

STOP PLEASE DO NOT RETURN THIS UNIT ONE-STOP SUPPORT SOLUTION

customer care support@nakamichi-usa.com (415) 805 6913

(Weekdays 10am - 6:45pm PST; Saturday, Holidays 10am - 4:45pm PST)

SPEAK to our shockwafe ninjas in usa today

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 these instructions.
- Keep these instructions
- Heed all warnings.
- Follow all instructions.
- Do not use this 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 tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to gualified 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 insure 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 object 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 any 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 35 degree Celsius 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 instal ation 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.





This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the 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 an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance



/4/

'!`

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

Package Contents	4
Controls and Connections	5
Setting up Your Home Theater	
1. Speaker Placements	8
2. Connecting Surround Speakers to Subwoofers	10
3. Turning On Your Soundbar System	11
4. Connecting Your TV	12
5. Listening to Your Soundbar	14
6. Setting up Your TV	15
7. Connecting Your Content Devices	16
8. Setting up Your Content Devices	21
Controlling the Soundbar	
Remote Control Overview	22
Selecting Different Input Sources on Your Remote	23
Accessing Audio Presets on Your Remote	24
Accessing Advanced System Settings on Your Remote	25
Accessing Channel Mapping/Upmixing on Your Remote	26
Accessing Menu Functions on Your Remote	27
Accessing SSE Mode on Your Remote	28
Accessing Info on Your Remote	29
Accessing Room Size on Your Remote	30
Saving Audio Settings to System Memory	31
Wireless Bluetooth Audio Streaming	32
Re-linking the Subwoofers with the Soundbar	33
Wall-Mounting Your Soundbar System	34
Firmware Upgrade	36
Help & Troubleshooting	37
Specifications	38
Warranty Information & Customer Support	39
Glossary	40
Legal & Compliance	42

PACKAGE CONTENTS



1 x Soundbar



1 x Wireless Subwoofer



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

2 x Surround Speaker Audio Cables (Length: 32.8 ft.)



2 x Surround Speakers



1 x HDMI Cable (Length: 5 ft.)



1 x Remote Control with Batteries



1 x Digital Optical Cable (Length: 5 ft.)



3.5mm Audio Cable (Length: 4 ft.)



2 x Mounting Screws (Soundbar)

12 x Wall Screws and Brackets



4 x Mounting Screws (Satellite Speakers)

Soundbar Power Adapter (Length: 5 feet)



6 x Soundbar and Satellite Wall Mount Brackets

WALL MOUNTING TEMPLATE / MODELE DE S	SUPPORT MURAL / PLANTILLA PARA MONTAJE EN LA PAREO

Mounting Guide

CONTROLS & CONNECTIONS



REMOTE CONTROL

- Remove the battery cover by pulling it down from the remote
- Insert the included batteries and gently push the battery 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 your soundbar.

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

DID YOU KNOW?

Once HDMI-CEC is set up, TV's HDMI-CEC has taken control over soundbar's remote ON/OFF and other functions. Those functions will not longer work on the soundbar remote.

Back of Subwoofer



SETTING UP YOUR HOME THEATER **SPEAKER PLACEMENTS**

OPTION A (Best): 7.1CH SURROUND

Recommended speaker placement with optimal distance. Actual distance can vary based on actual room layout.

For recommended speaker stands, scan OR code or visit: bit.lv/71-speaker-stands





The bottom speaker driver of the surround speakers should be at ear level and 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/71-speaker-stands**



OPTION B: ALL ELEVATION

Lay the surround speakers down (drivers tilted upward in 2 modes, see illustration on the right) to enhance the vertical effects to bounce off the ceiling of your room.



Elevation 1: Vertical Effects-Centric Mode Elevation 2: Hybrid 360° Surround with Vertical Effects

Note: Recommended speaker placement with optimal distance. Actual distance can vary based on actual room layout.



CONNECTING SURROUND SPEAKERS TO SUBWOOFERS

Connect the Surround LEFT and RIGHT BACK satellite speakers to the subwoofer using the included satellite speaker audio cables.



