



Network Receiver

R-N402/R-N402D

OWNER'S MANUAL



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 sound system in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.
Top: 30 cm (11-3/4 in)
Rear: 20 cm (7-7/8 in)
Sides: 20 cm (7-7/8 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, 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 objects 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 cord disconnected from a wall outlet or the 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 in the owner’s manual on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press \odot downward to turn off this unit and then disconnect the AC power plug from the AC 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 system 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 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like. When you dispose of batteries, follow your regional regulations.
- 22 Excessive sound pressure from earphones and headphones can cause hearing loss.

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 \odot . This state is called the standby mode. 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.

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



Caution

Do not touch the surface marked with this label.

The surface may become hot during operation.

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

■ 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.

Contents

INTRODUCTION

What you can do with this unit	2
Sources that can be played back on this unit	2
Mastering useful apps (MusicCast CONTROLLER)....	3
Supplied accessories	3
Controls and functions	4
Front panel.....	4
Front display	6
Rear panel	7
Remote control.....	8

PREPARATION

Connections	10
Connecting the speakers	11
Connecting the FM/AM antennas (R-N402)	12
Connecting the DAB/FM antenna (R-N402D).....	12
Connecting the network cable	13
Preparing a wireless antenna	13
Connecting power cable	13
Turning on the unit	13
Connecting to a network	14
Sharing the iOS device setting.....	15
Using the WPS push button configuration	16
Set the wireless network connection manually.....	17
Connecting a mobile device to the unit directly (Wireless Direct)	18
Verify the network connection status	19

BASIC OPERATION

Playback	20
Playing a source.....	20
Switching information on the front display	20
Using the sleep timer	21
Listening to FM/AM radio (R-N402)	22
FM/AM tuning.....	22
Using preset functions	22
Radio Data System tuning (Only for U.K. and Europe models).....	25
Listening to FM radio (R-N402D)	26
FM tuning	26
Using preset functions	26
Radio Data System tuning (Only for U.K. and Europe models).....	29
Listening to DAB radio (R-N402D)	30
Preparing the DAB tuning.....	30
Selecting a DAB radio station for reception.....	30
Using preset function.....	31
Displaying the DAB information.....	32
Checking reception strength of each DAB channel label	33

Playing back music via Bluetooth	34
Connecting a <i>Bluetooth</i> device (pairing).....	34
Playing back <i>Bluetooth</i> device contents	34
Disconnecting a <i>Bluetooth</i> connection	35
Playing back music stored on media servers (PCs/NAS)	36
Setting the media sharing of music files.....	36
Playback of PC music contents	37
Listening to Internet radio	38
Registering favorite Internet radio stations (bookmarks).....	39
Playing back music with AirPlay	40
Playback of iPod/iTunes music contents	40
Playing back music stored on a USB storage device	41
Connecting a USB storage device	41
Playback of USB storage device contents	41
Registering the current playback song/station (Preset function)	43
Registering to a preset	43
Recalling a preset.....	43

ADVANCED OPERATION

Configuring playback settings for different playback sources (OPTION menu)	44
OPTION menu items	44
Configuring various functions (SETUP menu)	45
SETUP menu items	45
Network	46
Bluetooth	47
Balance	48
Max Volume	48
InitialVolume	48
AutoPowerStby (Auto Power Standby).....	48
Configuring the system settings (ADVANCED SETUP menu)	49
ADVANCED SETUP menu items	49
Selecting the remote control ID (REMOTE ID).....	49
Setting tuner frequency step (TU)	49
Restoring the default settings (INIT).....	49
Updating the firmware (UPDATE)	50
Checking the firmware version (VERSION).....	50
Updating the unit's firmware via the network	51

