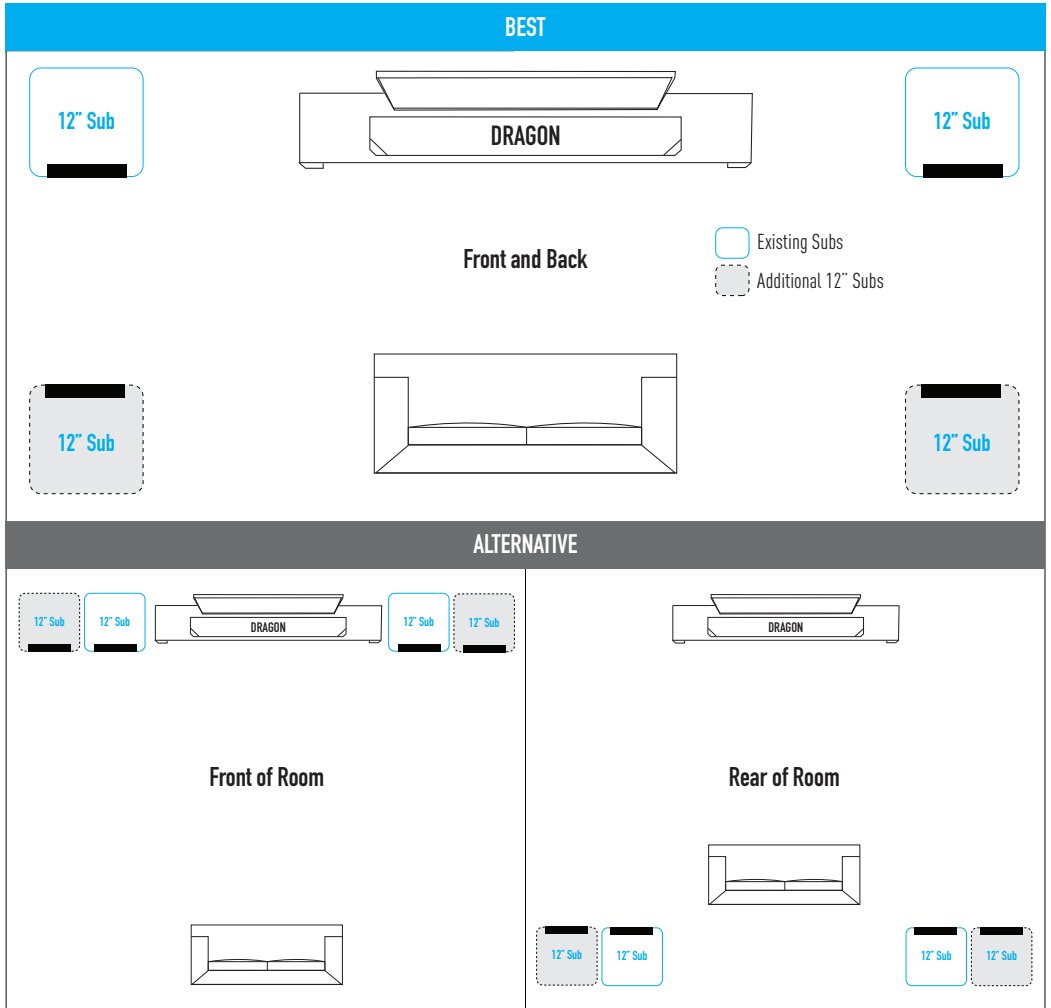
Existing Configuration: DRAGON System With Original 8" Subwoofers x 2



Avoid placing items on the subwoofer to prevent them from falling due to vibrations.

# 2.1 Recommended Placement

Existing Configuration: DRAGON System with 12" Subwoofers x 2



Avoid placing items on the subwoofer to prevent them from falling due to vibrations.




## 2.2 Upgrade System Firmware

Use the included USB drive to update your DRAGON. You must upgrade your firmware to FW 3.0 or above to add support for 12" subwoofers and pair up to 4 subwoofer cabinets.

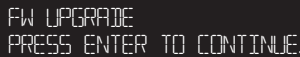
### Check Firmware Version

1. Press "🏠 HOME" on your remote to show the On-Screen Display (OSD) on TV.
2. Navigate to the System tab.
3. The current firmware version is shown under 'Firmware Upgrade'.

### Upgrade DRAGON

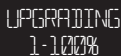
-  Before initiating the upgrade, capture a photo of your calibration and favorite settings from the On-Screen Display (OSD). All room calibration and memory settings will be erased as part of the upgrade process.
-  Ensure your surround speakers, subwoofers, and Bluetooth remote control are powered on and connected before running a firmware upgrade, as they can be upgraded wirelessly. During the update, watch for flashing pairing lights on DRAGON's components.
-  **DO NOT TURN OFF any DRAGON components** or press remote control buttons during the upgrade process, even if the LED display shows no progress. This could damage the unit, which is not covered by warranty. The upgrading process can take up to 30 minutes.

