



User Guide

Powered Speaker

NX-70A

EN

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READ THIS FIRST

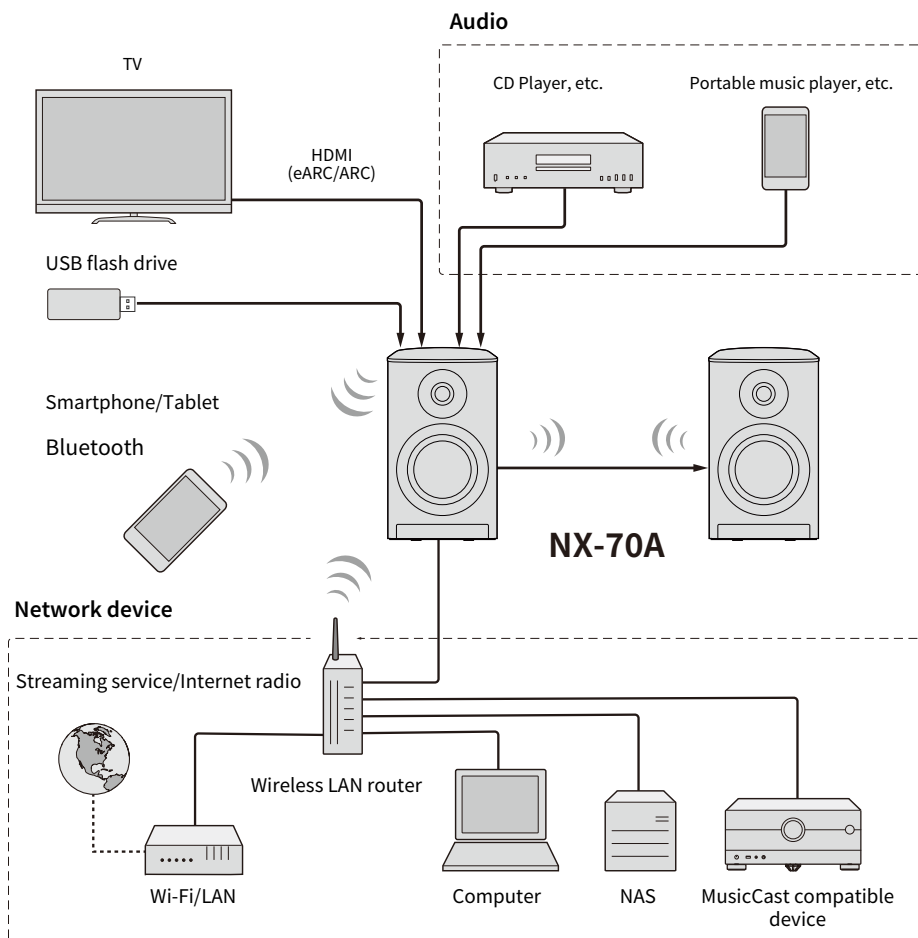
Features of this product

Thank you very much for purchasing this Yamaha product.

The NX-70A is a Powered Speaker designed for use by connecting to a TV or smartphone. With intuitive operation and convenient connectivity, it lets you enjoy refined sound to your heart's content.

■ Supports a wide range of input sources

This product supports playback from a variety of input sources.



■ **Compatibility with MusicCast**

This product is compatible with MusicCast.

Dedicated MusicCast app: “MusicCast Controller”



- With this app, you can easily enjoy music from smartphones, media servers(PC/NAS), Internet radio, and streaming services from anywhere in the home. You can also share music with MusicCast-compatible devices located in different rooms.
- For details on MusicCast and compatible devices, please visit the Yamaha website.
<http://www.yamaha.com/musiccast/>
- For more information about the app, search “MusicCast Controller” in the App Store or Google Play.

NOTE

The “MusicCast Controller” app is required for initial setup and for changing various settings of this product.

About the manuals

To ensure safe and proper use of this product, three types of manuals are provided (Safety Guide, Quick Guide, and User Guide). Please be sure to read each of the manuals that came with the product and keep them handy for easy reference.

Types of manuals

Safety Guide (included)

Explains important safety precautions required for using this product. Be sure to read this manual before use.

Quick Guide (included)

Explains the basic connections and operations to help you start using the product right after purchase.

User Guide (this guide)

Explains the main features and settings of the product. Also includes troubleshooting and firmware update explanations. This guide is available only on the website.

Cautions and other information in this guide are classified as follows:

Notation	Meaning
 CAUTION	Indicates information related to possible injury.
NOTICE	Indicates information that helps prevent product failure, damage, malfunction, or data loss, and ensures environmentally friendly use.
NOTE	Provides usage tips, limitations, and helpful supplementary information.

NOTE

- This guide describes the latest specifications available at the time of publication.
- The latest versions (PDF) of all guides (manuals) can be downloaded from the following website.
<https://download.yamaha.com/>

Safety precautions

Be sure to read the Safety Guide before using this product. Also observe the following precautions.



CAUTION

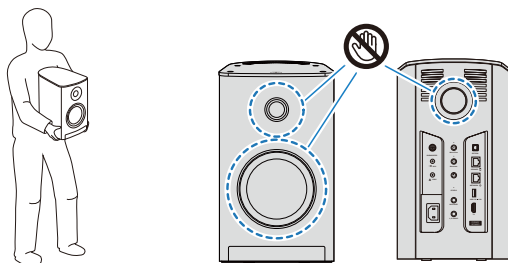
- To prevent hearing damage, be sure to observe the following points.
 - Do not listen at high volume levels for long periods.
 - Lower the volume temporarily before switching input sources.
 - Avoid sudden increases in volume.
When operating the product from a smartphone or tablet, the volume may change suddenly. Adjust the volume carefully.

This product includes the following volume control features for use. You can configure these settings using the “MusicCast Controller” app.

- **Maximum Volume**
Sets an upper limit for the output volume.
“Settings overview” (p.61)
- **Initial Volume**
Sets the volume level when the power is first turned on.
“Settings overview” (p.61)

NOTICE

- When carrying this product, hold it by the sides and bottom as shown in the figure. Holding the speaker unit on the front or the bass reflex port on the rear panel may apply excessive force and cause damage.



- “Front panel of the speakers” (p.12)
- “Rear panel of the speakers” (p.14)

Accessories

Checking the accessories

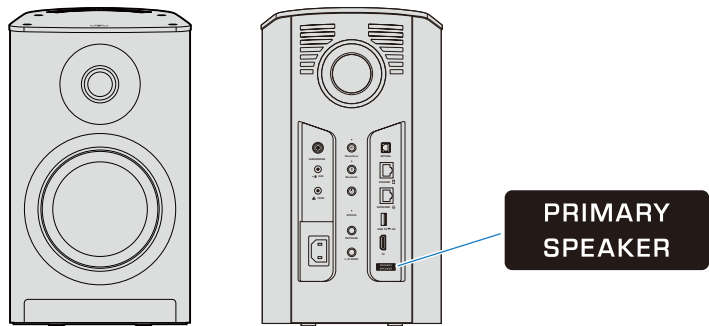
This product comes with the following accessories. Check and make sure that you have all of the supplied accessories.

■ Speaker unit

The speaker units are provided as a set of two.

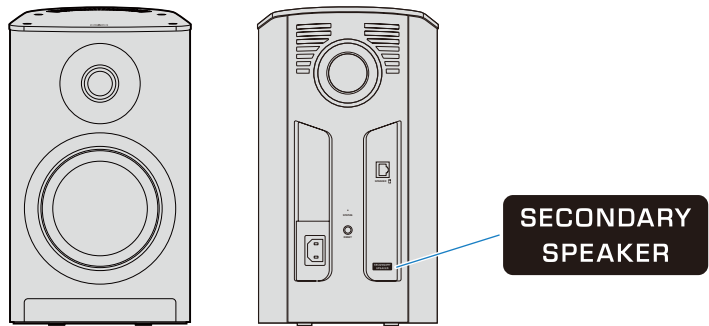
- PRIMARY speaker × 1

“PRIMARY SPEAKER” is indicated on the rear panel of the speaker.



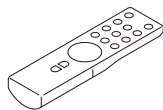
- SECONDARY speaker × 1

“SECONDARY SPEAKER” is indicated on the rear panel of the speaker.

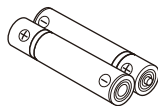


Accessories

☐ Remote control × 1



☐ Batteries (AAA, LR03, UM-4) × 2



☐ Power cord (2 m) × 2



☐ Network cable (for connecting left and right speakers) (3 m) × 1

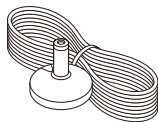
Used to connect the PRIMARY and SECONDARY speakers with a wired connection.



☐ HDMI cable (2 m) × 1

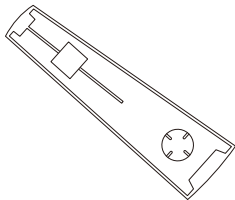


☐ YPAO microphone (6 m) × 1



Accessories > Checking the accessories

- ☐ Cardboard microphone stand (for YPAO) × 1



- ☐ Safety Guide × 1



- ☐ Quick Guide × 1



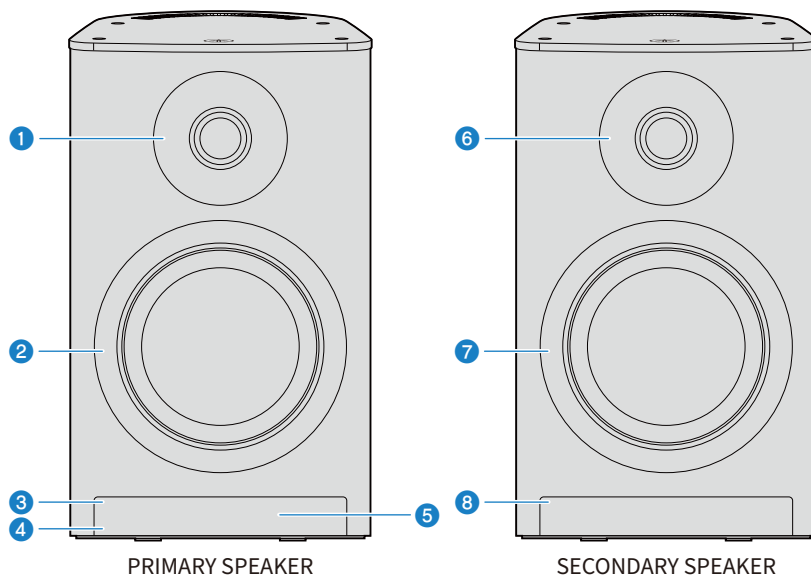
Related links

- “Preparing the remote control” (p.22)
- “Connecting the left and right speakers” (p.26)
- “Connecting a TV” (p.29)
- “Connecting the power cord” (p.33)
- “Automatic adjustment of speaker settings (YPAO)” (p.37)

NAMES OF PARTS AND THEIR FUNCTIONS

Front panel of the speakers

This section describes the names and functions of the parts on the front panel of the speakers.



Identifying the PRIMARY/SECONDARY speakers

- Check the rear panel of each speaker. "PRIMARY SPEAKER" or "SECONDARY SPEAKER" is indicated on the rear panel of each speaker. For more details, refer to the following.
 - "Rear panel of the speakers" (p.14)

■ PRIMARY speaker

The PRIMARY speaker controls the overall operation of this product, including connections to external devices and synchronization with the SECONDARY speaker. By default, it is configured to operate as the left (L) speaker.

1 **Tweeter**

2 **Woofers**

3 **Power indicator**

Lights white when the power is turned on.

4 **Remote control signal receiver**

Receives the signal (infrared) from the remote control (p.22).

5 Information display

Displays various information (p.18).

■ SECONDARY speaker

The SECONDARY speaker plays audio signals transmitted from the PRIMARY speaker. By default, it is configured to operate as the right (R) speaker.

The left and right speakers are automatically connected wirelessly by default. Power and audio playback are linked with the PRIMARY speaker, so no special operation is required. If necessary, you can switch to a wired connection using the supplied network cable (for connecting left and right speakers).

6 Tweeter

7 Woofer

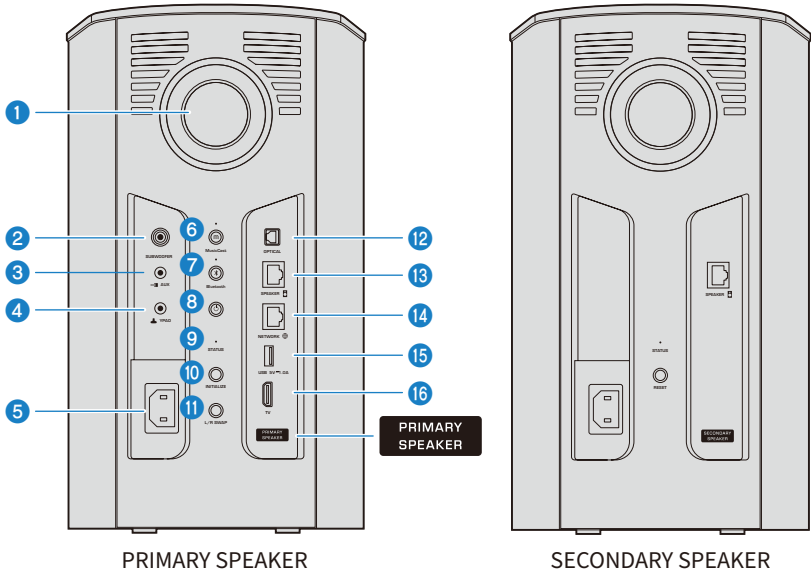
8 Power indicator

Lights white when the power is turned on.