ADDITIONAL INFORMATION

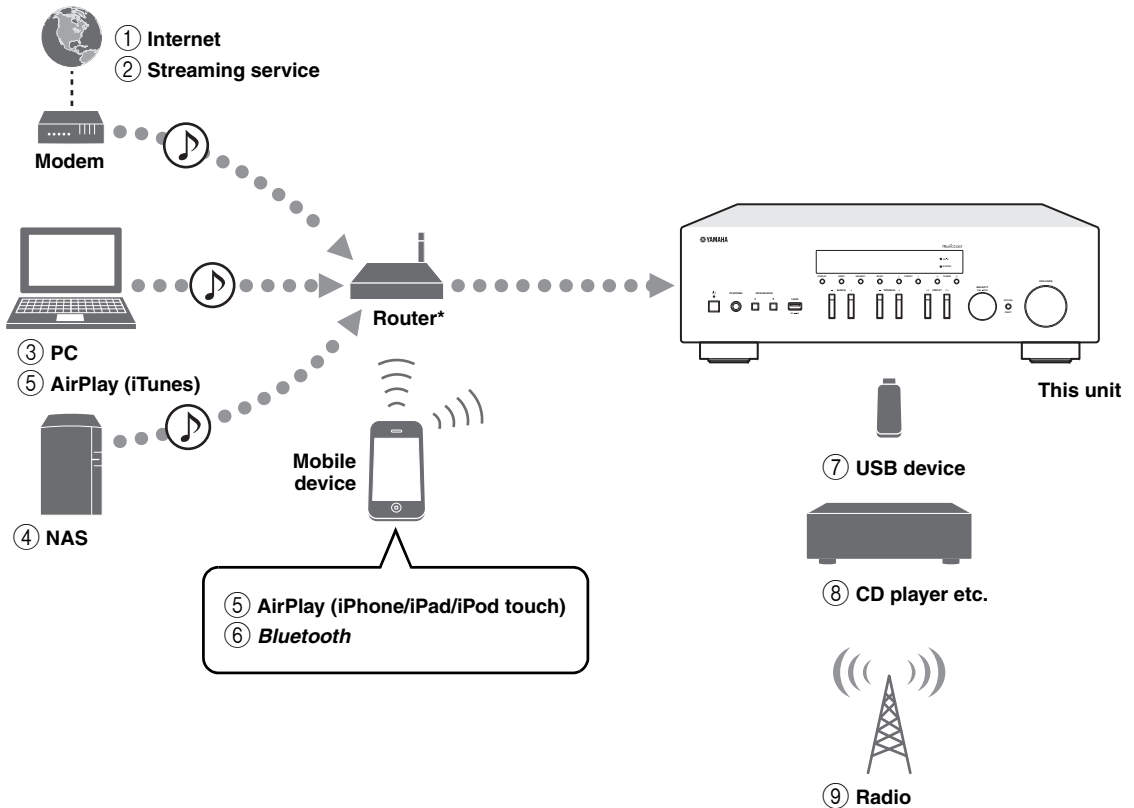
Troubleshooting	52
Error indications on the front display	57
Supported file formats	57
Specifications	58
Trademarks	59

- “Note” indicates precautions for use of the unit and its feature limitations. ⓘ indicates supplementary explanations for better use.
- This manual explains operations using the supplied remote control.
- In this manual, iOS and Android mobile devices are collectively referred to as “mobile devices”. The specific type of mobile device is noted in explanations as needed.

What you can do with this unit

This unit is a network receiver compatible with a network source such as a media server and mobile device. It supports playback from not only analog sources such as a CD player but also *Bluetooth* devices and network streaming services.

Sources that can be played back on this unit



* You need a commercially available wireless router (access point) when you use a mobile device.

- ① Play back the Internet radio (p. 38)
- ② Play back the streaming service (see the supplement for each service.)
- ③ Play back music files stored on your PC (p. 36)
- ④ Play back music files stored on your NAS (p. 36)
- ⑤ Play back music files with AirPlay (p. 40)
- ⑥ Play back audio content from *Bluetooth* devices (p. 34)
- ⑦ Play back music files stored on your USB device (p. 41)
- ⑧ Play back your external component (p. 10)
- ⑨ Listening to radio (p. 22, 26, 30)



For details on connecting the external devices, see “Connections” (p. 10).

