



Lighting Audio System

LSX-170

OWNER'S MANUAL

Read the supplied booklet "Safety Brochure" before using the unit.

Made for
 iPod  iPhone  iPad



Relit

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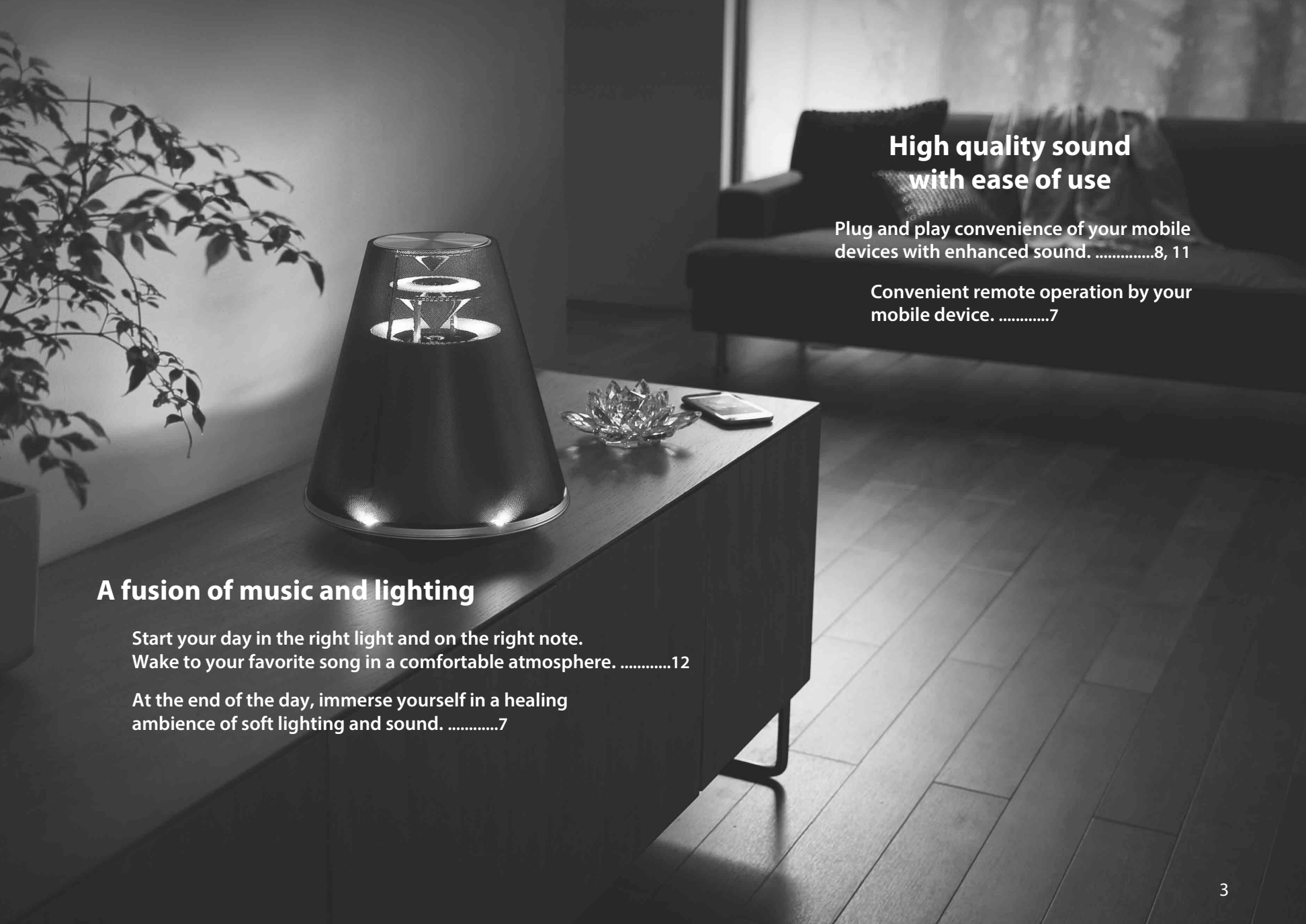
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High quality sound with ease of use

Plug and play convenience of your mobile
devices with enhanced sound.8, 11

Convenient remote operation by your
mobile device.7

A fusion of music and lighting

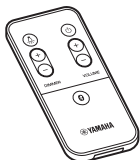
Start your day in the right light and on the right note.
Wake to your favorite song in a comfortable atmosphere.12

At the end of the day, immerse yourself in a healing
ambience of soft lighting and sound.7

Introduction

Confirm the package contents and thoroughly read this manual.