Rear panel of the speakers

This section describes the names and functions of the parts on the rear panel of the speakers.

PRIMARY speaker



1 Bass reflex port

NOTICE

- Do not hold the speaker by the bass reflex port or insert any foreign objects (such as metal pieces or paper) into it. Doing so may result in a product breakdown.
- Air may be emitted from the bass reflex port. This is not a malfunction. This may occur particularly when outputting audio with strong low-frequency components.

2 [SUBWOOFER] output jack

For connecting to a subwoofer with a built-in amplifier (p.28).

3 [AUX] input jack

For connecting to an audio device with analog output, such as a portable music player (p.31).

4 [YPAO] microphone jack

For connecting the supplied YPAO microphone (p.37). Do not plug in commercially available microphones.

5 AC power input jack

For connecting the supplied power cord (p.33).

6 [M][MusicCast] button/indicator

Used when registering this product on the MusicCast Network (p.34). After launching the “MusicCast Controller” app, follow the app’s on-screen instructions.

The indicator flashes green while MusicCast network setup is in progress. It lights green when connected to the MusicCast network and when connected to a wired/wireless network.

7 [Ǝ][Bluetooth] button/indicator

Used when pairing with a Bluetooth device (p.48).

The indicator flashes blue during pairing and lights blue when a connection with a Bluetooth device is established.

8 [⏻] Power button

Turns the product on or off (standby mode) (p.42).

Also used to restart the PRIMARY speaker. Press and hold for more than 10 seconds to restart (p.64).

9 [STATUS] indicator

Lights white when the power is on, and turns off when the power is off (standby). It also blinks during operation or when an error occurs (p.78).

10 [INITIALIZE] button

Used to initialize the product (restore factory default settings) (p.64).

11 [L/R SWAP] button

Switches the left/right channel assignment of the speakers (p.24).

12 [OPTICAL] input jack

For connecting to external devices with an optical digital output (p.31).

13 [SPEAKER] jack

Used to connect the PRIMARY and SECONDARY speakers with a wired connection (p.26).

14 [NETWORK] jack

For connecting a network cable when connecting this product to a wired network (p.32).

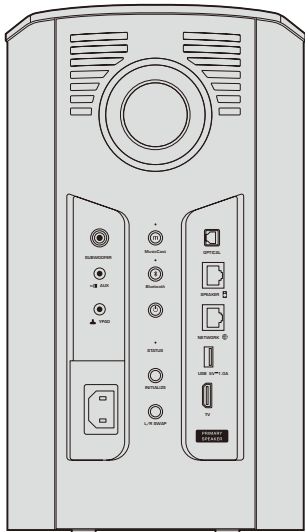
15 [USB] jack

For connecting a USB flash drive (p.50).

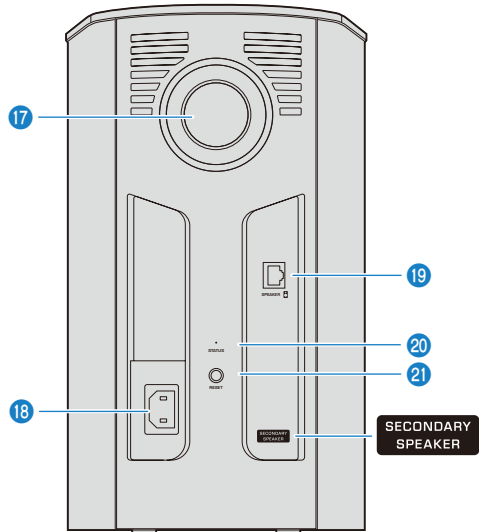
16 [TV] jack

For connecting to a TV using the supplied HDMI cable (p.29).

■ **SECONDARY speaker**



PRIMARY SPEAKER



SECONDARY SPEAKER

17 **Bass reflex port**

NOTICE

- Do not hold the speaker by the bass reflex port or insert any foreign objects (such as metal pieces or paper) into it. Doing so may result in a product breakdown.
- Air may be emitted from the bass reflex port. This is not a malfunction. This may occur particularly when outputting audio with strong low-frequency components.

18 **AC power input jack**

For connecting the supplied power cord (p.33).

19 **[SPEAKER] jack**

Used to connect the PRIMARY and SECONDARY speakers with a wired connection (p.26).

20 **[STATUS] indicator**

Lights white when the power is on, and turns off when the power is off (standby). It also blinks during operation or when an error occurs (p.78).

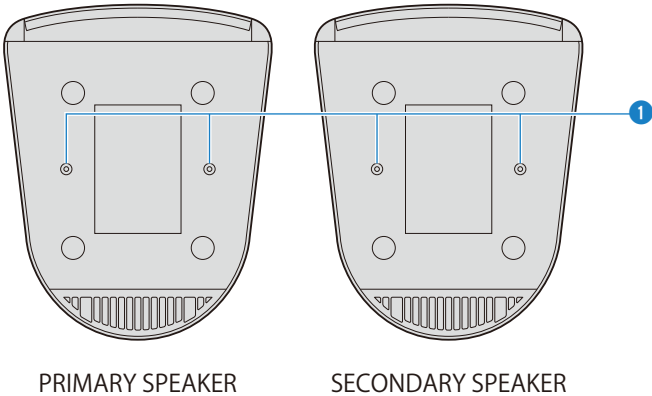
21 **[RESET] button**

Used to restart the SECONDARY speaker. Press and hold for at least 10 seconds to restart.

Bottom panel of the speakers

This section describes the names and functions of the parts on the bottom panel of the speakers.

PRIMARY speaker and SECONDARY speaker

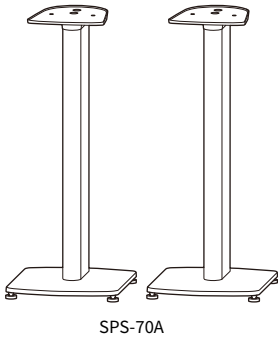


1 Screw holes for speaker stand attachment

These are screw holes for mounting this product to the dedicated speaker stand “SPS-70A”. Be sure to use the mounting screws supplied with the “SPS-70A” when mounting.

Dedicated speaker stand set “SPS-70A” for NX-70A (sold separately; set of two)

When this product is mounted on the “SPS-70A”, it can be used as a floor-standing speaker system. For mounting details, refer to the instruction manual for the “SPS-70A”.



Information display

This section explains the information displayed on the front display of the PRIMARY speaker.

Basic display

Input source indicator

Shows the input source when the source is switched.
Example of display after switching the input source to “Net Radio”



Volume indicator

Shows the volume level when the volume is adjusted.
Example of display when the volume level is set to 50



Startup indicator

Shows when this product is being started up. While this is displayed, no operations other than power off (standby) are available.
Display example



MusicCast setup indicator

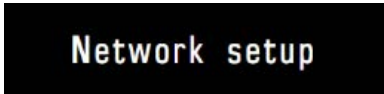
Displayed when the [M][MusicCast] button is pressed and held. It indicates that the product is ready for initial setup from the “MusicCast Controller”.
Display example



Network setup indicator

Displayed when the product is turned on after initialization. It indicates that the product is ready for initial setup from “MusicCast Controller” and Wi-Fi setup via WAC*.

Display example



Network setup

* WAC (Wireless Accessory Configuration) is a function that applies the wireless settings of an iOS device to another device for wireless network connection.

Other displays

If information about the content being played is available, the station name or track name is displayed.

NOTE

Characters that cannot be displayed are shown as “□”.

Brightness of the information display

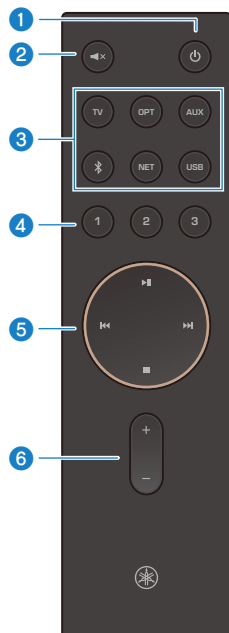
- To protect the display, the brightness is adjusted automatically as follows:
 - If no operation is performed for a certain amount of time, the display dims.
 - After dimming, if there is still no operation for a certain amount of time, the display turns off.
- After dimming or turning off, performing any operation restores the display to its normal brightness.
- You can change the information display brightness and the time until the display turns off in the setup menu.

Related links

“Settings overview” (p.61)

Remote control

The following are the names of the parts of the included remote control and explanations of their functions.



1 [⏻] Power key

Turns the product on or off (standby mode) (p.42).

2 [🔇] Mute key

Mutes the sound. Press again to return to the previous volume (p.44).

3 Input source selection keys

Selects the input source to play (p.43).

NOTE

The [NET] key cycles through network sources in sequence each time it is pressed.

4 [1] [2] [3] keys

Used to register and recall your favorite Internet radio stations and network content (p.59).

5 Playback control keys

[▶||] Toggles between play and pause.

[◀◀] Goes to the beginning of the current track or to the previous track.

When the input source is set to “Server” or “USB”, press and hold for more than 2 seconds to fast-reverse.

[▶▶] Skips to the next track.

When the input source is set to “Server” or “USB”, press and hold for more than 2 seconds to fast-forward.

[■] Stops playback.

6 [+] [-] keys

Adjusts the volume. Pressing [+] increases the volume, and pressing [-] decreases the volume (p.44).

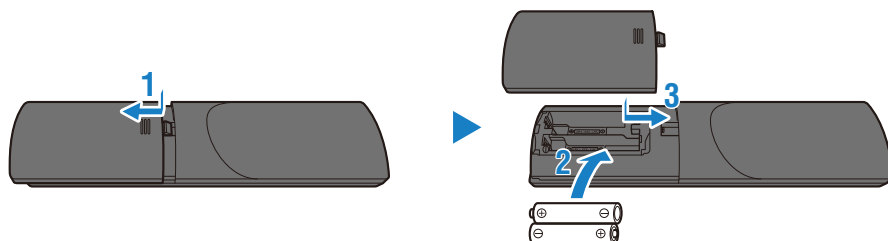
INITIAL SETUP

Preparing the remote control

Prepare the supplied remote control for use.

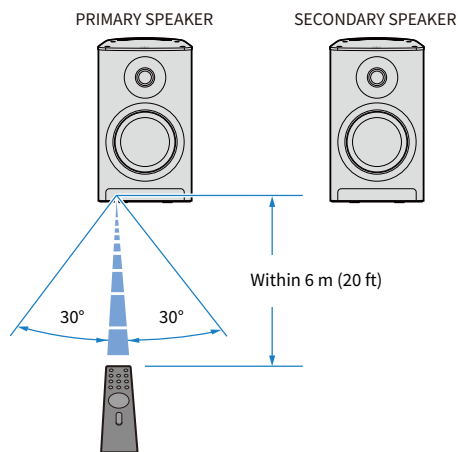
Inserting the batteries

Put the supplied batteries into the remote control facing the correct way (+/-).



Using the remote control

The supplied remote control operates using an infrared signal. Its effective operating range is shown in the illustration below.



NOTE

Point the remote control toward the PRIMARY speaker when operating.

Initial setup flow and key points

This section explains the flow and key points when performing the initial product setup after purchase. Initial setup involves installation, connection, and configuration so that the product can play audio properly.

Follow the steps below in the included Quick Guide.

Step	Key points during initial setup
1	Check the accessories and insert the batteries into the remote control. • The cardboard microphone stand is secured inside the packaging box. Be sure to remove it. • The network cable (for connecting the left and right speakers) is not used during initial setup, and so it should be stored for later use. • The YPAO microphone and cardboard microphone stand are used for automatic speaker adjustment (YPAO) using the “MusicCast Controller” app. “Checking the accessories” (p.9)
2	Place the speakers. • Be sure to remove the protective film from the front of the speakers. • The speakers can be installed with the left/right (L/R) positions swapped. “Placing the speakers” (p.24) “Swapping the left and right speakers” (p.25)
3	Connect the TV. • Be sure to use an HDMI jack on the TV that is labeled “eARC/ARC” or “ARC”. “Connecting a TV” (p.29) Connect the power cord. • The two supplied power cords are identical. They can be connected to either speaker. “Connecting the power cord” (p.33)
4	Use the remote control to turn on the product. • Confirm that the power indicator on each of the left and right speakers lights up. “Turning the power on/off (Standby)” (p.42)
5	Install the dedicated app and connect it to this product. • Use the “MusicCast Controller” app to continue the initial setup. The app enables you to configure wireless network settings for this product, play test tones (Sound Check), and perform automatic speaker adjustment (YPAO). • Use the supplied YPAO microphone and cardboard microphone stand as instructed in the app. “Setting up MusicCast (Setup)” (p.34) “Automatic adjustment of speaker settings (YPAO)” (p.37)

If a problem occurs

- If an error occurs during YPAO, refer to the following.
 - “Error and warning messages” (p.40)
- For other issues, refer to the following.
 - “TROUBLESHOOTING” (p.67)

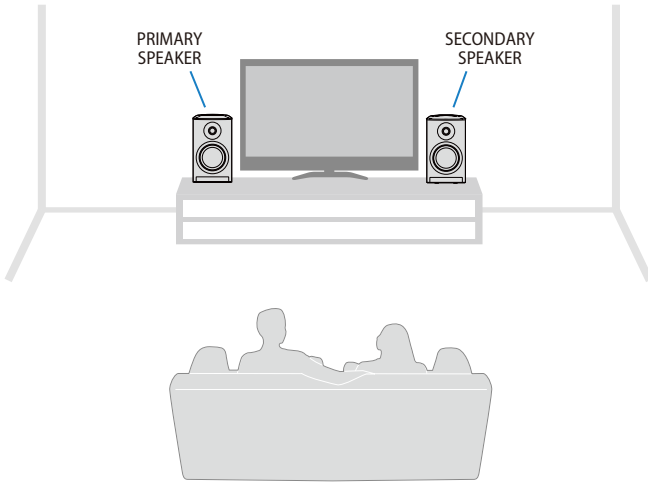
INSTALLATION

Placing the speakers

This section explains how to place the speaker units.