Mastering useful apps (MusicCast CONTROLLER)

You can operate and program the unit, or play streaming services via this unit, by installing the free dedicated MusicCast CONTROLLER app on a mobile device. For details, search for “MusicCast CONTROLLER” on the App Store or Google Play.

■ MusicCast CONTROLLER capabilities

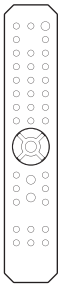
- Basic operations of the unit (turn on/standby, adjust volume and select input)
- Play songs stored on computers (servers)
- Select an Internet radio station
- Play music stored on mobile devices
- Play music on streaming service
- Distribute and receive audio between the unit and other Yamaha MusicCast supported devices

See MusicCast Setup Guide for details.

Supplied accessories

Check that the following accessories are supplied with the product.

Remote control



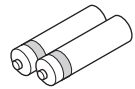
AM antenna (R-N402)



FM antenna (R-N402)

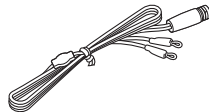


Batteries (x2)
(AA, R6, UM-3)



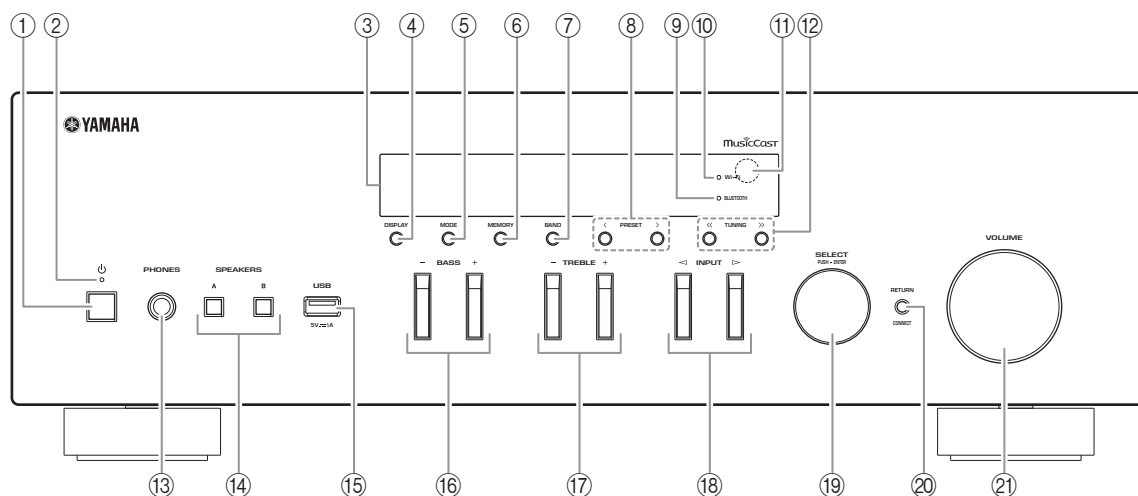
* One of the above is supplied depending on the region of purchase.

DAB/FM antenna (R-N402D)