Supplied accessories



Remote control

About this manual

• Operations

- How to operate this unit is described mainly using the remote control.
- "iPhone" described in this manual may also refer to "iPod touch" or "iPad."

• Illustrations

Illustrations may differ from actual item depicted.

• Symbols



Indicates precautions for use of the unit and feature limitations.



Indicates supplementary explanations for better use.

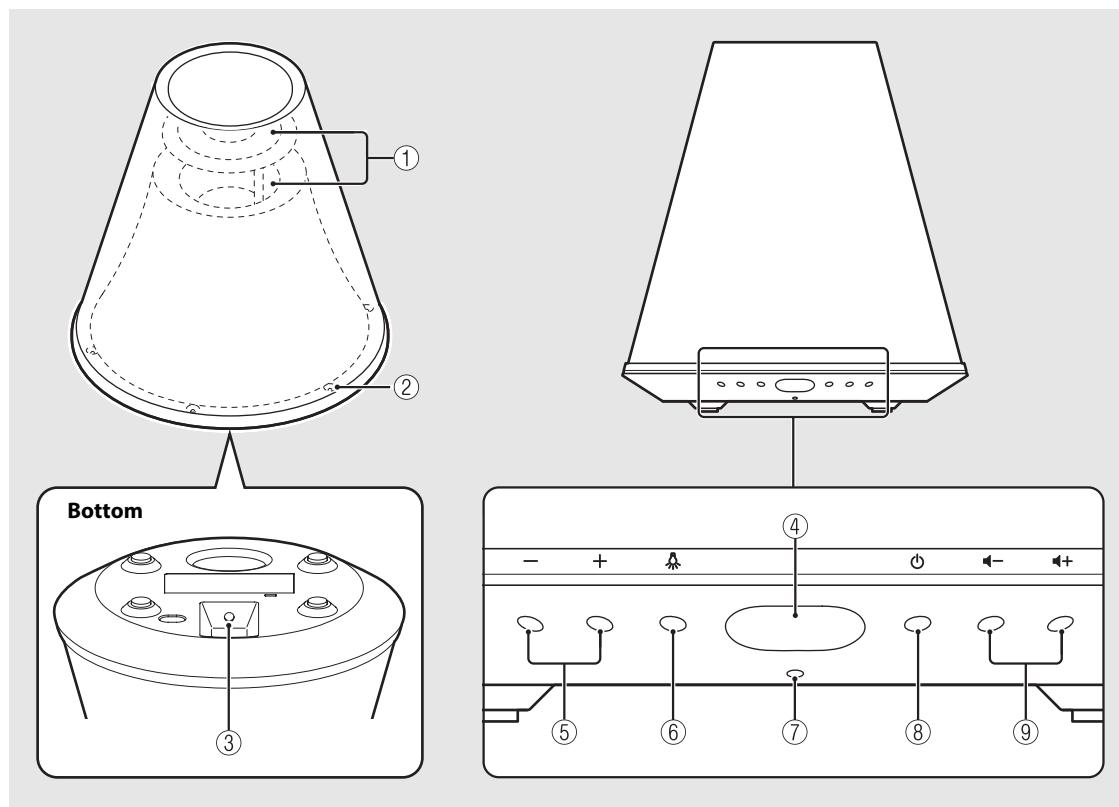


Indicates the corresponding reference page(s).

Part names

Familiarize yourself with all parts and these functions.

Main body



* The light effects represent the sound expansion.

① Light/speaker

② Light

③ AUX IN (☞ P.11)

Connects to an external device via a commercially available 3.5 mm stereo mini-plug cable.