- A. Power on DRAGON. Using the remote, press USB to switch to USB mode.
- B. Plug in the USB drive to the back of DRAGON main unit.
- C. The main unit's LCD display will show a prompt.




FW UPGRADE  
PRESS ENTER TO CONTINUE.

- D. Press ENTER to begin the upgrade.




UPGRADING  
1-100%

After the firmware upgrade has finished, the main unit will reboot automatically.

-  If the firmware upgrade prompt does not appear, press HOME to open the OSD. Navigate to System > 'Firmware Upgrade'. Press ▶ to select 'Upgrade'. Then, press ENTER to start the upgrade.

### Perform a Full Factory Reset

1. While DRAGON is powered on, tap and hold ⏻ on the main unit until "FACTORY RESET" appears. The system will power off.
2. Wait for a few seconds. Press ⏻ to turn DRAGON on.
3. Firmware upgrade complete!

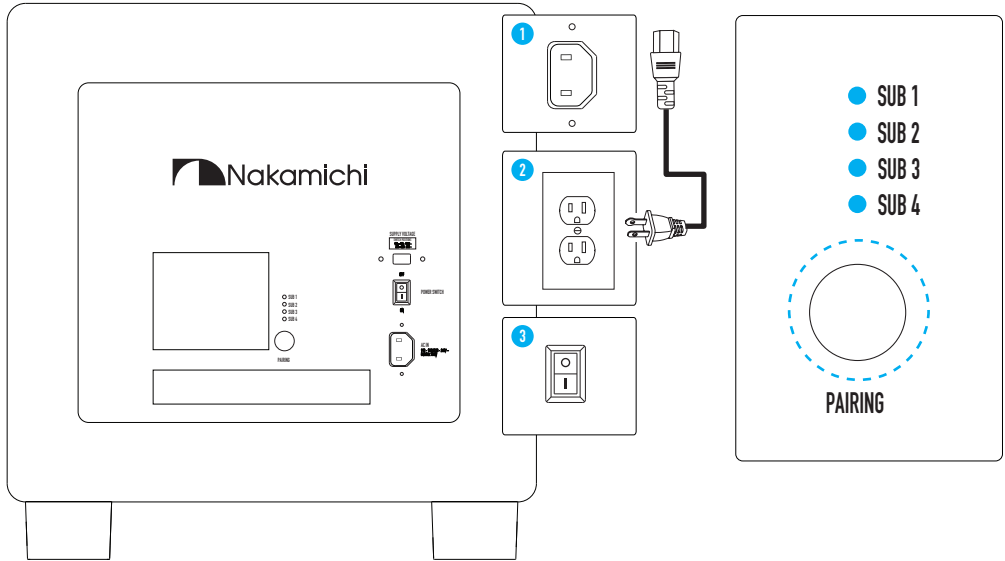
-  Check that all original subwoofers are connected. If any are disconnected, re-pair them. View pairing steps here.



## 2.3 Pair Your 12" Subwoofer

1. Connect the 12" subwoofer to power. Toggle the switch to "ON".

2. Press and hold the pairing button behind the subwoofer until the blue LEDs blink rapidly.



The subwoofer will stay in pairing mode for 120 seconds. Complete the remaining steps within this timeframe.

3. Press and hold **⏻** on top of the main unit for 8 seconds while system is on.



The main unit will display **WIRELESS PAIR**, followed by **SELECT PAIRING OPTION**.

4. LED will display these options:

- > **8 + 12 SUBS**: For a system with a mix of cabinet types.
- > **ALL 12 SUB**: For a system with 12" subwoofers only.
- > **ALL 8 SUB**: For a system with dual-opposing 8" subwoofers only.
- > **SURR SPKR**: For re-pairing surround speakers only.

Press **▲▼** on your remote to select your desired pairing option. Then, press **ENTER**.

- > **8 + 12 SUBS**
- > **ALL 12 SUB**

- > **ALL 8 SUB**
- > **SURR SPKR**

# 2.3 Pair Your 12" Subwoofer

5. The main unit will search for a subwoofer. Once paired, the display will show:



3 Subwoofers Connected



4 Subwoofers Connected



LS and RS represent Left and Right Surround Speakers.  
W1234 represents the number of SubWoofers connected to your system.



The system must be on FW 3.0 or above. If not, the 12" subwoofer will not pair and main unit display won't show the text above.

A solid blue LED on the subwoofer indicates successful pairing with the main unit.

6. To pair another subwoofer, repeat the steps above. Up to 4 subwoofer cabinets can be paired.

7. If any 12" subwoofer fails to pair, the total number of subwoofers shown may not match. Alternatively, you might see this on the main unit display:



Only the Left / Right Surround (LS, RS), and  
Left / Right original 8" subWoofers (LW/RW) are connected.

