# YAMAHA

MusicCast
WX-030
WIRELESS STREAMING SPEAKER

OWNER'S MANUAL

Bluetooth®

ABL

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2 Install this unit in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture and cold. For proper ventilation, allow the following minimum clearances.
Top: 5 cm (2 in)
Rear: 5 cm (2 in)
Sides: 5 cm (2 in)

3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.

4 Do not expose this unit to sudden temperature changes from cold to hot (or vice versa), and do not locate this unit in an environment with high humidity (i.e., a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.

5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
– Other components, as they may cause damage and/or discoloration on the surface of this unit.
– Burning objects (i.e., candles), as they may cause fire, damage to this unit, and/or personal injury.
– Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

7 Do not plug in this unit to a wall outlet until all connections are complete.

8 Do not operate this unit upside-down. It may overheat, possibly causing damage.

9 Do not use force on switches, knobs and/or cords.

10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.

11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.

13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.

14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.

15 When not planning to use this unit for long periods of time (i.e., vacation), disconnect the AC power plug from the wall outlet.

16 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.

17 Before moving this unit, press ⏻ to set the unit to off, and disconnect the AC power plug from the wall outlet.

18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.

19 When using this unit for a long time, this unit may become warm. Turn the unit off, then leave this unit alone for cooling.

20 Install this unit near the wall outlet and where the AC power plug can be reached easily.

21 Be sure to use the power cable supplied with this unit. Using a power cable other than the one provided may cause fire or damage to this unit.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by ⏻. In this state, this unit is designed to consume a very small quantity of power.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

• This unit's speakers use magnets. Do not place items that are sensitive to magnetism, such as CRT-type TVs, clocks, credit cards, floppy disks, etc., on or beside this unit.
• There is a chance that placing this unit too close to a CRT-based (Braun tube) TV set might impair picture color. Should this happen, move this unit away from the TV set.

◆ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

◆ Special Instructions for U.K. Model

IMPORTANT
THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL
Brown: LIVE
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Make sure that neither core is connected to the earth terminal of the three pin plug.

Information for Users on Collection and Disposal of Old Equipment

This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[Information on Disposal in other Countries outside the European Union]

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

If there should be color blotching or noise when used near a TV, move this unit away from the TV when using it.

Do not use this unit within 22 cm (9 inches) of persons with a heart pacemaker implant or defibrillator implant.

Radio waves may affect electro-medical devices. Do not use this unit near medical devices or inside medical facilities.

The user shall not reverse engineer, decompile, alter, translate or disassemble the software used in this unit, whether in part or in whole. For corporate users, employees of the corporation itself as well as its business partners shall observe the contractual bans stipulated within this clause. If the stipulations of this clause and this contract cannot be observed, the user shall immediately discontinue using the software.

We, Yamaha Music Europe GmbH hereby declare that this unit is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Yamaha Music Europe GmbH
Siemensstr. 22-34 25462 Rellingen, Germany
Tel: +49-4101-303-0

CE

◆ About this manual
• "iPod" described in this manual may also refer to "iPhone" or "iPad."
• Illustrations may differ from actual item depicted.
• Symbols:

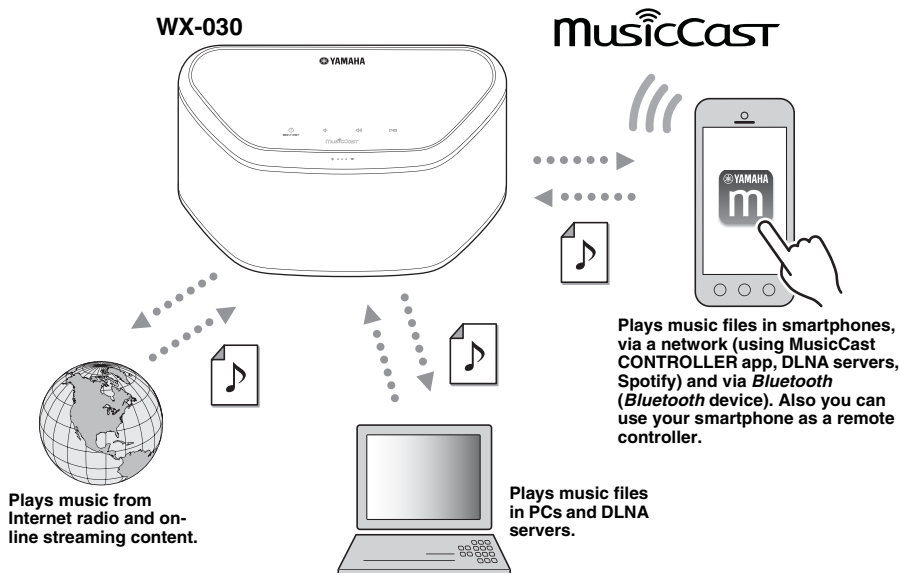Note Indicates precautions for use of the unit and its feature limitations.

☀ Indicates supplementary explanations for better use.

☞ Indicates the corresponding reference page(s).

FEATURES

WX-030

MusicCast

Plays music files in smartphones, via a network (using MusicCast CONTROLLER app, DLNA servers, Spotify) and via *Bluetooth* (*Bluetooth* device). Also you can use your smartphone as a remote controller.

Plays music from Internet radio and on-line streaming content.

Plays music files in PCs and DLNA servers.

Smooth operation and wireless music playback using iPhone/Android™ devices

- By installing the free dedicated app "MusicCast CONTROLLER" on your iPhone/iPad/iPod touch or Android device, you will be able to set up a network, make various settings, and select songs to play back. You can also use these devices as a remote controller (☞ P.7).
- Equipped with Wi-Fi, which allows the unit to connect to the wireless router (access point) without any cables.