④ Remote control signal sensor (☞ P.6)

⑤ Lighting -/+

Press to adjust the lighting brightness.

⑥  (Lighting) (☞ P.7)

Press to turn on or off the light.

⑦ Indicator

Lights when the unit is turned on. The indicator blinks when the *Bluetooth* connection status changes.

⑧  (Power) (☞ P.7)

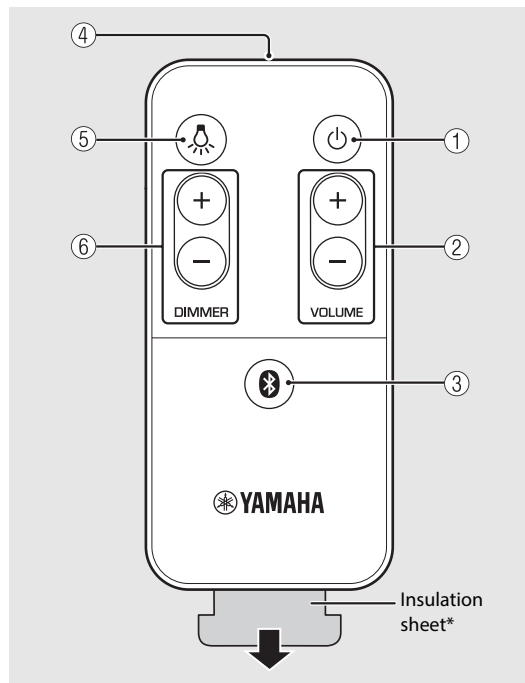
Press: Turns the unit on/off.

Press and hold: Disconnects a *Bluetooth* device. The unit plays a startup tone when turned on and a shutdown tone when turned off.

⑨  (VOLUME)

Controls the volume.

Remote control



* Remove the insulation sheet of the remote control before using.

① (Power) (☞ P.7)

Press to turn on or off the unit.
The unit plays a startup tone when turned on and a shutdown tone when turned off.

② **VOLUME +/-** Controls the volume.

③ (Bluetooth) (☞ P.9)

Press: Connects to a *Bluetooth* device.
Press and hold: Disconnects from a *Bluetooth* device.
The unit plays a connection tone when establishing a *Bluetooth* connection, and plays a disconnection tone when disconnecting a *Bluetooth* connection.

④ Remote control signal transmitter

⑤ (Lighting) (☞ P.7)

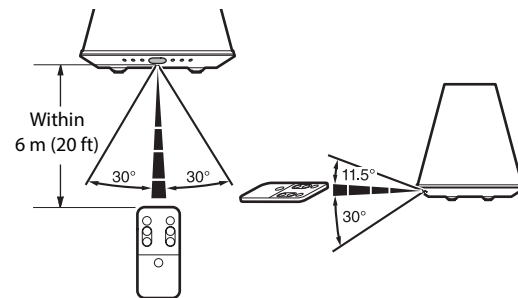
Press to turn on or off the lighting.

⑥ **DIMMER +/-** (☞ P.7)

Press to adjust the lighting brightness.

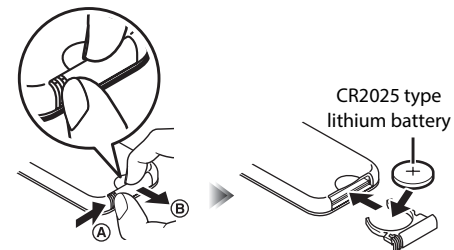
Remote control angle/range

Point the remote control at the remote control signal sensor on the unit.



Replacing the battery

- Check the "+" of the battery and insert it the correct way around.
- While pushing the release tab in direction ①, slide out the battery holder in direction ②.



Preparations

Install Yamaha's application "DTA CONTROLLER" and turn the unit on.

Installing "DTA CONTROLLER"

Installing DTA CONTROLLER application on a mobile device, such as a smartphone or tablet computer, allows you to use a variety of additional convenient features of Yamaha desktop audio systems.

