Nakamichi

SHOCKWAFE ULTRA 9.2 eARC | SSE MAX

USER MANUAL

Dolby ATMOS | dts X | COMPATIBLE WITH Dolby Vision | eARC HDMI 2.1 HDCP 2.3 | Bluetooth Qualcomm aptX HD
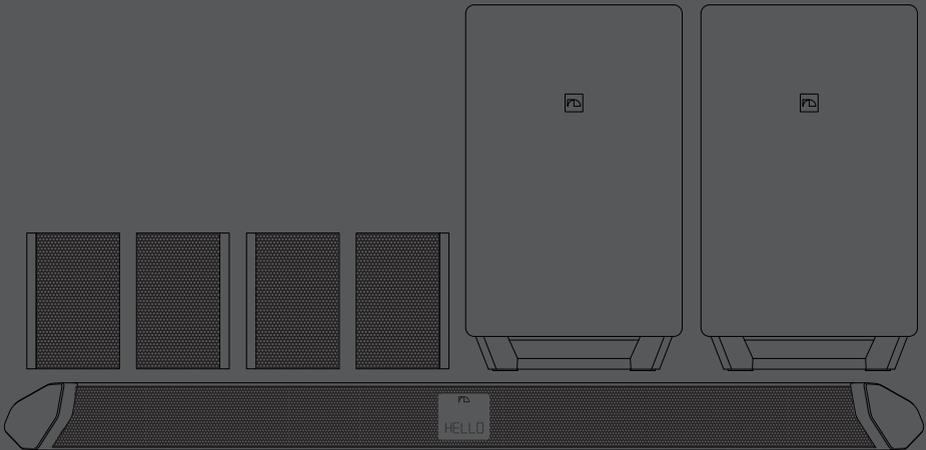
HELLO

ONE-STOP SUPPORT SOLUTION
www.helpdesk.nakamichi-usa.com

SPEAK TO OUR NINJAS BASED IN CALIFORNIA
support@nakamichi-usa.com, (415) 805 6913
(Weekdays 10am – 6:45pm PST; Saturday, Holidays 10am – 5pm PST)

BE PART OF THE NAKAMICHI SHOCKWAFE COMMUNITY
www.community.nakamichi-usa.com

IMPORTANT SAFETY INSTRUCTIONS

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

- Read, keep and follow all instructions.
- Heed all warnings.
- Do not use apparatus 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 are 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 the apparatus.
- 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 the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tipover.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus 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 the apparatus, the apparatus 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 your Unit.
- Unplug the power cord before cleaning your Unit. A damp cloth is sufficient for cleaning. Do not use a liquid or a spray cleaner on your Unit. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to ensure compatibility.
- When moving your Unit from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your Unit 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 your Unit and to protect it from overheating, be sure these openings are not blocked or covered. Do not place your Unit in a bookcase or cabinet unless proper ventilation is provided.
- Never push any objects into the slots and openings on your Unit enclosure. Do not place any objects on the top of your Unit. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on your Unit.

- When connected to a power outlet, power is always flowing into your Unit. To totally disconnect power, unplug the power cord.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket should be located near your Unit and be easily accessible.
- Keep your Unit away from moisture. Do not expose your Unit to rain or moisture. If water penetrates into your Unit, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use your Unit 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 your unit yourself.
- Avoid using dropped or damaged appliances. If your Unit is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair.
- Continued use of your Unit may cause fire or electric shock. Do not install your Unit in an area with heavy dust or high humidity.
- Operating your Unit 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 your Unit.
- When unplugging your Unit, 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 your Unit 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 was located on the external bottom enclosure of the product.
- The equipment shall be used at maximum 95F 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, this apparatus 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 it 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 this apparatus to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVIS RISQUE DE CHOC ÉLECTRIQUE / NE PAS OUVRIR

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 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 appliances. It has been designed in such way that it does not require a safety connection to electrical earth.

TABLE OF CONTENTS

1   PACKAGE CONTENTS

Soundbar Main Unit x 1

10" Wireless Subwoofers x 2
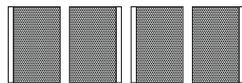
Surround Speakers x 4

Remote Control w/
Batteries x 1

Soundbar Power Cable x 1
Subwoofer Power Cables x 2
(Length: 5 ft. each)

Satellite Speaker Audio Cables x 4
(Length: 32.8 ft. each)

HDMI 2.1 Cable x 1
(Length: 5 ft.)

Optical Cable x 1
(Length: 5 ft.)

3.5mm Audio Cable x 1
(Length: 4 ft.)

Soundbar Power Adapter
(Length: 5 ft.)

Wall Screws &
Brackets x 20
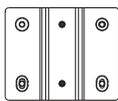
Satellite Speaker Mounting
Brackets (Dipole) x 2
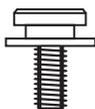
Mounting Screws
(Soundbar) x 2
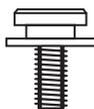
Mounting Screws
(Satellite Speakers) x 8

Surround Speakers Backplate
Screws (Dipole) x 8
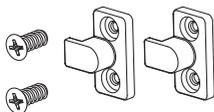
Speakers Connectors (Dipole) x 4 +
Silver Flathead Screws x 8

Soundbar & Satellite Wall
Mount Brackets x 10

Soundbar Mounting Guide

4

1.2 CONTROLS & CONNECTIONS
A. SOUNDBAR

DEMO
Plays a Demo track, followed by
Diagnostic Tones on each channel

↥ **INPUT**
Switches audio source

VOLUME – / +
Decreases or increases volume

⏻ **POWER**
Power ON soundbar or
goes to STANDBY mode

Top View

LED PANEL
Displays system information

HELLO

FRONT VIEW

BACK VIEW

DC IN
Power Supply

OPTICAL
Digital Optical
Audio Input

OPTICAL

USB
For Firmware
Upgrade only

USB

COAXIAL
Digital Coaxial
Audio Input

COAXIAL

AUX
3.5mm Stereo
Analog Audio
Input

AUX

HDMI IN [2]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI IN [2]

HDCP 2.3

HDMI IN [3]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI IN [3]

HDMI OUT (TV)
eARC [1]

HDCP 2.3

HDMI IN [4]

HDMI OUT (TV) [1]
(ARC/eARC,
HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI IN [4]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

5

1.2 CONTROLS & CONNECTIONS
B. SUBWOOFERS & SURROUND SPEAKERS

Back of LEFT Subwoofer

Back of RIGHT Subwoofer

Pairing Button

Pairing LED Indicator

Connect to
LEFT BACK
Surround
Speaker

RED LED Indicator
(For Firmware
Upgrade only)

Connect to
RIGHT SURR
Surround
Speaker

USB IN (For Firmware
Upgrade Only)

Connect to
LEFT SURR
Surround
Speaker

Power Switch

Power Port

Connect to
RIGHT BACK
Surround
Speaker

LEFT SURR
Speaker Port
(Connect to LEFT
Subwoofer)

LEFT BACK
Speaker Port
(Connect to LEFT
Subwoofer)

RIGHT SURR
Speaker Port
(Connect to
RIGHT Subwoofer)

RIGHT BACK
Speaker Port
(Connect to
RIGHT Subwoofer)

Back of LEFT Surround Speakers

Back of RIGHT Surround Speakers

DIPOLE   9 CH

Satellite Speaker Switch
(See Pg 9 for more details)

1.2 CONTROLS & CONNECTIONS
C. USING YOUR REMOTE CONTROL

**Inserting Batteries before using the Remote Control
(AAA Batteries x 2)**

Slide the back cover in the direction of the arrow until it is
completely removed. Insert 2 x AAA Batteries and gently
push the cover back into place.
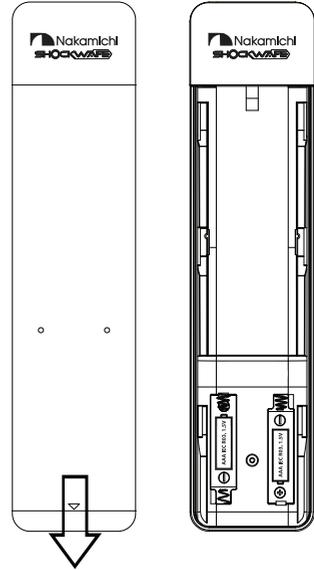
Remote Angle

Tilt the remote downwards by 15-25 degrees for best response.
(As if you are aiming the remote slightly towards the ground)

**Once HDMI-CEC is set up, use your TV / content device's remote
control to power ON the entire system.**

**Always use your TV's remote control to power OFF the entire
system.**

Infrared Sensor

HDMI

Infrared Transmitter
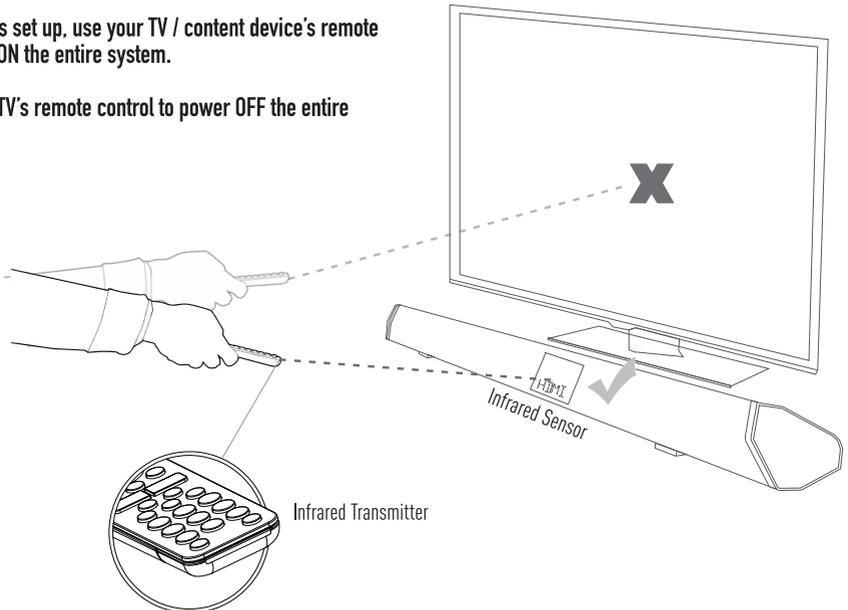
2   SETTING UP YOUR HOME THEATER

A.   BEST SURROUND: SIGNATURE PLACEMENT (4 INDIVIDUAL SPEAKERS SETUP)

The soundbar system features modular surround speakers, giving you placement flexibility to suit your listening environment. The diagram below illustrates the recommended speaker placement. Actual distance can vary based on actual room layout.

3.2 ft min clearance

3.2 ft min clearance

9 ft min clearance

Sub Left

Sub Right

3.2 ft

3.2 ft

90°-110°

5 ft

5 ft

90°-110°

6.5 ft

6.5 ft

SURROUND LEFT

SURROUND RIGHT

6.5 ft

6.5 ft

135°-150°

135°-150°

SURROUND BACK LEFT

SURROUND BACK RIGHT
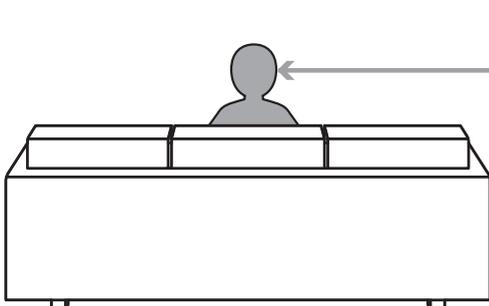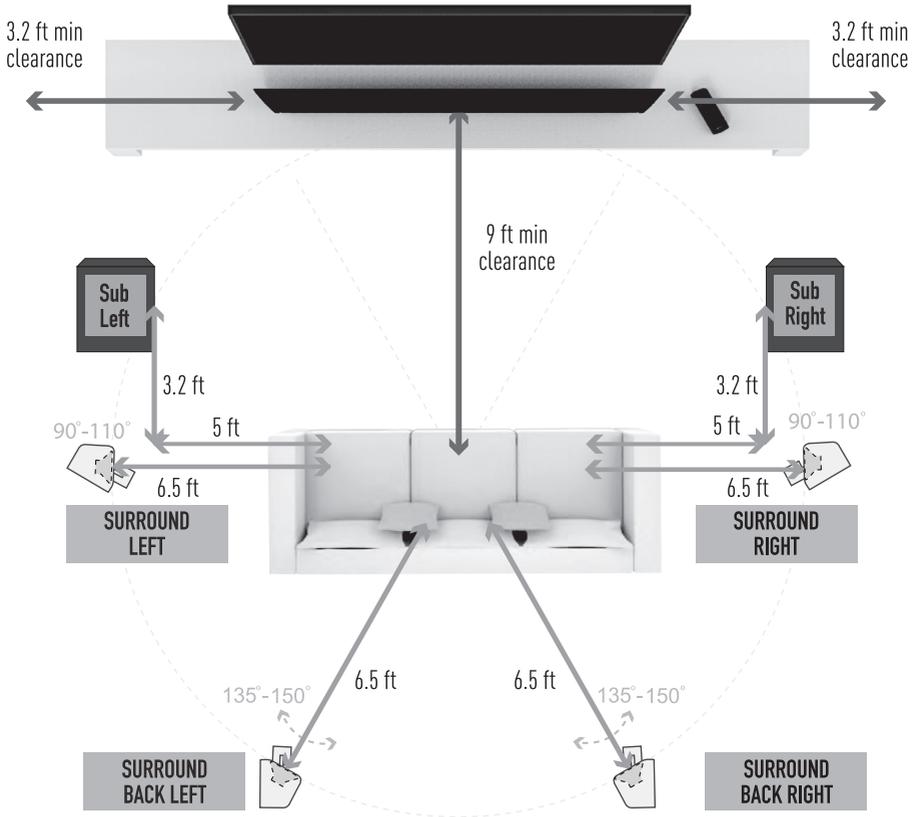
Tip:
Toggle the surround speaker switch to 9CH mode.

The bottom speaker driver of the surround speakers should be at ear level and underlined pointing directly at the listener's sitting area for optimal performance.

Note: Illustration is not to scale. Speaker stands are not included.