TURNING ON YOUR SOUNDBAR SYSTEM



Note: Once soundbar is powered off, the blue LED lights on the subwoofer will continue blinking for 10 minutes before going into standby mode.

CONNECTING YOUR TV • Options for connecting your TV: HDMI BEST, OPTICAL BETTER, COAXIAL BETTER (See next page)



Back of Soundbar





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 system, etc.). See page 20 CONNECTING YOUR CONTENT DEVICES
- * Cable appearance may differ from the ones supplied.
- [†] If there is no audio during the setup, see page 37 for Help & Troubleshooting
- ‡ Cable not included



place the objects in relevant positions.

SETTING UP YOUR TV

All units sold since Aug 2019 can receive Dolby Atmos surround via TV's eARC when streaming with TV's smart apps like Netflix (Note: not all TVs can output Atmos.)

What is HDMI Audio Return Channel (ARC)?

Using HDMI ARC, your TV can send audio to the soundbar using a HDMI cable. You will need to connect your soundbar to your TV's HDMI ARC port using a high speed HDMI 2.0 cable.

Audio settings for TV*

Setting the audio output: A) Go to Settings > Sound B) Select Speaker Settings C) Set as HDMI Audio Out

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

What is CEC?

CEC is a 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^{\dagger}

From the SYSTEM menu, enable CEC and ARC $(SAC)^{\dagger}$ 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 for the soundbar, see page 25.

- * 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), Hitachi (HDMI-CEC). Naming may differ based on TV brand. See your TV's user manual for more information.

Visit **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



7 CONNECTING YOUR CONTENT DEVICES HDMI CONNECTION SETUP

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



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 port which the soundbar is connected.

Back of Soundbar



Connect devices with the same HDCP standards for seamless switching between sources. If there are devices with different HDCP standards, connect all HPCP 2.2 devices to soundbar while connecting HDCP 1.4/2.0/2.1 devices to TV to avoid audio and video instability.

* Cables may appear differently from the ones supplied.

7 CONNECTING YOUR CONTENT DEVICES (CONT.) NON-HDMI CONNECTION SETUP

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

on Optical, Coaxial and Aux connections





7 CONNECTING YOUR CONTENT DEVICES 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





7 CONNECTING YOUR CONTENT DEVICES (CONT.) Advanced setup - four-device setup for tv without hdmi arc

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





7 CONNECTING YOUR CONTENT DEVICES CONNECTIONS CENTRAL - RECOMMENDED CONNECTION BASED ON DEVICES



SETTING UP YOUR CONTENT DEVICES RECOMMENDED AUDIO SETTINGS FOR BEST AUDIO

APPLE TV[®] 4K (5th Gen)

Setting Audio Output:

Settings > Video and Audio > Audio > Audio Output > select HDMI Setting Audio Format:

- Settings > Video and Audio > Audio >
- 1. Audio Mode > select Auto
- 2. Reduced Loud Sounds > select OFF
- 3. Audio Format >
- A. Change Format > select OFF
- B. Dolby Atmos > select ON

APPLE TV® (4th Gen)

Setting Audio Output:

Settings > Video and Audio > Audio > Audio Output > select Apple TV Setting Audio Format:

Settings > Video and Audio > Audio > Surround Sound > select Dolby Digital 5.1

AMAZON FIRE® TV CUBE / FIRE® TV 4K

Settings > Display & Sounds > Audio > select Dolby Digital Plus over HDMI

NOTE: When plugging Fire TV 4K directly to TV, set TV audio's digital output format > select Dolby Digital

ROKU[™] ULTRA 4K / ROKU[™] 4 / ROKU[™] 3 Setting Audio Format:

Roku Ultra 4K: Settings > Sound > HDMI > select *Dolby D+, DTS* (Required for Netflix, Amazon and Hulu streaming) Roku 4 and 3: Settings > Audio > Audio Mode > select *DD/DTS*

ROKU™ MEDIA STICK

Recommended Setup: Connect the device directly to TV via HDMI port and send out audio to soundbar via ARC

Setting Audio Format:

- ROKU Audio Settings: Settings > Sound > HDMI > select Dolby D+. DTS (Required for Netflix, Amazon and Hulu streaming)
- 2. TV Audio Settings: Digital Output Format > select **Dolby Digital**