Controls and functions

Front panel

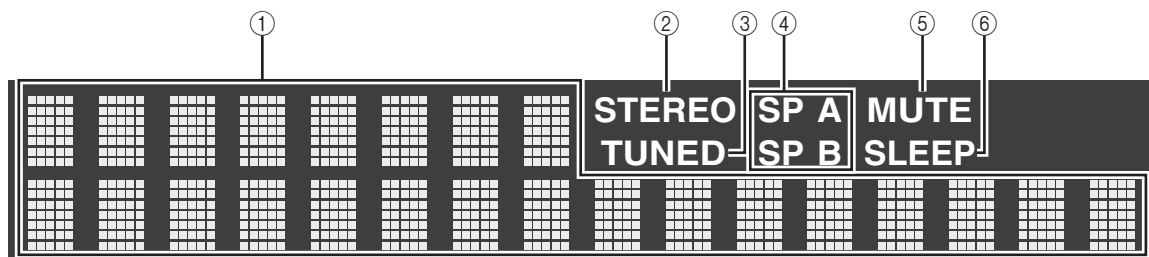


- ① **⏻ (power)**
Turns on/off (standby) the unit.
- ② **STANDBY/ON indicator**
Brightly lit: Power is on
Dimly lit: Standby mode
- ③ **Front display**
Shows information about the operational status of this unit.
- ④ **DISPLAY**
Selects the information displayed on the front display (p. 20).
- ⑤ **MODE**
Sets the FM band reception mode to automatic stereo or monaural (p. 22, 26).
- ⑥ **MEMORY**
Registers the current radio station as a preset when TUNER is selected as the input source (p. 23, 27, 31).
Registers the current playback song or streaming station as a preset when NET, USB are selected as the input source (p. 43).
- ⑦ **BAND**
Sets the radio tuner band when TUNER is selected as the input source. (p. 22, 26, 30)
- ⑧ **PRESET </>**
Recalls a preset radio station (p. 24, 28, 31) or song/streaming station (p. 43).
- ⑨ **BLUETOOTH indicator**
Lights up when the unit is connecting to a *Bluetooth* device.
- ⑩ **Wi-Fi indicator**
Lights up when the unit connects to a wireless network.
It also lights up if you register the unit with the MusicCast CONTROLLER app, even if the unit is connected to a wired network.
- ⑪ **Remote control sensor**
Receives infrared signals from the remote control.
- ⑫ **TUNING <</>>**
Selects the tuning frequency (p. 22, 26) or a DAB radio station (p. 30) when TUNER is selected as the input source.

- ⑬ **PHONES jack**
Outputs audio to your headphones for private listening.
 - ⑭ **SPEAKERS A/B**
Turns on or off the speaker set connected to the SPEAKERS A and/or SPEAKERS B terminals on the rear panel each time the corresponding button is pressed.
 - ⑮ **USB jack**
For connecting a USB storage device (p. 41).
 - ⑯ **BASS +/-**
Increases or decreases the low frequency response.
Control range: -10 to +10 (20 Hz)
 - ⑰ **TREBLE +/-**
Increases or decreases the high frequency response.
Control range: -10 to +10 (20 kHz)
 - ⑱ **INPUT** ◀ / ▶
Selects the input source you want to listen to.
 - ⑲ **SELECT/ENTER (jog dial)**
Turn the dial to select a numeric value or setting, and press the dial to confirm.
 - ⑳ **RETURN**
Returns to the previous indication of the front display.
- CONNECT**
- Use to control the unit using the dedicated MusicCast CONTROLLER app for mobile devices.
See MusicCast Setup Guide for details.
- ㉑ **VOLUME control**
Increases or decreases the sound output level.

Front display

[AM radio is available only for R-N402.]



You can change the brightness level of the front display by pressing DIMMER (p. 8).

① Information display

Displays the current status (such as input name).

You can switch the information that is displayed when you press DISPLAY (p. 20).

② STEREO

Lights up when the unit is receiving a stereo FM radio signal.

③ TUNED

Lights up when the unit is receiving an FM/AM radio station signal.

④ Speaker indicators

“SP A” lights up when the SPEAKERS A output is enabled and “SP B” lights up when the SPEAKERS B output is enabled.