For recommended speaker stands, scan QR code or visit: **bit.ly/shockwafe-speaker-stands**

2   SETTING UP YOUR HOME THEATER

B.   BETTER SURROUND: DIPOLE CONFIGURATION (SPEAKERS ARE ATTACHED TO FORM TWO PAIRS)

The diagram below illustrates the recommended speaker placement. Actual distance can vary based on actual room layout.

3.2 ft min clearance

3.2 ft min clearance

9 ft min clearance

Sub Left

Sub Right

3.2 ft

3.2 ft

90°-110°

5 ft

5 ft

90°-110°

6.5 ft

6.5 ft

OPTION A

OPTION A

135°-150°

6.5 ft

6.5 ft

135°-150°

OPTION B

OPTION B
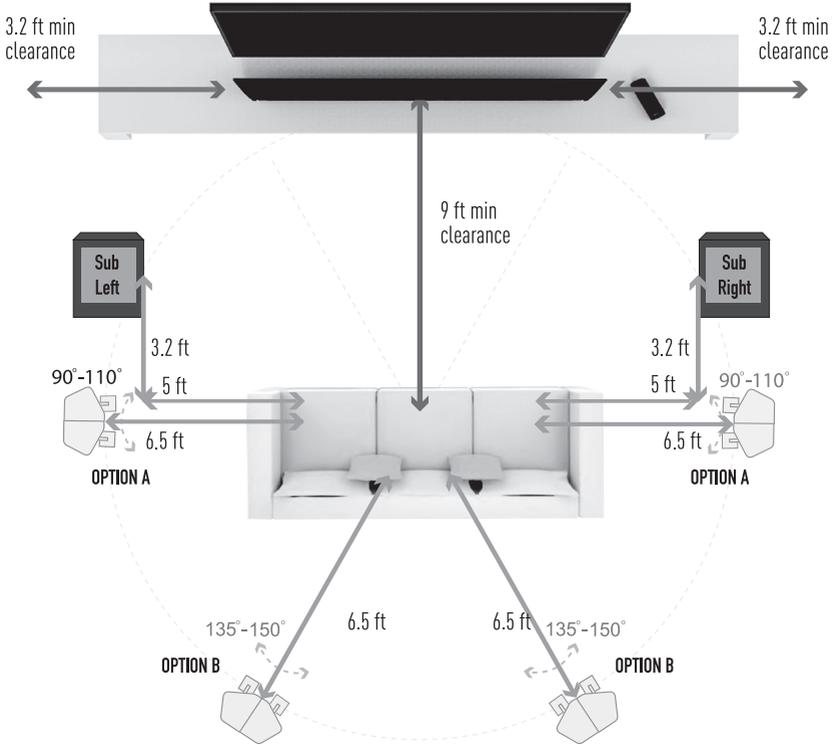
Attaching the speakers for dipole setup

①

②

③

④

⑤

Left Speaker   **Right Speaker**

Remove the rubber stoppers from the slots

Attach the L-shaped silver connectors onto the slots of the right speaker. Secure the connectors using silver flathead screws.

Attach left and right speaker

Secure the dipole mounting bracket with screws

Tip:
The bottom speaker driver of the surround speakers should be at ear level. The silver seam in between the speakers should be pointing directly at the listening area for optimal performance.

Toggle the surround speaker switch to DIPOLE mode.

DIPOLE

For recommended speaker stands, scan QR code or visit:
bit.ly/shockwafe-speaker-stands

2   SETTING UP YOUR HOME THEATER

C.   HYBRID ELEVATION

Lay the surround speakers down (drivers tilted upward in 2 modes, see illustration on the right) to enable vertical effects to bounce off the ceiling of your room.
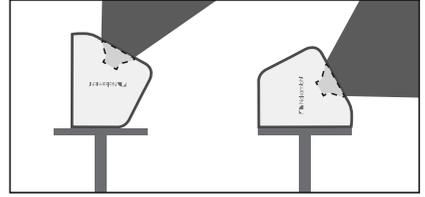
Elevation 1:
Vertical Effects-Centric Mode

Elevation 2:
Hybrid 360° Surround with Vertical Effects

OPTION C1: 9.2CH SIDE ELEVATION
For added perceptibility of height effects from both sides of the room
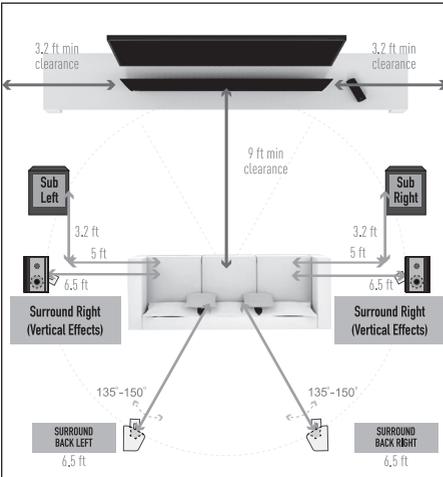
OPTION C2: 9.2CH REAR ELEVATION
For added perceptibility of height effects from the back of the room
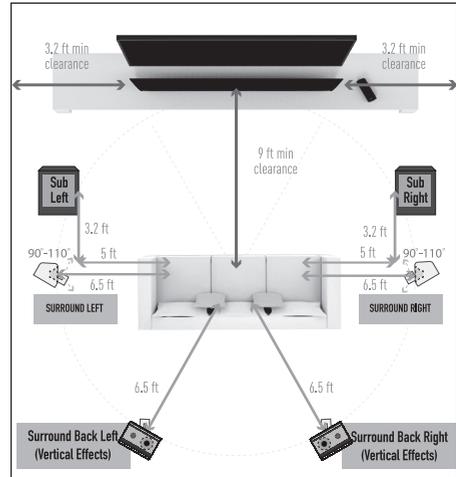
OPTION C3: 9.2CH ALL ELEVATION
For added perceptibility of height effects from sides and back of room
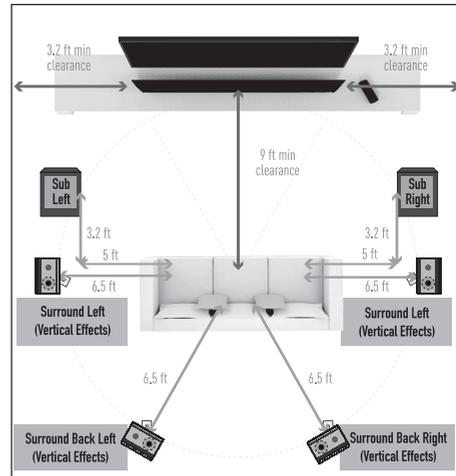
Tip:
Find a video clip, invest the time to play the clip with different speaker placements and audition to see what works best for your room.

Note: The diagrams above illustrate the recommended speaker placements. Actual distances can vary based on actual room layout.

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2.2 CONNECTING SURROUND SPEAKERS TO SUBWOOFERS

LEFT SUBWOOFER
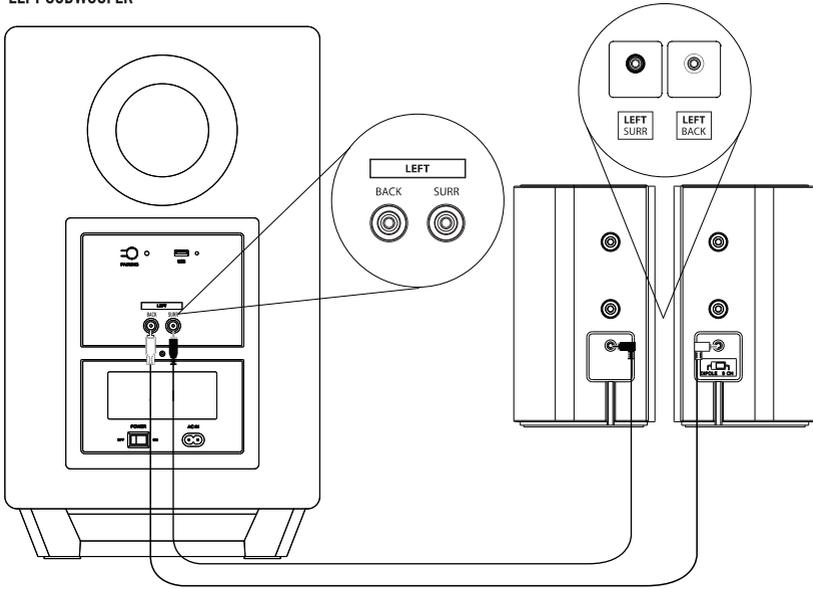
RIGHT SUBWOOFER
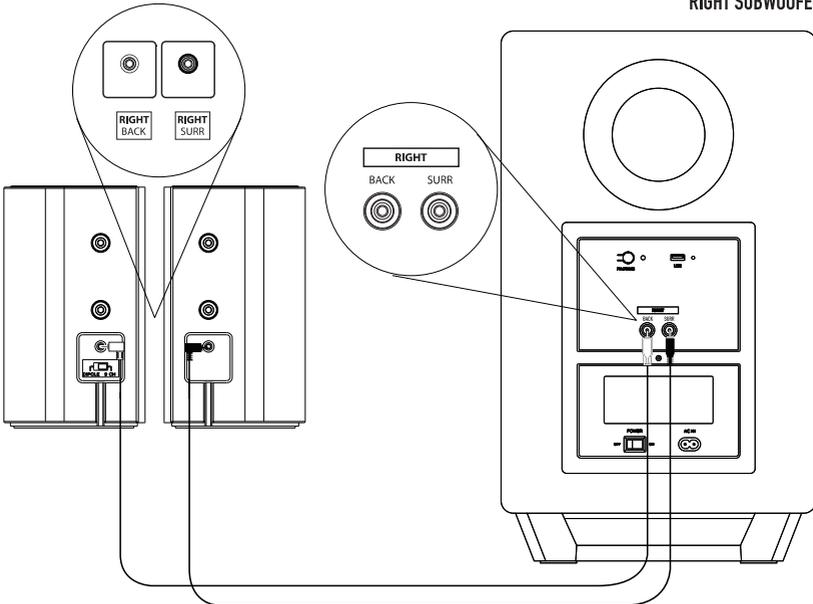
2.3 TURNING ON YOUR SOUNDBAR SYSTEM

Top of Soundbar

G

DEMO

B

SOUNDBAR

A

DC IN
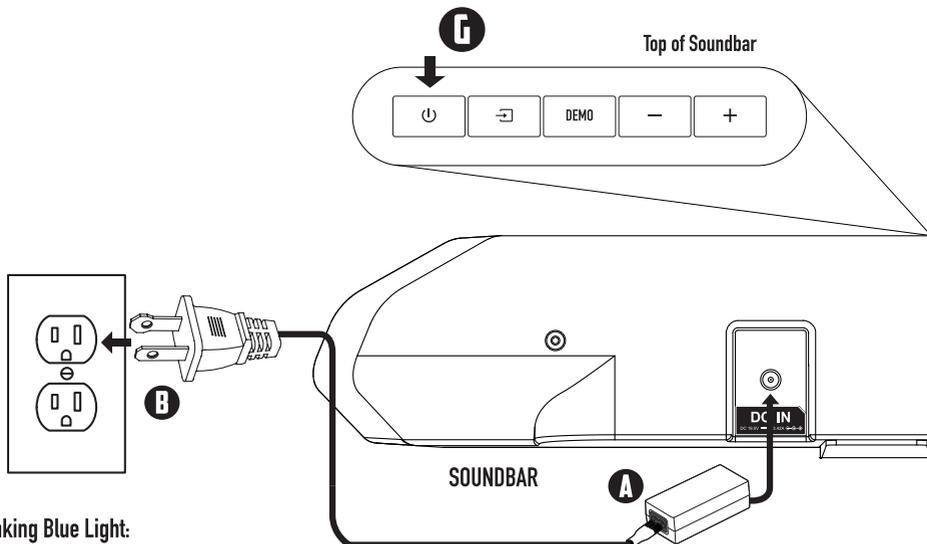
Blinking Blue Light:
Subwoofer is on standby mode.

Rapid Blinking Blue Light:
Subwoofer is on pairing mode.

Solid Blue Light:
Subwoofer successfully paired.

F PAIRING

C AC IN

E POWER
OFF   ON

D
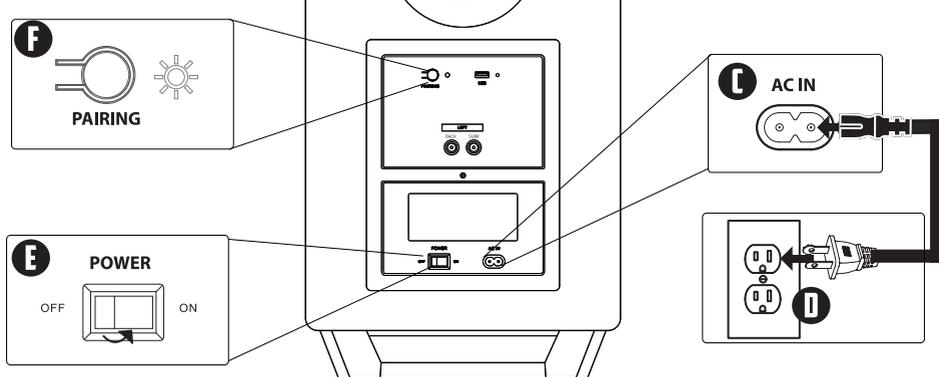
💡 **Tip:** Once soundbar is powered off, the blue LED lights on the subwoofers will continue blinking for 10 minutes before going into standby mode. You do not need to turn off the subwoofers after each use.

2.4 CONNECTING YOUR TV
A.   VIA HDMI ARC / EARC [BEST]

BACK OF SOUNDBAR
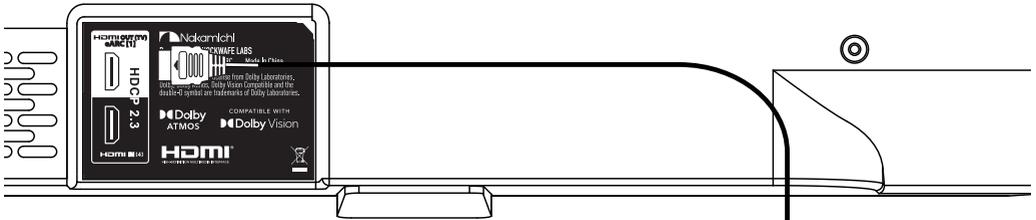
1. Connect one end of the HDMI cable to the **HDMI (ARC / eARC)** port at the back of your TV
2. Connect the other end to the **HDMI OUT (TV) [1]** port of your Nakamichi soundbar

💡 **Tip:** HDMI Audio Return Channel (ARC) / enhanced Audio Return Channel (eARC) offers two-way communication between your soundbar and TV over a single HDMI connection. Essentially, the HDMI ARC / eARC port lets you use HDMI as both an input and an audio output. For more information, please refer to Pg 16.