Plays various supported content with high quality sound

- Plays the music from DLNA servers (☞ P.12), Internet radio and *Bluetooth*.
- Rich sound provided by the two-way speaker, large passive radiator, and DSP (Digital Signal Processor) developed by Yamaha.
- Enhanced treble and thick mid/bass sound, even when playing a compressed audio source, such as MP3. (Music Enhancer)

Supports streaming services

- You can enjoy music from a variety streaming services. (Supported music streaming services vary by the country or region of use.)

CONTENTS

SUPPLIED ACCESSORIES

Power cable　　　　**Cushion**　　　　　　**Cable cover**
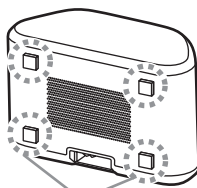
Bottom

Cussion

Cable cover

☀️
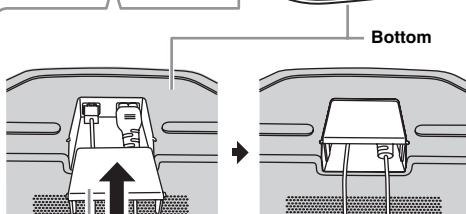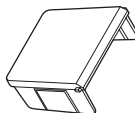To prevent the vibration from the sound from reaching the wall, attach the cushions on the four corners of the rear panel.
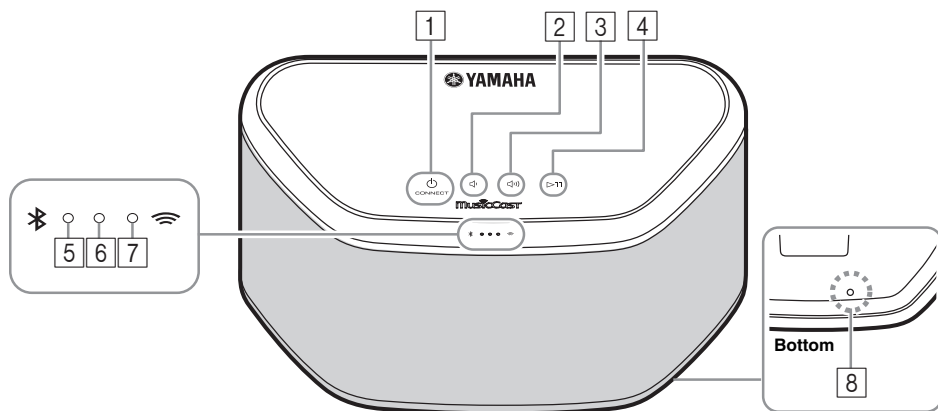
☀️
You can hide the cables by installing the cable cover. Install as above.

PART NAME

■ **Top panel**

1 ⏻ **(power)/CONNECT (☞ P.5)**

2 ◁

Turns down the volume.

3 ◁))

Turns up the volume.

4 ▷❚❚

Plays/pauses.

5 *Bluetooth* **indicator**

Lights during *Bluetooth* connection.

6 **Power indicator**

Lights while the unit is turned on.

7 **Network indicator**

Lights while the unit is connected to the wired or wireless (Wi-Fi) network.

8 **Reset button (☞ P.13)**

Press to restart the unit.

☀
1, 2, 3, 4 are touch sensors. They react when you touch them with your finger.

Note

If the volume reaches the maximum/minimum value, these three indicators (5, 6, 7) flash twice at the same time.

■ **Rear panel**
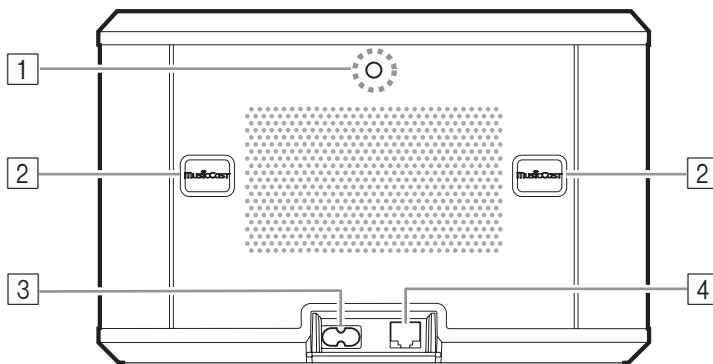
1 **Wall mount hanger hole**

Use to mount the unit to a wall mount hanger (☞ P.5).

2 **Key hole slot/key hole slot cover (☞ P.4)**

If you lift up the key hole slot covers, you will find the key hole slots for mounting the unit to a wall.

3 **Power connector (☞ P.5)**

4 **Network terminal (☞ P.6)**

Use a LAN cable (commercially available) to connect to the network.

☀
If you use the unit with Wi-Fi, a LAN cable is not necessary to connect to the unit.

3 *En*

INSTALLATION

Plug the power cable into the wall outlet after connecting all the other cables.

Note
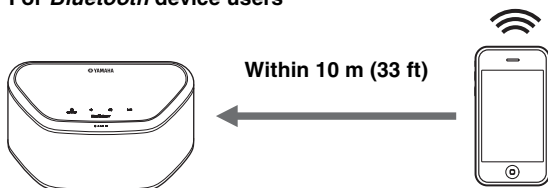Placing the unit too close to a CRT TV may impair the picture color or cause a buzzing noise. In this case, move the unit at least 20 cm (8") away from the TV. This is not an issue with LCD and plasma TVs.