⑤ MUTE

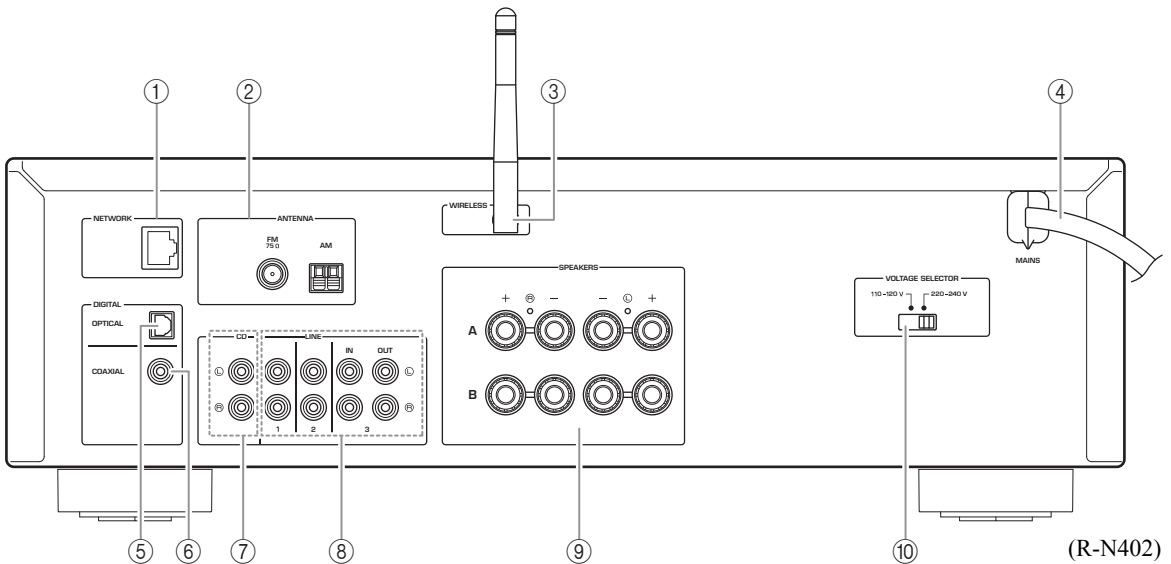
Blinks when audio is muted.

⑥ SLEEP

Lights up when the sleep timer is on (p. 21).

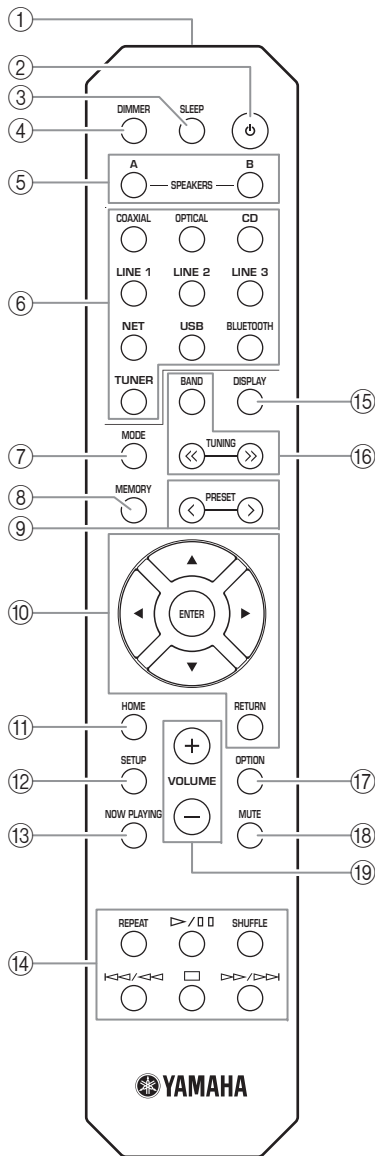
Rear panel

[AM radio is available only for R-N402.]