Place the PRIMARY speaker on the left and the SECONDARY speaker on the right when viewed from the listening position.

Installation image



Speaker left/right channel settings

- At the factory, the speakers are configured as follows:
 - PRIMARY speaker: Used as the left (L) speaker
 - SECONDARY speaker: Used as the right (R) speaker

■ Swapping the left and right speaker positions

Depending on your wiring layout or installation environment, you can also place the PRIMARY speaker on the right and the SECONDARY speaker on the left. For more details, refer to the following.

“Swapping the left and right speakers” (p.25)

Swapping the left and right speakers

The speaker units can be installed with the left/right positions swapped.

At the factory, the speakers are configured as follows:

- PRIMARY speaker: Used as the left (L) speaker
- SECONDARY speaker: Used as the right (R) speaker

When swapping the left and right speakers, follow the steps below to change the speaker channel settings.

Setting the PRIMARY speaker for right-side use

1 Connect the power cords to the PRIMARY and SECONDARY speakers.

“Connecting the power cord” (p.33)

2 Turn on the power of the product.

“Turning the power on/off (Standby)” (p.42)

3 Press the [L/R SWAP] button on the rear panel of the PRIMARY speaker.

4 Check the information display on the front panel of the PRIMARY speaker.

When the setting is successfully changed, “Speaker R” (right-side use) appears on the information display.

The SECONDARY speaker is automatically set for left-side use.

This completes the setup.

To return the PRIMARY speaker to left-side use, press the [L/R SWAP] button again using the same procedure. When the setting is successfully changed, “Speaker L” (left-side use) appears on the information display.

NOTE

- You can also change the speaker settings from the “MusicCast Controller” app during or after initial setup.
“Settings overview” (p.61)
- If you swap the left and right speakers or change their positions, run YPAO using the “MusicCast Controller” app.
“Automatic adjustment of speaker settings (YPAO)” (p.37)

CONNECTIONS

Connecting the left and right speakers

When the power is turned on, the PRIMARY and SECONDARY speakers automatically connect wirelessly. Through this connection, the audio signal for the SECONDARY speaker is transmitted from the PRIMARY speaker.

You can also connect the speakers with a wired connection.

Differences in wireless and wired connections between the speakers

When connecting the speakers wirelessly (default setting)

No wiring is required between the two speakers, allowing greater flexibility in placement.

When connecting the speakers using a wired connection

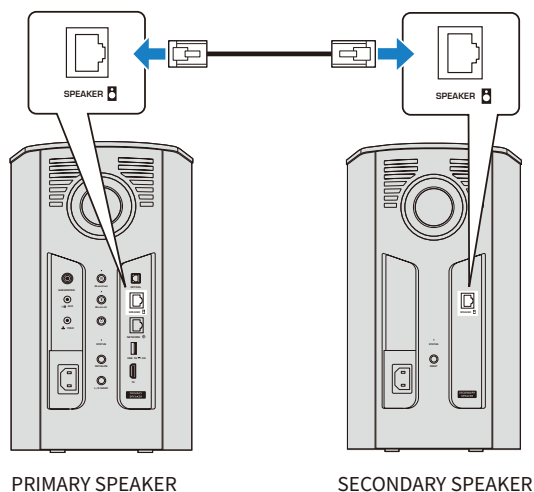
A stable connection is maintained regardless of the wireless environment in the room. Because signals between the speakers are transmitted at a higher rate, higher-quality playback than wireless connection is possible.

■ To connect the speakers using a wired connection

Follow the steps below to connect the speakers using a wired connection.

1 Turn off (set to standby) the power of the product.

- 2 Connect the supplied network cable (for connecting left and right speakers) to the [SPEAKER] jacks on both speakers.**



- 3 Turn on the power of the product.**

■ To return to a wireless connection between the speakers

To return to a wireless connection after using a wired connection, follow the steps below.

- 1 Turn off (set to standby) the power of the product.**
- 2 Disconnect the network cable (for connecting left and right speakers) connecting the two speakers.**
- 3 Press and hold the [RESET] button on the rear panel of the SECONDARY speaker for more than 10 seconds.**

Instead of pressing the [RESET] button, you can also unplug the power cord of the SECONDARY speaker, wait for about 10 seconds, and then reconnect it.

- 4 Turn on the power of the product.**

NOTE

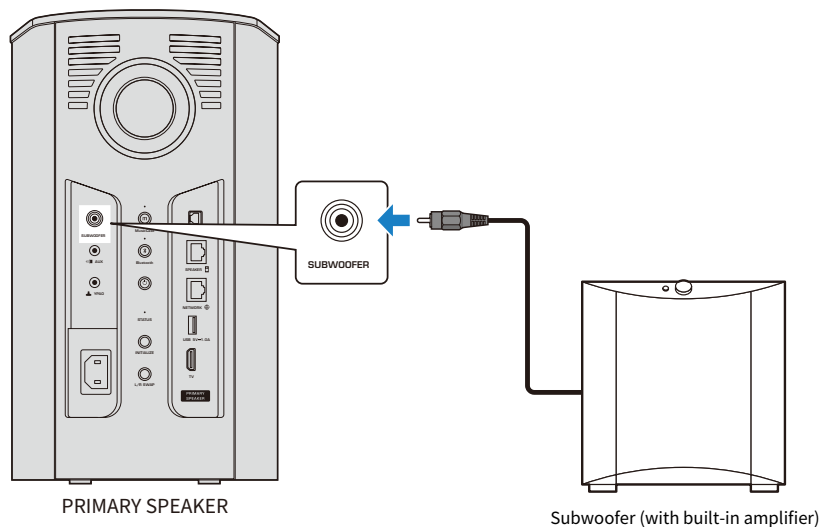
- The [SPEAKER] and [NETWORK] jacks have the same shape. When connecting the network cable (for connecting left and right speakers), be careful not to connect it to the [NETWORK] jack by mistake.
- Instead of the supplied network cable (for connecting left and right speakers), a commercially available network cable can also be used. In that case, use an STP cable rated as Category 6 (CAT6) or higher.

Connecting a subwoofer

You can connect an active subwoofer (with built-in amplifier) to this product. Using a subwoofer allows you to enjoy more powerful and dynamic low-frequency sound.

Connection method

To connect a subwoofer, use a commercially available mono pin (RCA) cable and connect it to the [SUBWOOFER] jack on the PRIMARY speaker.



NOTE

- If you connect or disconnect a subwoofer, run YPAO in the “MusicCast Controller” app. Appropriate settings will be applied automatically according to the connection status.
- If you do not run YPAO, adjust the subwoofer settings in the “MusicCast Controller” app under “Speaker Setup” > “Subwoofer”.

Related links

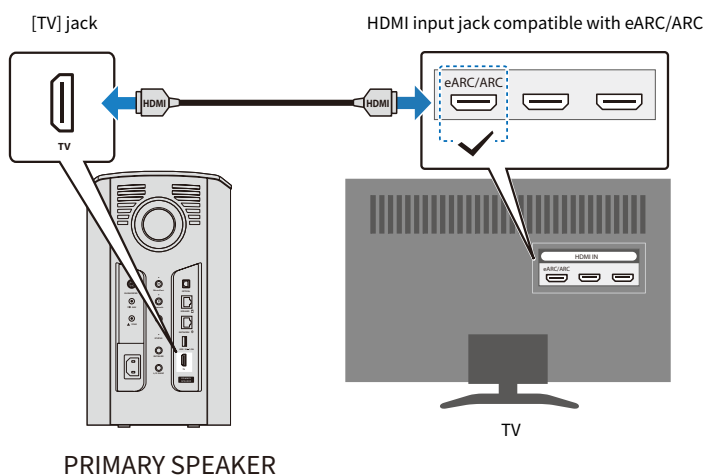
“Automatic adjustment of speaker settings (YPAO)” (p.37)

Connecting a TV

You can connect a TV that supports eARC/ARC to this product. This allows you to play the TV's audio through the speakers of this product. You can also link the power of the TV and this product for synchronized on/off control.

Connection method

Use the supplied HDMI cable to connect the [TV] jack on the PRIMARY speaker to the TV's HDMI input jack.



NOTE

- Connect to an HDMI input jack on the TV labeled with either “eARC/ARC” or “ARC”.
 - To play the audio of a TV that does not support eARC/ARC, connect an audio OUT jack of the TV to the [OPTICAL] jack or [AUX] jack of the PRIMARY speaker.
- “Connecting an audio device” (p.31)
 “Playing audio from an external audio device” (p.47)

About HDMI cables

- Select one of the following commercially available HDMI cables (HDMI-certified).
 - High Speed HDMI Cable with Ethernet (equivalent to the supplied HDMI cable)
 - Premium High Speed HDMI Cable with Ethernet
 - Ultra High Speed HDMI Cable
 - Ultra96 HDMI Cable

About the TV’s HDMI jacks

Depending on the HDMI jack on the TV, settings on the TV side may be required. For details, refer to the following table and the user’s manual for the TV.

TV HDMI jack	Required TV settings and other details
 Includes eARC/ARC label.	If you connect this product to an HDMI jack that is labeled “eARC/ARC”, ensure that the settings of the TV are as follows: • Set the TV’s audio output destination to an external device (this product), not the TV’s internal speakers. • Set eARC to On, if the setting is available. • Set HDMI Control to On if you want to synchronize the power on/off operation of this product and the TV. • Set the audio format output via eARC/ARC to 2-channel PCM.
 Includes ARC label only.	If you connect this product to an HDMI jack that is only labeled “ARC”, configure the following settings on the TV. • Set the TV’s audio output destination to an external device (this product), not the TV’s internal speakers. • Set HDMI Control to On. • Set the audio format output via ARC to 2-channel PCM.
 Without eARC or ARC labels.	• If you connect this product to an HDMI jack without “eARC/ARC” or “ARC” labeling, TV audio cannot be played back through this product. Connect to an HDMI jack labeled “eARC/ARC” or “ARC”. Alternatively, use an optical digital connection or analog connection instead. “Connecting an audio device” (p.31)

Connecting an audio device

This explains how to connect an audio device to the product.

Connection method

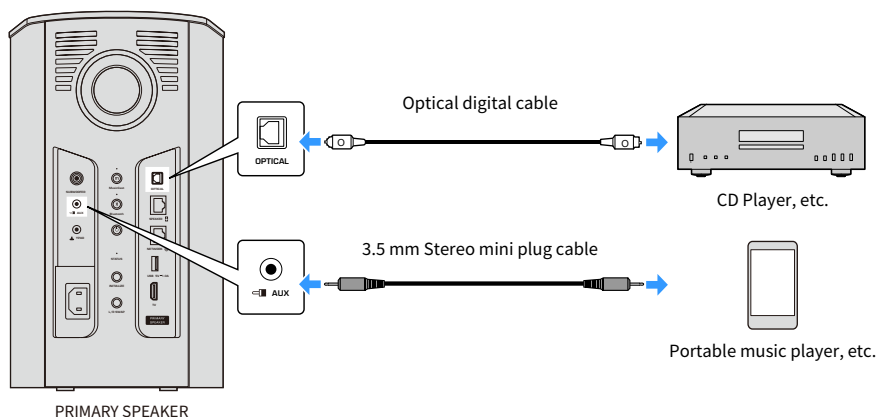
Two types of connection methods are available: optical digital connection and analog connection.

Optical digital connection

Use a commercially available optical digital cable to connect an audio device to the [OPTICAL] jack on the PRIMARY speaker.

Analog connection

Use a commercially available 3.5 mm stereo mini plug cable to connect an audio device to the [AUX] jack on the PRIMARY speaker. Depending on the audio device, a conversion cable may be required.



Connecting to a network

This product supports both wireless and wired network connections. Select the connection method suiting your network environment.

■ Connection method

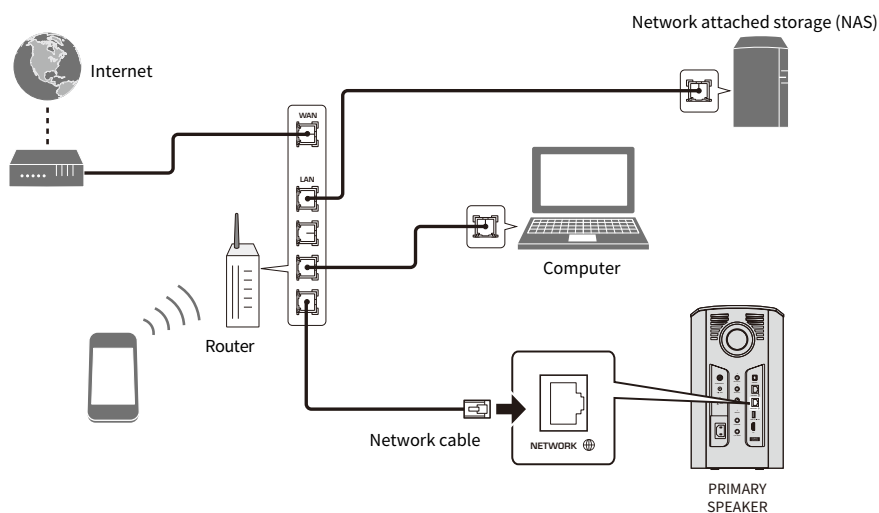
Wireless network connection

When using a wireless connection, setup is performed using the “MusicCast Controller” app, so no prior preparation is required. For more details, refer to the following.