NVIDIA® SHIELD

Setting Audio Format:

- 1. Nvidia Shield Audio Settings: Settings > Display & Sound > Other > Advanced Settings >
- a. Stereo Upmix > turn On (For 2015 model only)
- b. HDMI 5.1 Audio > turn On (For 2017 model only)

PLAYSTATION® 4 PRO

Setting Audio Output:

Settings > Sound and Screen > Audio Output Settings > Primary Output Port > select *HDMI Out* (Uncheck Output 5.1ch Audio box to allow 7.1ch Audio output)

Setting Audio Format:

- 1. System Level Audio Settings:
- Settings > Sound and Screen > Audio Output Settings > Audio Format (Priority) > select **Dolby Digital** (Best for Netflix streaming)
- Blu-ray Player Audio Settings: (Available when playing Blu-ray disc) Press Option button on controller > Settings > audio format > select Bitstream (Direct)

XBOX® ONE X

Setting Audio Format:

- 1. System Level Audio Settings: System > Settings > Display & Sound > Audio Output > Speaker Audio >
- a. HDMI Audio > select Bitstream Out
- b. Bitstream Format > select Dolby Atmos for Home Theater
- 2. Blu-ray Playback Audio Settings:
 - Settings > Disc & Blu-ray > Blu-ray >
 - a. Let my receiver decode audio > *Enable* (Check the box)
 b. Pass Blu-ray audio directly to your receiver? > select *Pass* audio to receiver

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 > Automatic

2. TV Audio Settings: Digital Output Format > select Dolby Digital

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



SAMSUNG BLU-RAY™ PLAYER

Setting Audio Output:

Settings > Sound > Sound Output > select HDMI Audio Setting Audio Format: Settings > Sound > Audio Output Format > select Bitstream (Unprocessed)

SONY[®] BLU-RAY[™] PLAYER

Setting Audio Output:

Setup > System Settings > HDMI Audio Output > select Auto Setting Audio Format:

Setup > Audio Settings >

- 1. Digital Audio Output > select Auto
- 2. DSD Output Mode > select **Off**
- 3. BD Audio MIX Setting > select Off
- 4. DTS Neo:6 > select Off
- 5. DSEE HX > select Off
- 6. Downmix > select Surround

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

A) Go to Setting B) Select Audio Codec C) Select HDMI or Optical D) Set Audio Range to Normal E) Set Audio Output to Fixed

Above is the recommended audio settings for a list of popular devices. For full list of devices with our recommended audio settings, visit nakamichi-usa.com/best-sound or scan QR code on the right.

If your device is not listed on our website, please refer to its own user manual.



REMOTE CONTROL OVERVIEW

For expanded remote control guide, scan QR code or visit: **bit.ly/71-shockwafe-remote**



Turn ON/OFF the soundbar

② PLAY/PAUSE ►II

Play/pause audio playback (Bluetooth/USB mode only)

- ③ STOP Stop audio playback (Bluetooth/USB mode only)
- INPUT SOURCE
 Select an audio input source (See page 23 for more details)
- 5 SYSTEM MEMORY

Save your personalized audio settings (See page 31 for details)

6 EQ (EQUALIZER)

Select different audio equalization presets (See page 24 for details)

7 STEREO ONLY

Activate All Channel Stereo or Stereo Only

(8) SETUP ¢

Access to advanced system settings (HDMI ARC/2/3/4 mode only, see page 25)

(9) ◀ / ▶ BUTTON

Toggle different settings (SETUP/MENU function only)

1 ENTER BUTTON

Select desired settings (SETUP/MENU function only)

11 RETURN 🛥

Return to the previous selection (SETUP/MENU function only)

12 BASS + / -

Adjust the bass level

13 CENTER +/-

Adjust the center channel level

(SS + / - (SURROUND SIDE)

Adjust the volume of both side surround channels

15 SB + / - (SURROUND BACK)

Adjust the volume of both back surround channels

22 * 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 system.