- ① **NETWORK jack**
For connecting to a network with a network cable (p. 13).
- ② **ANTENNA terminals**
For connecting to the radio antennas (p. 12).
- ③ **Wireless antenna**
For connecting to a network device wirelessly (p. 13).
- ④ **Power cable**
For connecting to an AC wall outlet (p. 13).
- ⑤ **OPTICAL jack**
For connecting to audio components equipped with optical digital output (p. 10).
- ⑥ **COAXIAL jack**
For connecting to audio components equipped with a coaxial digital output (p. 10).
- ⑦ **CD jacks**
For connecting to a CD player (p. 10).
- ⑧ **LINE 1-3 jacks**
For connecting to analog audio components (p. 10).
- ⑨ **SPEAKERS terminals**
Used to connect speakers (p. 11).
- ⑩ **VOLTAGE SELECTOR**
(Only for General and Brazil models)

Remote control



- ① **Infrared signal transmitter**
Sends infrared signals.
- ② **⏻ (power)**
Turns on/off (standby) the unit.
- ③ **SLEEP**
Sets the sleep timer (p. 21).
- ④ **DIMMER**
Changes the brightness level of the front display.
Choose brightness from 5 levels by pressing this key repeatedly.

- ⑤ **SPEAKERS A/B**
Turns on and off the set of speakers connected to the SPEAKERS A and/or SPEAKERS B terminals on the rear panel of this unit when the corresponding key is pressed.
- ⑥ **Input selection keys**
Select the input source you want to listen to.
 NET key is for network source. Press repeatedly to select a desired network source.
- ⑦ **MODE**
Sets the FM band reception mode to automatic stereo or monaural (p. 22, 26).
- ⑧ **MEMORY**
Registers the current radio station as a preset when TUNER is selected as the input source (p. 23, 27, 31).
Registers the current playback song or streaming station as a preset when NET, USB are selected as the input source (p. 43).
- ⑨ **PRESET </>**
Recalls a preset radio station (p. 24, 28, 31) or song/streaming station (p. 43).
- ⑩ **Menu operation keys**
Cursor keys Select a menu or a parameter.
ENTER Confirms a selected item.
RETURN Returns to the previous state.
- ⑪ **HOME**
Moves up top level when selecting music files, folders, etc.
- ⑫ **SETUP**
Displays the “SETUP” menu (p. 45).
- ⑬ **NOW PLAYING**
Displays music information when selecting music files, folders, etc.
- ⑭ **Playback keys**
Let you play back and perform other operations for network sources, *Bluetooth* devices and USB devices.

Note

Yamaha does not guarantee the operation of all *Bluetooth* and USB devices.

⑮ DISPLAY

Selects the information displayed on the front display (p. 20).

⑯ Radio keys

Operate the radio.

BAND

Sets the radio tuner band when TUNER is selected as the input source (p. 22, 26, 30).

TUNING <</>>

Selects the tuning frequency (p. 22, 26) or a DAB radio station (p. 30) when TUNER is selected as the input source.

⑰ OPTION

Displays the “OPTION” menu (p. 44).

⑱ MUTE

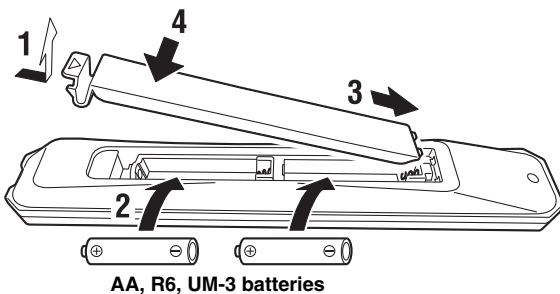
Mutes the audio output.

⑲ VOLUME +/-

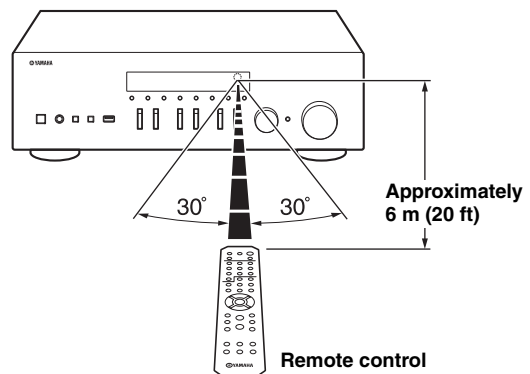
Increases or decreases the sound output level.