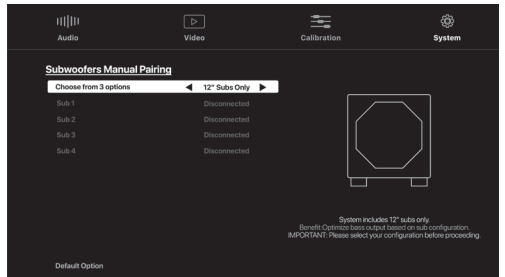
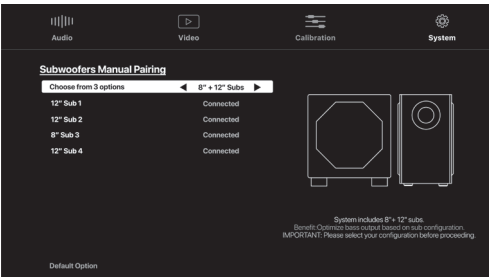
If the above steps do not result in successful pairing:

- Ensure the correct subwoofer configuration has been selected in step 4.
- Adjust the wireless frequency or increase frequency strength. See Section 5.3 pg 30-31. Then, retry steps 2-5.
- Temporarily move the unpaired subwoofer closer to the main unit. Retry steps 2-5.

## Prefer to use the OSD?

Under the System Tab, select 'Subwoofers Manual Pairing'. Use ◀▶ to select your desired subwoofer configuration. Then, follow on-screen instructions to pair your 12" subwoofer.

(Options: 8" + 12" Subs, 12" Subs Only, 8" Subs Only)



Disclaimer: Diagrams included in the manual are for illustration purposes only. Actual image and text may vary.

## 2.3 Identify Your Subwoofer

### Method 1: Check LED Lights on the Back of the Subwoofer

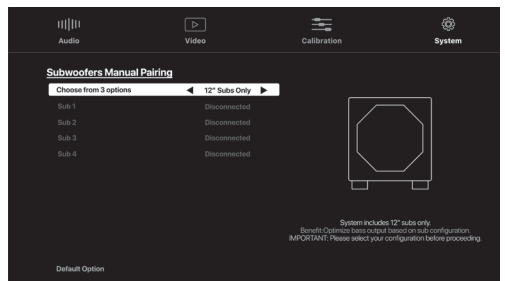
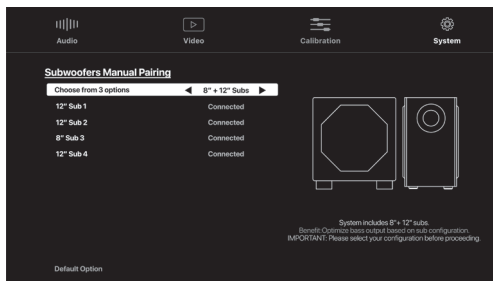
The LED indicators on the 12" subwoofer show its assigned number:

Subwoofer #1	Subwoofer #2	Subwoofer #3	Subwoofer #4

- When 12" subwoofer(s) are added to a system with a pair of original 8" subwoofers:
  - The original 8" subwoofers will always be assigned as subwoofer 3 or 4.
  - The 12" subwoofer(s) will always be assigned as subwoofer 1 or 2.
- If the system only has 12" subwoofers connected (or in other circumstances), the number assigned to each subwoofer will be random and may not be in numerical sequence. This is normal and will not affect system performance.

### Method 2: Via the On-Screen Display (OSD)

- Press the "HOME" button to display OSD on TV.
- Navigate to System > 'Subwoofers Manual Pairing'. Press ENTER.



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- For DRAGON Owners with the original 8" subwoofers x 2:
  - If only one 12" subwoofer has ever been connected, subwoofer 2's pairing status will show "N/A".
  - If two 12" subwoofers have been connected previously, but only one is currently connected, subwoofer 2's pairing status will show "Disconnected".
- When using DRAGON's HDMI inputs, you can also check the number of subwoofers connected. To do so, press the INFO button to call up the popup OSD.



SECTION 3

# OPTIMIZE PERFORMANCE

# 3.1 Placement Tips

## Use Corner Placement for Maximum Bass Presence

Corner placement optimizes subwoofer performance by minimizing acoustic cancellation points (dead spots), ensuring effective bass production below 40Hz.

**Prioritize placing your 12" subwoofer(s) at the corners of your room.**

Refer to Section 2.1, pg 11-12 for suggested placement layouts.

## Fine-Tune Corner Placement

Play music with a familiar bassline on loop. Move your 12" subwoofer diagonally from the corner, equidistant from both side and rear walls.

Listen to the bass response. Adjust the subwoofer position incrementally until you find one that offers lower and louder bass. Settle on the optimal placement.

**Typically, the subwoofer will be a few inches away from the walls of your room.**

## Alternative Placements

Every room responds differently to subwoofer placements. If corner placement doesn't provide optimal bass response or isn't feasible, perform a subwoofer crawl to find alternative positions:

- Place the subwoofer at your listening position.
- Play music with a repeating bass line on loop.
- Evaluate bass quality at each potential location by squatting and keeping your head near knee level while listening.
- Place your subwoofer in locations in the room that provided the most accurate sounding bass to your ears.