(16) MUTE ₫

Mute/unmute the soundbar

17 NEXT ►

Skip to the next track (Bluetooth/USB mode only)

18 PREVIOUS I◄

Return to the previous track (Bluetooth/USB mode only)

19 NIGHT

Normalize volume for night time listening (Dolby/DTS:X audio only, see page 24 for details)

20 DIRECT

Select different channel mapping/upmixing methods (See page 26 for details)

Access to Firmware upgrade and wireless subwoofer pairing (USB mode only, see page 27 for details)

22 SSE + / -

(SPATIAL SURROUND ELEVATION PROCESSING)

Select different SSE modes (See page 28 for details)

23 INFO

Display system information on the soundbar LED display (See page 29 for details)

24 ROOM SIZE

Select a pre-defined optimized room size (See page 30 for details)

25 VOL + / - (VOLUME)

Adjust the master volume of the soundbar

26 LED DISPLAY 🔅

Select between 3 pre-defined brightness for the front LED Display. (DIM 0 = Display light will shut off automatically)

27 TR + / - (TREBLE)

Adjust the high tones (treble) level

28 🗢 + / - (LIP SYNC)

Adjust the deviations in timing between audio and video playback (HDMI 1 to 4, Optical or Coaxial input only, see page 41 for details)

29 SUR (SURROUND ON/OFF)

SUR: All-channel surround sound

SUR: Surround speakers will be disabled

SELECTING DIFFERENT INPUT SOURCES ON YOUR REMOTE

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

Button	5 LED DIGITS on Soundbar
HDMI ARC	AR(_
HDMI 2	HIMIE2
HDMI 3	HIMI 3
HDMI 4	╞┥╗┝┑ <u>╕</u> ┖┥
OPT (OPTICAL)	(Clout
COAX (COAXIAL)	(<u>[</u>]]AX
∦ BLUETOOH	<u>181</u>
AUX	Fillx
USB	US3

For expanded remote control guide, scan QR code or visit: bit.ly/71-shockwafe-remote





ACCESSING AUDIO PRESETS ON YOUR REMOTE

EQ (EQUALIZER)

Press the EQ buttons on your remote to select your desired EQ settings for your preference. The system will remember the last setting.

MUSIC MUSIC Creates the acou front of the stage		Creates the acoustic environment of your music and makes you feel like you are seated in front of the stage.
MOVIE MOVIE Reproduces the thrilling environment and takes you to the center of the dynamic excitement.		Reproduces the thrilling environment and takes you to the center of the action. Feel the dynamic excitement.
	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.
	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.
CLEAR VOICE CLEAR VOICE Enhances the clarity		Enhances the clarity of dialog playback.
DSP OFF	POFF DSP OFF Audio playback without using any pre-defined Nakamichi EQ settings.	





For expanded remote control guide, scan QR code or visit: **bit.ly/71-shockwafe-remote**

MUSIC			
MOVIE	MOVIE		
GAME	(SFRMEE		
NEWS	NEINS		
SPORTS	SPRTS		
CLEAR VOICE	CLEAR VOICE		
DSP OFF	JCP ()pp		

NIGHT MODE

Night mode feature normalizes the overall volume to avoid sudden changes in loudness. This feature is available with DTS:X and DOLBY contents on HDMI, HDMI ARC, Optical and Coaxial inputs.

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

DRC OFF	DRC OFF
DRC 50%	DRC SM
DRC 100%	1000 1770
DRC AUTO	DRC AUTO

ACCESSING ADVANCED SYSTEM SETTINGS ON YOUR REMOTE (ONLY ACCESSIBLE ON HOMI ARC/2/3/4 MODE)



To use SETUP function, **switch to HDMI ARC/2/3/4** input. SETUP function applies to all input sources.

1. Press the SETUP (**(**) button to cycle through different system settings.

→ DRC → ECO → CROSS → RSURR -----

RESET -D FRQ DIALG CEC-OTP* LSURR

2. Press ENTER to select desired function for adjustment.

3. Available actions:

- a. Press < i 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 settings value.

* **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.