For *Bluetooth* device users

Within 10 m (33 ft)

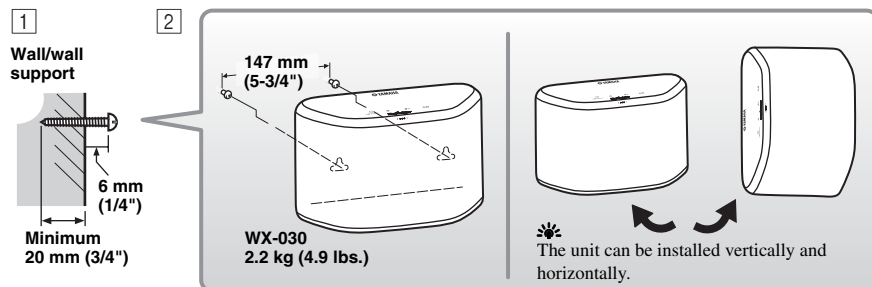Install in a stable place, being careful of the following points:
• Do not place on top of steel or other metal plates.
• Do not cover with a cloth, etc.
For *Bluetooth* device users
• Install in the same room as the device with which signals are to be exchanged (*Bluetooth* profile A2DP compatible smartphone, digital audio player, etc.) within a direct line-of-sight distance of 10 m (33 ft).
• Make sure there are no obstacles between this unit and the *Bluetooth* device.

Mounting the unit on a wall

You can mount the unit on the wall as follows.

1

Wall/wall support

6 mm (1/4")

Minimum 20 mm (3/4")

2

147 mm (5-3/4")

WX-030 2.2 kg (4.9 lbs.)

The unit can be installed vertically and horizontally.

1 Install screws (commercially available) into a solid wall or wall support as shown in the illustration. Use 3.5 to 4 mm (1/8") diameter self-tapping screws.
2 Hang the unit by its keyhole slots onto the protruding screws.

Note
• Make sure the shaft of the screw is seated in the narrow part of the keyhole slot. Otherwise, the unit may fall.
• Do not mount the unit on thin plywood or on a wall with a soft surface material. Otherwise, the screws may pull out of the surface and the unit may fall, possibly damaging the unit or causing personal injury.
• Do not affix the unit to a wall using nails, adhesives, or unstable hardware. Long-term use and vibration may cause the unit to fall.
• To avoid accidents resulting from tripping over loose cables (such as a power cable), affix the cables to the wall.
• When using the brackets to mount the unit on a wall / ceiling, please use safety wire (not included) between the unit and the bracket to prevent the unit from falling.
• If you are not sure of a safe way to install the unit, consult a professional installer or a building contractor.
• To prevent the vibration from the sound from reaching the wall, attach the cushions on the four corners of the rear panel (☞ P.2).
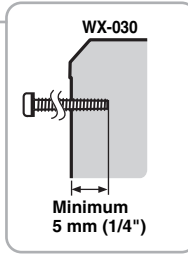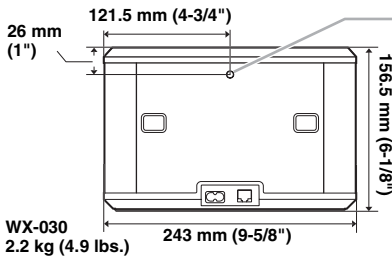
■ To mount the unit to a wall mount hanger

The unit can be mounted to the wall using a commerciallyavailable wall mount hanger. Use the wall mount hanger hole on the rear panel to mount.

☀

Use a wall mount hanger that is compatible for a unified coarse screw, such as those used for the tripod stand of a camera.

Rear panel

26 mm (1")

121.5 mm (4-3/4")

156.5 mm (6-1/8")

WX-030

243 mm (9-5/8")

WX-030
2.2 kg (4.9 lbs.)

WX-030

Minimum
5 mm (1/4")

Specification of mounting screw:
UNC 1/4-20

Diameter	6.35 mm (1/4")
Screw thread	20 (per 1")

Specifications of the screw hole

| Diameter	6.35 mm (1/4")
Depth	9 mm (3/8")

Note

• If using a wall mount hanger, use the one compatible for this unit.
• Use the wall mount hanger whose withstand load capacity is over 4.5 kg (10 lbs.).
• Follow the instructions in the owner's manual of the wall mount hanger and mount the unit correctly.
• If you mount the unit incorrectly or use a wall mount hanger that is not compatible for the unit, the unit may fall and cause injury.
• Check the safety after mounting the unit. Yamaha is not responsible for any accidents which may be caused due to an incorrect installation position or incorrect installation methods, or for any malfunction of the wall mount hanger. If you are worried about the safety, ask a professional to install.

TURNING ON THE POWER

Rear pannel

Power cable

Top pannel

Tap ⏻ (power)/CONNECT.
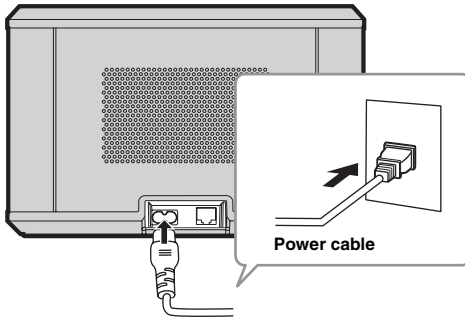
Power indicator

1 Plug the power cable into the wall outlet and tap ⏻ **(power)/CONNECT**.
The unit turns on and the power indicator lights. If you tap again, the unit turns off (standby mode) and the power indicator turns off.

☀ **Auto Standby**
Auto Standby is a mode in which the unit automatically enters standby mode if about 20 minutes have elapsed with no playback and no operation. You can enable/disable this mode with the MusicCast CONTROLLER app (☞ P.7).