Once you have found the best subwoofer location in the room, try shifting your listening position a few inches closer or away from the wall. Small changes in the seating location can further optimize the perceived bass response.

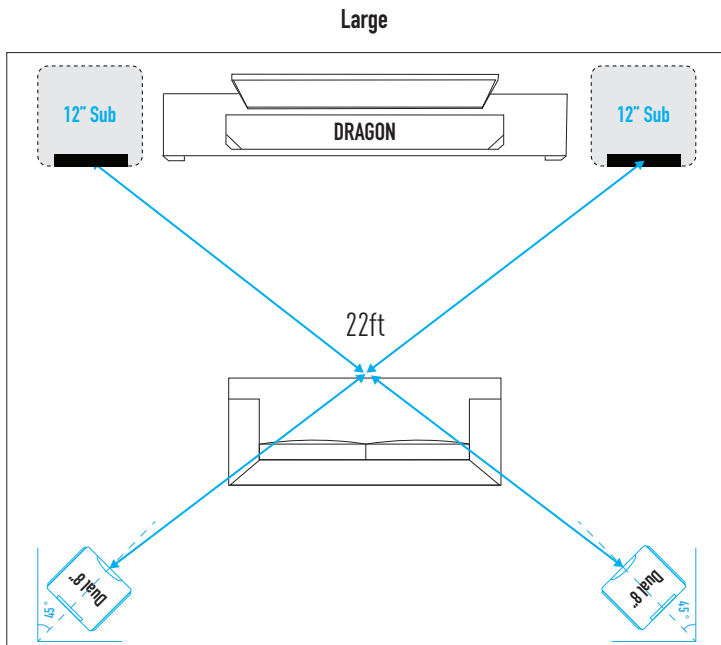
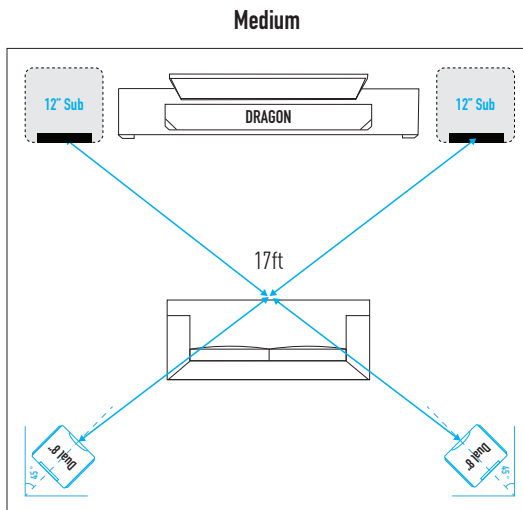
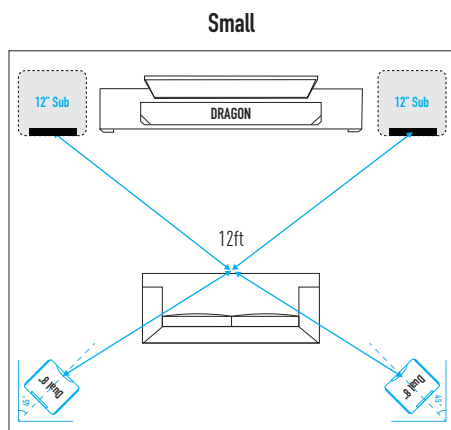
## 3.2 On-Screen Display – Calibration Settings

The Calibration tab provides the option to customize DRAGON's playback to better suit your listening environment.

### A. Easy Sound Setup

Easy sound setup customizes and delivers instant room calibration for most rooms.

1. Press the "HOME" button to display OSD on TV.
2. Use the navigation keys to access the Calibration tab.
3. In 'Easy Sound Setup', use ◀/▶ to select the option closest to your room size for the average subwoofer distance (see diagrams below).
4. Press ENTER to apply.



# 3.2 On-Screen Display – Calibration Settings

## B. Room Size Calibration

Under 'Advanced Sound Setup', advanced users can access a wide range of calibration options to optimize DRAGON's output to their listening environment.


This sub-category allows you to manually input the distances based on your room environment.

### Configure your setup

1. Use ▲▼▶◀ to enter your room size.


### Save your setup

1. Scroll down 'Save Custom Room Size'. Scroll ▶ to select 'Yes'.
2. Press ENTER to save your custom room size configuration.

-  When 12" subwoofer(s) are added to a system with a pair of original 8" subwoofers:
  - The original 8" subwoofers will always be assigned as subwoofer 3 or 4.
  - The 12" subwoofer(s) will always be assigned as subwoofer 1 or 2.
- If the system only has 12" subwoofers connected (or in other circumstances), the number assigned to each subwoofer will be random and may not be in numerical sequence. This is normal and will not affect system performance.