Features

- Turning on/off of the unit, adjusting volume
- Turning on/off the lighting, adjusting the brightness of the lighting
- Setting of the SMART TIMER (☞ P.12)
- Playing back songs stored in a smart phone or tablet



The mobile device needs to be connected with the unit via *Bluetooth* connection (☞ P.8).



<http://itunes.com/app/dtacontroller>



(For users in the U.S.A.)

<https://itunes.apple.com/us/app/dta-controller-us/id549333293?mt=8>

Google Play™



<https://play.google.com/store/apps/details?id=com.yamaha.av.dtacontroller>

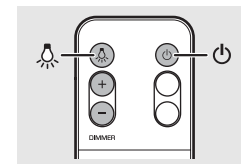
* If access to any of these fails, search for "DTA CONTROLLER" on the App Store or Google Play.

Turning on the lighting/power

1 Plug the power cable into a wall outlet.

2 • Press to turn on the light.

- Lighting can be turned on/off even when the power of the unit is off.
- To adjust the brightness, press the **DIMMER +/-** button on the remote control (10 steps).



• Press to turn on the unit.

- The unit plays a startup tone and turns on. You can then play music.



Auto standby function

- The auto standby function will be activated as follows (default setting).
 - The unit turns off automatically if no operation has been performed for more than 20 minutes with no device connected to AUX IN or via *Bluetooth* connection.
 - The unit turns off automatically if no operation has been performed for more than 8 hours.

Activating/deactivating the auto standby function

1 Press to turn on the light.

2 Press and hold for at least 10 seconds.

- The auto standby function switches and the lighting (☞ P.5) blinks.
 - **Auto standby is activated:** The lighting blinks three times.
 - **Auto standby is deactivated:** The lighting blinks once.

Turning the notification-tone function on/off

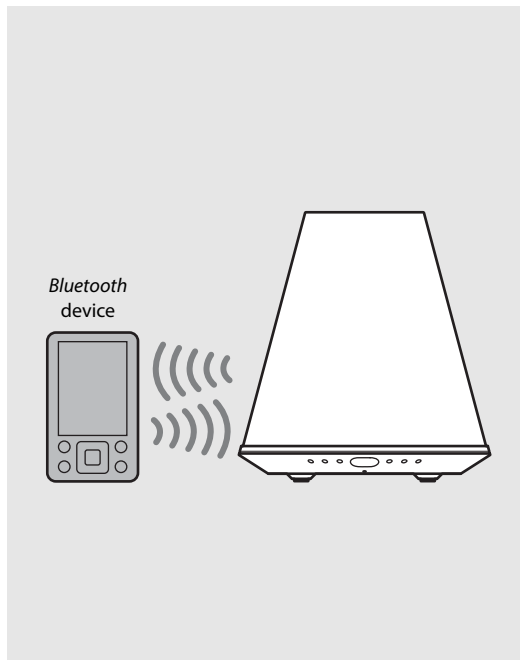
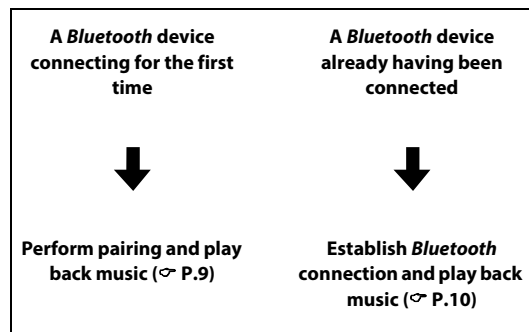
- If you want to turn the notification tones (startup tone/shutdown tone, *Bluetooth* connection tone, maximum/minimum volume notification tone) on or off, when the unit is off, press while pressing to turn on the unit.
 - **If turning on the notification tones:** The unit plays the startup tone.
 - **If turning off the notification tones:** The unit does not play the startup tone.

Listening to music via *Bluetooth* connection

You can listen to sound wirelessly from a *Bluetooth* compatible device.

Pairing a device with the unit


When connecting a *Bluetooth* device to the unit for the first time, the device is required to be registered to the unit. This process is called "pairing." Once pairing is completed, subsequent connection can be made with a couple of easy steps.