HDMI CABLE

BEST

BACK OF TV
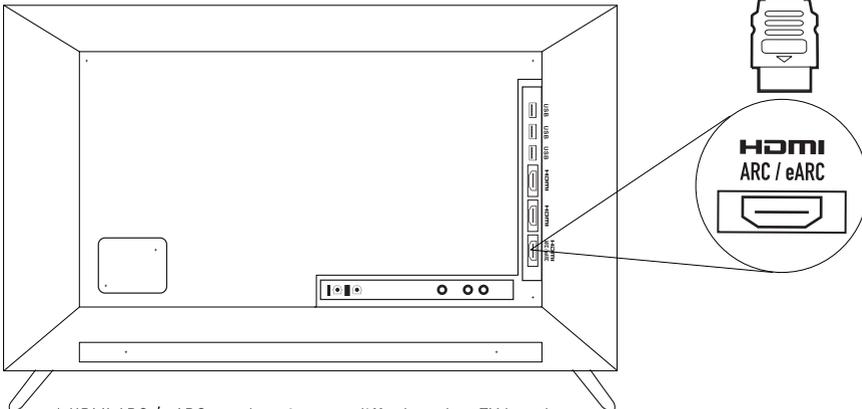
HDMI ARC / eARC

* HDMI ARC / eARC port location may differ based on TV brand.
See your TV's user manual for more information

2.4 CONNECTING YOUR TV
B.   DIGITAL OPTICAL `BETTER` , COAXIAL `BETTER` , AUX

BACK OF SOUNDBAR

OPTICAL

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

COAXIAL

AVIS:
RISQUE DE CHOC
NE PAS OUVRIR

WARNING: To avoid electrical shock,
please do not open the back cover of
this unit. Please contact authorized
professional personnel for
maintenance or repair.

USB

AUX

dts x

For DTS patents, see http://patents.dts.com

BETTER	BETTER	GOOD
DIGITAL OPTICAL CABLE †	COAXIAL CABLE † ‡	3.5MM AUDIO CABLE

Note: Be sure to connect to a TV's audio output port, not an audio input port.
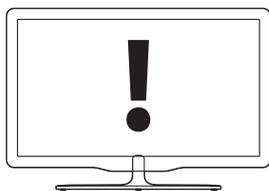
* Not all TVs have the audio outputs shown above. To connect the soundbar directly to your other devices (Blu-ray player, game consoles, etc). See Pg 21, CONNECTING YOUR CONTENT DEVICES

* Cable appearance may differ from the ones supplied.

† If there is no audio during the setup, see Pg 43 for Help & Troubleshooting

‡ Cable not included

2.5 LISTENING TO YOUR SOUNDBAR

Press to power on / off the soundbar

Important: Once HDMI CEC is set up, always power on the soundbar by using your TV or content device's remote control power ON button.

Always use your TV's remote control to power OFF the entire system.

For more about HDMI CEC, visit:
nakamichi-usa.com/what-is-hdmi-cec/

TV	HDMI 2	HDMI 3
HDMI 4	OPT	COAX
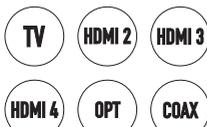
Press TV button to listen to TV audio (ARC / eARC).

Press HDMI 2 / 3 / 4 / Optical / Coaxial button to listen to content from other devices

**ALL CH STEREO**

All Channel Stereo / Stereo Only

All Channel Stereo (Recommended) = Enables Stereo playback on surround speakers. Best for music, YouTube™ and content with minimal rear surround effects.

Stereo Only = Enables playback with soundbar + subwoofers only (no surround)

Access to advanced system settings. (See Pg 27 for more information)
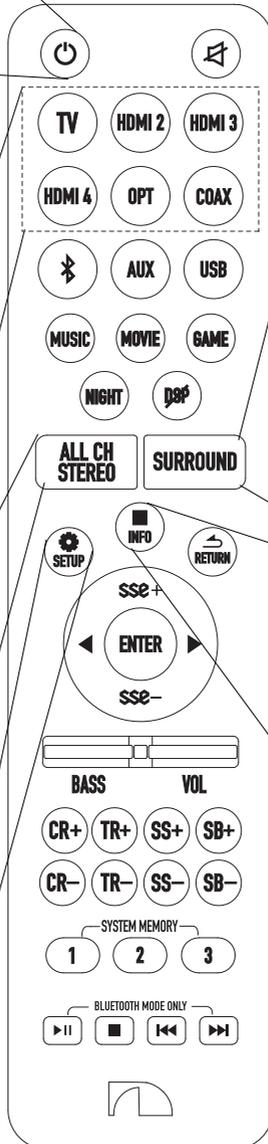
SURROUND

Set **SURROUND** to Default for the best experience.

For **Dolby/PCM** content:
DOLBY SURR (Default) = Dolby Full Surround + Height
DOLBY UPMIX = Dolby Full Surround Upmix
NATIVE = Direct decode 2.1 / 5.1 / 7.1 channels based on how content was recorded.

For DTS content:
Neural X (Default) = DTS Full Surround + Height
DTS Direct = DTS Full Surround Upmix
Native = Direct decode 2.1 / 5.1 / 7.1 channels based on how content was recorded.
Above modes are for DTS content only. Cannot enable when Dolby or PCM content is playing.

(See Pg 26 for detailed information on channel mapping and upmixing)

INFO

Press INFO button once to see the source audio format on the soundbar's LED display:

DOLBY ATMOS TRUEHD
(Dolby Atmos encoded Dolby TrueHD)
DOLBY ATMOS D PLUS
(Dolby Atmos encoded Dolby Digital Plus)
DOLBY ATMOS MAT**
(Dolby Atmos meta-data into lossless pulse-code modulation)
DOLBY TRUEHD
DOLBY D PLUS (Dolby Digital Plus)
DOLBY DIGITAL

DTS X, DTS-HD MA (DTS HD Master Audio)
DTS HD (DTS High Definition Audio)
DTS DIGITAL (DTS Digital Surround)
LPCM 7.1 (Linear Pulse Code Modulation 7.1)
LPCM 5.1 (Linear Pulse Code Modulation 5.1)
PCM 2.0 (Pulse Code Modulation)

**** XBOX SERIES X / One X/S and Apple TV 4K** come with a Dolby Atmos MAT encoder, which is designed to encode, decode and incorporate Dolby Atmos meta-data into lossless pulse-code modulation (LPCM) audio.

Dolby Atmos is Dolby's latest object-based 3D surround sound format. It is encoded into Dolby TrueHD or Dolby Digital Plus stream with meta-data to extract and place the objects in relevant positions of a surround environment.

2.6   SETTING UP YOUR TV

A.   What is Enhanced Audio Return Channel (ARC / eARC)?

HDMI Audio Return Channel (ARC) / enhanced Audio Return Channel (eARC) offers two-way communication between your soundbar and TV over a single HDMI connection. Essentially, the HDMI ARC port lets you use HDMI as both an input and an audio output. An eARC-compatible TV can send original, full resolution (lossless) audio signals to the soundbar. For eARC, you will need to connect your soundbar to the TV's HDMI eARC port using a high speed HDMI 2.1 cable.

The soundbar's eARC port is backwards-compatible with ARC and can also accept audio signals from HDMI ARC Equipped TV's.

Audio Settings for TV*
Setting the audio output:
   1. Go to Settings > Sound
   2. Select Speaker Settings
   3. Set as HDMI Audio Out
   4. For eARC equipped TV's only:
     Please also check your TV settings and turn on eARC mode if available.
     This option might be found under the advanced/expert options on your TV.

For brand specific TV audio settings, scan QR code or visit:
www.nakamichi-usa.com/best-sound

Setting the audio format:
   A) Go to Settings > Sound > Additional Settings
   B) Select Speaker Audio Format
   C) Set as Dolby Digital / DTS / Bitstream (whichever is available)

B.   What is CEC?

CEC is an HDMI protocol that is only available when:
   1. Your TV is CEC enabled. (Check with your TV manufacturer for more information)
   2. The soundbar and TV is connected via a HDMI cable through the ARC ports.
By doing so, you are able to control the soundbar's volume and power functions with the TV remote.

Enabling CEC^
From the SYSTEM menu, enable CEC and ARC^ functions.

From the CEC menu, select Device Discovery to register the soundbar with the TV.

Enable CEC for TV only. Do not enable CEC for other source devices or inputs may switch randomly.

To disable CEC on the soundbar, see Pg 28.

* Steps may differ based on TV brand. See your TV's user manual for more information.

^ HDMI-CEC TV Trade names: Samsung (Anynet+), Sharp (Aquos Link), Sony (Bravia Sync), LG (SIMPLINK), Panasonic (HDAVI Control / EZ Sync / Viera Link) , Philips (EasyLink), Vizio (CEC), TCL (CEC), Hisense (CEC). Naming may differ based on TV brand. See your TV's user manual for more information.

Visit **www.nakamichi-usa.com/best-sound** for expanded list of TVs' audio settings instructions. Visit bit.ly/hdmi-cec-settings or scan QR Code for HDMI-CEC setup instructions by device

If your devices are not listed on our website, please check with the device manufacturer's manual

2.7 CONNECTING YOUR CONTENT DEVICES

A. CONNECTIONS CENTRAL – RECOMMENDED CONNECTION BASED ON DEVICES

Use our **Perfect Device Matching Tool** to create a custom setup guide based on your TV and devices. Scan QR code or visit bit.ly/device-matching-tool

XBOX Series X / PS5*

Satellites

Set-Top Boxes

TV

Connect these **devices directly to your TV** via HDMI

Connect **TV HDMI ARC / eARC** to **Soundbar HDMI 1 eARC**

HELLO

Streaming Devices

PS4, XBOX ONE, Switch & Older Consoles

Blu-ray Players

Connect these devices directly to **Soundbar** Via **HDMI**
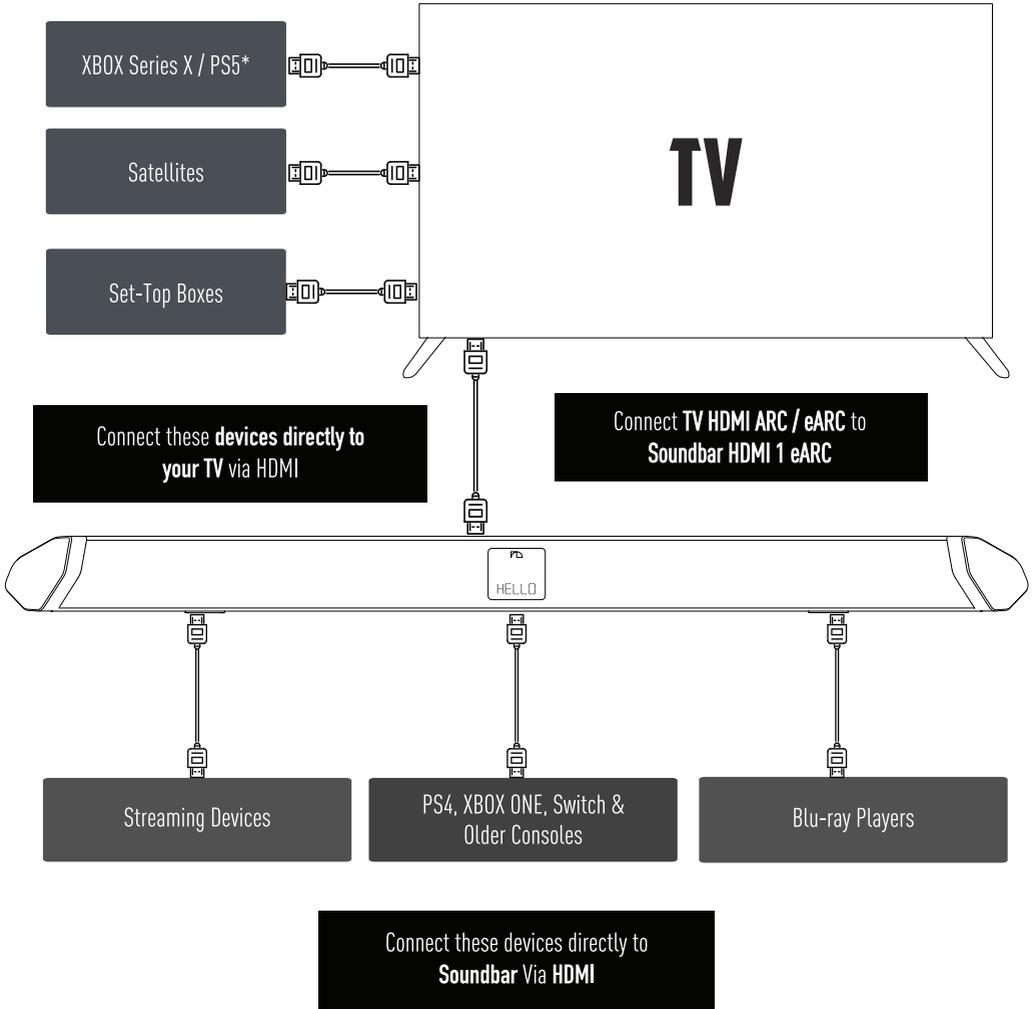
*Connect XBOX Series X and PS5 directly to TV's HDMI inputs if TV is equipped with eARC

2.7 CONNECTING YOUR CONTENT DEVICES

B. HDMI CONNECTION SETUP

HDMI cables transmit both audio and video content. To view video from these devices, turn the soundbar on, then set the **soundbar input** to HDMI IN [2], HDMI IN [3] or HDMI IN [4]. Set your **TV input** to the HDMI ARC / eARC port which the soundbar is connected.