“Setting up MusicCast (Setup)” (p.34)

Wired network connection

To make a wired connection, use a commercially available network cable to connect this product to your router. Connect the network cable to the [NETWORK] jack on the PRIMARY speaker.



NOTICE

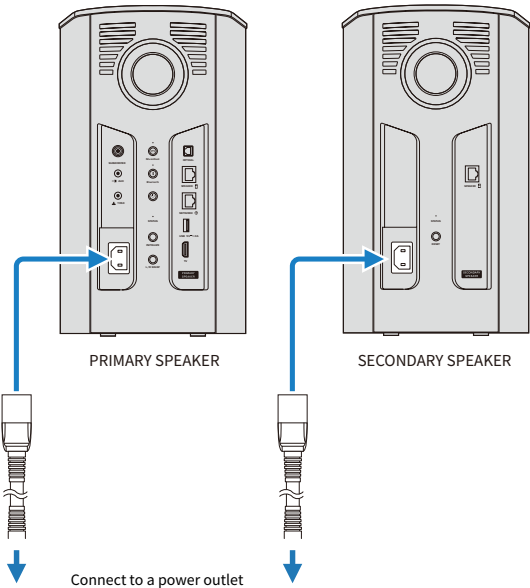
- Do not connect this product to a public Wi-Fi and/or Internet service directly. Only connect this product to the Internet through a router with strong password protections. Consult your router manufacturer for information on optimum security practices.

NOTE

- The [NETWORK] and [SPEAKER] jacks have the same shape. When connecting a network cable, be careful not to plug it into the [SPEAKER] jack by mistake.
- To prevent electromagnetic interference, use an STP (Shielded Twisted Pair) cable of Category 5e (CAT5e) or higher with a straight configuration for the network cable.

Connecting the power cord

After connecting all devices, connect the supplied power cords to the PRIMARY speaker and to the SECONDARY speaker.



NOTE

The two supplied power cords have identical specifications and can be connected to either speaker.

INSTALLING AND SETTING UP THE APP

Setting up MusicCast (Setup)

Use the “MusicCast Controller” app to register this product to your MusicCast network.

At the same time, you can configure the wireless network connection of this product and perform automatic room calibration (YPAO). “MusicCast Controller” is a free application available for smartphones and tablets.

Required devices

- NX-70A unit (PRIMARY speaker and SECONDARY speaker)
 - Ensure the power cord is already connected.
- Smartphone or tablet
 - Must be connected to a wireless LAN router (access point).
 - Make sure that the Bluetooth function is turned on.

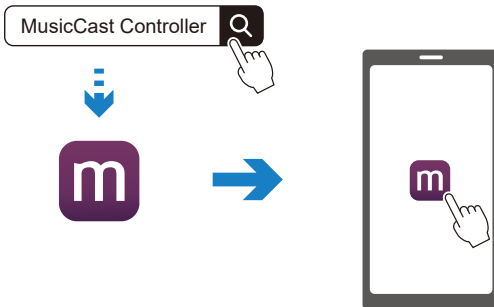
NOTE

Even if you are using a wired network connection, you must still complete this registration procedure for the MusicCast network. If the product is not registered to the MusicCast network, it cannot be operated using the MusicCast Controller app.

Setup procedure

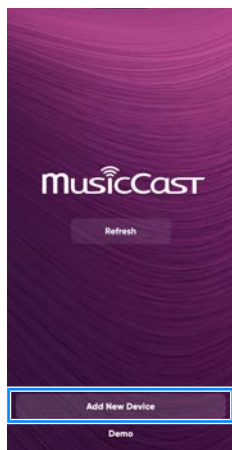
1 Install the “MusicCast Controller” app on your smartphone or tablet.

To download the app, search for “MusicCast Controller” in the App Store or Google Play.



2 Launch the installed app.

3 Tap “Add New Device” to start setup.



4 Follow the on-screen instructions in the app to proceed with setup.

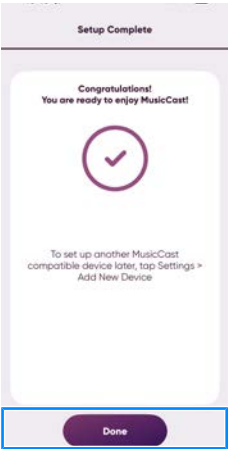
Operate the app and this product according to the instructions.

Operation tips

- Choose this product “NX-70A” on the app’s device selection screen.
- If new firmware is available, a firmware update prompt will be displayed. Follow the instructions to perform the update (the update cannot be skipped).
- During setup, the following messages are displayed on the information display on the front of the PRIMARY speaker. Continue setup by following the instructions in the app.
 - “Network Setup”: Indicates that this is the initial setup (including after initialization of this product).
 - “MusicCast Setup”: Indicates that MusicCast setup is in progress.

5 Confirm that setup is complete.

When setup is complete, a completion screen is displayed in the app.



Automatic adjustment of speaker settings (YPAO)

What is YPAO?

YPAO is Yamaha's proprietary automatic room calibration function. Using the supplied microphone, this function measures the acoustic characteristics of the room and automatically adjusts settings for the speaker distance and other parameters to achieve optimal sound quality. YPAO can be executed using the "MusicCast Controller" app.

■ When YPAO is required

Run YPAO in the following situations:

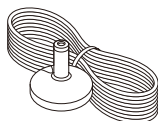
- When setting up the speakers for the first time
- After the speaker positions have been changed
- When the left and right speakers are swapped (p.25)
- After the listening position has been changed
- When a subwoofer is added or removed (p.28)

■ Accessories used

To ensure a smooth and efficient setup for YPAO, prepare the following supplied accessories in advance.

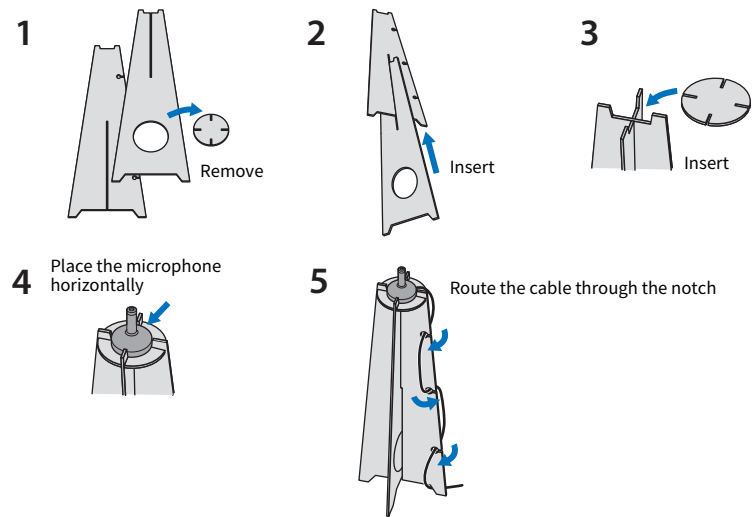
YPAO microphone

When prompted by the app, connect the supplied microphone to the [YPAO] microphone jack on the rear panel of the PRIMARY speaker.



Cardboard microphone stand

Assemble it as shown in the diagram below, and place the YPAO microphone on top. A camera tripod or similar stand may also be used instead of the supplied cardboard microphone stand.

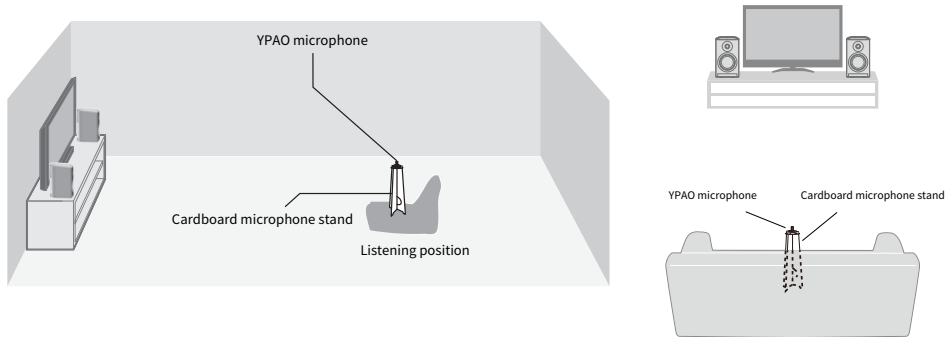


NOTE

- The cardboard microphone stand is made of paper, so handle it carefully to avoid damage.
- Store it in a safe place after use in case you need to perform measurement again.

■ Example of YPAO microphone and cardboard microphone stand setup

Refer to the diagram below for correct placement of the YPAO microphone and cardboard microphone stand. Place the YPAO microphone at the listening position so that it is parallel to the floor.



■ How do I start YPAO?

Operate using the “MusicCast Controller” app as follows:

INSTALLING AND SETTING UP THE APP > Automatic adjustment of speaker settings (YPAO)

- When installing the speakers in the room for the first time, tap “Add New Device” on the app’s startup screen and follow the on-screen instructions to complete the initial setup. YPAO is performed as part of the initial setup.
- If you change the speaker positions after initial setup or want to run YPAO again, select “Speakers & Room Calibration / Run YPAO” from the settings menu in the app.

NOTE

- During YPAO measurement, a loud test tone will be emitted from the speakers. Note: The volume level cannot be adjusted during the YPAO process.
- To ensure proper adjustment, observe the following points while YPAO is running:
 - Do not make any loud noises.
 - Do not get in between the speakers and the YPAO microphone.
- Connect the YPAO microphone before running YPAO by following the instructions in the app, and be sure to disconnect it from the microphone jack after completion.

Error and warning messages

When error or warning messages are displayed during YPAO measurement, resolve the cause based on the following table and perform measurement again.

Error type

Error No.	Error description
Code 005	Noise level is too loud. Keep the room quiet and retry YPAO. If you select “Proceed”, YPAO takes the measurement again and ignores any noise detected.
Code 008	Could not detect a measurement signal. Connect the microphone to the YPAO terminal firmly and retry YPAO.
Code 009	Measurement was canceled due to main unit operation.
Code 031	Speakers not detected. Press Quit, turn the unit off and make sure front left and right speakers are properly connected.
Code 051	Could not detect microphone. Make sure the microphone is properly connected to the YPAO terminal.
Code 101-199	An internal error has occurred. Exit YPAO, and turn off and on the unit.
Code 201	Connection between the Left and Right speakers has been disconnected. Please Retry. If this error occurs frequently, try connecting the PRIMARY and SECONDARY speakers with a wired cable (the supplied network cable) to see if the issue improves. “Connecting the left and right speakers” (p.26)
	Connection between the Left and Right speakers has been disconnected. Check cable connection. If you are using a commercially available network cable, try connecting with the supplied network cable (for connecting left and right speakers) to see if the issue improves. “Connecting the left and right speakers” (p.26)
Code 202	
Code 203	The connection between the Left and Right speakers could not be detected. Please try turning the power off and on.

Warning type

Even when a warning message is displayed, the measurement results can still be saved. However, to use the system with the optimal speaker settings, Yamaha recommends resolving the cause of the warning and running the measurement again.

Warning Messages	Warning description
Speaker may be placed more than 24 m (80 ft) from the microphone.	Adjust the speaker positions based on the YPAO measurement results.
Measurement results indicate significant differences in volume between the speakers.	Adjust the speaker positions based on the YPAO measurement results. Also, check that the subwoofer volume is set appropriately.

Checking YPAO measurements and changing settings

You can check the YPAO measurements and change settings using the “MusicCast Controller” app. Operate the app from your smartphone or tablet where “MusicCast Controller” is installed.

■ Checking YPAO measurement results

- 1 Start “MusicCast Controller” on your mobile device(s), select the room in which this product is installed, and then tap the settings icon.**
- 2 Tap the room in which this product is installed from “Room Settings” on the Settings screen.**
- 3 Tap “Speaker Setup” under “Speakers & Room Calibration” on the room screen (this product).**
- 4 Check the YPAO measurement results.**

■ Setting items

In “Speaker Setup”, you can also change the settings for the items shown in the table below. For more details, refer to the app screen.

Setting item	Description
YPAO	Selects whether to apply the YPAO measurements to the speaker settings.
Subwoofer	Sets whether to use/not use subwoofer.
Front Speaker Frequency	Sets the frequency bandwidth output to the left/right speakers. If you select low frequency cut, the configured crossover frequency is applied. If a subwoofer will not be used, the setting cannot be made.
Subwoofer Frequency	Sets the speaker and subwoofer crossover frequencies. If a subwoofer will not be used, the setting cannot be made.
Distance	Sets the distance from the listening position to each speaker individually so the sound from each of them reaches you at the same time.
Level	Sets speakers individually so the volume from each sounds the same at the listening position.
EQ	Sets whether to use/not use an equalizer based on YPAO measurements.
YPAO Volume	When “YPAO Volume” is set to “On”, the balance between the bass and treble ranges is adjusted automatically in conjunction with the volume, which allows you to enjoy a natural sound quality balance, even at low volumes.