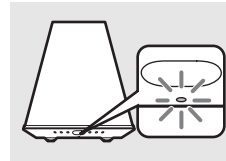



- If pairing information for a device is deleted, you will need to perform pairing of that device again in order to connect it again.

Performing pairing and playing back music


iPhone

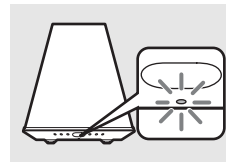
- 1 Press  to turn on the unit (☞ P.7).
 - The indicator lights in orange.
- 2 Tap “Settings” and “Bluetooth” on your iPhone to turn on its *Bluetooth* function.
- 3 On the connecting list in the “Device” field, tap “LSX-170 Yamaha.”
 - After pairing is complete, the indicator (☞ P.5) blinks in blue and the unit plays a *Bluetooth* connection tone when a *Bluetooth* connection is established.
- 4 Play back music on your iPhone.




- If another device is already connected to the unit, terminate that *Bluetooth* connection by pressing and holding , then perform pairing with the new device.
- The pairing operation may differ depending on your iPhone or version of device OS.

Other than iPhone


- 1 Press  to turn on the unit (☞ P.7).
 - The indicator lights in orange.
- 2 Turn on the *Bluetooth* function on your device.
- 3 In the *Bluetooth* setting of the device, select “LSX-170 Yamaha.”
 - After pairing is complete, the indicator (☞ P.5) blinks in blue and the unit plays a *Bluetooth* connection tone when a *Bluetooth* connection is established.
 - If the device does not connect to the unit automatically after the pairing is completed, select “LSX-170 Yamaha” again in the *Bluetooth* setting on your device.
 - For details, see the owner’s manual of your device.
- 4 Play back music on your device.




- If another device is already connected to the unit, terminate that *Bluetooth* connection by pressing and holding , then perform pairing with the new device.
- If a passkey is required during the pairing operation, enter the number “0000.”

Connecting a paired Bluetooth device and playing back music

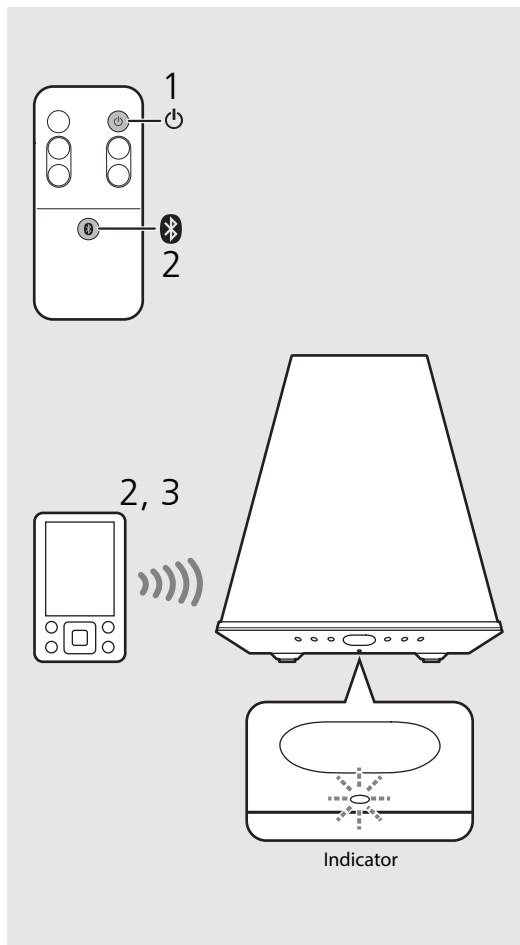
If the unit is connected to another device via *Bluetooth* connection, terminate that connection (see "Terminating the *Bluetooth* connection" on the right) before connecting to the target device.

1 Press  to turn on the unit.

2 Perform *Bluetooth* connection.

- **Connecting from the unit:** Press .
- **Connecting from the *Bluetooth* device:** Turn on the *Bluetooth* function on the device and select "LSX-170 Yamaha."
- The indicator blinks in blue and the unit plays a *Bluetooth* connection tone when a connection is established.