Speaker Unit	Distance to	Range / Placement
Main Unit	Listening Area	5.0 - 25.0 ft+
	Side Wall (Left / Right)	1.0 - 15.0 ft+
	Ceiling	2.0 - 20.0 ft+
	Surround Speakers	5.0 - 30.0 ft+
Subwoofers	Listening Area (Sub 1)	2.0 - 25.0 ft+
	Listening Area (Sub 2)	2.0 - 25.0 ft+
	Listening Area (Sub 3)	2.0 - 25.0 ft+
	Listening Area (Sub 4)	2.0 - 25.0 ft+
Surround Speakers	Listening Area (Left)	2.0 - 15.0 ft+
	Listening Area (Right)	2.0 - 15.0 ft+

Precision: 0.1ft

-  You can also adjust using metric units (meters). Go to the System tab to change measurement units. You can also restore default room size settings (last option in this sub-menu). When this option is selected, the distances appropriate for a medium room will be applied.

# 3.2 On-Screen Display – Calibration Settings

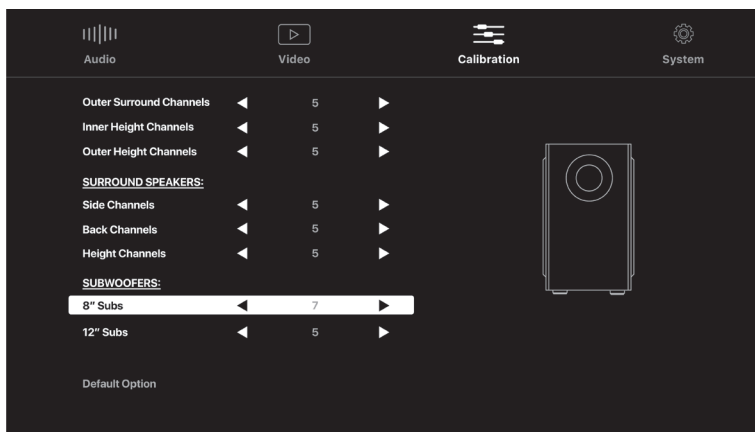
## C. Volume Level Calibration

In the Calibration tab under 'Advanced Sound Setup', select 'Volume Level Calibration' to further adjust the volume of each subwoofer type.

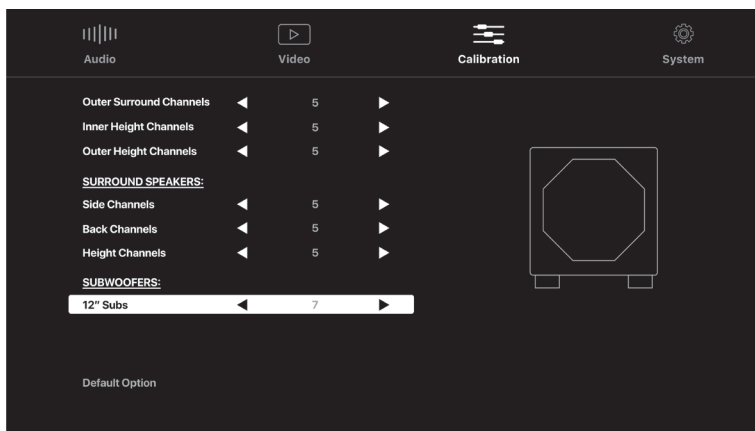
The subwoofer volume level operates independently from the bass level on your remote.

**Default volume level for each subwoofer type when a 12" subwoofer is connected: 7**

Press "HOME" to exit the OSD.



For systems with a mix of subwoofer types



For systems with 12" subwoofers

Disclaimer: Diagrams included in the manual are for illustration purposes only. Actual image and text may vary.

# 3.3 On-Screen Display – Audio Settings

Utilize a combination of these settings to fine-tune the bass response of DRAGON.

## Subwoofer Crossover

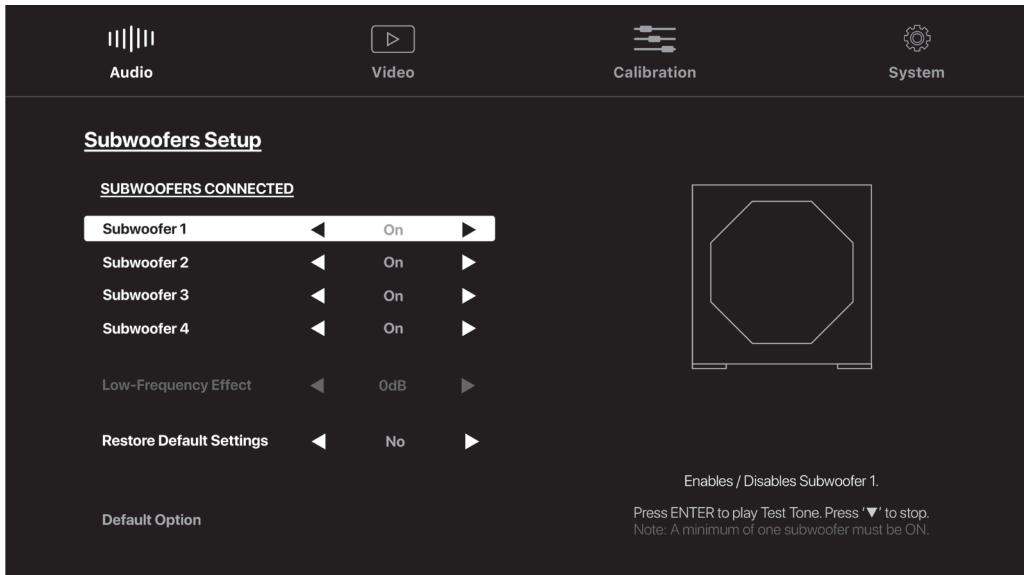
- Under the Audio tab, select 'Advanced Audio Settings'.
- The 'Subwoofer Crossover' adjusts the highest bass frequencies that the subwoofer(s) will play. (Options: 120 - 200Hz, in 10Hz increments)