NOTE

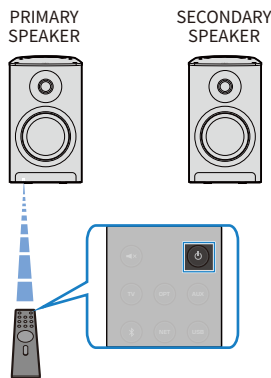
If you will use a subwoofer, install it before running YPAO measurements to ensure a smooth connection between the bass and midrange sounds. If you feel the volume of the bass is too loud or low, adjust to the desired volume with “SW” under the “Level” item.

BASIC OPERATION

Turning the power on/off (Standby)

This section explains how to turn this product on or off (standby).

Point the remote control at the PRIMARY speaker, and press the [⏻] key to turn on the power. To turn off (standby), press the [⏻] key again.



NOTE

- You can also turn the power on or off (standby) using the [⏻] button on the rear panel of the PRIMARY speaker.
- When the power is turned on, the power indicators on the front of both the PRIMARY and SECONDARY speakers light up. The information display on the PRIMARY speaker also lights up.
- The SECONDARY speaker automatically turns on and off (standby) in sync with the PRIMARY speaker.

About the Auto Standby function

- If no operation or audio playback occurs for 20 minutes, the product will automatically switch off (standby).
- Approximately 30 seconds before turning off (standby), the information display shows a countdown indicating the remaining time.
Example display: "Auto standby: 30 sec" (30 seconds until standby)
- To extend the time before the product turns off (standby), perform an operation such as adjusting the volume or selecting an input source, or start audio playback.

Selecting an input source

This section shows how to select the input source to play.
Press one of the input source selection keys on the remote control to choose the desired input source.



Input source selection keys	Playback audio
[TV]	Audio from an eARC/ARC-compatible TV input via the [TV] jack (HDMI)
[OPT]	Audio input via the [OPTICAL] jack
[AUX]	Audio input via the [AUX] jack
[Bluetooth symbol]	Audio from a Bluetooth device connected to this product
[NET]	Audio from network content Various types of network content are available. Press the [NET] key repeatedly to cycle through and select the desired network content.
[USB]	Audio from music files stored on a USB flash drive

When an input source is selected, the selected input name appears on the information display of the PRIMARY speaker.

Example of display when the input source is set to [TV]

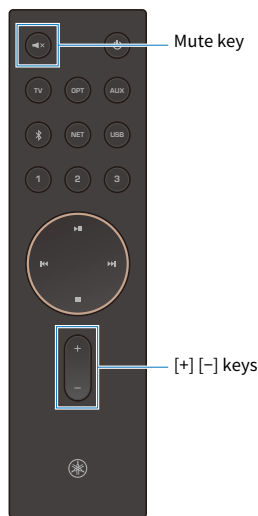


NOTE

When the product is off (standby), pressing any input source selection key on the remote control will automatically turn the power on.

Adjusting the volume

This section explains how to adjust the playback volume and mute the sound.



■ Adjusting the volume

Pressing the [+] key on the remote control increases the volume, and pressing the [-] key decreases the volume.

When the volume is adjusted, a numeric value between 0 and 100 appears on the information display of the PRIMARY speaker.

Volume (numeric display)



NOTE

- You can also use the “MusicCast Controller” app to set the maximum volume limit and the initial volume level when the power is turned on.
- If a maximum volume limit is set, the volume cannot be set higher than that setting value. After the limit is reached, if you try to increase the volume further, “MAX” is displayed.

■ Muting the sound

Pressing the [Mute] key on the remote control mutes the sound. Pressing it again returns the volume to its original level.

When muted, the PRIMARY speaker’s information display shows “MUTE”.

BASIC OPERATION > Adjusting the volume

When muted



PLAYBACK

Listening to TV audio on this product

You can play audio from a TV connected to the [TV] jack (HDMI) on this product.

Follow the steps below.

- 1 Turn on the TV.**
- 2 Press the [TV] key on the remote control.**

The input source switches to TV.

At the same time, the TV's audio output is switched so that the TV sound is played through this product.

TV audio settings

The [TV] jack on this product supports playback in PCM 2-channel audio only.

Change the TV's eARC/ARC audio output setting to PCM 2-channel. If not set correctly, the audio may not play at all or may play as loud noise. For more details, refer to the user's manual for the TV.

Related links

- “Connecting a TV” (p.29)
- “Problems with TV connections (HDMI)” (p.72)

Playing audio from an external audio device

You can play audio from devices (such as CD players, portable music players, and TVs) connected to the [OPTICAL] jack or [AUX] jack.

Follow the steps below.

- 1 Turn on the connected audio device.**
- 2 Press the [OPT] or [AUX] key on the remote control to select the desired input source.**
The input switches to the selected input source.
- 3 Start playback on the connected audio device.**

NOTE

When the product is off (standby), pressing an input source selection key on the remote control automatically turns the power on.

Related links

- “Connecting an audio device” (p.31)
- “Problems with the audio” (p.70)

Playing audio from a Bluetooth® device

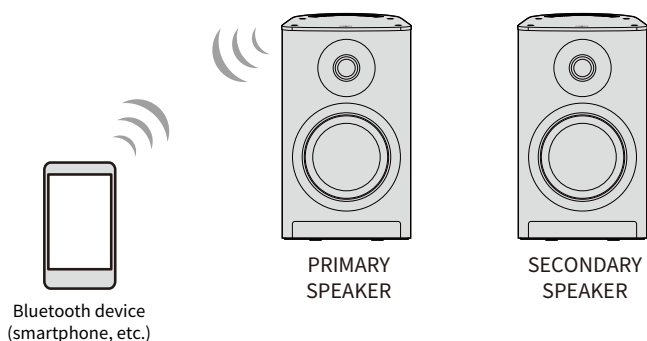
You can play audio from a Bluetooth device connected to this product.

This product supports multipoint connection, allowing simultaneous connection with two paired Bluetooth devices.



CAUTION

- Adjust the volume carefully when playing audio via Bluetooth. Adjusting the volume on the Bluetooth device may cause an unexpected increase in sound level, which could result in hearing impairment or damage to the equipment.
- If the volume suddenly becomes too loud during playback, stop playback immediately.



■ When connecting a Bluetooth device for the first time (first device)

1 Press the [*] key on the remote control.

The input source switches to Bluetooth and pairing mode is activated.

Pairing mode is canceled after 2 minutes.

2 Select this product (network name of this product) on the Bluetooth device.

When prompted for a passkey, enter the number “0000”.

When the Bluetooth connection is established, “Connected” appears on the information display of the PRIMARY speaker.

3 Start audio playback on the Bluetooth device.

■ When connecting a second or subsequent Bluetooth device

1 Press the [✱] key on the remote control.

The input source switches to Bluetooth.

2 Press and hold the [✱] key on the remote control (for more than 5 seconds).

Pairing mode is activated.

Pairing mode is canceled after 2 minutes. If it was canceled, perform the connection procedure again for the second or subsequent device.

You can also activate pairing mode by pressing and holding the [✱][Bluetooth] button on the rear panel of the PRIMARY speaker.

3 Select this product (network name of this product) on the Bluetooth device.

When prompted for a passkey, enter the number “0000”.

When the Bluetooth connection is established, “Connected” appears on the information display of the PRIMARY speaker.

4 Start audio playback on the Bluetooth device.

NOTE

- During playback, the volume on this product can be controlled from the Bluetooth device (some Bluetooth devices may be unable to control the volume).
- You can control playback on the Bluetooth device using the [■] (Stop) key and [▶||] (Play/Pause) key on the remote control.
- To connect another Bluetooth device, first disconnect the current one, and then connect the new device.
- To disconnect the Bluetooth device, perform one of the following operations.
 - Disconnect the connection from the Bluetooth device.
 - Switch this product's input source to something other than “Bluetooth”.

About multipoint connection

- Up to two Bluetooth devices can be connected simultaneously using multipoint connection. To connect another Bluetooth device, disconnect one of the two currently connected devices.
- Music playback can be started from either connected device. However, the device that starts playback later takes priority. Simultaneous playback from two devices is not possible.
- Multipoint connection behavior may vary depending on the Bluetooth device. Depending on the app or software used on the Bluetooth device, operation may not function correctly. Operation is not guaranteed with all Bluetooth-compatible devices.

Related links

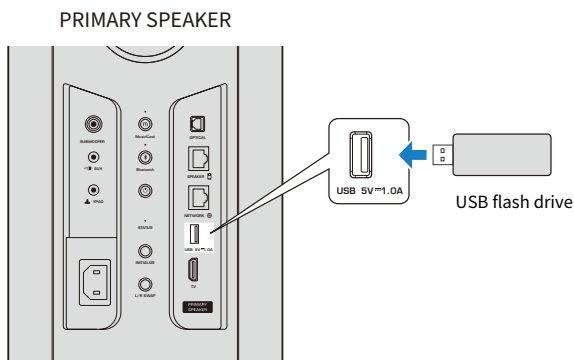
- “Supported Bluetooth devices” (p.81)
- “Problems with Bluetooth” (p.73)

Playing music files from a USB flash drive

You can play music files stored on a USB flash drive.

Follow the steps below.

- 1 Connect the USB flash drive to the [USB] jack on the rear panel of the PRIMARY speaker.**



- 2 Press the [USB] key on the remote control.**

If the last played track is stored in memory, playback starts automatically.

If playback does not start automatically, press the [▶||] key on the remote control.

- 3 To select a track, press the [◀◀] or [▶▶] key on the remote control.**

Press and hold each key for more than 2 seconds to fast-reverse or fast-forward.

To stop playback, press the [■] key on the remote control.

Using the “MusicCast Controller” app, you can perform more detailed playback operations, such as displaying a list of songs on the USB flash drive and repeat/shuffle playback.

NOTE

- When a USB flash drive is connected to this product for the first time, the first song in the top-level folder (root folder) of the USB flash drive is played automatically.
- When there are a lot of files, it may take time to load them.
- Up to 500 songs can be played. Depending on the folder structure, the maximum number of songs may be lower.
- To prevent file corruption, stop playback before removing the USB flash drive.
- Connect the USB flash drive directly to the [USB] jack.
- Do not connect any devices other than a USB flash drive to the [USB] jack. Also, do not use it for charging purposes.
- Power is not supplied to the [USB] jack while the product is in standby.
- Depending on the USB flash drive used, it may not operate properly.

PLAYBACK > Playing music files from a USB flash drive

Related links

- “Supported USB devices” (p.82)
- “Problems with USB” (p.74)

Listening to music via AirPlay

You can play music and other audio content on this product using AirPlay. Tap (or click) the AirPlay icon on your iPhone or iTunes/Music, and then select this product (its network name) as the audio output destination.

AirPlay icon



CAUTION

- During playback, you can control the volume of this product from your AirPlay device.
- Adjust the volume carefully when playing audio using AirPlay. Adjusting the volume on an AirPlay device may cause an unexpected increase in sound level, which could result in hearing impairment or damage to the equipment.
- If the volume suddenly becomes too loud during playback, stop playback immediately.

NOTE

- The network name of this product displayed on your AirPlay device corresponds to the room name set using the “MusicCast Controller” app.
- The product is compatible with AirPlay Audio.
- For details on AirPlay, refer to the Apple website.

Listening to music via Google Cast™

The NX-70A works with Google Cast so you can stream your favorite music and audio from hundreds of apps to this product by simply tapping the Google Cast icon.

About Google Cast setup

- When using this function for the first time, Google Cast setup is required.
- If you skipped Google Cast setup using the “MusicCast Controller” app during initial setup of this product, go to “External Service / Google Cast” in the app’s settings menu and complete the setup.

Here, an example of playing music using a Google Cast-compatible app installed on a smartphone or tablet is explained.

1 Launch a Google Cast-compatible app.

2 Tap the Google Cast icon.



3 Select this product (network name) from the device list.



CAUTION

- During playback, you can control the volume of this product from the smartphone or tablet.
- Adjusting the volume from the smartphone or tablet may unintentionally increase the volume, which could result in hearing impairment or damage to the equipment.
- If the volume suddenly becomes too loud during playback, stop playback immediately.

NOTE

- The network name of this product displayed in the device list corresponds to the room name set using the “MusicCast Controller” app.
- For details about Google Cast, visit the following website.
<https://www.android.com/better-together/#cast>
- Google Cast is a trademark of Google LLC.

Playing songs on a media server (PC/NAS)

You can play music files stored on a media server (such as a PC or NAS) that is connected to the same network as this product.

Use the “MusicCast Controller” app to browse the list of tracks on the media server, and select your preferred music file for playback. Using the app, you can perform various playback operations such as repeat and shuffle playback.

NOTE

Before using this function, you must enable the media sharing setting on your media server device or media server software. For more details, refer to the user’s manual of the respective device or software.

Basic operations can also be performed using the remote control. Follow the steps below.

1 Press the [NET] key on the remote control repeatedly to select “Server” as the input source.

If the last played track is stored in memory, playback starts automatically.

If playback does not start automatically, press the [▶II] key on the remote control.

2 To select a track, press the [◀◀] or [▶▶] key on the remote control.

Press and hold each key for more than 2 seconds to fast-reverse or fast-forward.