3 Play back music on the connected device.





- **Decrease the volume of the unit before playback.** Otherwise, playback volume may be too loud.



- If connecting from the unit, the unit searches for the *Bluetooth* device connected the last time. In this case, make sure that device's *Bluetooth* function is turned on.


Terminating the *Bluetooth* connection

- *Bluetooth* connection can be terminated by either one of the following.
 - Turn off the *Bluetooth* function of the connected device.
 - Press and hold  on the unit.
 - Press and hold .
- The indicator blinks in blue and the unit plays a *Bluetooth* disconnection tone when the connection is terminated.

Music enhancer

This function enhances the sound of compressed digital sound by regenerating musical elements that are lost through compression via *Bluetooth* connection.


Listening to external sources

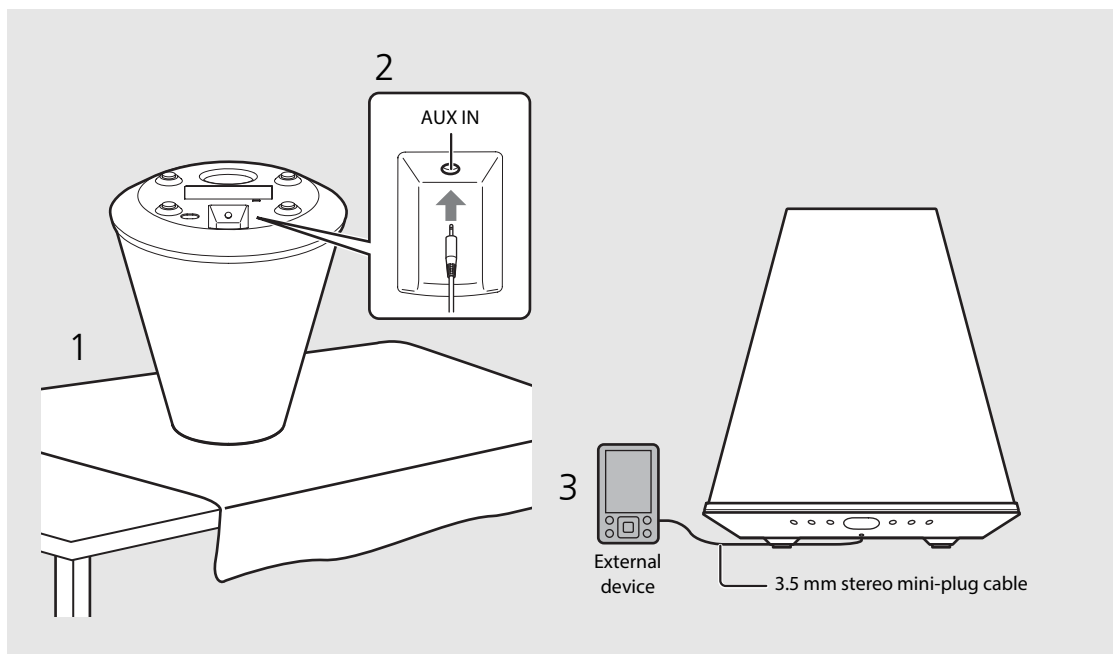
This unit allows playback of external devices connected to the AUX IN terminal. A commercially available 3.5 mm stereo mini-plug cable is required for this connection. **Be sure to turn off the unit by pressing  and unplug the power cord from the wall outlet before connecting an external device.**

Connecting an external device

- 1 Place a soft cloth on a table and turn the unit upside down.
- 2 Plug the cable into the AUX IN terminal of the unit.
- 3 Plug the other end of the cable into the external device.

Playing back

- 1 Press  to turn on the unit.
- 2 Play back the external device.
 - For details on playback, see the owner's manual supplied with the external device.



- Decrease the volume of the unit and the external device before connection.
- When turning the machine upside down, make sure that it is stable so that it does not fall.



- If both a *Bluetooth* device and external device are played back, sound from both devices will be heard.

Using the SMART TIMER

The SMART TIMER allows you to turn on the lighting at the brightness you set and play back your favorite music as a wake-up timer every morning. You can also turn off the lighting and stop music playback automatically while you are in bed listening to music.