BACK OF SOUNDBAR

HDMI IN [2]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI OUT (TV) [3]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI IN [4]
(HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

HDMI OUT (TV) [1]
(ARC / eARC,
HDCP 2.3, Dolby Vision,
4K HDR Pass-thru)

| Blu-ray / DVD Player | Streaming Devices | Gaming Consoles* | TV with ARC / eARC |
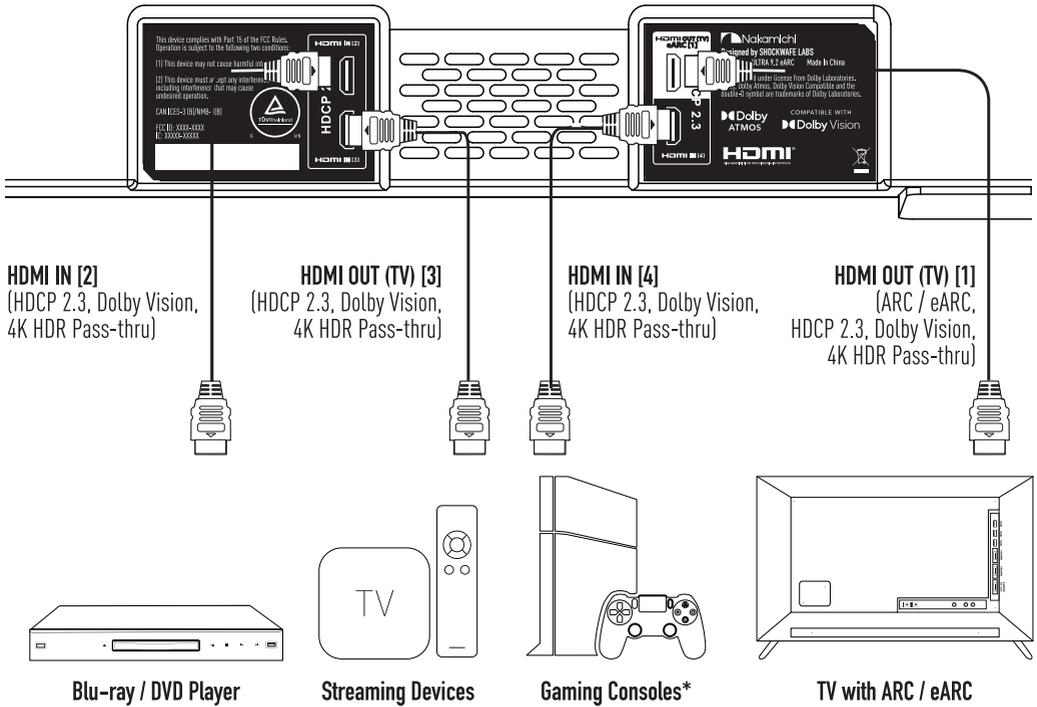
* Connect XBOX Series X and PS5 directly to TV's HDMI inputs if TV is equipped with eARC.
Note 1: Cables may appear differently from the ones supplied.
Note 2: Connect devices with the same HDCP standards for seamless switching between sources. If there are devices with different HDCP standards, connect all HDCP 2.3 devices to soundbar while connecting HDCP 1.4 / 2.0 / 2.1 devices to TV to avoid audio and video instability.

2.7 CONNECTING YOUR CONTENT DEVICES

C. NON-HDMI CONNECTION SETUP

BACK OF SOUNDBAR

DIGITAL OPTICAL
CABLE

COAXIAL CABLE*

3.5MM AUDIO
CABLE

Gaming Consoles

Network Media Player

Tablet / MP3 Player / PC
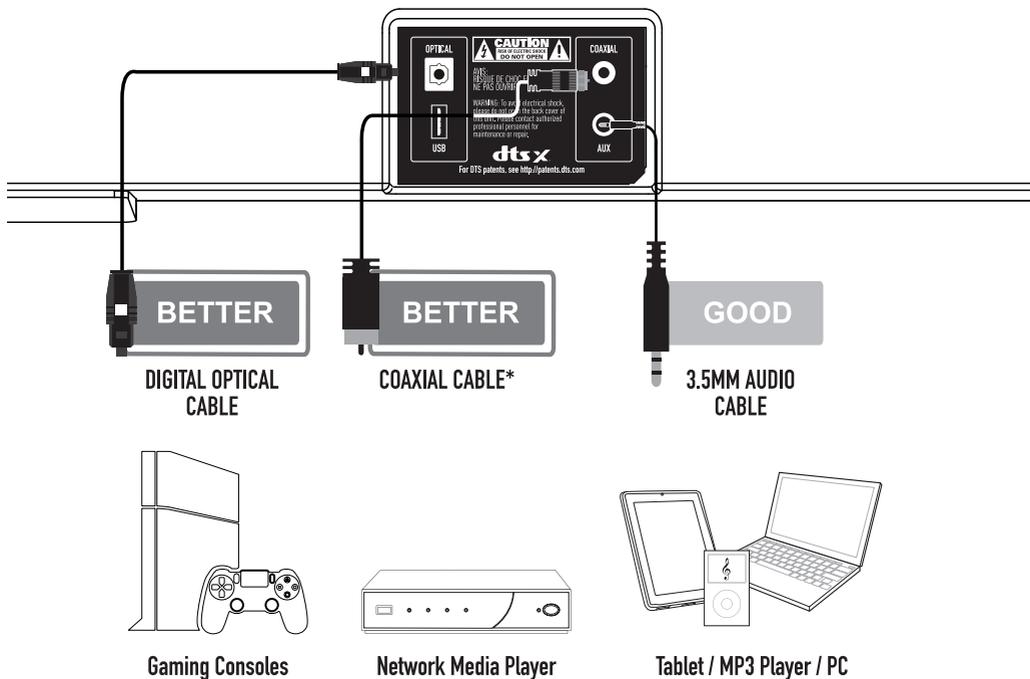
Note: Dolby Digital Plus, Dolby True HD, Dolby Atmos, DTS HD MA, DTS HD and DTS:X are not supported on Optical, Coaxial and Aux connections
* Cable not included

2.7 CONNECTING YOUR CONTENT DEVICES

D. ADVANCED SETUP – FOUR DEVICE SETUP FOR HDTV

Use our **Perfect Device Matching Tool** to create a custom setup guide based on your TV and devices. Scan QR code or visit bit.ly/device-matching-tool

Switch the soundbar's source to **TV** for playing Device's 4 audio. (Via TV's ARC / eARC connection. Dolby Atmos and DTS:X audio are not supported on ARC connection)

TV

Video & Audio

HDMI IN*

HDMI OUT

Device 4

Dolby Atmos / DTS:X supported if TV is equipped with eARC

HDMI IN (ARC / eARC)

HDMI OUT (TV) [1]

HDMI IN [2]

HDMI IN [3]

HDMI IN [4]

HDMI OUT

HDMI OUT

HDMI OUT

Device 1

(Dolby Atmos / DTS:X devices supported)

Device 2

(Dolby Atmos / DTS:X devices supported)

Device 3

(Dolby Atmos / DTS:X devices supported)
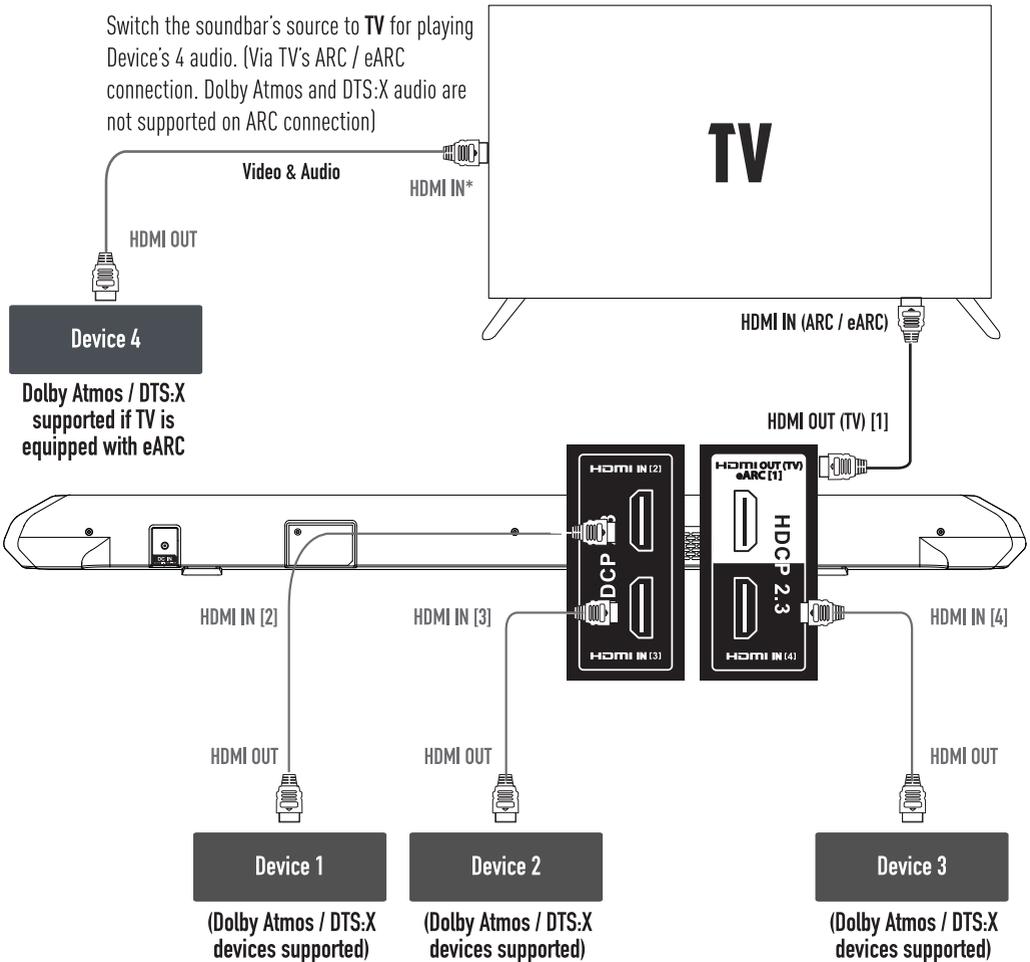
**Note:** If the device is not equipped with a HDMI port, use an Optical or Coaxial output.
* Compatible HDMI eARC TVs can pass original, full resolution audio (with Dolby Atmos and DTS:X support) to the Soundbar. Selected HDMI ARC-equipped TVs can send compressed Dolby Atmos audio to the soundbar.

2.7 CONNECTING YOUR CONTENT DEVICES

E. ADVANCED SETUP – THREE DEVICE SETUP FOR HDTV WITHOUT HDMI ARC / eARC

Use our **Perfect Device Matching Tool** to create a custom setup guide based on your TV and devices. Scan QR code or visit bit.ly/device-matching-tool

TV

HDMI IN

Optical from TV to Soundbar*

HDMI OUT (TV) [1]

OPTICAL   COAXIAL

HDMI IN [2]   HDMI IN [2]   HDMI OUT (TV) eARC [1]   HDMI IN [4]

HDCP   HDCP 2.3

HDMI IN [3]   HDMI IN [4]

HDMI IN [3]

HDMI OUT   HDMI OUT

HDMI OUT

Device 1	Device 2	Device 3
(Dolby Atmos / DTS:X devices supported)	(Dolby Atmos / DTS:X devices supported)	(Dolby Atmos / DTS:X devices supported)

*If the device is not equipped with a HDMI port, use an Optical or Coaxial output.

2.8   SETTING UP YOUR CONTENT DEVICES
RECOMMENDED AUDIO SETTINGS FOR BEST AUDIO

APPLE TV® 4K (2021)
Setting Audio Output:
1. Settings > Video and Audio > Audio > Audio Output > **Receiver Speakers**
2. Settings > Video and Audio > Audio > Reduce Loud Sounds > **Off**
3. Settings > Video and Audio > Audio > Audio Mode > **Auto**

AMAZON FIRE® TV CUBE / FIRE® TV 4K
Settings > Display & Sounds > Audio > Surround Sound > **Best Available**
NOTE: When plugging Fire TV 4K directly to TV, set TV audio's digital output format > select Dolby Digital

ROKU™ ULTRA 4K (2020)
Setting Audio Format:
Roku Ultra 4K: Settings > Audio > Audio Mode > **Auto (Dolby D+, DTS)**

NVIDIA® SHIELD PRO 4K
Setting Audio Format:
1. Settings > Device Preferences > Display & Sound > Advanced Sound Settings > Surround Sound > Dolby Audio Processing > **ON**, Available Formats > **Auto**

PLAYSTATION® 5
Setting Audio Output:
1. Settings > Sound > select **Audio Output**
   a. Audio Output > Output Device > HDMI Device (AV amplifier) > Switch Output Device Automatically > **On** > HDMI Device Type > select **AV amplifier**
   b. AV amplifier > Number of Channels > **7.1ch**
   c. Audio Output > General > Audio Format (Priority) > **Bitstream (Dolby)**

XBOX® SERIES X
Setting Audio Format:
1. Menu > Settings > General > **Volume & Audio Output**
   a. Volume & Audio Output > Speaker Audio > HDMI Audio > **Bitstream Out**
   b. Volume & Audio Output > Speaker Audio > Bitstream Format > **Dolby Atmos for Home Theater**
2. **Blu-ray Playback Audio Settings:**
   Menu > Settings > **Devices & Connections**
   a. Devices & Connections > **Blu-ray**
   b. Blu-ray > Dolby Digital > **Dynamic range Control Off** > Let my receiver decode audio > **Check**

NINTENDO® SWITCH
Recommended Setup: Connect the device directly to TV via HDMI port and send out audio to soundbar via ARC
Setting Audio Format: (Put the console in TV mode)
1. SWITCH Audio Settings: System Settings > TV Settings > TV Sound > **Surround**
2. TV Audio Settings: Digital Output Format > select **Dolby Digital**

SONY® BLU-RAY PLAYER
Setting Audio Output:
Setup > System Settings > HDMI Audio Output > **Auto**
Setting Audio Format:
Setup > Audio Settings >
   1. Digital Audio Output > **Auto**
   2. DSD Output Mode > **Off**
   3. BD Audio MIX Setting > **Off**
   4. DTS Neo:6 > **Off**
   5. DSEE HX > **Off**
   6. Downmix > **Surround**

DIRECT TV®
Menu > Settings > Audio > Dolby Audio > **Off**

DISH® Satellite TV SET-TOP BOX
   1. Launch System Settings
   2. Set Decoder to Dolby Digital
   3. Set Mode to Line
   4. Select Done

Xfinity® SET-TOP BOX
   1. Go to Setting
   2. Select Audio Codec
   3. Select HDMI or Optical
   4. Set Audio Range to Normal
   5. Set Audio Output to Fixed

For complete devices list, visit
www.nakamichi-usa.com/best-sound
or scan QR code on the right.