## Subwoofers Setup

1. In the OSD Audio tab,
  - A. Go to 'Audio Setup'. Press ENTER.
  - B. Select 'Subwoofers Setup'. Press ENTER.
2. These settings allow you to adjust the number of active subwoofers.

Use the 'Low-Frequency Effect' adjustment to decrease low-frequency effects volume (Default = 0dB).

If the bass feels too overpowering, adjust by 1-3 dB. Test with low-frequency content to fine-tune subwoofer and EQ controls to achieve your preferred bass response.



Disclaimer: Diagrams included in the manual are for illustration purposes only. Actual screen text may vary.

# 3.4 Care and Maintenance

Clean the 12" subwoofer with a microfiber cloth only. Avoid abrasive cleaners, harsh detergents, and water.

**SECTION 4**

# **PRODUCT INFORMATION**

# 4.1 Specifications and Glossary

Subwoofer Driver and Power	
Subwoofer	12" Carbon Fiber-Reinforced Aluminum Subwoofer Driver 12" Carbon Passive Radiator
Frequency Response	19Hz - 200Hz
Peak Power	750W

Miscellaneous	
Display Functionality	Pairing LEDs that indicate the assigned subwoofer number
Power Input	110 - 120V, 50/60Hz (Default) 220 - 240V, 50/60Hz (Check voltage selector switch before use. See Pg 9.)
Dimensions and Weight	20.1 x 16.9 x 18.1 inch / 80lbs

## Glossary

### On-Screen Display (OSD)

An OSD allows you to control the surround system with ease, displaying all settings on a user-friendly interface. DRAGON's OSD includes helpful visuals to aid with each adjustment option.

### Passive Radiator

Converts the air pressure changes caused by a subwoofer driver in the same cabinet into additional low-frequency output, just like a subwoofer port.

### Room Calibration

Calibration optimizes the level and timing of different sonic frequency ranges to your room placement. Easy sound setup is recommended for basic users. Advanced room calibration is available for prosumers.

### Subwoofer Crossover Frequency

Adjusting the subwoofer crossover directs bass frequencies to the subwoofer, blending seamlessly with main speakers and optimizing sound balance.

### Volume Level Calibration

Volume Level Calibration allows advanced users to use a sound pressure level meter at their primary listening position to calibrate each speaker to their room for theater-like sound.



# 4.2 Legal and Compliance

## Model No.: Nakamichi DRAGON 12" Subwoofer Modular Expansion

### FCC Compliance Statement:

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.

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 equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

### Class B FCC Statement

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 of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and receiver.
- Connecting the equipment to an outlet that is on a different circuit than the radio or TV.
- Consulting the dealer or an experienced radio/TV technician for help.

Hereby, Nakamichi LLC declares that the radio equipment type NAKAMICHI DRAGON 12" SW is in compliance with Directive 2014/53/EU as well as UK Radio Equipment Regulations SI 2017 No.1206. The full text of the EU/UK declaration of conformity is available at the following internet address: <https://dragon.nakamichi-usa.com> for CE and for UK.

## 4.2 Legal and Compliance

**Use Restriction** Attention in European Union, operation is limited to indoor use.

Radio Network	Frequency Bands	Transmitting Power
Wireless	5725 - 5825MHz	11.62dBm/14.52mW

SECTION 5

# SUPPORT

# 5.1 Warranty Information

## LIMITED WARRANTY (U.S. Only)

Nakamichi LLC ("Nakamichi") warrants this product against defects in material or workmanship for the time periods as set forth below. Pursuant to this Limited Warranty, Nakamichi will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. In the event of a defect, these are your exclusive remedies.

**Labor:** For a period of one (1) year from the original date of purchase of the product ("Labor Warranty"), Nakamichi will, at its option, repair or replace with new or refurbished product, product determined to be defective. If Nakamichi elects to replace the product after this Labor Warranty has expired but while the Parts Warranty below is still in effect, it will do so for the applicable labor charge.

**Parts:** For a period of one (1) year from the original date of purchase of product ("Parts Warranty"), Nakamichi will supply new or refurbished replacement parts in exchange for parts determined to be defective.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty. Please refer to the End User License Agreements included with the Product for your rights and obligations with respect to the software.