Note

• After the power plug is inserted to the wall outlet, it takes about 10 seconds for the unit to start up internally. The unit cannot play back during this time.
• Do not touch the touch sensors (⏻ **(power)/ CONNECT**/◁/◁))/▷◯◯) for about 10 seconds after the unit starts up, since the unit is adjusting sensor sensitivity. If your finger touches the touch sensors during this time, they may not function properly after the unit starts up.
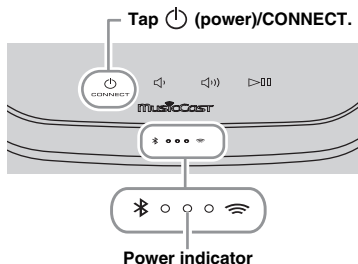
CONNECTING TO THE NETWORK

Connect the unit to the network as shown below.

☼
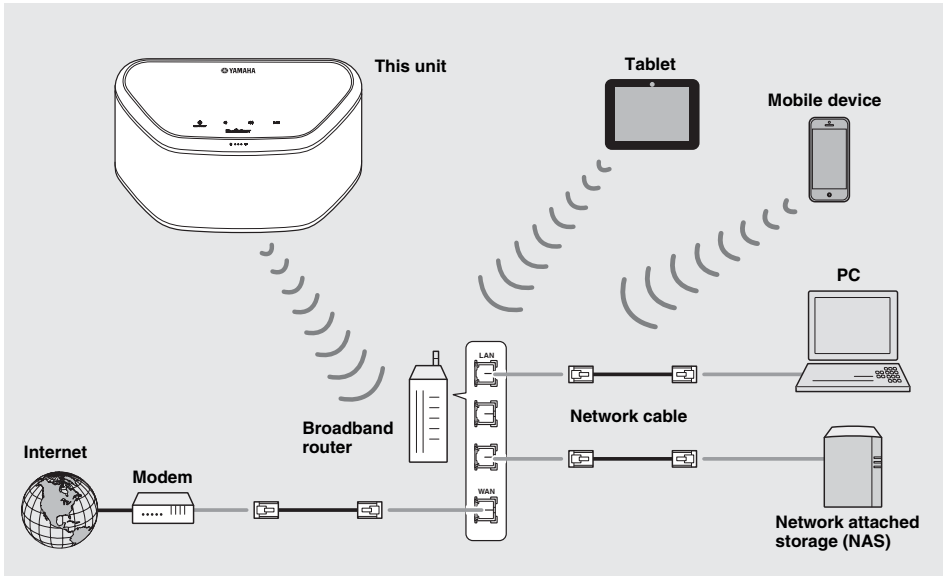
- For details on Internet connection, refer to the owner's manuals of your connecting devices.
- Some security software installed on your PC or the firewall settings of connecting devices (such as a router) may block the access of the unit to the connecting devices or the Internet. In this case, change the setting of the security software or connecting devices.
- If you connect the unit to the network with a LAN cable, connect with a commercially available STP (shielded twisted pair) network cable (straight, CAT-5 or higher).
- Using the MusicCast CONTROLLER app, make sure that the unit and other connecting devices are connected to the same router.

HOME AUDIO NETWORK WITH MusicCast

MusicCast is a brand new wireless musical solution from Yamaha, allowing you to share music among all of your rooms with a variety of devices. You can enjoy music from your smartphone, PC, NAS drive and music streaming service anywhere in your house with one easy-to-use app. For more details and a lineup of MusicCast compatible products, visit our website.
**http://www.yamaha.com/musiccast/**

■ MusicCast CONTROLLER

• Main functions
  - Basic operations such as turning the unit on/off and, volume adjustment.
  - Select/play/pause the music.
  - Play music in the devices.
  - Equalizer setting
  - Sleep timer

• System requirements
  - For details, search App Store or Google Play™ for "MusicCast CONTROLLER."
    • The application supports iPhone/iPad/iPod touch and Android mobile devices.
  - WLAN environment.

Connecting to the network using MusicCast CONTROLLER

■ Mobile device (smartphone, etc.)

To use the unit, you need the dedicated app "MusicCast CONTROLLER" for the operation. Search for the free app "MusicCast CONTROLLER" on App Store (for iOS devices) or Google Play (for Android devices) and install it to your device. For details, refer to the instructions for this app in each store.
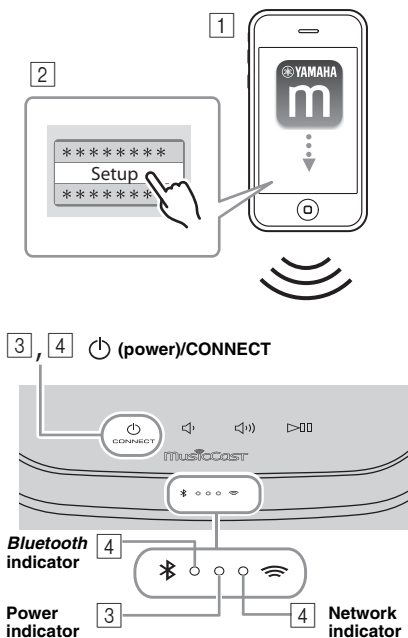
1. **Install the MusicCast CONTROLLER app to the mobile device.**

2. **Start the app.**
   After the app starts, select "Setup."
   ☀️
   If you have already connected a MusicCast compatible device to the network, tap ⚙️ (Settings) and then "Add New Device."

3. **Turn on the unit.**
   The power indicator lights.