3 UNDERSTANDING YOUR REMOTE CONTROL

A. OVERVIEW
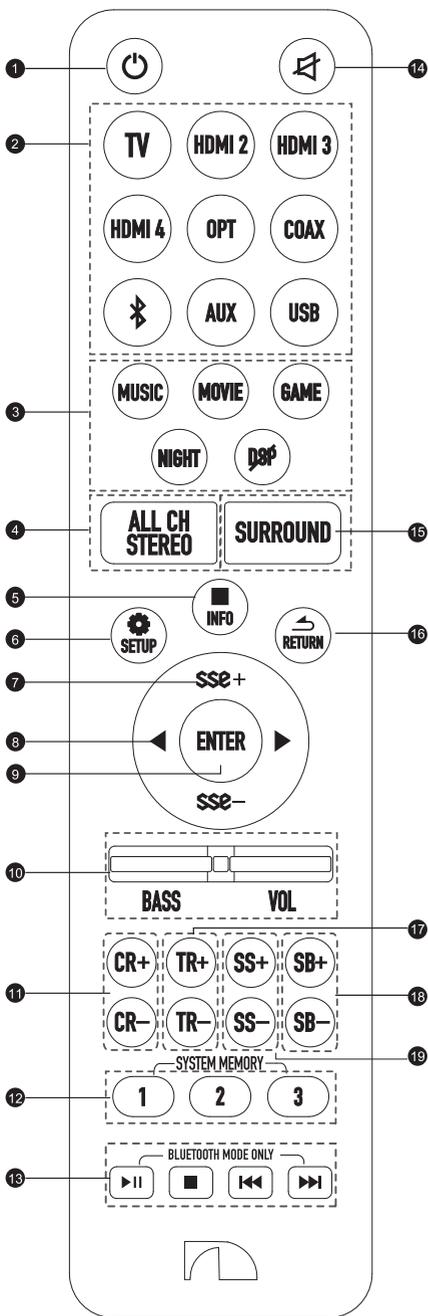
① **POWER*** ⏻
Turn ON/OFF the Soundbar

② **INPUT SOURCE**
Select audio input source (See Pg 24 for more details)

③ **EQ (EQUALIZER) & NIGHT MODE**
Select between Nakamichi pre-tuned audio EQ modes. [See Pg 25 for more details]

④ **ALL CH STEREO / STEREO ONLY**
Activate All Channel Stereo or Stereo Only

⑤ **INFO** ■
Display system information on the soundbar LED display (See Pg 31 for more details)

⑥ **SETUP** ✿
Access to advanced system settings (See Pg 27 for more details)

⑦ **SSE + / –**
(SPATIAL SURROUND ELEVATION MAX PROCESSING)**
Select different SSE Max modes (See Pg 30 for more details)

⑧ **◄ / ► BUTTON**
Toggle between different settings (Setup function only)

⑨ **ENTER BUTTON**
Select desired settings (SETUP function only)

⑩ **BASS / VOLUME**
Adjust bass / volume level by pushing the button up or down

⑪ **CR + /–**
Adjust center channel volume level

⑫ **SYSTEM MEMORY**
Save your personalized audio settings (See Pg 32 for more details)

⑬ **PLAY/PAUSE ►ǁ , STOP ■ , NEXT ►►ǀ, PREVIOUS ǀ◄◄**
Buttons for audio playback (Bluetooth mode only)

⑭ **MUTE** ⊲
Mute / unmute the soundbar

⑮ **SURROUND**
Select between different channel mapping / upmixing methods (See Pg 26 for more details)

⑯ **RETURN** ⮐
Return to the previous selection (SETUP function only)

⑰ **TR +/–**
Adjust high tones (treble) volume level

⑱ **SB +/–**
Adjust volume level of both back surround channels

⑲ **SS +/–**
Adjust volume level of both side surround channels

For expanded remote control guide, scan QR code or visit:
bit.ly/92earc-shockwafe-remote

* If HDMI CEC is connected between TV and soundbar, always use the TV or source device's power button on the remote to power "ON" the system. Always use the TV power button to power "OFF" the entire system.
** SSE Max only applies to Dolby and PCM content. As DTS content uses Neutral:X for upmixing, SSE Max processing will not be applicable when playing back such content.

3   UNDERSTANDING YOUR REMOTE CONTROL

B.   SELECTING DIFFERENT INPUT SOURCES

Press source buttons to select an audio input source. Each input source will be displayed on the soundbar's front LED display.

INPUT SOURCE
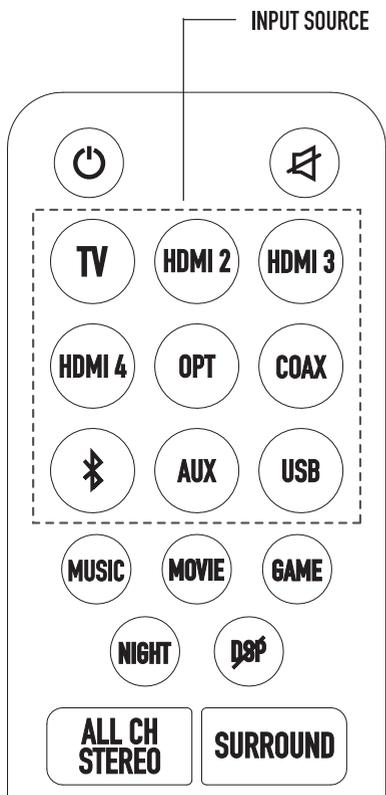
Button	LED Digits on Soundbar
TV	TV EARC, TV ARC
HDMI 2	HDMI 2
HDMI 3	HDMI 3
HDMI 4	HDMI 4
OPT (Optical)	OPT
COAX (Coaxial)	COAX
✳ Bluetooth	BT
AUX	AUX
USB	USB

For expanded remote control guide,
scan QR code or visit:
bit.ly/92earc-shockwafe-remote

3   UNDERSTANDING YOUR REMOTE CONTROL

C.   ACCESSING AUDIO PRESETS
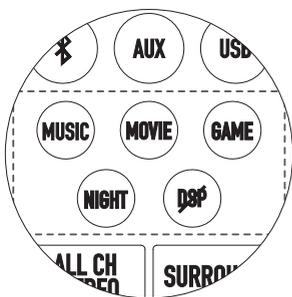
EQ (EQUALIZER)
Press these EQ buttons on your remote to select your desired EQ settings. The system will remember the last setting.

For expanded remote control guide, scan QR code or visit:
bit.ly/92earc-shockwafe-remote

MUSIC	**MUSIC**	Feel like you are seated in front of a stage. Produces a faithful reproduction of your music, just as the artist intended.	MUSIC
MOVIE	**MOVIE** (Default)	Reproduces the thrilling environment and takes you to the center of the action. Feel the dynamic excitement.	MOVIE
GAME	**GAME**	Reproduces sound field effects for all game genres and adds depth and spaciousness to your game's surround sound.	GAME
	NEWS	Makes you feel like you are in the front row of a live talk show. Hear crystal clear dialog.	NEWS
	SPORTS	Reproduces the energetic environment of live sports broadcasts. Place the commentator's voice center stage and lets the sounds that fill the stadium surround you.	SPORTS
DSP OFF	**DSP OFF**	Audio playback without using any predefined Nakamichi EQ settings.	DSP OFF

NIGHT MODE
Night mode feature normalizes the overall volume to avoid sudden changes in loudness. This feature is available with DTS and DOLBY encoded content on HDMI, HDMI ARC / eARC, Optical and Coaxial inputs.

NIGHT	**OFF** (Default)	Volume normalization OFF. Maximum audio impact from video content.	DRC OFF
	50%	50% of volume normalization	DRC 50
	100%	100% of volume normalization, recommended for night time listening	DRC 100
	AUTO	Contextual adaptive volume normalization to retain audio dynamism during normalization (For DOLBY content only)	DRC AUTO

3 UNDERSTANDING YOUR REMOTE CONTROL

D. ACCESSING CHANNEL MAPPING / UPMIXING
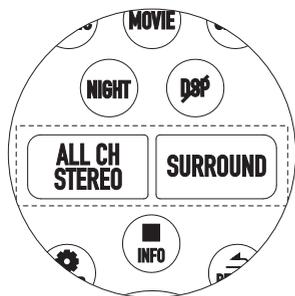
CHANNEL MAPPING

Channel mapping / upmixing is essential because most content are not recorded in 9.2 channels. The soundbar utilizes different channel mapping methods to optimize your listening experience. Dolby & DTS encode their own content with their respective proprietary upmixers to optimize surround performance.

For expanded remote control guide, scan QR code or visit:
bit.ly/92earc-shockwafe-remote

Dolby Upmixing (Available for Dolby and PCM contents)

|			
SURROUND	**Native**	Direct decode 2.1 / 5.1 / 7.1 channel audio (No audio upmixing). Best for music and Bluetooth.	NATIVE
	DOLBY UPMIX	Dolby technology upmixes audio content to all audio channels	DOLBY UPMIX
	DOLBY SURR (Default)	Dolby technology upmixes audio content to all audio channels with vertical surround effects. (See Pg 40 for details)	DOLBY SURR

DTS Upmixing (Available for DTS content only)

SURROUND	**Native**	Direct decode 2.1 / 5.1 / 7.1 channel audio (No audio upmixing). Best for music and Bluetooth.	NATIVE
	DTS DIRECT	System DSP upmixes audio content to all audio channels.	DTS DIRECT
	NEURAL:X (Default)	DTS technology upmixes audio content to all audio channels. Set to NEURAL:X to receive audio from all rear speakers. (See Pg 40 for details)	NEURAL:X

ALL Channel Stereo / Stereo Only Mode

ALLCH STEREO	**DTS, Dolby & PCM**	Enables 3 channels (Left, Center, Right) playback on the soundbar. Front channels are upmixed and outputted to surround speakers.	ALLCH STEREO
STEREO ONLY	**DTS**	Enables 2-channels stereo playback using the right front and left front channels. It down-mixes DTS multi-channel signals to 2 Channels.	STEREO ONLY
	DOLBY & PCM	Enables 3-channels (Left, Center, Right) playback using the right front, center and left front channels. It down-mixes Dolby & PCM multi-channel signals to 3 Channels.	

Note: For Bluetooth input, ALL CH STEREO mode will be turned ON by default

3 UNDERSTANDING YOUR REMOTE CONTROL

## E. ACCESSING SETTINGS BUTTON (Accessible from all inputs)
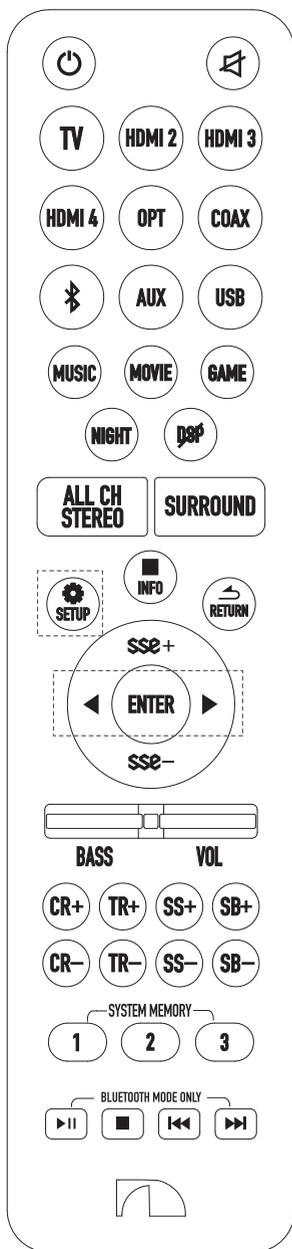
1. Press the SETUP (⚙) button to cycle through different system settings.
Refer to Function column on table below for available options.

2. Press **ENTER** to select desired function for adjustment.

3. Press ◄ / ► **button** to change the SELECTION value*
   * To select different settings or exit the SETUP function:
      a. Press RETURN button to quit the current action and back to SETUP list to select different settings.
      b. Press SETUP button to exit SETUP function

4. Press **ENTER** button to save your selected value.

Function	Selection	Options
Wireless Subwoofer channel selection* (between soundbar / subs and surrounds)	WL-CH **(Default: AUTO)**	AUTO
		WL C1 - WL C6
LED Brightness	DIM **(Default: 3)** *DIM=0. Display will turn off after a few seconds	DIM0*
		DIM1
		DIM2
		DIM3
LIP SYNC**	LIP **(Default: 00ms)**	00ms - 200ms
Room Size (Refer to Pg 29 for more details)	RM Size **(Default: Med)**	SMALL
		MED
		LARGE
Surround On / Off	SURR ON/OFF **(Default: On)**	ON
		OFF
DOLBY & DTS CONTENT Dynamic Range Compression (DRC) (Normalizes sudden loud volume changes. Functions the same as Night Mode on remote)	DRC **(Default: Off)**	OFF
		50
		100
		AUTO
Power Saving (30 mins auto power off without any input signal)	ECO **(Default: ON)**	OFF
		ON
Subwoofer Crossover Frequency (Sends each speaker the group of frequencies that it will play most efficiently)	CROSS **(Default: 180Hz)**	130Hz
		150Hz
		180Hz

* Refer to Pg 43 - Help and Troubleshooting for information of WiFi Channels
** When vocals on TV does not match up with the sound of speaking.