Function	SELECTION	OPTIONS
		OFF
DTS:X & DOLBY	DRC	50%
Compression (DRC)*	(Default OFF)	100%
,		AUTO
Power Saving*	ECO	OFF
	(Default ON)	ON
		110HZ
Subwoofer Crossover Frequency*	CROSS (Default 180HZ)	140HZ
	(,	180HZ
Volume Balance for RIGHT Surround and Rear Speakers	RSURR (Default 00)	-3 to +3
Volume Balance for LEFT Surround and Rear Speakers	LSURR (Default 00)	-3 to +3
HDMI-CEC: One Touch	CEC-OTP	OFF
Play	(Default ON)	ON
DTS:X Dialog Control* (For DTS:X content only)	DIALG (Default +3)	DIA+1 to DIA+6
Dedicated Frequency	ON	DF ON**
(D FRQ)	OFF	DF OFF (Default)
Factory Reset	DESET	YES
(System will restart when selecting YES)	REGEI	NO

ACCESSING CHANNEL MAPPING/UPMIXING ON YOUR REMOTE

CHANNEL MAPPING

Channel mapping/upmixing is essential because most content is 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.

Dolby Upmixing (Available for Dolby and PCM contents)

	NATIVE Direct decode 2.1/5.1/7.1 channel audio (No audio upmixing). Best for music and Bluetooth.		NATIVE	NATIVE
DIRECT	DOLBY UPMIX	Dolby technology upmixes audio content to all audio channels.	DOLBY UPMIX]][]L_]YL]PM1I
	DOLBY SURR (DEFAULT)	Dolby technology upmixes audio content to all audio channels with vertical surround effects. (see page 41 for details)	DOLBY SURROUND	DOLBY SURP

DTS Upmixing (Available for DTS content only)

	NATIVE Direct decode 2.1/5.1/7.1 channel audio (No audio upmixing). Best for music and Bluetooth.		NATIVE	NATIVE
DIRECT	DTS DIRECT	System DSP upmixes audio content to all audio channels.	DTS DIRECT	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 page 40 for details)	NEURAL: X	NEELJERFAL_ X

ALL CHANNEL STEREO / STEREO ONLY Mode*

ALLCH STEREO	DTS, DOLBY & PCM	Enables 3 channel (Left, Center, Right) playback on the soundbar. Front channels are upmixed and outputted to surround speakers.	ALLCH STERED STERED DNI V
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.	
	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.	

26 Note: For Bluetooth input, ALL CH STEREO mode will be turned ON by default. 26 * Available on latest firmware (FW35 onwards) only. See page 36 for instructions on checking firmware version and upgrading.



ACCESSING MENU FUNCTIONS ON YOUR REMOTE (ONLY ACCESSIBLE ON USB MODE)



To use MENU function, please switch to **USB** input. **Navigating the MENU SELECTION:**

1. Press the MENU (≡) button cycle through different function (FWUPG -> SUB PAIR)



MENU	SELECTION	FUNCTIONS
		UPGRADING
(See page 37 for details)	FWUPG	DONE
		FAIL
WIRELESS	SUB PAIR	PAIRING
SUBWOOFER PAIRING		DONE
(See page 34 for details)		FAIL

- 2. Available actions:
- a. Press </ >
 button to change the SELECTION FUNCTIONS
- b. Press ENTER to select desired function.
- c. Press RETURN (→) button to quit the current action and back to MENU (=) list to select different function
- d. Press MENU (≡) button to exit MENU (≡) function

3. Press ENTER to confirm

For expanded remote control guide, scan QR code or visit: bit.ly/71-shockwafe-remote



ACCESSING SSE MODE ON YOUR REMOTE



SPATIAL SURROUND ELEVATION (SSE) MODE

Shockwafe Pro 7.1 SSE is embedded with 3 proprietary advanced processing engines that unlock 7.1.4ch all-around surround



effects

(SSE OFF = No vertical surround effects)

WHAT IS SSE PROCESSING?