What the SMART TIMER can do

On-timer	Off-timer
<ul style="list-style-type: none">• Turn on the lighting at a specified time.• Specify the brightness of the lighting.• Play back the music of a connected device at a specified time.• Specify a song.• Preset the volume level.	<ul style="list-style-type: none">• Turn off the lighting at a specified time.• Turn off the power at a specified time.



- To play back a song via *Bluetooth* connection at a set time, it is required that the *Bluetooth* function of your smart phone or tablet is turned on. Additionally, in the case of an iPhone, do not quit DTA CONTROLLER while multitasking.
- If another *Bluetooth* device is connected to the unit at the time you set, the song you set as the on-timer will not be played back. Disconnect any other device before the time you set.



- The on-timer and off-timer of the SMART TIMER can be activated/deactivated by DTA CONTROLLER only.

Setting the SMART TIMER

SMART TIMER settings can be performed with a smart phone or tablet that has the DTA CONTROLLER application (☞ P.7) installed.

- 1 Connect a device via *Bluetooth* connection (☞ P.9, 10).
- 2 Start DTA CONTROLLER on the device and make the SMART TIMER settings.
- 3 Synchronize the SMART TIMER with the unit by DTA CONTROLLER.
 - Be sure to synchronize the SMART TIMER with the unit every time you perform the SMART TIMER setting.



Inner clock of the unit







- The unit copies the time to the unit's inner clock from DTA CONTROLLER when a device connects to the unit via *Bluetooth* connection. The SMART TIMER follows the unit's inner clock.
- The clock setting will be reset and the SMART TIMER will be deactivated if the power cable is kept disconnected from the wall outlet for about twenty four hours.

Due to product improvements, specifications and appearance are subject to change without notice.

Troubleshooting

Refer to the table below if the unit does not function properly. If your solution is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cable, and contact your nearest authorized Yamaha dealer or service center.

General

Problem	Cause	Solution
The unit turns off soon after the power is turned on.	The power cable is not properly connected.	Connect the power cable firmly.
The unit does not operate properly.	This unit has been exposed to a strong external electric shock such as lightning or strong static electricity.	Hold down  on the front panel for more than 10 seconds to initialize and reboot the unit.
The speakers make no sound.	The volume is minimum.	Turn up the volume.
	The power is off.	Turn on the unit and play the music again.
	The auto standby function is activated.	Turn on the unit ( P.7).
The unit and/or lighting turn off suddenly.	The auto standby function is activated.	Turn on the unit and/or lighting ( P.7).
	The off-timer of the SMART TIMER is set.	Check the setting of the off-timer from DTA CONTROLLER.
The unit and lighting turn on suddenly.	The on-timer of the SMART TIMER is set.	Check the setting of the on-timer from DTA CONTROLLER.
SMART TIMER does not operate.	The power cable has been disconnected for more than twenty four hours and the clock information is cleared.	Set the SMART TIMER from DTA CONTROLLER and synchronize it to the unit ( P.12).
	SMART TIMER is not set from DTA CONTROLLER.	
There is noise interference from digital or high-frequency equipment.	This unit is too close to the digital or high-frequency equipment.	Place this unit farther away from such equipment.
The remote control does not work or does not function properly.	The remote control may be operated outside its operation range.	Operate the remote control within its operation range ( P.6).
	The remote control sensor on this unit may be exposed to direct sunlight or strong lighting such as an inverter type fluorescent lamp.	Change the orientation of the lighting or unit, or location of the unit.
	The battery may be worn out.	Replace the battery with new one ( P.6).
	There are obstacles between the sensor of this unit and the remote control.	Remove the obstacles.