3 UNDERSTANDING YOUR REMOTE CONTROL

F.   ACCESSING SETUP BUTTON (Accessible from all inputs)
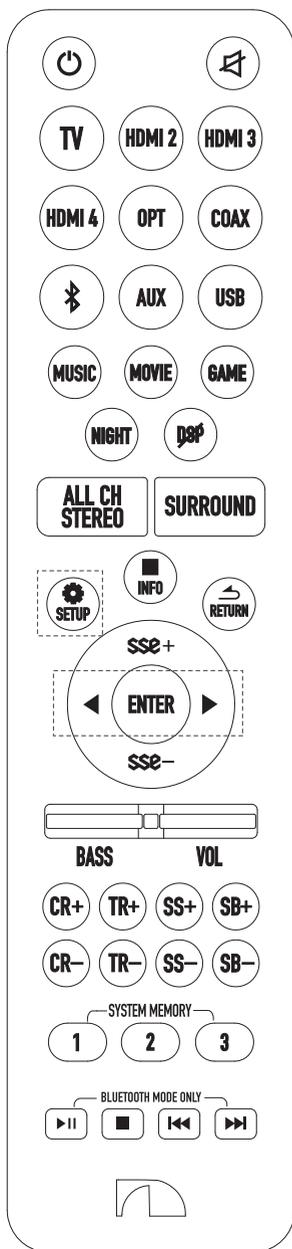
Function	Selection	Options
Volume Balance for RIGHT Surround and RIGHT Rear Speakers	RSURR **(Default: 00)**	-3 To +3
Volume Balance for LEFT Surround and LEFT Rear Speakers	LSURR **(Default: 00)**	-3 To +3
HDMI-CEC: One Touch Play* (Enable or disable HDMI CEC connection between soundbar and TV)	CEC-OTP **(Default: ON)**	OFF
		ON
DIALOG CONTROL (DTS:X Content Only) (Increase dialog levels in contrast with background sound and boost vocals separately)	DIALG **(Default: +3)**	DIA+1 to DIA+6
Firmware Upgrade (Refer to Pg 37 for more details)	FWUPG	UPGRADING
		DONE
		FAIL
Subwoofer Pairing (Refer to Pg 34 for more details)	SUB PAIR	PAIRING
		DONE
		FAIL
Factory Reset (System will restart when selecting YES)	RESET	YES
		NO

* CEC-OTP: HDMI-CEC ONE TOUCH PLAY is a HDMI function on the soundbar that automatically switches between HDMI sources. (E.g. Auto switch to ARC mode when a TV is powered on). By turning OFF the One Touch Play, you can manually select the input sources by using soundbar remote or Harmony universal remotes.

TV   HDMI 2   HDMI 3

HDMI 4   OPT   COAX

AUX   USB

MUSIC   MOVIE   GAME

NIGHT   DSP

ALL CH STEREO   SURROUND

SETUP   INFO   RETURN

sse+

◄   ENTER   ►

sse−

BASS   VOL

CR+   TR+   SS+   SB+

CR−   TR−   SS−   SB−

SYSTEM MEMORY

1   2   3

BLUETOOTH MODE ONLY

▶❙❙   ■   ❙◀◀   ▶▶❙

# 3   UNDERSTANDING YOUR REMOTE CONTROL

E.   ACCESSING ROOM SIZE BUTTON

For instant surround optimization to Small, Medium and Large Rooms, there are 3 pre-tuned acoustic environments. To access:

1. Press **SETUP** (⚙) button several times to access Room Size (RM SIZE)
2. Press ◄ / ► button to change the SELECTION value (SMALL, MED, LARGE)
3. Press **ENTER** button to save setting value.

Selection	Options	Size (Sq ft.)	Dimensions (Length x Width (ft))
RM Size (Default: Med)	SMALL	196	14 x 14
	MED	324	18 x 18
	LARGE	484	22 x 22 or bigger

LARGE ROOM

(≥ 12.1ft)

Left   Right

(≥ 9.8ft)   (≥ 9.8ft)

(≥ 8.2ft)   (≥ 8.2ft)

MEDIUM ROOM

(9.8ft)

Left   Right

(8.2ft)   (8.2ft)

(6.5ft)   (6.5ft)

SMALL ROOM

(6.5ft)

Left   (6.5ft)   (6.5ft)   Right

(5ft)   (5ft)
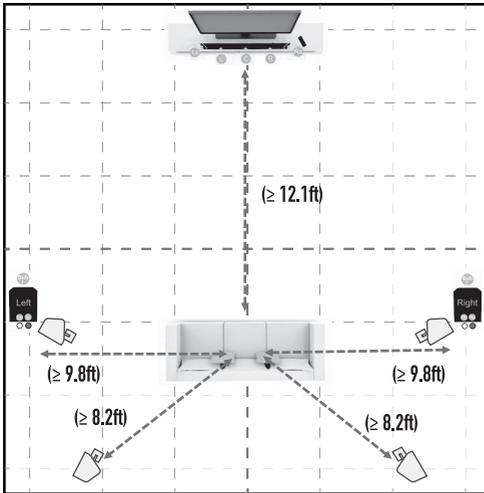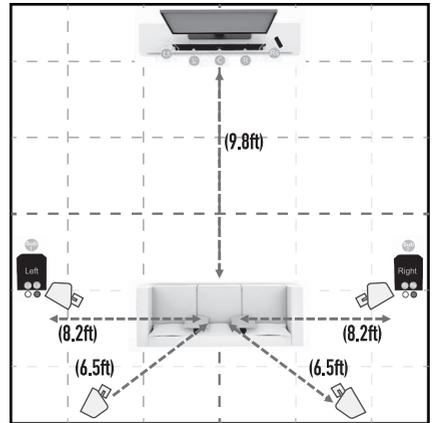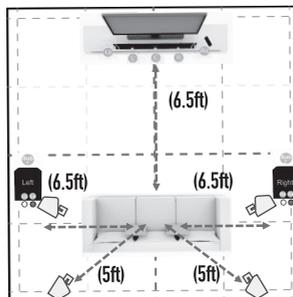
3   UNDERSTANDING YOUR REMOTE CONTROL

G   ACCESSING SSE MAX MODE

SPATIAL SURROUND ELEVATION (SSE) MAX MODE

Activate the most immersive 360° cinema, music and gaming experience by unlocking the full potential of SSE MAX state of the art hardware and software performance technologies. The next best thing to being there! (SSE MAX OFF = No vertical surround effects)

WHAT IS SSE MAX

Spatial

Performs spatial-amplification techniques to unlock extra details, enhance directionality and enlarge spaciousness of the surround sound experience.

Surround

Executes upmixing, phase and volume improvements to optimize the clarity and balance of the surround sound across all channels, delivering up to 9.2.4 channels.

Elevation

Enables the processing of all the latest 3D object-based content, including Dolby Atmos, and interlaces a height effects sound layer.
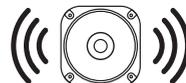
Max

Precisely-tuned acoustic hardware brought by high-output amplifiers, extended range twin-cone drivers, upgraded subwoofer drivers and silk dome surround effects tweeters.

SSE1 MAX

(8.2ft)

(6.5ft)   (6.5ft)

(3.3ft)   (3.3ft)

SSE2 MAX

(11.5ft)

(8.2ft)   (8.2ft)

(5ft)   (5ft)

SSE3 MAX

(≥ 14.8ft)

(≥ 9.8ft)   (≥ 9.8ft)

(≥ 6.5ft)   (≥ 6.5ft)
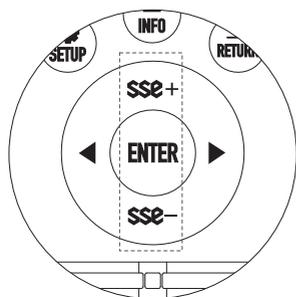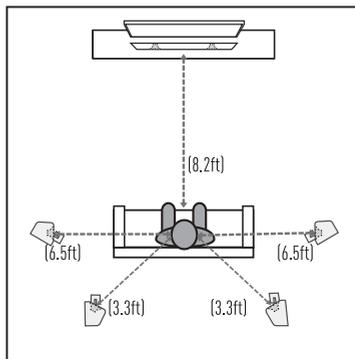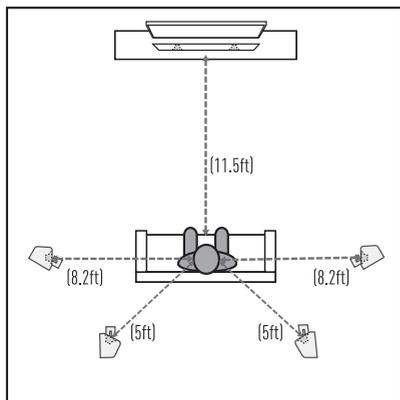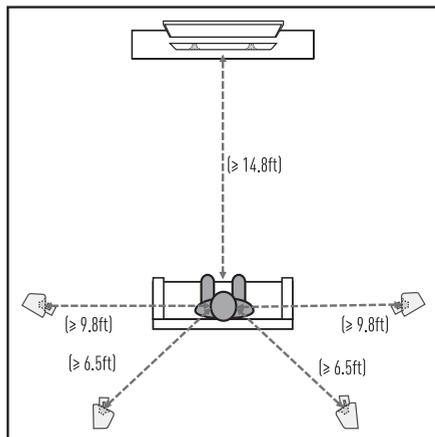
3 UNDERSTANDING YOUR REMOTE CONTROL

H ACCESSING INFO BUTTON

Firmware version
FW XX

Audio Format
(DOLBY ATMOS TRUEHD, DOLBY ATMOS
D PLUS, DOLBY TRUEHD, DOLBY ATMOS
MAT, DOLBY D PLUS, DOLBY DIGITAL,
DTS X, DTS-HD MA, DTS HD, DTS
DIGITAL, LPCM 7.1, LPCM 5.1, PCM 2.0)

HDMI-CEC One Touch Play
CEC-OTP ON, CEC-OTP OFF

Upmixing Format
(**DOLBY SURR**, DOLBY UPMIX,
NEURAL X, DTS DIRECT, NATIVE, ALLCH
STEREO, STEREO ONLY)

Surround Left Overall Balance
LSURR -3 (L-3) to LSURR+3 (L+3)

EQ Mode
(**MOVIE**, MUSIC, GAME, NEWS, SPRTS
or DSP OFF)

Surround Right Overall Balance
RSURR -3 (R-3) to RSURR+3 (R+3)

SSE Max Mode
SSE1 Max to **SSE3 Max**, SSE OFF (Note:
When ALLCH STEREO / STEREO ONLY is
selected, SSE Max Mode is disabled)

Cross Over Frequency
CROSS 130Hz, CROSS 150Hz, **Cross 180Hz**

**Wireless Subwoofer Channel
Selection**
WL Auto, WL C1 to WL C6

Eco Mode (Power Saving)
ECO ON, ECO OFF

Brightness
DIM 0 = Display with auto shut off
DIM 1 to **DIM 3** = Brighter to brightest

DRC (Dynamic Range Control)
DRC OFF, DRC 50, DRC 100, DRC AUTO

LIP Sync
00ms to 200ms

Surround On / Off
SURR ON, SURR OFF

Room Size
RM SMALL, **RM MED**, RM LARGE

Note: Value highlighted in bold are the default settings of the soundbar

3 UNDERSTANDING YOUR REMOTE CONTROL

I SAVING AUDIO SETTINGS TO SYSTEM MEMORY

Three sets of audio settings can be saved onto the soundbar's memory, allowing quick access to your audio preferences.
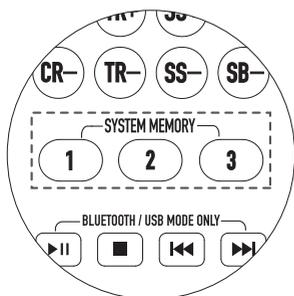
Function	Button	LED Digits on Soundbar
SYSTEM MEMORY	Customized Memory 1 Long press to Save 1 Once saved, show M1SET	SAVE1
		M1SET
	Customized Memory 2 Long press to Save 2 Once saved, show M2SET	SAVE2
		M2SET
	Customized Memory 3 Long press to Save 3 Once saved, show M3SET	SAVE3
		M3SET

Saving Settings to System Memory
1. Hold down the SYSTEM MEMORY 1 / 2 / 3 button until "SAVE1" / "SAVE2" / "SAVE3", corresponding to the button pressed, is displayed on LED.
2. When the SYSTEM MEMORY 1 / 2 / 3 settings are saved, "M_SET" is displayed.

Loading the Setting
Press the SYSTEM MEMORY 1 / 2 / 3 button once and the corresponding settings will be loaded. If the SYSTEM MEMORY 1 button is pressed, "M1" will be displayed.

💡 **Tip**
1. You can override any saved settings by holding down the system memory button.
2. The following audio settings can be saved to system memory:
   a) EQ Mode
   b) Volume
   c) Bass
   d) Treble
   e) Center
   f) Surround L&R
   g) Surround Back L&R

4   WIRELESS BLUETOOTH AUDIO STREAMING

A   BLUETOOTH 5.0 WITH APTX™ HD

Stream music wirelessly from your favorite devices via Bluetooth (BT) with Qualcomm aptX™ HD. aptX™ HD enables Bluetooth to transmit audio at a maximum bitrate up to 1.8× higher than standard Bluetooth codecs, enabling 24-bit high-resolution audio to be transmitted wirelessly. Bluetooth 5.0 also brings meaningful improvements to wireless stability, allowing your favorite devices to stream audio content to the soundbar at further distances than previous Bluetooth protocols.

Maximizing Signal
If you hear any break-up or disconnect while streaming music from your device, move the source device closer to the soundbar.

Note: Soundbar will be switched to ALL CHANNEL STEREO in Bluetooth mode.

B   BLUETOOTH FUNCTIONS

To pair the soundbar with a Bluetooth device:

1. Set your Bluetooth device into Bluetooth pairing mode (discoverable)
2. Press and hold the Bluetooth (�) button on the remote control until the LED display on the soundbar shows ¨BT¨ blinking.
3. You can now search for the soundbar (SHOCKWAFE) using your Bluetooth device, and connect to it. For more information, refer to the user documentation of your device.
4. Play audio from your Bluetooth device. Volume can be controlled on your source device or soundbar remote control.

Note: If the soundbar detects a Bluetooth device that was previously connected, the soundbar will automatically connect to your Bluetooth device after Step 2.