To stop playback, press the [■] key on the remote control.

Using the “MusicCast Controller” app, you can perform more detailed playback operations such as repeat and shuffle playback.

NOTE

- You can also register your favorite content as presets for easy access.
 - “Preset function” (p.59)
- If the audio drops out when connected to a wireless network, connect to a wired network.
 - “Connecting to a network” (p.32)

Listening to Internet radio

You can enjoy playback of audio from Internet radio stations on this product.

Use the “MusicCast Controller” app to browse the list of available Internet radio stations, and select your preferred station for playback.

Basic operations can also be performed using the remote control. Follow the steps below.

1 Press the [NET] key on the remote control repeatedly to select “Net Radio” as the input source.

If the last played station is stored in memory, playback starts automatically.

To stop playback, press the [■] key on the remote control.

NOTE

- You can also register your favorite Internet radio stations as presets for easy access.
 - “Preset function” (p.59)
- Depending on network conditions or the time of day, some Internet radio stations may be temporarily unavailable.
- This function uses the airable.Radio service. The airable service is provided by the company airable GmbH. The service is subject to change, suspension, or discontinuation without notice. Yamaha Corporation shall not be held responsible for any resulting inconvenience or damages.

Listening to podcasts

You can play audio from podcasts.

Use the “MusicCast Controller” app to display a list of podcasts and select your desired content. Using the app, you can perform various playback operations such as repeat and shuffle playback (episode-based content only).

Basic operations can also be performed using the remote control. Follow the steps below.

1 Press the [NET] key on the remote control repeatedly to select “Podcasts” as the input source.

If the last played content is stored in memory, playback starts automatically.

If playback does not start automatically, press the [▶||] key on the remote control.

2 To select specific content, press the [◀◀] or [▶▶] key on the remote control.

To stop playback, press the [■] key on the remote control.

NOTE

- You can also register your favorite podcast content as presets for easy access.
 - “Preset function” (p.59)
- This function uses the airable.Radio service. The airable service is provided by the company airable GmbH. The service is subject to change, suspension, or discontinuation without notice. Yamaha Corporation shall not be held responsible for any resulting inconvenience or damages.

Listening to streaming services

You can play content distributed by various streaming services. Playback uses the dedicated apps provided by each streaming service.

NOTE

For information on the available streaming services, refer to “Specifications” (p.86) under “Network functions and streaming services”.

To play content, select this product as the playback device from the dedicated app for each service. For details, refer to the website of the respective streaming service.

About streaming services

- The supported streaming services vary depending on the region where the product was purchased and the region in which it is used. Even if the product supports a given streaming service, it cannot be used outside the service provider's coverage area. Conversely, even within a service provider's coverage area, the service cannot be used if the product does not support it.
- Some streaming services may require a paid subscription and/or a dedicated app. For details on each streaming service, refer to the respective service provider's website.
- Services provided by the streaming services are subject to change, suspension, or discontinuation without notice. Yamaha Corporation shall not be held responsible for any resulting inconvenience or damages.

Listening to audio from other MusicCast devices

You can share audio among multiple MusicCast devices. For example, you can play audio from a MusicCast device in another room simultaneously on this product.

You can also play audio from a source device connected to this product on a MusicCast device in another room. These operations are performed using the “MusicCast Controller” app.

NOTE

When audio from another MusicCast device is being played on this product, “MusicCast Link” is shown on the information display.

USEFUL FUNCTIONS

Preset function

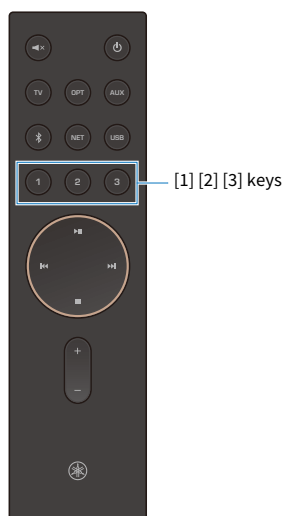
Your favorite content, such as songs currently being played or Internet radio stations, can be registered as presets, allowing you to easily recall them later.

Presets can be registered and recalled using the “MusicCast Controller” app. Preset numbers 1 to 3 can also be registered and recalled using the remote control of this product.

NOTE

- You can register up to 40 presets in total.
- The following input sources can be registered as presets:
 - USB
 - Server
 - Net Radio
 - Podcasts
 - Spotify
- “Net Radio” and streaming services have limitations on the content and number of items that can be registered depending on the selected radio station or service.
- If the registered content is “USB”, “Server”, or “Podcasts”, when it is recalled, only that song (or content) is played, and then it stops.

■ Registering and recalling presets using the remote control [1] [2] [3] keys



Registering a preset

- 1 Start playback of the song, Internet radio station, or other content you want to register.**
- 2 Press and hold one of the preset number keys ([1], [2], or [3]) on the remote control for at least 3 seconds.**

If another item is already registered to that number key, it will be overwritten.

When registration is complete, the preset number appears on the information display.

Example of display when registered to preset number 1



This completes the registration.

Recalling a preset

- 1 Press the desired preset number key ([1], [2], or [3]) on the remote control.**

The selected preset number and input source name appear on the information display.

Example of display when “Net Radio” is registered to preset number 1

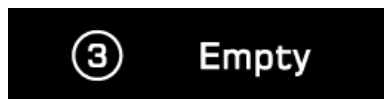


The registered content begins playback.

NOTE

If nothing is registered to the recalled number, the following appears:

- Example of display when nothing is registered to preset number 3



SETTINGS

Settings overview

Various settings for this product can be configured using the dedicated “MusicCast Controller” app. This guide lists an excerpt of the setting items. For more details, refer to the app.

(Room name)/Settings

Type	Setting item	Description
LINK	Link control	Sets whether speed or stability is prioritized during MusicCast Link.
	Audio Delay	Adjusts the audio synchronization during MusicCast Link.
	Audio Quality	Sets the audio quality (compressed or uncompressed) during MusicCast Link.
Firmware	Update Settings	You can configure settings related to firmware updates for this product.
External Service	Google Cast	Performs Google Cast setup. Setup is required to use Google Cast.
	Streaming Service Account	Configures settings related to various streaming services.
Speakers & Room Calibration	Run YPAO	Automatically adjusts speaker settings using YPAO. “Automatic adjustment of speaker settings (YPAO)” (p.37)
	YPAO Results	Used to check the characteristics and parameters when using the YPAO equalizer.
	Speaker Setup	Configures settings such as enabling/disabling speaker settings optimized by YPAO, enabling/disabling subwoofer use, speaker distance and volume, and enabling/disabling the equalizer and YPAO volume.
Sound	Sound Settings	Configures YPAO Volume and other settings. Please refer to the Sound Settings table.
	Sound Check	Test sounds can be played, and the left and right speakers can be swapped.
	Volume Settings	- Maximum Volume: Sets an upper limit for the output volume. - Initial Volume: Sets the volume level for when the product is turned on. - Input Level: Adjusts volume differences between input sources.
Video/HDMI	HDMI Control	Sets whether to link the product’s operations with an HDMI control-compatible TV.
		- Auto: When entering standby, it automatically determines whether HDMI control remains enabled based on the current HDMI connection status between this product and the TV. - Off: Disables HDMI control. - On: Enables HDMI control.
		Default: Auto When set to “On”, standby power usage will be slightly higher than when set to “Off”. If operation linked with the TV does not function when set to “Auto”, set this to “On”.

Type	Setting item	Description
Display	Dimmer	Adjusts the brightness of the information display. Available settings: • 0 • 1 • 2 • 3 The higher the value, the brighter the display. Default: 3
	Time until lights turn off	Sets the time until the information display turns off automatically. Available settings: • Always on • 10 sec • 15 min • 30 min Default: 30 min
Utility	Auto Power Standby	Sets whether the product automatically switches to off (standby) when no content has been played for 20 minutes. • Off: Does not automatically switch to off (standby). • On: Automatically switches to off (standby). Default: On When set to “On”, power usage will be slightly higher than when set to “Off”.
	Bluetooth Standby	Sets whether Bluetooth connection is available while the product is off (standby). • Off: Bluetooth connection is disabled while in standby. • On: Bluetooth connection is enabled while in standby. If set to “On”, when a Bluetooth device initiates a connection, the product automatically turns on and switches to the Bluetooth input source. Default: On
	Auto play	Sets whether playback of the previous content is automatically started when the power is turned on or when the input source is switched. • Off: Playback does not start automatically. • On: Playback starts automatically. Default: On Auto playback is available for the following input sources: Server, Net Radio, Podcasts, and USB. Auto playback may not work with certain input sources and content.
External Features	Advanced Settings	Opens the advanced settings in a web browser. “Settings using a web browser” (p.89)

Sound Settings

Type	Setting item	Description
Sound	YPAO Volume	Enables or disables YPAO Volume. When YPAO Volume is enabled, the balance between the bass and treble ranges is adjusted automatically according to the listening volume, enabling you to enjoy a natural sound quality balance even at low volumes.
	Dialogue Level	Adjusts the volume of centrally positioned sounds, such as dialogue.
	Tone Control Treble	Adjusts the output level of high-frequency sounds.
	Tone Control Bass	Adjusts the output level of low-frequency sounds.
	Subwoofer Level	Adjusts the output level of the connected subwoofer.
	Balance	Adjusts the volume balance between the left and right speakers.
Speakers & Room Calibration	Run YPAO	Automatically adjusts speaker settings using YPAO. “Automatic adjustment of speaker settings (YPAO)” (p.37)
	YPAO Results	Used to check the characteristics and parameters when using the YPAO equalizer.
	Speaker Setup	Configures settings such as enabling/disabling speaker settings optimized by YPAO, enabling/disabling subwoofer use, speaker distance and volume, and enabling/disabling the equalizer and YPAO volume.
Timer	Sleep (minute)	Sets the duration of the sleep timer. Available settings: • Off • 30 min • 60 min • 90 min • 120 min When the specified time has elapsed, the product automatically turns off (standby).
Information	Audio information	Displays audio information for the currently playing track on the playback screen.
	Volume Display	When enabled, the volume is displayed as a percentage.

NOTE

Depending on the playback conditions, this setting may be unavailable or may have no effect.

Initializing and resetting the product

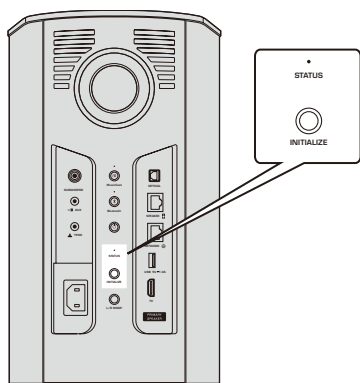
This section explains how to initialize or reset the product.

■ Initializing

“Initialization” refers to the process of returning this product to its factory default settings. To initialize the product, perform the following steps.

- 1 Press the remote control’s [⏻] key or the [⏻] button on the rear panel of the PRIMARY speaker to turn the power off (standby).**
- 2 Press and hold the [INITIALIZE] button on the rear panel of the PRIMARY speaker until the [STATUS] indicator blinks twice (about 5 seconds).**

After the indicator blinks, wait for about 1 minute.



PRIMARY SPEAKER

- 3 Press the remote control’s [⏻] key or the [⏻] button on the rear panel of the PRIMARY speaker to turn on the power.**

The product turns on and initialization begins.

This completes the initialization process.

■ Performing a force-reset

Forcing the product to restart is referred to as a “force-reset”. If the product becomes unresponsive for any reason, performing a force-reset may resolve the issue.

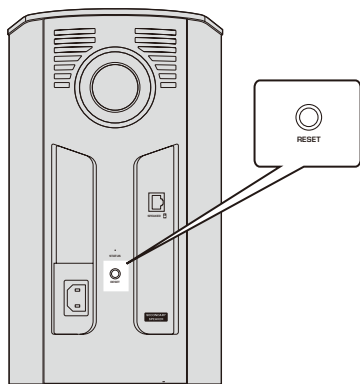
To perform a force-reset, use the following procedure.

- 1 Press and hold the [⏻] button on the rear panel of the PRIMARY speaker for more than 10 seconds.**

The PRIMARY speaker will restart.

- 2 Press and hold the [RESET] button on the rear panel of the SECONDARY speaker for more than 10 seconds.**

The SECONDARY speaker will restart.



SECONDARY SPEAKER

NOTE

Unplugging and reconnecting the power plugs of the PRIMARY and SECONDARY speakers also performs the same operation as a force-reset.

FIRMWARE UPDATE

Updating the firmware

Updated firmware is provided to add functionality to this product or improve performance.

For details about firmware updates, please visit the Yamaha website.

Firmware can be updated using the “MusicCast Controller” app. For more details, refer to the app.

NOTE

Depending on the network status, the update may fail. In such cases, wait for a while and try again.

Related links

“Settings overview” (p.61)

TROUBLESHOOTING

Before assuming a malfunction

Check the following points first

If this product does not operate properly during use, first check the following points.

- The power cords of this product, the connected audio devices (CD player, etc.), and the TV are securely connected to AC outlets.
- The power of this product, subwoofer, connected audio devices (CD player, etc.) and TV is turned on.
- All connection cables between devices are securely plugged into the jacks.

Problems with power, system, and/or remote control

Power fails to turn on

- **The protective circuit has been activated 3 times in a row.**

If the power indicator on the front panel of the PRIMARY speaker blinks when you try to turn the power on, the protective circuit has been activated. Please contact an authorized service center to have it repaired.