4. **Touch and hold the ⏻ (power)/CONNECT on the unit for 3 seconds.**
   The Network and the *Bluetooth* indicators flash quickly.

5. **Set the network.**
   Connect your audio device to the network.
   Follow the guidance displayed in the app to set.

6. **Follow the instructions in the MusicCast CONTROLLER app to play music.**

If your router supports multiple SSID's (network names), connect the mobile device to the first access point ("SSID 1", etc.)

■ Setting of the devices and playback

Create the following network (MusicCast Network) using the MusicCast CONTROLLER app.
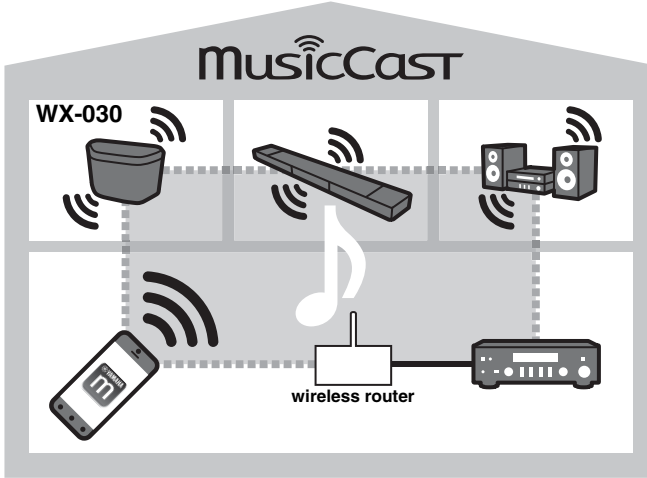
⚞-
If you want to install a MusicCast compatible device to a location that is out of range of the wireless router, connect another MusicCast support device to the router with a network cable to extend the range (Extend mode).

Standard Mode
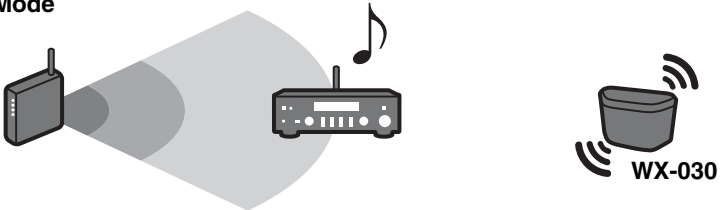
Extend Mode
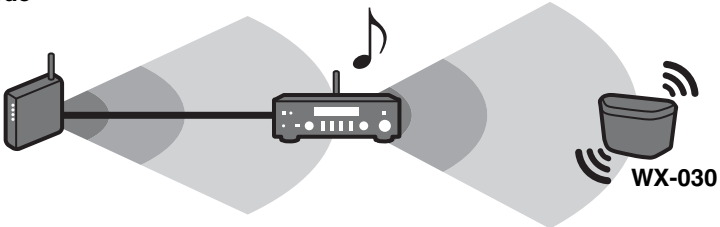
Depending on where it is placed, the MusicCast compatible device may not be able to play back a high-resolution audio source. In this case, connect the device directly to the router with a network cable.

LISTENING TO THE INTERNET RADIO

You can listen to world-wide radio stations via Internet. After connecting the unit to the network, use the MusicCast CONTROLLER app (☞ P.7) to play the radio.

☼
You can use the advanced feature of vTuner (such as adding a new station to the list) by accessing the following website with the web browser on your PC.
http://yradio.vtuner.com/
- Before registering the Internet radio station, play any Internet radio station with this unit.
- To create a necessary account for registration, you need the vTuner ID of this unit and your e-mail address. You can check the vTuner ID on "Information" in the MusicCast CONTROLLER app. (☞ P.7)
  Select ⚙ (Settings), then "〈 Room name*/Information," and check the vTuner ID.
  *You can register any name for the Room name.

LISTENING TO THE SONGS IN THE COMPUTER AND NAS

This unit allows you to play back music files such as MP3, WMA, or FLAC (lossless audio data compression format) files stored in the computer (server) connected to the network or NAS.

Setting the media sharing of music files

To play back music files in your computer with this unit, you need to make the media sharing setting between the unit and computer (Windows Media Player 11 or later). The following instructions use Windows Media Player 12 in Windows 7 as an example.

■ For Windows Media Player 12
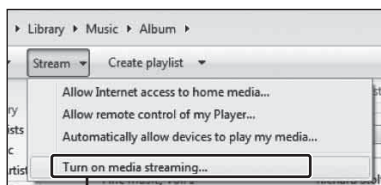
2 **Turn on media streaming...**
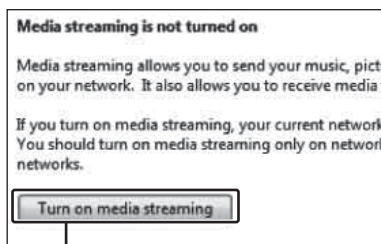
3 **Turn on media streaming**

Only setting the media sharing is explained in this section. After setting, operate Windows Media Player with your PC as usual to play back.

1 **Start Windows Media Player 12 on your PC.**
2 **Select "Stream", then "Turn on media streaming."**
   The control panel window of your PC is shown.
3 **Click "Turn on media streaming."**
4 **Select "Allowed" from the drop-down list next to "WX-030."**
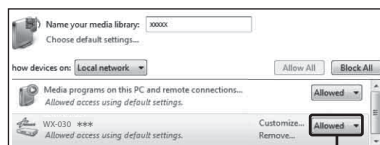
4 **Allowed**

☼
The names on the list are device names (Room names). You can set Room names on "〈 Room name/Information" in the MusicCast CONTROLLER app (☞ P.7). If the Room name is not set, the Room name is "WX-030 ***." (*** is an arbitrary number.)