To disconnect the soundbar with a paired Bluetooth device:

1. Press and hold the Bluetooth (✻) button on the remote control until the LED display on the soundbar shows ¨BT¨ blinking.
2. The soundbar is ready to pair with new device.

To switch to Bluetooth mode:

Press the BT button once (Note: holding down the BT button will trigger the device pairing mode for the soundbar)

To pair BT with voice assistants like **Google Home or Amazon Alexa**, scan QR code on the right or visit the link: **bit.ly/92earc-va-pairing**

Your soundbar is not equipped with a microphone, so it cannot operate as a hands-free device for a smartphone.

Reduce the volume levels on your device and on the soundbar before pressing Play. High volume levels can damage your hearing.

# 5 RE-PAIRING SUBWOOFERS WITH THE SYSTEM
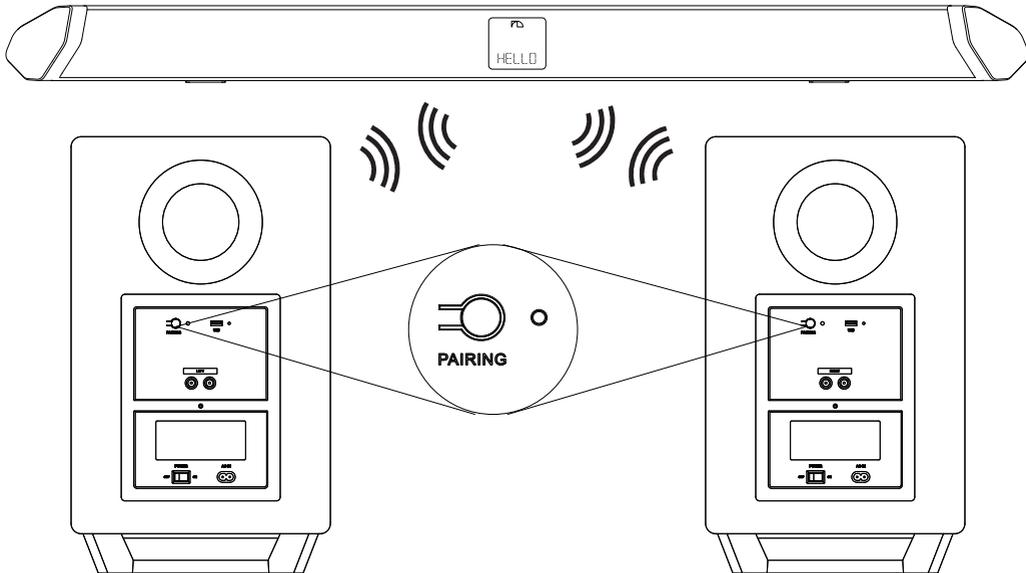
1. Ensure the soundbar and two subwoofers are powered **OFF**
2. Power **ON** the soundbar and switch to **USB input**
3. Power **ON** the LEFT subwoofer
4. Power **ON** the RIGHT subwoofer
5. Press and hold **PAIRING** button at the back of LEFT subwoofer until the **BLUE LED** light starts blinking rapidly
6. Press and hold **PAIRING** button at the back of the RIGHT subwoofer until the **BLUE LED** light starts blinking rapidly
7. Pair the soundbar to the subwoofers in 2 ways:
   a. On the soundbar
      i. Press and hold the **DEMO** button until "PAIR-" is shown on LED display.
   b. On the remote control
      i. Press the **SETUP** button on remote control
      ii. Press the ◀ / ▶ button until **"SUB PAIR"** is displayed on the LED display
      iii. Press **ENTER** and the "PAIR-" will be shown on LED display
8. The soundbar will now begin the pairing process with the subwoofers (LED display: "PAIR-")
9. Once the pairing process is completed, the soundbar's LED display will show "DONE" and the blue LED at the back of both subwoofers will stay lit constantly

Note:
• Once soundbar is powered off, the blue LED lights on the subwoofers will continue blinking for 10 minutes before going into standby mode.
• Steps 7 to 8 must be completed while the BLUE LED light of both subwoofers are blinking rapidly.

6 INSTALLING THE WALL MOUNT
A MOUNTING SOUNDBAR

Wall-Mount Screw Holes

Back View

Wall Mount Screw
Screw Size: M4 x 10
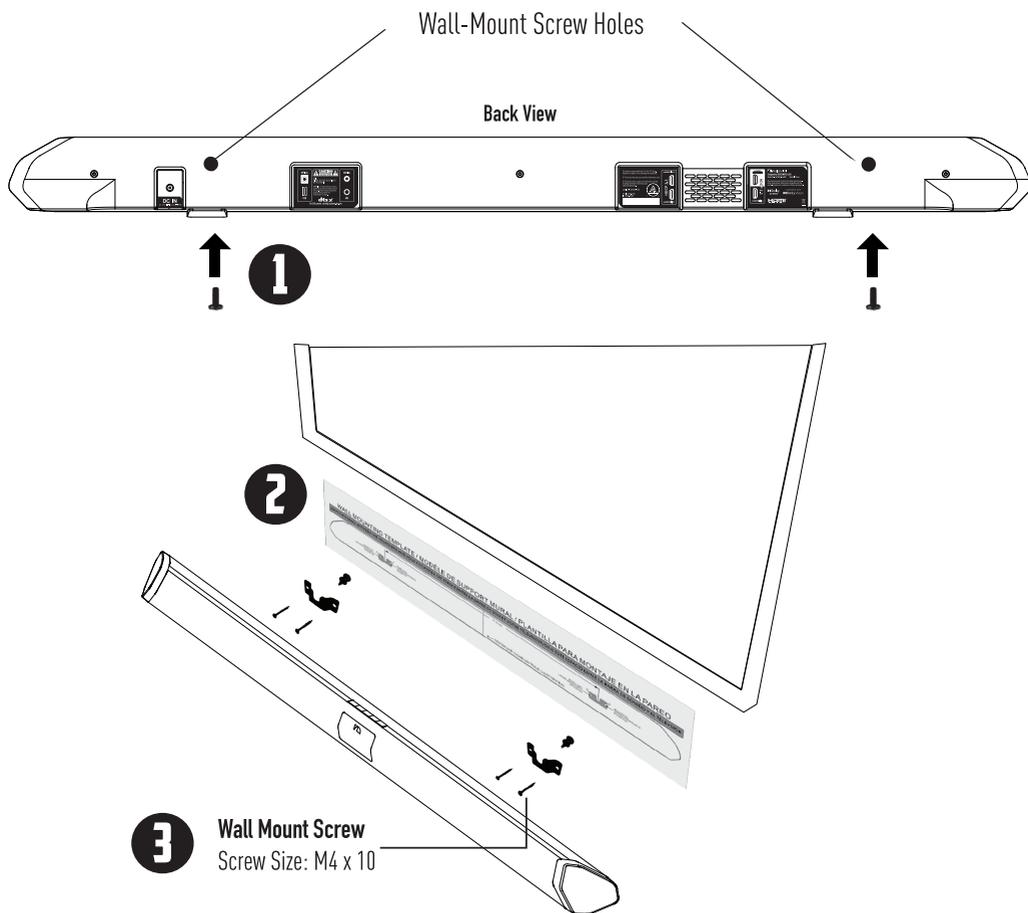
1. Insert the 2 mounting screws into the wall-mount screw holes, and tighten them.

2. Place the included wall-mounting template against the wall under your TV. Mark the 4 bracket holes using a pencil.

3. Be sure your screws are attached to wood studs, drywall anchors (for drywall), or concrete anchors (for brick / concrete walls).

   Choose the screw type and length appropriate to your home's construction. If in doubt, consult a professional installer.

> ⚠ If you are unfamiliar with power tools or the layout of electrical wiring in the walls of your home, consult a professional installer.

6   INSTALLING THE WALL MOUNT
B   MOUNTING SURROUND SPEAKERS

To wall-mount the satellite speakers:

1. Attach the mounting screws to the back of the satellite speaker.
2. Align and mount the satellite speaker with the wall mount bracket

Note: Be sure your screws are attached to wood studs or drywall anchors (for drywall) or concrete anchors (for brick / concrete walls). Wall mounting tools are not included.

⚠️ If you are unfamiliar with power tools or the layout of electrical wiring in the walls of your home, consult a professional installer.

BEST SURROUND: DETACHED

Mounting
Screws
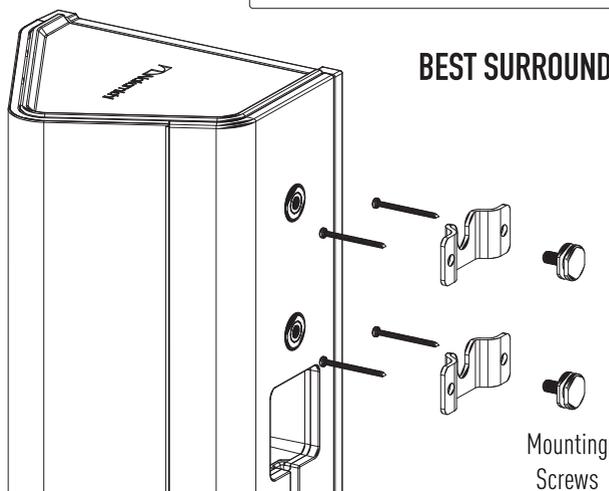
GOOD SURROUND: ATTACHED (DIPOLE)

Mounting
Screws
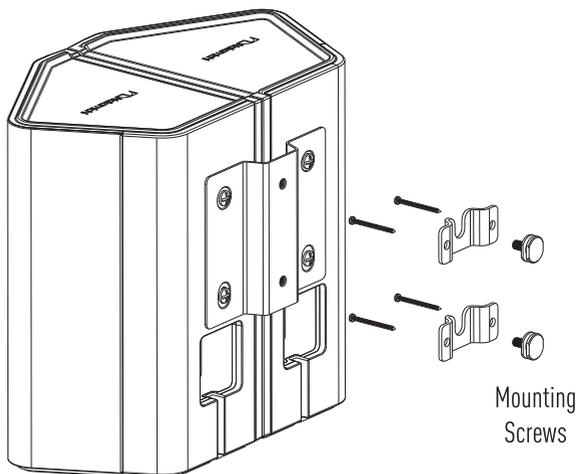
7   FIRMWARE UPGRADE

Firmware upgrades that provide additional features and performance improvements are released periodically. For more information, visit **bit.ly/92earc-firmware**

This procedure must only be done with official firmware files that are provided by Nakamichi and created for your soundbar model. Failure to do so may result in a bricked/malfunctioning soundbar that will not be covered by warranty.

Checking the firmware version:
On the remote control toggle the INFO button until the LED display ¨FWXX¨. The firmware version will be displayed.

Installing the firmware:
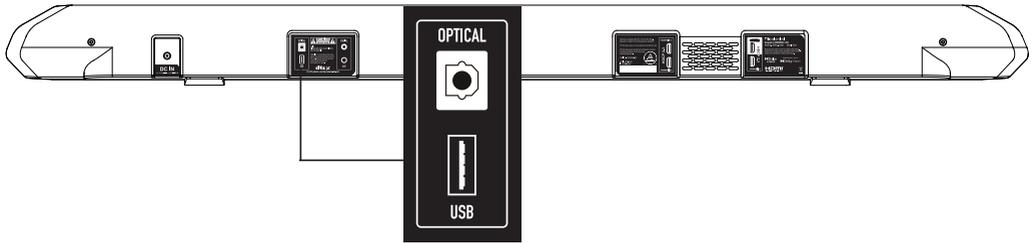
1. Insert the USB stick* with the **unzipped firmware file (.BIN format)** into the soundbar's USB port
2. Press the **SETUP button** on the remote control several times until you see **"FWUPG"**
3. Press and hold the **ENTER button until "UPG--"** is displayed on front LED display
4. Firmware upgrading process will be displayed on the LED screen
5. Once the firmware is completed, the soundbar will restart automatically
6. Press **SETUP** button to navigate to **Reset function** to reset your soundbar. Press **ENTER**

*USB Stick Specs: USB2.0 and above; Max Drive Size: 32GB; Format: FAT16 / FAT32

Checking the firmware version:
Firmware upgrade process may take up to 1-10 minutes, depending on versions. Update progress is displayed on the front panel display when the firmware is upgrading. During each upgrading stage, there will be a numeric percentage to show its progress.

UPGRADING	UPG--

MCU	MCU00
DSP	DSP00
HDMI	HDM00
Wireless	TX00
Bluetooth	BT00

DONE	DONE
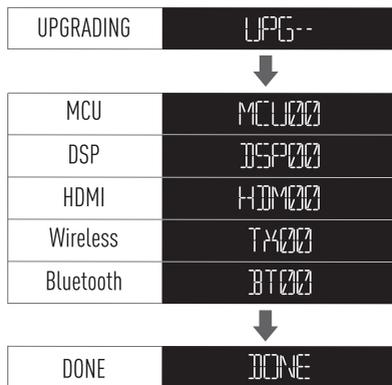
Note: If the soundbar is on the latest firmware, **"FW UP TO DATE"** will be displayed on the soundbar LED display.

8   SPECIFICATIONS

SOUNDBAR
6 x 2.75" Full Range Driver
2 x 1" High Frequency Tweeter

SURROUND LEFT & RIGHT
1 x 3" Full Range Driver (Each Side)
1 x 1" High Frequency Tweeter (Each Side)

SURROUND BACK LEFT & RIGHT
1 x 3" Full Range Driver (Each Side)
1 x 1" High Frequency Tweeter (Each Side)

WIRELESS LEFT & RIGHT SUBWOOFERS
1 x 10" Down Firing Driver (Each Side)

CONNECTIVITY
HDMI (Dolby Vision & 4K HDR Pass-Thru)
HDMI Out (eARC to TV) x 1 [HDCP 2.3]
HDMI Input x 3 [HDCP 2.3]
USB x 1 (For Firmware Upgrade Only)

DIGITAL AUDIO
Optical Input x 1
Coaxial Input x 1
Analog AUX Audio Input x 1
Bluetooth 5.0 with aptX™ HD

PERFORMANCE
Channels: 9.2
Sound Pressure Level (SPL): 113dB

Total Power: 1300W
Power Output:
400W (Soundbar)
150W (Surround Left & Right Each)
150W (Surround Back Left & Right Each)
600W (Subwoofers)

Frequency Response: 20Hz - 20kHz

AUDIO PROCESSING
Dolby Atmos, Dolby TrueHD, Dolby Atmos MAT, Dolby Digital Plus, Dolby Digital, DTS:X, DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS Digital Surround

REMOTE CONTROL
43-Key Backlit LED
6 EQ Modes – Movie, Music, Game, News, Sports, Night

DIMENSIONS (L x W x H), WEIGHT & POWER RATING
Soundbar: 45.5 x 3.0 x 3.6 Inch, 6.0lbs.
Subwoofer: 12.0 x 13.6 x 20.2 Inch, 23.8lbs. (Each)
Satellite Speaker: 4.8 x 5.6 x 8.1 Inch, 2.9lbs. (Each)

Power Input:
Soundbar: 100 - 240V, 50 / 60Hz
Subwoofer: 110 - 240V, 50 / 60Hz

9   WARRANTY INFORMATION & SUPPORT

LIMITED WARRANTY (U.S. Only)

Nakamichi LLC ("Nakamichi") warrants this product against defects in material or workmanship for the time periods and 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, 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 your unit. 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

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 any you may have other rights which vary from state to state.