- **For details about contacting the Repair Consultation Center, refer to the enclosed Safety Guide.**

The power turns off suddenly

- **The Auto Standby function has been activated.**

If the Auto Standby function is set to On, the product will automatically turn off after a certain period of inactivity as specified in the settings.

Turn the power on again to resume use. You can also disable the Auto Standby function if desired.

- “Settings overview” (p.61)

- **The protective circuit has activated (when the power indicator on the front panel of the PRIMARY or SECONDARY speaker blinks).**

After confirming that the power cord is properly connected, turn the power on again.

If the product repeatedly switches off, unplug the power cord from the AC outlet and contact the Yamaha Repair Consultation Center.

- **The sleep timer activated.**

Turn the power back on and start playback. For more details, refer to the following.

- “Settings overview” (p.61)

- **The Auto Standby function was activated because the set period of time elapsed without operating the product.**

To disable the Auto Standby function, set “Auto Power Standby” to “Off”. For more details, refer to the following.

- “Settings overview” (p.61)

- **The volume was increased too high, activating the protective circuit.**

Lower the volume.

The product does not respond to controls

- **The internal microcomputer is frozen due to an external electric shock (such as lightning or excessive static electricity) or to a drop in the power supply voltage.**

Unplug both speakers from the AC outlet, wait for at least 15 seconds, and then plug them in again. Then turn on the power.

If the issue persists, try performing a “force-reset”.

- “Initializing and resetting the product” (p.64)

This product cannot be operated with the remote control

- **It is outside the operating range.**

Try using it within the operating range. For more details, refer to the following.

- “Preparing the remote control” (p.22)

- **The batteries are dead.**

Replace with new batteries.

- **Strong light or sunlight is hitting the remote control signal receiver on the main unit.**

Change the lighting or the orientation of the product.

The information display is off

- **The power is off.**

Check the connection of the power cord, and then turn on the power.

- **Because no operation was performed for a certain period of time, the information display has dimmed or turned off.**

Perform an operation.

- “Information display” (p.18)

Problems with the audio

No sound

● **There is a problem with the HDMI connection (for example, no sound from the TV connected via HDMI).**

For more details, refer to the following.

- “Problems with TV connections (HDMI)” (p.72)

● **A different input source is selected.**

Use the input source selection key on the remote control to select the correct input source. For more details, refer to the following.

- “Selecting an input source” (p.43)

● **The product is receiving an input signal that it cannot play.**

This product cannot play some digital audio formats. Check whether the signal is playable.

See the following for the supported file formats, HDMI audio formats, and supported codec formats.

- “Playable file formats (Network/USB)” (p.83)
- “Listening to TV audio on this product” (p.46)
- “Specifications” (p.86)

● **A cable connecting this product and an audio device is damaged.**

If you check the connections and they seem fine, replace the cable with a different one.

● **The audio is muted.**

Press the [MUTE] mute key on the remote control to cancel muting.

No sound is heard from the SECONDARY speaker

● **The PRIMARY and SECONDARY speakers are not connected.**

The following conditions may apply:

- The information display shows “L-x-R”.
- The [STATUS] indicator on the rear panel of the SECONDARY speaker is blinking.

In this case, turn off the power and unplug the power plugs of both speakers from the outlet.

After waiting at least 15 seconds, plug the power cords back in, turn on the power, and check whether the issue is resolved.

● **The power cord of the SECONDARY speaker is disconnected.**

Check that the power cord is properly connected to the SECONDARY speaker and the outlet.

● **The PRIMARY and SECONDARY speakers are connected using a network cable other than the supplied one.**

When using a commercially available network cable, use an STP cable of Category 6 (CAT6) or higher.

● **After using a wired connection, the network cable (for connecting left and right speakers) connecting the speakers was removed.**

Simply removing the cable does not restore the wireless connection. Refer to the following instructions and perform the steps to return to a wireless connection.

“Connecting the left and right speakers” (p.26)

No sound is output from the subwoofer

● **The subwoofer is not powered on, or is not connected properly.**

Turn on the power of the subwoofer. Also, check that it is connected properly.

- “Connecting a subwoofer” (p.28)

Check the setting of subwoofer. For more details, refer to the following.

● **The volume of the subwoofer is extremely low.**

Adjust the volume on the subwoofer itself.

● **The auto standby function of the subwoofer (automatically turning the power off) was activated.**

Disable auto-standby or adjust its operating sensitivity on the subwoofer itself.

Sound is distorted

● **The volume is too loud.**

Lower the volume.

Audio drops out (when using a wireless network)

● **Electromagnetic waves from a microwave oven or other wireless devices are interfering with wireless communication.**

Turn those devices off, or move them away from this product and the wireless LAN router. Also, if your wireless LAN router supports the 5 GHz frequency band, switch the connection to the 5 GHz band.

Volume cannot be increased

● **The maximum volume is set too low.**

Use “Volume Settings” in the “MusicCast Controller” app to adjust the maximum volume level. For more details, refer to the following.

- “Settings overview” (p.61)

The volume is too low (or too high) for a certain input source

● **There is a difference in volume level between input sources.**

Use “Input Level” in the “MusicCast Controller” app to adjust the volume for each input source individually.

Problems with TV connections (HDMI)

For this item, settings on the TV side may be required. For more details, refer to the user's manual for the TV.

TV audio is not output from this product

- **The HDMI cable is not connected to an eARC or ARC-compatible HDMI jack of a TV.**

If the TV has multiple HDMI input jacks, make sure it is connected to one labeled “eARC/ARC” or “ARC”.

- **The TV's eARC function is disabled (for eARC-compatible TVs).**

Enable the eARC function in the TV's settings.

- **The TV's HDMI Control function is disabled (for TVs that support ARC only).**

Enable the HDMI Control function on the TV.

- **The TV is configured to output audio from its own speakers.**

Change the TV's audio output setting so that TV sound is output not from the TV speakers but from the external device (this product).

- **The audio format output from the TV is not set correctly.**

The audio that can be played on this product via the [TV] jack is PCM 2-channel only. Check the settings on your TV, and set the audio format for eARC/ARC output to the PCM 2-channel format.

- **The TV connected via HDMI cable is not eARC or ARC-compatible.**

Connect this product to a TV that supports eARC or ARC using an HDMI cable. For more details, refer to the following.

- “Connecting a TV” (p.29)

Even when you select this product as the input source on the TV, no picture is displayed

- **This product does not output video (such as content or settings screens) or audio to the TV.**

The product does not power on together with the TV

- **The HDMI Control setting of this product is set to “Off”.**

Set HDMI Control to “Auto” or “On”. For more details, refer to the following.

- “Settings overview” (p.61)

- **The function settings for the TV's HDMI Control are incorrect.**

If the product does not turn on together with the TV, the TV's audio output at startup may be set to “TV Speakers”. If the product does not turn off together with the TV, the TV's standby-link (power-sync) setting may be “Off”. Refer to the user's manual of the TV and configure the HDMI Control function.

- **Power synchronization stopped working after a power outage.**

- ① Unplug the power cords of this product and the TV, and wait for about 5 minutes.
- ② Next, connect the power cord to the TV and wait for another 5 minutes.
- ③ Finally, connect the power cord to this product.

Problems with Bluetooth

Cannot connect with a Bluetooth device

- **The Bluetooth function of the Bluetooth device is off.**

Turn on the Bluetooth function of the Bluetooth device.

- **This product is connected to a different Bluetooth device.**

Disconnect the currently-connected Bluetooth device, and connect to the desired Bluetooth device. For more details, refer to the following.

- “Playing audio from a Bluetooth® device” (p.48)

- **This product and the Bluetooth device are too far apart.**

Move the Bluetooth device closer to this product.

- **Interference from devices (microwave oven, wireless network, etc.) using the same 2.4 GHz frequency band as Bluetooth is impeding wireless communications.**

Move this product and/or the Bluetooth device away from those devices. Also, if your wireless LAN router supports the 5 GHz frequency band, switch the connection to the 5 GHz band.

- **The Bluetooth device you are using does not support the A2DP and/or AVRCP profiles.**

Use a Bluetooth device that supports the A2DP and/or AVRCP profiles.

- **The connection information registered to the Bluetooth device is not functioning properly for some reason.**

Delete the connection information of the Bluetooth device and then reconnect this product to the Bluetooth device.

When connected via Bluetooth®, there is no sound, or the sound is intermittently disrupted

- **The volume of the Bluetooth device is too low.**

Turn up the volume of the Bluetooth device.

- **The audio output destination of the Bluetooth device is not set to this product.**

Set the audio output destination of the Bluetooth device to this product.

- **The Bluetooth connection was cut off.**

Reconnect the Bluetooth connection. For more details, refer to the following.

- “Playing audio from a Bluetooth® device” (p.48)

- **This product and the Bluetooth device are too far apart.**

Move the Bluetooth device closer to this product.

Problems with USB

The USB device is not recognized

- **The USB device is not plugged into the [USB] jack correctly.**
Turn off this product and then plug in the USB device again.
- **The USB device being used is in a format other than FAT16/32 or exFAT.**
Use a FAT16/32 or exFAT formatted USB device.

The folders and/or files on the USB device are not displayed

- **The data on the USB device is protected by an encryption function.**
Use a USB device that is not encrypted.

The content on the USB device fails to play when its preset number is selected

- **A USB device other than the one at the time of registration is plugged in.**
Connect the USB device registered to the preset number.
- **The registered content (files) was moved to a different folder.**
Register the content again.
- **Other music files were added to or deleted from the folder.**
If the folder or file structure has been changed, registered content may not be recalled correctly. Register the content again.

Files on the USB device fail to play consecutively

- **The selected folder contains files that cannot be played on the product.**
Do not put files that cannot be played on the product into the folder to be played.
- **The selected folder contains more than 500 songs.**
Up to 500 songs can be played. Depending on the folder structure, the maximum number of tracks may be reduced.

Problems with network

Network functions cannot be used

- **Network information (IP address) was not acquired properly.**

Enable the DHCP server function of the router.

Cannot connect to the Internet via a wireless LAN router (access point)

- **The power of the wireless LAN router is off.**

Turn the wireless LAN router on.

- **This product is too far from the wireless LAN router.**

Move the wireless LAN router and/or this product closer to each other.

- **There is an obstacle between this product and the wireless LAN router.**

Remove the obstacle between this product and the wireless LAN router.

- **The wireless network router is configured to use channel 14.**

Change the wireless network router settings so it uses one of the channels between 1 and 13.

- **The MAC address filter of the wireless network router is enabled.**

Set the MAC address filter of the wireless network router to disabled.

Cannot find the wireless network

- **Electromagnetic waves from a microwave oven or other wireless devices are interfering with wireless communication.**

Turn those devices off, or move them away from this product and the wireless LAN router. Also, if your wireless LAN router supports the 5 GHz frequency band, switch the connection to the 5 GHz band.

- **Access to the network is restricted by the firewall settings of the wireless LAN router.**

Check the firewall settings of your wireless LAN router.

Wireless connection is frequently disconnected or unstable

- **Electromagnetic waves from a microwave oven or other wireless devices are interfering with wireless communication.**

Turn those devices off, or move them away from this product and the wireless LAN router. Also, if your wireless LAN router supports the 5 GHz frequency band, switch the connection to the 5 GHz band.

- **This product is too far from the wireless LAN router.**

Move the wireless LAN router and/or this product closer to each other.

- **There is an obstacle between this product and the wireless LAN router.**

Remove the obstacle between this product and the wireless LAN router.

Cannot detect a media server (PC/NAS)

- **The share settings of the media server are not correct.**

Change the share settings of the media server so this product can access the folders on the media server.

● **Access to the media server is restricted by security software settings, etc.**

Check the security software settings of the media server and/or router.

● **This product is not connected to the same network as the media server.**

Check the network connections and/or the router settings, and connect this product to the media server over the same network (same router).

Media server (PC/NAS) files will not display (or play)

● **This product or the media server are using an unsupported file format.**

Use file formats that are supported by both this product and the media server. Refer to the following for the music file formats supported by this product.

- “Playable file formats (Network/USB)” (p.83)

Media server (PC/NAS) content cannot be played when its preset number is selected

● **The power is off.**

Make sure the power of the media server (PC/NAS) is on.

● **Not connected to the network.**

Check the network connections and/or the router settings.

● **The registered content (files) was moved to a different folder.**

Register the content again.

● **Other music files were added to or deleted from the folder.**

In this case, it may not be possible to recall registered content. Register the content again.

Cannot play Internet radio

● **Not connected to the Internet.**

In order to use Internet radio, this product must be connected to the Internet. Check the network connection.

- “Connecting to a network” (p.32)

● **The selected Internet radio station service is not currently available.**

It may not be possible to receive the radio station due to a network error on the radio station side, or the service may currently be stopped. Wait for a while and try playing it again, or select a different radio station.

● **The selected Internet radio station is broadcasting silence.**

Some radio stations broadcast silence at certain times. In such a case, no sound plays even if the station is being received. Wait for a while and try playing it again, or select a different radio station.

● **A temporary network error has occurred.**

Playback may not be possible due to a communication error. Wait a while and select the radio station again.

● **Access to the network is restricted by the firewall settings of the router or network devices.**

Check the firewall settings. Note that Internet radio can only be played via the port specified by each radio station. The port number varies depending on the radio station.