**Instructions:** To obtain warranty service, you must deliver the product, freight prepaid by product owner, in either its original packaging or packaging affording an equal degree of protection to the Nakamichi authorized service facility specified. It is your responsibility to backup any data, software or other materials you may have stored or preserved on DRAGON. It is likely that such data, software, or other materials will be lost or reformatted during service and Nakamichi will not be responsible for any such damage or loss. A dated purchase receipt is required.

**Repair / Replacement Warranty:** This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of Nakamichi.

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary consumer use; it does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, misuse, limitations of technology, or modification of or to any part of the Nakamichi product. This Limited Warranty does not cover Nakamichi products sold AS IS or WITH ALL FAULTS or consumables (such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the product.

This Limited Warranty is valid only in the United States. This Limited Warranty is valid only for Nakamichi products purchased from the following authorized retailers with a valid receipt stating date, product description and purchase price:

1. Amazon.com (under seller "Nakamichi LLC")
2. Best Buy
3. Ebay (under seller "nakamichi-usa")
4. B&H Photo Video
5. Nakamichi Official Web Store (store.nakamichi-usa.com)

**LIMITATION ON DAMAGES:** NAKAMICHI SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.

**DURATION OF IMPLIED WARRANTIES:** EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state.

## DRAGON CONCIERGE

If you have any questions or comments, you may reach us at the following:

Visit our website at [www.dragon.nakamichi-usa.com](http://www.dragon.nakamichi-usa.com)

Email us at [dragonvip@nakamichi-usa.com](mailto:dragonvip@nakamichi-usa.com)

Phone Support: +1 (415) 888 9626 (Weekdays 10am - 6:45pm PST; Saturday 10am - 4:45pm PST)

# 5.2 Subwoofer Optimization Tips

Room acoustics greatly affect your overall experience. Try these tips to maximize subwoofer performance.

Symptom	Remedy
Bass too overpowering	<p><b>Adjust Volume</b></p> <ol style="list-style-type: none"><li>Lower the bass level.<ol style="list-style-type: none"><li>On the remote, toggle the bass button down to adjust the level.</li></ol></li><li>Change EQ to Movie/Music 2 or 3.</li><li>Reduce the subwoofer volume level.<ol style="list-style-type: none"><li>Press "HOME" to access the OSD.</li><li>Navigate to the Calibration tab.</li><li>Select 'Advanced Sound Setup' &gt; 'Volume Level Calibration'.</li><li>Scroll down. Under 'SUBWOOFERS', press ◀ on your remote to decrease the volume of each connected subwoofer type. (Default: 7).</li></ol></li></ol> <p><b>Adjust Bass Tone</b></p> <ol style="list-style-type: none"><li>Lower subwoofer crossover frequency<ol style="list-style-type: none"><li>Press "HOME" to access the OSD.</li><li>Under the Audio tab, select 'Advanced Audio Settings'. Lower the subwoofer crossover frequency (default is 200Hz).</li></ol></li><li>Lower the volume level of Low-Frequency Effects (LFE)<ol style="list-style-type: none"><li>Press "HOME" to access the OSD.</li><li>Under the Audio tab, select 'Subwoofers Setup'.</li><li>Under 'Low-Frequency Effect', lower the volume level to your preference.</li></ol></li></ol> <p><b>Optimize Room Placement</b></p> <ol style="list-style-type: none"><li>Loop familiar content with a consistent bass line. Try shifting your subwoofers away from the corners of your room one inch at a time and observe if bass quality improves.</li></ol> <p>Tip: Use a combination of these settings to suit your listening preferences.</p>
Insufficient Bass	<p><b>Use Corner Placement</b></p> <p>Place the 12" subwoofer in the front or rear corners to maximize bass output and minimize dead spots.</p> <p><b>Check for Acoustic Cancellation</b></p> <p>Each room responds differently to subwoofer placement. Try turning off one or more subwoofers.</p> <p>If the bass improves, adjust their placement. See Section 2.1, pg 11-12 for placement ideas and Section 3.1, pg 18 for further tips.</p>

# 5.3 Help and Troubleshooting

## 1. I cannot pair the 12" subwoofer with my DRAGON

- Upgrade the firmware of your DRAGON to FW3.0 or later. Then, perform a factory reset. See Section 2.2, pg 13.
- Temporarily move the 12" subwoofer closer to the main unit and deactivate nearby routers or wireless transmitters using the 5.2 / 5.8 GHz bandwidth. Retry pairing the subwoofers.

## 2. No sound from subwoofer(s)

### A. Ensure power is connected

- i. Check that the power cord is securely plugged into the subwoofer's sockets and AC outlet.
- ii. Ensure the subwoofer(s) power switch is set to "ON" before powering on the main unit.

### B. Check wireless connection

- i. With the main unit on, ensure all subwoofer LEDs show solid blue lights.
- ii. If the back panel's LED is not solid, follow pairing steps in Section 2.2 and 2.3, pg 13 to 15.
- iii. If a sub does not power on or connect, disconnect its power for 5 minutes and retry.