CUSTOMER SUPPORT

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

Visit our website at **www.nakamichi-usa.com/faq**
Email us at **support@nakamichi-usa.com**
Phone Support: **+1 (415) 805 6913** (Weekdays 10am - 6:45pm PST; Saturday, Holidays 10am - 5pm PST)
Join our Community: **community.nakamichi-usa.com**

10   GLOSSARY

This section explains the technical terms used in this user manual.

Dolby Atmos object-based audio
Dolby Atmos is an object-based audio format with the capability to reproduce up to 128 simultaneous objects. Every sound in a scene can be represented as a separate audio object that can be positioned and moved throughout the 3D space. For more information, visit https://www.dolby.com/us/en/brands/dolby-atmos.html

Dolby Vision
Dolby Vision transforms your TV experience with dramatic imaging with incredible brightness, contrast, color, details and dimensionality. And with the advanced capabilities in Dolby Vision, you'll see there's more to the story that generic HDR cannot reveal.

Dolby TrueHD
Dolby TrueHD is a lossless multi-channel audio codec developed by Dolby Laboratories which is used in home-entertainment equipment such as Blu-ray disc players and soundbar systems. It competes with DTS-HD Master Audio, a lossless codec from DTS.

Dolby Digital Plus
Dolby Digital Plus, also known as Enhanced AC-3 is a digital audio compression scheme developed by Dolby Labs for transport and storage of multi-channel digital audio. This format is commonly found on many streaming services, including Netflix, Amazon Prime, Disney+, HBO Max and many more.

Dolby Digital
Dolby Digital is a compressed digital audio format developed by Dolby Laboratories, Inc. that supports 5.1-channel audio. This technology is used for audio on most DVD discs.

Dolby Surround
Dolby Surround expands on stereo to deliver sound from the sides, behind, and even above you, creating a natural, multidimensional sonic environment based on the science of how humans hear. Dolby audio in your home theater improves the power, clarity, and realism of sound by upmixing content into 9.2 Channels of sound with height dimension.

Dolby Upmix
Dolby Upmix expands on stereo to deliver sound all around you by offering up to 9.2 channels of sound. It is designed to bring cinematic surround sound to your home.

DTS:X object-based audio
DTS:X uses a technology called object-based audio that processes each sound contained in an audio source as an "object" and memorizes each object's sound changes and positional changes in a sound field to control these changes during playback. For more information, visit https://dts.com/dtsx

DTS-HD Master Audio
DTS-HD Master Audio is an advanced lossless audio format developed to offer a high-definition home theater experience by DTS, Inc. It is commonly found on Blu-ray discs and it can carry up to eight channels of 96kHz / 24-bit audio (up to six channels of 192kHz / 24-bit audio) simultaneously.

DTS-HD High Resolution Audio
DTS-HD High Resolution Audio is a compressed digital audio format that supports 7.1-channel and up to 96kHz / 24-bit audio. It remains fully compatible with the existing DTS multichannel audio systems.

DTS Digital Surround
DTS Digital Surround is a compressed digital audio format developed by DTS that supports 5.1-channel audio. This technology is used for audio on most DVD discs.

NEURAL:X
Neural:X is the latest down-mixing / up-mixing and spatial remapping technology from DTS. It is built in to DTS:X to provide upmix of Neural:X-encoded data. In DTS:X for soundbars, Neural:X can produce up to 11.x channels.

DTS:X Dialog Control
DTS:X Dialog Control allows you to boost the volume of dialog, increasing its intelligibility. People with impaired hearing may also benefit. Note: Content creators may disable the use of this feature on their content, so this feature may not always be available.

PCM (Pulse Code Modulation)
PCM is a signal format under which an analog audio signal is digitized, recorded, and transmitted. This is the basis of digital audio. Linear PCM is a lossless audio format sampled in a linear format, without any audio encoding. It provides the best audio compatibility among different devices.

Lip Sync
Video output sometimes lags behind audio output due to the complexity of signal processing caused by an increase in video signal capacity and internet streaming delay. Lip Sync is a technique to compensate the timing lag between audio and video output.

Dynamic Range Control (DRC)
DRC is an audio signal processing operation that reduces the volume of loud sounds, while amplifying quiet sounds. This reduces (or compresses) an audio signal's dynamic range. DRC is also known as volume normalization.

Power Saving (ECO Mode)
Designed to prevent electrical wastage and promote eco-friendliness. ECO Mode automatically puts the system to standby mode when there is no signal detected for 20 minutes.

Spatial Surround Elevation (SSE) Max Processing Technology
A state of the art architecture of hardware and software performance technologies that activates the most immersive 360° cinema, music and gaming experience. For more info, visit www.nakamichi-usa.com/shockwafe-ssemax

Subwoofer Crossover Frequency
The subwoofer crossover frequency is the frequency at which your speakers start to roll off and your subwoofer kicks in with low frequency effects and bass notes.

10 GLOSSARY

HDMI
HDMI (High-Definition Multimedia Interface) is the world-wide standard interface for digital audio/video signal transmission. This interface transmits both digital audio and digital video signals using a single cable without any loss. HDMI complies with HDCP (High-bandwidth Digital Content Protection) and provides a secure audio/video interface. For further information on HDMI, visit the HDMI website at "http://www.hdmi.org/".

HDMI ARC / eARC
HDMI Audio Return Channel (ARC) / enhanced Audio Return Channel (eARC) offers two-way communication between your soundbar and TV over a single HDMI connection. Essentially, the HDMI ARC port lets you use HDMI as both an input and an audio output.

HDMI-CEC CONTROL
HDMI-CEC Control allows you to operate external devices via HDMI. If you connect a TV that supports HDMI CEC control to the soundbar with an HDMI cable, you can control the soundbar (such as power and volume) with TV remote control operations. Operation available from the TV's remote control:
• Standby synchronization.
• Volume control, including mute.

HDCP
HDCP (High-bandwidth Digital Content Protection) is a digital copy protection form that prevents copying of digital contents as it travels across connections (such as HDMI).

What is aptX™ HD?
Qualcomm® aptX™ HD was designed to answer the growing demand for high resolution audio. This enhanced codec supports 24-bit music quality over Bluetooth. This allows listeners to hear even the smallest details in their music.

The soundbar is compatible with the following audio formats:

Audio Signal Types	Audio Signal Formats	Compatible Media
2 Ch Linear PCM	2 Ch, 32-192kHz, 16 / 24-bit	CD, DVD-Video, DVD-Audio, etc.
Multi-ch Linear PCM	7 Ch, 32-192kHz, 16 / 24-bit	DVD-Audio, Blu-ray disc, HD DVD, etc.
Bitstream (SD Audio)	Dolby Digital, DTS	DVD-Video, etc
Bitstream (HD Audio)	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS Digital Surround, DTS-HD High Resolution Audio, DTS-HD Master Audio, DTS:X	Online streaming media, Blu-ray disc, HD DVD

HDMI (ARC / eARC)

Audio Signal Types	Audio Signal Formats	Compatible Media
2 Ch Linear PCM	2 Ch, 32-192kHz, 16 / 24-bit	TV / TV ARC / TV eARC
Bitstream (5.1ch)	Dolby Digital, DTS Digital	TV / TV ARC / TV eARC
Bitstream (DD+)	Dolby Atmos Digital Plus	TV ARC / TV eARC
Bitstream	Dolby Atmos Digital Plus, Dolby Atmos TrueHD, DTS-HD MA, DTS:X	TV ARC / TV eARC

DIGITAL AUDIO SIGNAL (OPTICAL/COAXIAL)

Audio Signal Types	Audio Signal Formats	Compatible Media
2 Ch Linear PCM	2 Ch, 32-192kHz, 16 / 24-bit	CD, DVD-Video, DVD-Audio, etc.
Bitstream (5.1ch)	Dolby Digital, DTS Digital	DVD-Audio, etc.

• Refer to documentation supplied with the playback device, and set the device appropriately.
• To decode audio bitstream signals on this unit, set the input source device appropriately so that the device outputs bitstream audio signals directly. Refer to documentation supplied with the device for details.

11   LEGAL & COMPLIANCE

FCC Class B Radio Interference Statement
NOTE: 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:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. 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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice:
1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

FCC RF Radiation Exposure Statement
1. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
3. FCC RF Warning
   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 20cm 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.

Disposal and Recycling
You must dispose of this product properly, according to local laws and regulations. Because this product contains electronic components and a battery, it must be disposed of separately from household waste. Contact local authorities to learn about disposal and recycling options.

Logo	Description
■Dolby ATMOS COMPATIBLE WITH ■Dolby Vision	Manufactured under license from Dolby Laboratories. Dolby, Dolby Atmos, Dolby Surround, Dolby Vision Compatible and the double-D symbol are trademarks of Dolby Laboratories.
dts x	For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, DTS in combination with the Symbol, DTS:X, and the DTS:X logo are registered trademarks or trademarks of DTS, Inc. in the United States and/or other countries. ©DTS, Inc. All Rights Reserved.
HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE	The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
® Bluetooth®	The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Nakamichi LLC is under license. Other trademarks and trade names are those of their respective owners.
Qualcomm® aptX™ HD	Qualcomm® aptX™ HD is a product of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. aptX™ is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries.

12 HELP & TROUBLESHOOTING

1. HDMI ARC eARC – No Sound or Video
Performing a Soundbar Soft Reset can restore the soundbar settings back to factory default and refresh HDMI settings.

If your TV's connected to another sound system via HDMI previously, perform a *Soundbar & TV Hard Reset + HDMI Connection Refresh* to establish a new HDMI handshake.

Soundbar Soft Reset:
1. Press **SETUP** button multiple times to locate **RESET** function
2. Press **ENTER** button to select the function
3. Press **ENTER** button again to confirm **RESET** function
4. The soundbar will restart automatically to complete the reset sequence.

(¨HELLO¨ appears on soundbar LED and it will be back to TV ARC / eARC mode by default)

Soundbar & TV Hard Reset + HDMI Connection Refresh
1. While all source devices are on, disconnect **all HDMI cables** connected to TV and soundbar as well as TV to soundbar
2. **Power OFF** TV, soundbar and all source devices
3. **Unplug all devices** from the AC outlets
4. **Wait for 5 minutes** before plugging the TV, soundbar and source devices back to the AC outlets
5. **Power ON** the soundbar, TV and all source devices
6. While they are on, **connect the TV and soundbar via HDMI ARC / eARC**.

Once the connection is established, connect other source devices one at a time. Use Perfect Device Matching Tool on Pg 17 to create a customized setup guide based on your source devices.

2. Soundbar Intermittent Cut Out or No Sound
Perform a soft reset on the soundbar with the following steps:
1. Press the **SETUP** button
2. Toggle and select **"RESET"**
3. Press **ENTER** button
4. **Disconnect the source device** that is having issues from the soundbar or TV. **Unplug the source device** from the AC outlet for **5 minutes** before powering it back on
5. While the **source device is on, connect** it to the soundbar or TV. Use **Perfect Device Matching Tool (bit.ly/device-matching-tool)** to create a customized setup guide based on your device
6. Get the best performance using the recommended **AUDIO (bit.ly/audio-settings) + VIDEO (bit.ly/video-settings)** settings

3. No Sound from Surround Speakers
Press the **"ALL CH STEREO"** or **"SURROUND"** buttons on the remote to enable Dolby Surround, Dolby Upmix or All Channel Stereo to get sound from all speakers.

4. Subwoofer or Surround Speakers Sound Abnormalities – Cut Out / Crackling / Popping / Distorting:
When there is a wireless device (E.g. Wireless LAN) using the same frequency (5.8Ghz) in near range to the soundbar (can be your neighbor's Wi-Fi router), the wireless connection between Subwoofer and Surround Speaker could become unstable. In this case, you can change the frequency channel as below:

1. Press **SETUP** button on the remote a few times until soundbar LED displays ¨**WL CH**¨
2. Use the **LEFT or RIGHT** arrow to change the frequency channel*
3. Press **ENTER** button on the remote

*****Notes:**
1. The default channel ¨WL AUTO¨ 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. WL C1 - WL C6 are available for selection, depending on the type of interference
3. Changing the radio frequency channel may affect the performance of other near wireless devices (e.g., wireless LAN) using the same frequency bandwidth
4. Below is the table of the various radio frequencies and their respective channels we are using for each selection

Selection	Channels	Frequency (MHz)
Auto (Default)	149, 151, 153, 155, 159, 161, 163	5736, 5762, 5814
WL C1	32, 33, 34, 35, 36	5180
WL C2	38, 39, 40, 41, 42, 43, 44, 45, 46	5210
WL C3	46, 47, 48, 49, 50	5240
WL C4	149,151	5736
WL C5	151,153, 155	5762
WL C6	159, 161, 163	5814

If you are still having issues, visit:
bit.ly/92earc-subwoofers-audio-distortion. For other subwoofer related issues, visit: **bit.ly/92earc-dual-subwoofers-faq**

For expanded FAQ, scan QR code or visit: **bit.ly/92earc-faq**

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NEED HELP WITH YOUR SHOCKWAFE?
Flip this side of the manual open for commonly asked questions.

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