Performs spatial-amplification

and enlarge spaciousness of

techniques to unlock extra





ELEVATION

Executes upmixing, phase and volume improvements to details, enhance directionality optimize the clarity and balance of the surround sound across the surround sound experience all channels, delivering up to 7.1.4 channels

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

SSE 1



SSE 2



SSE 3



ACCESSING INFO ON YOUR REMOTE



** Xbox One X/S and Apple TV 4K come with a Dolby Atmos MAT encoder, which is designed to encode, decode and incorporate Dolby Atmos metadata into lossless pulse-code modulation (PCM) audio, allowing listeners to experience Dolby Atmos even in PCM audio.

ACCESSING ROOM SIZE ON YOUR REMOTE

For instant surround optimization to Small, Medium and Large rooms, there are 3 pretuned acoustic configurations.



...

(6.5ft)

Room Size	Small	Medium (Average)	Large
Square feet	196	324	484 or more
Room dimension: Length x Width (feet)	14 x 14	18 x 18	22 x 22 or bigger







(9.8ft)

(6.5ft)





SAVING AUDIO SETTINGS TO SYSTEM MEMORY



Two sets of audio settings can be saved onto the soundbar's memory, allowing quick access to your audio preferences.

	FUNCTION	BUTTON	5 LED DIGITS ON SOUNDBAR
	SYSTEM MEMORY	Customized Memory 1 Long press to SAVE1 Once saved, show M1SET	5AVE1
			M15ET
		Customized Memory 2 Long press to SAVE2 Once saved, show M2SET	594022

Saving settings to system memory:

- Hold down the SYSTEM MEMORY 1 or 2 button until "SAVE1" or "SAVE2", corresponding to the button pressed, is displayed on LED.
- **2.** When the SYSTEM MEMORY 1 or 2 settings are saved, "M1SET" or "M2SET" is displayed.

If system settings are already stored in the selected memory 1 or 2, the system overwrites the old settings.

Loading settings

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

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

WIRELESS BLUETOOTH AUDIO STREAMINGBLUETOOTH 4.1 WITH APTXBLUETOOTH PAIRING

Stream music wirelessly from your mobile device via Bluetooth (BT) with aptX. BT audio transmission is often compressed using bit-rate reduction. Qualcomm aptX audio technology uses larger transmission bandwidth to allow higher resolution audio streaming, reproducing pure sound as good as wired connection.

Maximizing Signal

A Bluetooth signal has a range of up to 30 feet. 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.

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

To pair the soundbar with a Bluetooth device:

- 1. Set your Bluetooth device into Bluetooth pairing mode (discoverable)
- 3. You can now search for the soundbar (SHOCKWAFE) using your Bluetooth device. 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 the Bluetooth device after Step 2

To disconnect the soundbar with a paired Bluetooth device:

- Press and hold down 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 a new device.

RE-LINKING THE SUBWOOFERS WITH THE SOUNDBAR



During production, NAKAMICHI has already paired the subwoofer with the soundbar. However, they may need to be re-linked if there is no sound coming out from the subwoofer.



Turn off your TV speakers when programming your soundbar.



- 1. Ensure the soundbar and subwoofer are powered OFF
- 2. Power ON the subwoofer
- Press and hold PAIRING button at the back of the subwoofer until the BLUE LED light start blinking rapidly
- 4. Power ON the soundbar

- 5. Pair the soundbar to the subwoofer in 2 ways:
 - a. On the remote control
 - i. Press the USB button on remote control to toggle USB mode
 - ii. Press the menu button and toggle to SUB PAIR option
 - iii. Press ENTER and the "PAIR-" will be shown on LED display
 - b. On the soundbar
 - i. Press the ∃ button on the soundbar to toggle USB mode
 - ii. Press and hold the DEMO button until "PAIR-" are shown on LED display.
- 6. The soundbar is in subwoofer pairing mode (LED display: "PAIR-")
- Once the linking process is completed, the soundbar's LED display will show "DONE" and the Blue LED at the back of the subwoofer will stay lit constantly

WALL-MOUNTING YOUR SOUNDBAR SYSTEM SOUNDBAR



2

A

WALL-MOUNTING YOUR SOUNDBAR SYSTEM (CONT.) SURROUND SPEAKERS

To wall-mount the surround speakers:

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



- 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.