### C. Soundcheck

- i. If all wireless components show solid blue lights when DRAGON is on, press DEMO button on the main unit to perform a soundcheck.

As part of the soundcheck, all connected subwoofers will play the Dolby Atmos Amaze and 747 surround soundtrack, as well as the "ALL SUBWOOFERS" diagnostic test track.

## 3. Subwoofer sound abnormalities

Cut out / crackling / popping / distortion: When there is a 5.8GHz wireless device in close range to DRAGON that is using the same frequency (e.g. Home Wi-Fi router), the main unit's wireless connection to the subwoofer and surround speakers may be affected. This can be resolved by adjusting the following settings:

### A. Remove any obstructions or potential sources of interference

- i. Remove any obstacles between the main unit and the affected wireless component.
- ii. Other devices sending radio frequency signals in proximity may interrupt the connection. Where possible, keep your speakers away from such devices.
- iii. Bring the subwoofers closer to the main unit. See Section 2.1, pg 11-12 for recommended placement.

### B. Change DRAGON's wireless channel

- i. Press the "🏠 HOME" button on your remote. Navigate to the System tab.
- ii. Go to 'Subs + Surr Wireless Freq' and change to either of the following:

Selection	Wireless Frequency (GHz)	Frequencies Occupied <sup>a</sup>
Default	5.8 GHz	Channels 149 - 163
Auto 1	5.2 GHz	Channels 32 - 50

## 5.3 Help and Troubleshooting

### Notes:

1. The default channel is optimized for avoiding wireless interference from external devices. If there is no audio popping / crackling / cut out from subwoofer(s) or surround speakers, it is recommended to keep using the default channel.
2. Changing the radio frequency channel and strength may affect the performance of other near wireless devices (e.g. wireless LAN) using the same frequency bandwidth.
3. DRAGON's wireless transmission will automatically analyze and use smaller range of frequency channels mentioned for the best wireless performance.

### C. Adjust your home's wireless router

Visit our Support Page to view recommended settings for your Wi-Fi router and optimize the performance of DRAGON's wireless communication. Scan the QR code on the right.

Wi-Fi optimization guide



### D. Change DRAGON's wireless strength

- i. Press the "HOME" button on your remote. Navigate to the System tab.
- ii. Go to "Wireless Freq Strength", change '2: Default' to '3' or '3+'.
- iii. Play content. Audio playback from subwoofer and surround speakers should be optimized now.

### 4. How can I find my 12" subwoofer(s) assigned number in OSD?

- Check the pairing LEDs on the rear backplate to find the assigned number.
- When 12" subwoofer(s) are added to a system with a pair of original 8" subwoofers:
  - The original 8" subwoofers will always be assigned as subwoofer 3 or 4.
  - The 12" subwoofer(s) will always be assigned as subwoofer 1 or 2.
- If the system only has 12" subwoofers connected, the number assigned to each subwoofer will be random and may not be in numerical sequence. This is normal and will not affect system performance.

### 5. The firmware upgrade could not be completed / The main unit displays "FAIL 558XXXXX" during the firmware upgrade process.

- i. Your USB drive may be incompatible or contain an incomplete firmware file. Try using a different USB drive (USB 3.0, less than 128GB, formatted in exFAT).
- ii. Download a fresh copy of the firmware from our website ([support.nakamichi-usa.com/dragon/firmware-upgrade](http://support.nakamichi-usa.com/dragon/firmware-upgrade)). Delete any previously downloaded firmware file from your USB drive and replace with this copy.
- iii. Turn off DRAGON, unplug the AC power supply, insert the replacement USB drive, reconnect the power, and turn DRAGON back on to resume the upgrade.
- iv. Once firmware upgrade is complete, reset the system (See Section 2.2, pg 13).

# 5.4 Share Your Experience!

## Need More Assistance?

The DRAGON Concierge can assist with pairing subwoofer(s) to your system and optimizing their performance.

Should you need any assistance, please contact us.

☎ : +1 (415) 888 9626

✉ : [dragonvip@nakamichi-usa.com](mailto:dragonvip@nakamichi-usa.com)

### Operating Hours

- 10AM to 6:45PM PST Weekdays
- 10AM to 4:45PM PST Saturday



WhatsApp  
DRAGON Concierge



DRAGON Support

## Join the Facebook Group

Join fellow owners for placement and specific device recommendations.



[bit.ly/Nakamichi-FB](https://bit.ly/Nakamichi-FB)



[bit.ly/Nakamichi-IG](https://bit.ly/Nakamichi-IG)

## Leave a Review!

If you've been enjoying your DRAGON system with 12" subwoofers, help others make an informed decision by leaving a review!

Your thoughts will go a long way in supporting our mission of redefining audio expectations.



[bit.ly/DRAGON-modular12-review](https://bit.ly/DRAGON-modular12-review)










## HELPDESK

[bit.ly/dragon-helpdesk](https://bit.ly/dragon-helpdesk)



## SPEAK TO OUR DRAGON CONCIERGE BASED IN CALIFORNIA

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