■ Installing batteries

Change all batteries if you notice the operation range of the remote control narrows. Before inserting new batteries, wipe the battery compartment clean.

**■ Operation range**

Point the remote control at the remote control sensor on this unit and remain within the operating range shown below. The area between the remote control and this unit must be clear of large obstacles.

**CAUTION**

- Be careful not to drop the remote control.
- If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- If you find leaking batteries, discard the batteries immediately, taking care not to touch the leaked material. If the leaked material comes into contact with your skin or gets into your eyes or mouth, rinse it away immediately and consult a doctor. Clean the battery compartment thoroughly before installing new batteries.
- Do not use old batteries together with new ones. This may shorten the life of the new batteries or cause old batteries to leak.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Batteries that look the same may have a different specification.
- Dispose of batteries according to your regional regulations.
- Keep the batteries in a location out of reach of children. Batteries can be dangerous if a child were to put in his or her mouth.
- If you plan not to use this unit for a long period of time, remove the batteries from this unit. Otherwise, the batteries will wear out, possibly resulting in a leakage of battery liquid that may damage this unit.

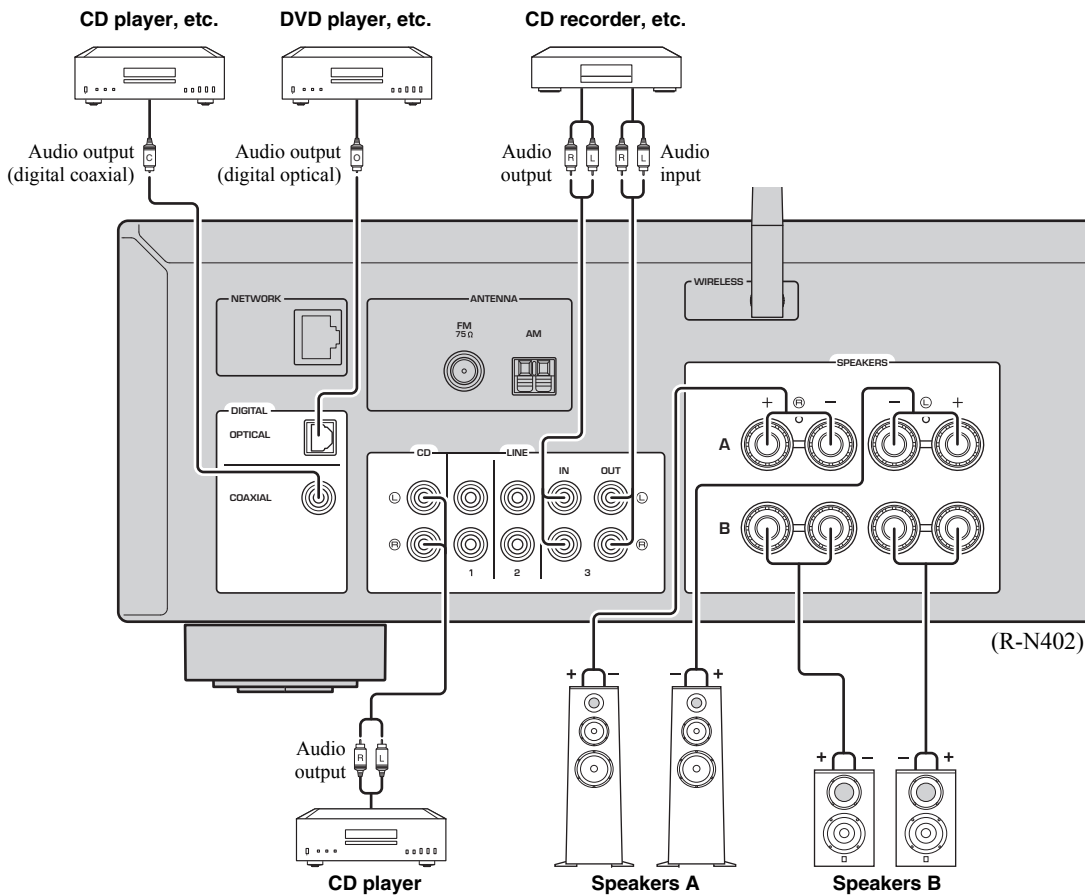
Connections

Make sure to connect L (left) to L, R (right) to R, “+” to “+” and “-” to “-”. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass. Refer to the owner’s manual for each of your components.

Make sure to use RCA cables to connect audio components.

CAUTION

- Do not connect this unit or other components to the main power until all connections between components are complete.