Bluetooth

Problem	Cause	Solution
Cannot make the unit pair with a <i>Bluetooth</i> device.	The unit is turned off.	Turn the unit on and perform the pairing (🔧 P.9).
	Another <i>Bluetooth</i> device is connected.	Terminate current <i>Bluetooth</i> connection, and perform pairing with the new device.
	This unit and the device are too far apart.	Pair the unit and device within a distance of 10 m (33 ft).
	There is a device (microwave oven, wireless LAN, etc.) that outputs signals in the 2.4 GHz frequency band nearby.	Move this unit away from the device that is emitting radio-frequency signals.
	A <i>Bluetooth</i> adaptor, etc., that you want to pair with this unit has a passkey other than "0000."	Use a <i>Bluetooth</i> adaptor, etc., whose passkey is "0000."
	The <i>Bluetooth</i> device does not support A2DP.	Perform pairing with a device which supports A2DP.
Cannot make a <i>Bluetooth</i> connection.	The unit is turned off.	Turn the unit on.
	Another <i>Bluetooth</i> device is connected.	Terminate current <i>Bluetooth</i> connection, then establish a <i>Bluetooth</i> connection with that device again.
	The <i>Bluetooth</i> function of the device is turned off.	Turn on the <i>Bluetooth</i> function of the device.
	The pairing information has been deleted.	Perform pairing again (🔧 P.9). This unit can be paired with eight devices. If pairing with a ninth device is performed, the pairing information with the earliest connection date will be deleted.
	This unit is not registered on the device's <i>Bluetooth</i> connection list.	Perform pairing again (🔧 P.9).
	The volume of the connecting device is set too low.	Turn up the volume of the connecting device.
No sound is produced, or the sound is interrupted during playback.	The connecting device is not set to send <i>Bluetooth</i> audio signals to the unit.	Switch the output of <i>Bluetooth</i> audio signals of the connecting device to the unit.
	The <i>Bluetooth</i> connection of the unit with the device has terminated.	Perform <i>Bluetooth</i> connection operations again (🔧 P.10).
	There is a device (microwave oven, wireless LAN, etc.) that outputs signals in the 2.4 GHz frequency band nearby.	Move this unit away from the device that is emitting radio-frequency signals.
	This unit and the connecting device are too far apart.	Move the connecting device to within 10 m (33 ft) of the unit.

Specifications

Bluetooth section

Bluetooth version	Ver. 2.1+EDR
Supported profile	A2DP (Advanced Audio Distribution Profile)
Compatible codecs	SBC, AAC, aptX®
Wireless output	Bluetooth Class 2
Maximum communication range	10 m [33 ft] (without obstructions)

AUX IN section

Input connector	3.5 mm stereo mini jack
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Lighting section (LED*)

Lifetime	(Luminous flux under 70%) About 36,000 hours
Power consumption	(When only the lighting is on) 7 W

General

Power supply	U.K. model	AC 230 V, 50 Hz
	Australia model	AC 240 V, 50 Hz
Power consumption	Power-on condition (music is played back and the lighting is on): 15 W	
	Power-off condition (lighting and SMART TIMER are off and no Bluetooth connection): 0.2 W Standby condition (SMART TIMER is on) or Bluetooth standby: 0.6 W	
Dimensions (W × H × D)	271 × 290 × 271 mm (10-5/8 × 11-3/8 × 10-5/8 in)	
Weight	3.3 kg (7.3 lbs.)	

Specifications are subject to change without notice.

* The estimated lifetime of LED lighting is about 36,000 hours.

This figure is based on the shorter of either the duration until the lighting is worn out, or the duration before luminous flux drops to below 70% of the original. Note, however, that the estimated 36,000 hour duration is not guaranteed.

Made for



iPod



iPhone



iPad

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the

developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

iPad, iPhone, iPod and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

Bluetooth

- Bluetooth is a technology for wireless communication between devices within an area of about 10 meters (33 ft) employing the 2.4 GHz frequency band, a band which can be used without a license.
- Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

Handling Bluetooth communications

- The 2.4 GHz band used by Bluetooth compatible devices is a radio band shared by many types of equipment. While Bluetooth compatible devices use a technology minimizing the influence of other components using the same radio band, such influence may reduce the speed or distance of communications and in some cases interrupt communications.
- The speed of signal transfer and the distance at which communication is possible differs according to the distance between the communicating devices, the presence of obstacles, radio wave conditions and the type of equipment.
- Yamaha does not guarantee all wireless connections between this unit and devices compatible with Bluetooth function.

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