When using AirPlay, this product is not detected by the iPhone

- **You are using a router that supports multi SSID.**

The network isolating function of your wireless LAN router (access point) may be preventing access to this product. When connecting your iPhone, use an SSID that allows access to this product (try connecting to the primary SSID).

Music doesn't play via AirPlay

- **You are trying to listen to music that cannot be played on your iPhone.**

Make sure the files are playable. If you cannot play it even on your iPhone itself, the music data and/or storage area may be damaged.

This product is not detected by the dedicated app on the mobile device

- **This product is not connected to the same network as the mobile device.**

Check the network settings and/or the router settings and connect to the same network.

- **You are using a router that supports multi SSID.**

The network isolating function of your wireless LAN router (access point) may be preventing access to this product. When connecting your mobile device, use an SSID that allows access to this product (try connecting to the primary SSID).

Unable to update the firmware via the network

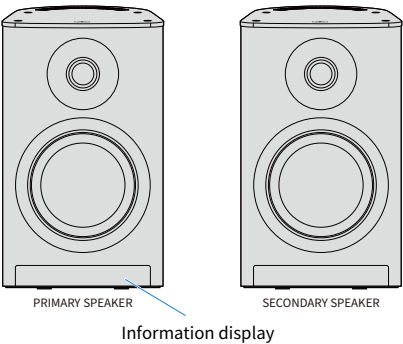
- **Your network connection is poor.**

Wait a while and try again.

Error display

If an error occurs in this product, the following indications are displayed on the information display or indicator. Follow the appropriate corrective action according to the type of error.

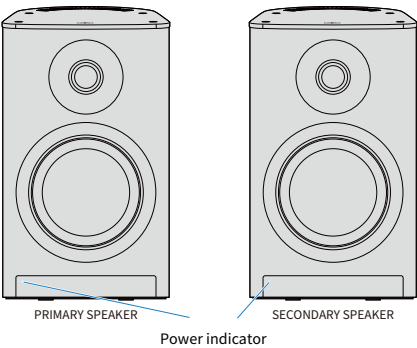
Error indications on the information display



Display	Error description and corrective action
Version Error	The firmware update may have failed. Perform the update again. Depending on the network status, the update may fail. In such cases, wait for a while and try again.

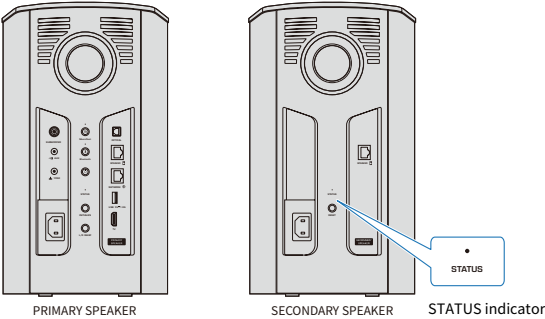
Error indications on the indicators

Front panel of the speakers



Indicator	Display	Error description and corrective action
Power indicator of the PRIMARY speaker	Blinking white 	The protective circuit has been activated. Unplug both speakers from the AC outlet, wait for at least 15 seconds, and then plug them in again. Then turn on the power. If the issue persists, contact an authorized service center.
Power indicator of the SECONDARY speaker	Blinking white 	

Rear panel of the speakers



Indicator	Display	Error description and corrective action
[STATUS] indicator of the SECONDARY speaker	Blinking white 	Cannot connect to the PRIMARY speaker. Refer to the following troubleshooting and check whether the issue is resolved: “Problems with the audio” (p.70) - “No sound is heard from the SECONDARY speaker”

After-Sales Service

For service requests or inquiries, please contact one of the following:

- Customers in Japan
Please contact the retailer where the product was purchased, or the Repair Consultation Center listed in the enclosed Safety Guide.
- Customers outside Japan
Please contact your nearest authorized Yamaha dealer or service center.
https://manual.yamaha.com/audio/address_list/

SPECIFICATIONS

Supported devices and formats

Supported Bluetooth devices

Bluetooth devices that can be connected to this product

- Bluetooth devices compatible with the A2DP and AVRCP profiles can be connected.
- Bluetooth connection and the functions/performance described in this guide are not guaranteed for all Bluetooth devices.

Supported USB devices

USB devices supported by this product

- USB flash drives formatted in FAT16, FAT32, or exFAT. Do not plug in any other USB devices.
- USB devices with an encryption function cannot be used.
- Yamaha does not guarantee compatibility with all USB devices.

Playable file formats (Network/USB)

For audio received via a network connection or played from a USB device, the playable file formats are shown in the following table.

File	Sampling frequency (kHz)	No. of quantization bits (bit)	Bit rate (kbps)	No. of channels	Gapless Playback Support
WAV*	32/44.1/48/88.2/96/176.4/192/352.8/384	16/24/32	-	1/2	○
MP3	32/44.1/48	-	8 to 320	1/2	-
WMA	32/44.1/48	-	8 to 320	1/2	-
MPEG-4 AAC	32/44.1/48	-	8 to 320	1/2	-
FLAC	32/44.1/48/88.2/96/176.4/192/352.8/384	16/24	-	1/2	○
ALAC	32/44.1/48/88.2/96	16/24	-	1/2	○
AIFF	32/44.1/48/88.2/96/176.4/192/352.8/384	16/24/32	-	1/2	○
DSD (DSF/DIFF)	2.8 MHz (DSD64)/ 5.6 MHz (DSD128)/ 11.2 MHz (DSD256)	1	-	1 (DIFF only)/2	-

- * linear PCM format only.
- The playable file formats vary with the server software installed on the media server (PC/NAS). For more details, refer to the user's manual of the server software.
 - Files protected by DRM (Digital Rights Management) cannot be played.

Trademarks and licenses

The following trademarks and licenses are used in this manual.



This Network powered speaker is compatible with AirPlay. iOS 11.4 or later is required.

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

Apple, AirPlay, Apple TV, Apple Watch, iPad, iPad Air, iPad Pro, iPhone, Lightning, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries and regions.

App Store

App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

Use your phone, tablet or computer as a remote control for Spotify. Go to spotify.com/connect to learn how.



The Spotify Software is subject to third party licenses found here:

www.spotify.com/connect/third-party-licenses

roon READY

Being Roon Ready means that Yamaha uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.

Android™ Google Play



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GPL/LGPL

This product utilizes GPL/LGPL open-source software in some sections. You have the right to obtain, duplicate, modify, and redistribute this open-source code only. For information on GPL/LGPL open source software, how to obtain it, and the GPL/LGPL license, refer to the Yamaha Corporation website

(<https://download.yamaha.com/sourcecodes/musiccast/>).

Licenses

For information on the licenses of the third-party software in this product, refer to the following.

[http://\(IP address of this product*\)/licenses.html](http://(IP address of this product*)/licenses.html)

* IP address of this product is checked with MusicCast Controller.

Specifications

The specifications of this product are as follows.

Speaker

Type	2-way bass-reflex / non-magnetic-shield type
Speaker units	
• Woofer	13 cm cone
• Tweeter	3 cm dome
Playback frequency bandwidth	50 Hz to 35 kHz (-10 dB, when using a wired connection between the left and right speakers)
	50 Hz to 21 kHz (-10 dB, when using a wireless connection between the left and right speakers)
Total harmonic distortion	0.09 % (at 1 kHz/W)

Audio functions

Tone Control	
• BASS/TREBLE	±12 step (0.5 dB/step)
• BALANCE	±20 step (0.5 dB/step)
Volume	0 (Mute) to 100 (1 step)

High-quality audio technologies

- Harmonious diaphragm
- Equipped with Synergistic Drive
- Linear phase
- LLC power supply
- High-precision, high-performance ES9017S DAC (operates in current mode)

YPAO (automatic room calibration)

- PEQ
- Reflected Sound Control (R.S.C)
- YPAO Volume

HDMI functions

HDMI Control (CEC/ARC Function)	
• CEC Standby ON (Power synchronization with TV)	
• Volume control (Up/Down/Mute) linked to TV volume	
• eARC/ARC (Supported audio formats: 2 ch PCM 192 kHz 24-bit)	

Network functions and streaming services

- Server (PC client function)
- Net Radio (Internet radio)
- Podcasts
- MusicCast Link
- AirPlay
- Spotify
- TIDAL
- Roon Ready
- Google Cast

Wi-Fi function

- Wireless network standard: IEEE 802.11 a/b/g/n/ac/ax
- Frequency bands: 2.4 GHz/5 GHz
- Supported security: WPA2-PSK, WPA3-SAE
- WPS (Wi-Fi Protected Setup)
- WAC (Wireless Accessory Configuration)

Bluetooth function

- Bluetooth version: Ver. 5.3
- Bluetooth class: Bluetooth Class 1
- Supported profiles: A2DP, AVRCP
- Supported codecs: SBC, AAC
- Supported content protection: SCMS-T

User interface

Displayable characters

- Latin and extended Latin characters
- Greek characters
- Cyrillic characters
- Hiragana, Katakana, and Japanese Kanji
- Full set of Chinese characters
- Numbers and selected symbols

Audio Section

Total output power	320 W (160 W × 2)
• Woofer	100 W
• Tweeter	60 W
Maximum Input Signal Voltage	
• AUX (1 kHz, 0.5%THD)	2.2 V

Maximum output voltage / output impedance	
• SW OUT	4.5 V/1.2 kΩ
S/N ratio	
• OPTICAL	100 dB
Residual Noise (IHF-A Network)	
	100 μVrms

General

Power Supply	
• [Models for U.S.A. and Canada]	AC 120 V, 60 Hz
• [Model for China]	AC 220 V, 50 Hz
• [Model for Australia]	AC 230 to 240 V, 50 Hz
• [Models for U.K. and Europe]	AC 230 V, 50 Hz
Power Consumption	PRIMARY speaker: 40 W SECONDARY speaker: 40 W
Standby Power Consumption	
PRIMARY speaker	
• HDMI Control On (Auto)	
• Network Standby On (Auto), Bluetooth Standby On	2.0 W
• Network Standby Off, Bluetooth Standby Off	2.0 W
• HDMI Control Off	
• Network Standby On (Auto), Bluetooth Standby On	2.0 W
• Network Standby On (Auto), Bluetooth Standby Off	2.0 W
• Network Standby Off, Bluetooth Standby Off	0.5 W
SECONDARY speaker	2.0 W
Dimensions (W × H × D)	189 × 333 × 234 mm (7-1/2" x 13-1/8" x 9-1/4")
Weight	PRIMARY speaker: 5.7 kg (12.6 lbs) SECONDARY speaker: 5.4 kg (11.9 lbs)
Compatible speaker stand	SPS-70A*

* Mounted using the two M4 mounting holes (depth: 9.5 mm) on the bottom of the NX-70A.
“Bottom panel of the speakers” (p.17)

NOTE

This document is based on the latest specifications at the time of publication. The latest version is available for download from the Yamaha website.

About network functions

Settings using a web browser

Some functions of this product can be configured using a web browser.

Functions

- Web Settings

■ Web Settings

On the Web Settings screen, you can change settings and view license information for this product.
From the Settings menu of the dedicated app “MusicCast Controller”, select “External Features/Advanced Settings”.
The Web Settings screen will appear in the browser.

Web Settings	
Network Settings	
Standby	
Licenses	>

On the Web Settings screen, you can view and change the following settings.

Network Settings

Configure the network connection settings (wired/wireless, DHCP/IP address, etc.).

Standby

This is used to set Network Standby mode (Off, On, Auto) and Bluetooth Standby mode (Off, On).

Licenses

This displays the texts for various licenses.

How to disable wireless functions

This product is equipped with the following wireless functions. These functions can be disabled by changing the settings.

Functions

- Wi-Fi/Bluetooth
- Wireless communication function between the PRIMARY and SECONDARY speakers

NOTE

- Normally, there is no need to change these settings. Change the settings only when you want to disable wireless communication.
- Wi-Fi and Bluetooth cannot be configured separately.
- When this product is initialized, the settings return to the default (wireless functions enabled).

Operation when Wi-Fi/Bluetooth functions are disabled

- If the Wi-Fi function is disabled while this product is connected to a wireless network, note the following:
 - You will no longer be able to operate this product or play network content using the “MusicCast Controller” app.
 - A wired network connection can still be used. For details, refer to the following: “Connecting to a network” (p.32)
 - The wireless connection between the smartphone or tablet and the wireless network router is not affected.
- Audio playback via Bluetooth connection will no longer be available.

■ How to disable Wi-Fi/Bluetooth

- 1 Turn off (set to standby) the power of the product.**
- 2 Press and hold the [M][MusicCast] button and [B][Bluetooth] button on the rear panel of the PRIMARY speaker simultaneously for 10 seconds.**
The [STATUS] indicator blinks once.
- 3 Turn on the power.**

The product will start with both Wi-Fi and Bluetooth functions disabled.

To restore the settings (enable wireless functions), repeat the procedure from step 1. In this case, performing step 2 will cause the [STATUS] indicator to blink twice.

■ How to disable wireless communication between the PRIMARY and SECONDARY speakers

- 1 Turn off (set to standby) the power of the product.**
- 2 Connect the supplied network cable to the [SPEAKER] jacks on the rear panel of both speakers.**

3 Turn on the power.

The product will start with wireless communication between the PRIMARY and SECONDARY speakers disabled (wired connection). To return to a wireless connection, refer to the following section.

“Connecting the left and right speakers” (p.26)

Yamaha Global Site
<https://www.yamaha.com/>

Yamaha Downloads
<https://download.yamaha.com/>

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