5 **Click "OK" to exit.**

☼
For details on media sharing settings, refer to Windows Media Player help.

◆ **For Windows Media Player 11**
[1] **Start the Windows Media Player 11 on your PC.**
[2] **Select "Library" then "Media Sharing."**
[3] **Check the "Share my media to" box, select the "WX-030" icon, and click "Allow."**
 ☼
 The names on the list are device names (Room names). You can set Room names on "⟨ Room name/Information" in the MusicCast CONTROLLER app (☞ P.7). If the Room name is not set, the Room name is "WX-030 ***." (*** is an arbitrary number.)
[4] **Click "OK" to exit.**

◆ **For a PC or a NAS with other DLNA server software installed**
 Refer to the owner's manual of your device or software and configure the media sharing settings.

LISTENING TO MUSIC FROM YOUR *Bluetooth* DEVICE

This unit provides *Bluetooth* functionality. You can enjoy wireless music playback from your *Bluetooth* device (smartphone, digital audio player, etc.). Please also refer to the owner's manual of your *Bluetooth* device.

Pairing this unit with your Bluetooth device

■ Pairing (Registration)

[1] ⏻ **(power)/CONNECT**

[1] **Power indicator**

[4]

Bluetooth **ON**

✱ ✱ ✱ ✱ ✱ ✱ ✱ ✱

✱ ✱ ✱ ✱ ✱ ✱ ✱ ✱

The unit's Room name is displayed where "-------" is indicated above.

[1] **Turn on the unit.**
 The power indicator lights.
[2] **On your connecting device (mobile device), set *Bluetooth* to on.**
[3] **Perform *Bluetooth* pairing on the connecting device.**
 For details, refer to the owner's manual of the connecting device.
[4] **From the *Bluetooth* connection list of the connecting device, choose this unit (the Room name of this unit ☞ P.9).**

☼
• Finish the operation from turning on the unit to completing pairing in 5 minutes.
• If you are asked to enter a password, enter the numerals "0000."

> **Note**
>
> Check that the pairing process on the connecting device has been completed. If the pairing process fails, start over from step [2]. For details, see the connecting device's owner's manual.

Connecting an already-paired device via Bluetooth

■ Connecting from the connecting device
[1] In the *Bluetooth* settings of the connecting device, turn *Bluetooth* on.
[2] From the *Bluetooth* connection list of the connecting device, choose this unit (the Room name of this unit ☞ P.9).
 The *Bluetooth* connection will be established, and the *Bluetooth* indicator will light.

Disconnecting a Bluetooth connection

If any of the following operations are performed while a *Bluetooth* connection is established, the *Bluetooth* connection will be disconnected.
• Tapping ⏻ **(power)/CONNECT** to enter standby mode.
• Touching and holding ▷❙❙ for 3 seconds.
• Disconnecting the *Bluetooth* connection from the connecting device.

UPDATING THE FIRMWARE

You can update the firmware only when the unit is connected to the Internet (☞ P.6).
Follow the instructions in the MusicCast CONTROLLER app to update.
The power indicator flashes quickly while the firmware is being updated.
Updating completed: The unit restarts.
Updating failed: All the indicators flash. Unplug the power cable from the wall outlet and plug it in after 30 seconds or more, then update the firmware again.

Note
• Do not operate the unit or disconnect the power cable or network cables while updating.
• Do not turn off the unit (enter standby mode) while updating the firmware.

☀
• The update of the firmware will be informed in the app.
• When Internet speed is not fast enough or the unit is connected to the wireless network via a wireless network adapter, network update may not be possible depending on the condition of the wireless connection.

OPTION SETTINGS

To set the following option settings, set this unit to the standby mode, and touch and hold ◁› and ◁›) for 5 seconds. [*1]

Items	Operations
Initialize the network setting.	Touch and hold ⏻ **(power)/CONNECT** for 3 seconds (☞ P.3).
Enable/disable Network Standby mode. [*2]	Touch and hold ◁›) for 3 seconds. Network Standby will be disabled. To enable it, perform the same operation. Enable: The power indicator flashes twice and remains lit. Disable: The power indicator flashes twice and turns off.
Enable/disable Wi-Fi.	Touch and hold ▷❙❙ for 3 seconds. Wi-Fi will be disabled. To enable it, perform the same operation. Enable: The network indicator flashes twice and remains lit. Disable: The network indicator flashes twice and turns off.
Enable/Disable *Bluetooth*.	Touch and hold ◁› for 3 seconds. *Bluetooth* will be disabled. To enable it, perform the same operation. Enable: The *Bluetooth* indicator flashes twice and remains lit. Disable: The *Bluetooth* indicator flashes twice and turns off.

*1: If you do not tap any button during these 5 seconds, the unit will cancel the option setting mode.
*2: Network Standby is a standby mode which enables the unit to connect to the network by operating another device.

☀ **Eco Standby**
You can only enable/disable Network Standby mode in the option settings as long as the unit is in Eco Standby mode.
If you disable Network Standby, the unit enters Eco Standby mode, which keeps the standby power consumption to a minimum. However, you cannot start up the unit with the MusicCast CONTROLLER app during Eco Standby mode.

ADDITIONAL INFORMATION

Basic information on this unit

■ DLNA

What types of servers can I use to browse or play back music files with DLNA?

Use a DLNA-compatible server, such as one of the following devices.

PC compatible with Windows Media Player 12 or Windows Media Player 11

To browse folders (directories) on your PC from this unit, you need to change the media sharing setting of Windows Media Player 12 or Windows Media Player 11 to make those folders accessible from this unit. For details on Windows Media Player, please ask Microsoft Corporation.