FIRMWARE UPGRADE

Firmware upgrades that provide additional features and performance improvements are released occasionally. For more information, visit **nakamichi-usa.com/71-sse-firmware**

Do not perform this procedure unless firmware upgrade is necessary. Be sure to read the information supplied with the firmware before upgrading the firmware.

CHECKING THE FIRMWARE VERSION:

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

SOUNDBAR FIRMWARE UPGRADE



- 1. Insert the USB stick with the unzipped firmware file (.BIN format) into the soundbar's USB port
- 2. Press the USB button on the remote control to USB mode
- Press MENU button to navigate firmware upgrade function (FWUPG on LED display)
- 4. Press and hold the ENTER button until "UPG--" is displayed on front LED display
- 5. Firmware upgrading process will be displayed on the LED screen
- 6. Once the firmware is completed, the soundbar will restart automatically

Firmware upgrade process **may take up to 5 to 10 minutes**. 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.



Once the firmware is completed, the soundbar will restart automatically to default factory settings.

If the soundbar detected the same firmware version installed, "FW UP TO DATE" will be displayed on the soundbar LED display.

HELP & TROUBLESHOOTING

1. HDMI ARC/CEC - 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. Switch to HDMI ARC input
- 2. Press SETUP button multiple times to locate RESET function
- 3. Press ENTER button to select the function
- 4. Press ENTER button again to confirm RESET function
- 5. The soundbar will restart automatically to complete the reset sequence.

("HELLO" appears on soundbar LED and it will be back to **ARC** 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. Once the connection is established, connect the source devices one at a time. Use Perfect Device Matching Tool on page 22 to create a customized setup guide based on your source devices

For web support, visit <u>https://bit.ly/nakamichi-faq</u> or scan QR code

 Subwoofer or Surround Speakers Cut Out / Crackling / Popping: Enable dedicated frequency communication between the soundbar and the subwoofers & rear speakers. (*Available on FW34 firmware only)

1. Switch to any HDMI ARC input

2. Press $\ensuremath{\textbf{SETUP}}$ button on the remote a few times until soundbar

- LED displays "D FRQ"
- 3. Use the LEFT or RIGHT arrow to select "DF ON"
- 4. Press ENTER button on the remote

If you are still having issues with your subwoofers, visit: bit.ly/71-subwoofer-audio-distortion. For other subwoofer related issues, visit: bit.ly/71-subwoofer-faq

* To check for firmware version, press **INFO** button on the remote control multiple times until you see FWXX on the soundbar front LED panel.

3. The Soundbar or the Subwoofer Does Not Power On

Please contact **support@nakamichi-usa.com** so we can work on a replacement (within 30 days of purchase). The system comes with a **1 year parts and labor warranty**.

4. No Sound from Surround Speakers

Press the "**DIRECT**" or "**STEREO**" buttons on the remote to enable Dolby Surround, Dolby Upmix or All Channel Stereo to get sound from all speakers

5. Low Volume from Surround Speakers

Press the "STEREO" button on the remote to enable All Chanel Stereo for maximum surround speakers output. Best for YouTube[™] and music.



SPECIFICATIONS

SOUNDBAR

6 x 2.5" Full Range Driver 2 x 1" High Frequency Tweeter

SURROUND BACK LEFT & RIGHT

1 x 3" Full Range Driver (Each side) 1 x 1" High Frequency Tweeter (Each side)

WIRELESS SUBWOOFER

1 x 8" Down Firing Driver

CONNECTIVITY

HDMI (Dolby Vision & 4K HDR Pass-Thru) HDMI Out (ARC to TV) x 1 [HDCP 2.2] HDMI Input x 3 [HDCP 2.2]

DIGITAL AUDIO

OPTICAL Input x 1 COAXIAL Input x 1

Analog AUX Audio Input x 1 BLUETOOTH 4.1, with aptX USB x 1

PERFORMANCE

Channels: 7.1 Sound Pressure Level SPL: 105 dB Total Power: 600W Power Output: 330W (Soundbar) 90W (Surround Back Left & Right) 180W (Subwoofer) Frequency Response: 35Hz – 22kHz

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

52-Key Backlit LED 7 EQ Modes – Movie, Music, Sports, News, Game, Clear Voice, Night

DIMENSIONS, WEIGHT & POWER RATING

Soundbar: $45.5 \times 3.5 \times 3.0$ Inches, 7.27 lbs. Subwoofer: $9.5 \times 12 \times 20.5$ Inches, 19.1 lbs. Satellite Speaker: $5.0 \times 5.4 \times 8$ Inches, 2.8 lbs. (Each) Power Input: Soundbar: 100 - 240V, 50/60 Hz Subwoofer: 110 - 240V, 50/60 Hz

ONE YEAR LIMITED WARRANTY

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

Thank you for your purchase of this Product.