■ Internet radio

Can I add other Internet radio stations to the list?

On the "vTuner Internet Radio" website, you can add Internet radio stations which do not exist on the list manually.
To use this feature, access the following URL to get a new account.
http://yradio.vtuner.com/
To create a necessary account for registration, you need the vTuner ID of this unit and your e-mail address (☞ P.9).

Can I delete Internet radio stations that I do not listen to from the list?

You cannot delete the vTuner list itself.
You can delete radio stations that you added by accessing the "vTuner Internet Radio" website.

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Bluetooth®

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Bluetooth protocol stack (Blue SDK)

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TROUBLESHOOTING

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

General

Problem	Cause	Solution
The unit is not turned on, or the touch sensors do not react.	Your finger was touching the touch sensor on the top while the unit was starting up (the unit is adjusting the touch sensor sensitivity while the unit is starting up for about 10 seconds after you plugged the power cable into the wall outlet).	While the unit is starting up, wait and avoid touching the sensors until the unit has completely started up. Tap ⏻ **(power)/CONNECT** after the unit has completely started up (☞ P.3).
The unit is turned off as soon as the unitis turned on. **The unit does not operate properly.**	The power cable is not properly connected.	Connect the power cable firmly.
This unit cannot be operated.	The internal microcomputer has frozen, due to an external electric shock (such as lightning or excessive static electricity) or to a drop in the power supply voltage.	Press the reset button on the bottom of the unit (☞ P.3) using a fine-tipped stick and restart the unit. (If the problem persists, unplug the power cable from the wall outlet and plug it again after 30 seconds or more.)
No sound.	No appropriate source has been selected.	Select the music source that you want to play using the MusicCast CONTROLLER app (☞ P.7).
	The volume is minimum or mute.	Turn up the volume.
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.

MusicCast

Problem	Cause	Solution
Cannot make the connection settings on the MusicCast CONTROLLER app.	The mobile device is not connected to the wireless router at your home.	Connect the mobile device to the wireless router and start the MusicCast CONTROLLER app.
		Disable the cellular data transmission.
	The unit is turned off.	Turn on the unit.

Network

Problem	Cause	Solution
This unit is not detected with the MusicCast CONTROLLER app on your mobile device.	The unit and mobile devices are not in the same network.	Check the network connections and your router settings, and then connect the unit and mobile device to the same network.
	Your mobile device is connected to the secondary SSID of a router supporting multi SSID.	When your mobile device is connected to the secondary SSID, access to the device connecting to the primary SSID or LAN is restricted (only Internet access is available). Connect your mobile device to the primary SSID.
	Multiple routers are connected between your connecting devices (double router).	Disconnect Internet temporarily, check the local network, and connect the connecting device you wish to use to the same router.

13 *En*

Problem	Cause	Solution
The network feature does not function.	The network parameters (IP address) have not been obtained properly.	Enable the DHCP server function on the router.
	The unit is starting up. (The unit becomes operative about 10 seconds after plugging the power cable into the wall outlet.)	Use the network function after the unit has completely started up.
Playback stops (songs cannot be played back continuously).	There are unsupported files in the server.	Remove the files (including image files or hidden files) which the unit does not support, from the folder being played back.
A PC is not detected with the MusicCast CONTROLLER app on your mobile device.	The media sharing setting is not correct.	Configure the sharing setting and select the unit as a device to which music contents are shared (☞ P.9).
	Some security software installed on your PC is blocking the access of the unit to your PC.	Check the settings of security software installed on your PC.
	The unit and PC are not in the same network.	Check the network connections and your router settings, and then connect the unit and the PC to the same network.
	Your PC is connected to the secondary SSID of a router supporting multi SSID.	When your PC is connected to the secondary SSID, access to the device connecting to the primary SSID or LAN is restricted (only Internet access is available). Connect your PC to the primary SSID.
	Multiple routers are connected between your connecting devices (double router).	Disconnect Internet temporarily, check the local network, and connect the connecting devices you wish to use to the same router.
The Internet radio cannot be played.	The selected Internet radio station is currently not available.	There may be a network problem at the radio station, or the service may have been stopped. Try the station later or select another station.
	The selected Internet radio station is currently broadcasting silence.	Some Internet radio stations broadcast silence at certain of times of the day. Try the station later or select another station.
	Access to the network is restricted by the firewall settings of your connecting devices (such as the router).	Check the firewall settings of your connecting devices. The Internet radio can be played only when it passes through the port designated by each radio station. The port number varies depending on the radio station.
Update of the firmware via network failed.	The network connection is unstable.	Try updating again after a while.
The unit cannot connect to the Internet via a wireless router (access point).	The wireless router (access point) is turned off.	Turn on the wireless router.
	The unit and the wireless router (access point) are too far apart.	Place the unit and the wireless router (access point) closer to each other (☞ P.6).
	There is an obstacle between the unit and the wireless router (access point).	Move the unit and the wireless router (access point) in a location where there are no obstacles between them (☞ P.6).
A wireless network is not detected with MusicCast CONTROLLER app on your mobile device.	Microwave ovens or other wireless devices in your neighborhood might disturb the wireless communication.	Turn off these devices.
	Access to the network is restricted by the firewall settings of the wireless router (access point).	Check the firewall setting of the wireless router (access point).