If you have any questions or comments, please visit our website at www.nakamichi-usa.com/faq or email us at support@nakamichi-usa.com Phone Support: (415) 805 6913 (Weekdays 10am - 6:45pm PST; Saturday, Holidays 10am - 4:45pm PST)

GLOSSARY

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

Spatial Surround Elevation (SSE) Processing Technology

Nakamichi's proprietary processing technology. A set of processing algorithms that takes surround sound performance to a whole new level. For more info, visit nakamichi-usa.com/shockwafe-sse

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 A/V receivers. 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, and 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 offering up to 7.1 discrete surround channels and up to 9.1 channels of sound with height dimension.

Dolby Upmix

Dolby Upmix expands on stereo to deliver sound all around you by offering up to 7.X discrete surround channels and up to 9.X channels of sound. It is designed to bring cinematic surround sound to your home.

DTS:X object-based audio

DTS:X uses a new 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 gound field to extra these observed during playback. For more information winit

a sound field to control these changes during playback. For more information, visit 40

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 96 kHz/24-bit audio (up to six channels of 192 kHz/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 96 kHz/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 dialog, making the dialog more intelligible. People with impaired hearing may also benefit. Note that the content creator may disable the use of this feature in the mix, so that DTS:X Dialog Control 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 or amplifies quiet sounds thus reducing or compressing an audio signal's dynamic range. This 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.

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.

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-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.

The soundbar is compatible with the following audio formats:

Audio signal types	Audio signal formats	Compatible media
2ch Linear PCM	2ch, 32-192 kHz, 16/24 bit	CD, DVD-Video, DVD-Audio, etc.
Multi-ch Linear PCM	7ch, 32-192 kHz, 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

 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 the bitstream audio signals directly. Refer to documentation supplied with the device for details.

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™?

Qualcomm® aptX[™] audio technology enhances the wireless sound quality of many of the world's finest smartphones, speakers, headphones and tablets. Previously, these devices often had a reputation for providing average quality sound via Bluetooth, but with aptX, Bluetooth-enabled products can overcome that barrier and consistently deliver higher quality audio wirelessly.

HDMI (ARC)

Audio signal types	Audio signal formats	Compatible media
2ch Linear PCM	2ch, 32-96 kHz, 16/24 bit	TV
Bitstream (5.1ch)	Dolby Digital, DTS Digital	TV

DIGITAL AUDIO SIGNAL (OPTICAL/COAXIAL)

Audio signal types	Audio signal formats	Compatible media
2ch Linear PCM	2ch, 32-96 kHz, 16/24 bit	CD, DVD-Video, DVD-Audio, etc.
Bitstream (5.1ch)	Dolby Digital, DTS Digital	DVD-Video, etc.

The soundbar is compatible with the following video resolution:

VGA	• 720p/60 Hz, 50 Hz
480i/60 Hz	• 1080i/60 Hz, 50 Hz
480p/60 Hz	• 1080p/60 Hz, 50 Hz, 30 Hz, 25 Hz, 24 Hz
576i/50 Hz	• 4K/60 Hz, 50 Hz, 30 Hz, 25 Hz, 24 Hz
576p/50 Hz	

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:

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

RF Exposure Information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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.





Manufactured under license from Dolby Laboratories. Dolby, Dolby Atmos, Dolby Surround, Dolby Vision Compatible and the double-D symbol are trademarks of Dolby Laboratories.



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.



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 is a product of Qualcomm Technologies International, Ltd. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries, used with permission. aptX is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries, used with permission.