Bluetooth

Problem	Cause	Solution
Cannot make this unit paired with the connecting device.	The connecting device does not support A2DP.	Perform pairing operations with a device which supports A2DP.
	The passkey of the devices, such as a *Bluetooth* adaptor, that you want to pair with this unit is other than "0000."	Use a connecting device with a passkey "0000."
	This unit and the connecting device are too far apart.	Move the connecting device closer to this unit.
	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.
	The unit is in standby mode.	Turn the unit on and perform pairing (☞ P.10).
	Another *Bluetooth* device is connected.	Terminate current *Bluetooth* connection, and perform pairing with the new device.
Cannot establish a *Bluetooth* connection.	This unit is not registered on the connecting device's *Bluetooth* connection list.	Perform pairing operations again (☞ P.10).
	The unit is in Eco Standby mode.	Turn the unit on, then establish a *Bluetooth* connection (☞ P.10).
	Another *Bluetooth* device is connected.	Terminate current *Bluetooth* connection, then establish a *Bluetooth* connection with that device again.
	The *Bluetooth* function of the device is turned off.	Turn on the *Bluetooth* function of the device.
	The pairing information has been deleted.	Perform pairing again (☞ P.10). This unit can be paired with up to 20 devices. (Depending on the conditions of use, the maximum number of devices the unit can connect decreases.). If pairing with the 21st device is performed, the pairing information with the oldest connection date will be deleted.
		Delete any pairing history of WX-030 on the iPhone/iPad/iPod touch, then pair with the WX-030 again (☞ P.10).
No sound is produced or the sound is interrupted during playback.	The *Bluetooth* connection of this unit with the connecting device is disconnected.	Perform *Bluetooth* connection operations again (☞ P.10).
	This unit and the connecting device are too far apart.	Move the connecting device closer to this unit.
	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.
	The connecting device's *Bluetooth* function is off.	Turn on the *Bluetooth* function of the connecting device.
	The connecting device is not set to send *Bluetooth* audio signals to this unit.	Check that the *Bluetooth* function of the connecting device is set properly.
	The pairing setting of the connecting device is not set to this unit.	Set the pairing setting of the connecting device to this unit.
	The connecting device's volume is set to the minimum.	Increase the volume level.
	The connecting device is connected to more than two *Bluetooth* devices and this unit (WX-030) is not selected as a playback device.	Select this unit as a playback device for the connecting device.

SUPPORTED DEVICES/MEDIA AND FILE FORMATS

■ File format

This unit supports the following formats.

File	Sampling frequency (kHz)	Quantization bitrate (bit)	Bitrate	The number of channels	Gapless playback
WAV (PCM format only)	32/44.1/48/88.2/96/176.4/192	16/24	—	2	✔
MP3	32/44.1/48	—	~320kbps	2	—
WMA	32/44.1/48	—	~320kbps	2	—
MPEG-4 AAC	32/44.1/48	—	~320kbps	2	—
FLAC	32/44.1/48/88.2/96/176.4/192	16/24	—	2	✔
ALAC	32/44.1/48/88.2/96	16/24	—	2	✔
AIFF	32/44.1/48/88.2/96/176.4/192	16/24	—	2	✔

- To play back FLAC files, you need to install server software that supports sharing of FLAC files via DLNA on your PC or use a NAS that supports FLAC files.
- Digital Rights Management (DRM) contents cannot be played back.

■ PC

A PC with the following software installed.
- Windows Media Player 11/Windows Media Player 12

■ NAS

NAS that is compatible with DLNA version 1.5.

Bluetooth

Bluetooth is a technology for wireless communication employing the 2.4 GHz frequency band, which can be used without a license.

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 communications is possible differs according to the distance between the communicating devices, the presence of obstacles, radio wave conditions and type of equipment.
- Yamaha does not guarantee all wireless connections between the sound bar and devices compatible with *Bluetooth* function.

SPECIFICATIONS

■ PLAYER

Network
- Ethernet interface 100Base-TX/10Base-T
- Internet radio .... vTuner service supported
- PC client function ....DLNA Ver. 1.5 (DMR function) supported
- Supported file format
  .... WAV, FLAC, AIFF (192KHz/24bit)
  .... ALAC (96KHz/24bit)
  .... MP3, WMA, MPEG-4 AAC (48KHz/-)

Wi-Fi
- Wireless LAN Standards .... IEEE 802.11 b/g/n
- Radio frequency 2.4GHz
- Available security method
  .... WEP, WPA2-PSK (AES), Mixed Mode

■ *Bluetooth*
- *Bluetooth* version .... Ver.2.1+EDR
- Supported protocols .... A2DP, AVRCP
- Compatible CODEC
  .... Sink:SBC, AAC
  .... Source:SBC
- Operation mode................................... Sink or Source
- Wireless output .... *Bluetooth* Class 2
- Maximum communication distance
  .... 10 m (33 ft) (without obstructions)

■ AUDIO
- Frequency response .... 60Hz to 20kHz

■ GENERAL
- Power Supply .... AC 100 to 240 V 50/60 Hz
- Power consumption .... 10 W
- Standby power consumption
  Network Standby off/*Bluetooth* standby off: 0.5W
  Network Standby on/*Bluetooth* standby off
  .... a) Wired: 1.9 W
  .... b) Wireless (Wi-Fi): 2.0 W
  Network Standby on/*Bluetooth* standby on
  ....a) Wired: 2.0 W
  .... b) Wireless (Wi-Fi): 2.1 W
- Weight .... 2.2 kg (4.9 lbs.)
- Dimensions (W × H × D)............ 243 mm × 157 mm × 113 mm
  (9-5/8 inch × 6-1/8 inch × 4-1/2 inch)

Specifications are subject to change without notice.

Important Notice: Guarantee Information for customers in EEA* and Switzerland   English

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http://europe.yamaha.com/warranty/

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