- Do not let bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or the speakers.



Only PCM signals can be input to the digital (OPTICAL/COAXIAL) jacks of this unit.

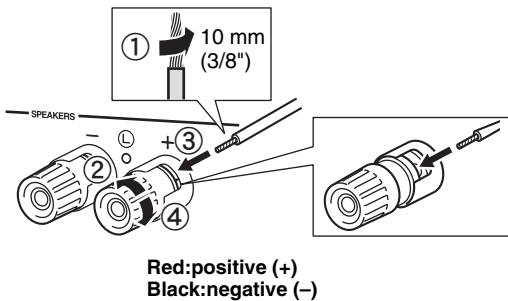
Note

Do not bundle audio cables and speaker cables together with the power cable. Doing so may generate noise.

Connecting the speakers

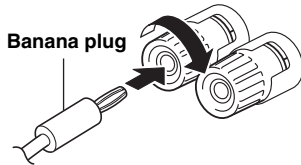
■ Connecting speaker cables

- ① Remove approximately 10 mm (3/8") of insulation from the ends of the speaker cable and twist the bare wires of the cable firmly together.
- ② Loosen the speaker terminal.
- ③ Insert the bare wires of the cable into the gap on the side (upper right or bottom left) of the terminal.
- ④ Tighten the terminal.



■ Connecting via banana plug (North America, Australia, Brazil, General models only)

Tighten the knob and then insert the banana plug into the end of the corresponding terminal.



Note

When inserting speaker cables into the speaker terminals, insert only the bare speaker wire. If insulated cable is inserted, the connection may be poor and sound may not be heard.

CAUTION

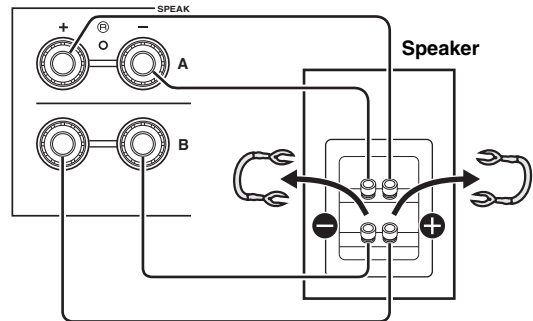
Connect the speakers with an impedance as shown below. If you connect speakers with an excessively low impedance, this unit may overheat.

Speaker connection	Speaker impedance
SPEAKERS A or SPEAKERS B	8 Ω or higher
SPEAKERS A and SPEAKERS B	16 Ω or higher (except for North America model)
Bi-wiring	8 Ω or higher

■ Bi-wire connection

Bi-wire connection separates the woofer from the combined midrange and tweeter section. A bi-wire compatible speaker has four binding post terminals. These two sets of terminals allow the speaker to be split into two independent sections. With these connections, the mid and high frequency drivers are connected to one set of terminals and the low frequency driver to another set of terminals.

This unit



Connect the other speaker to the other set of terminals in the same way.

Note

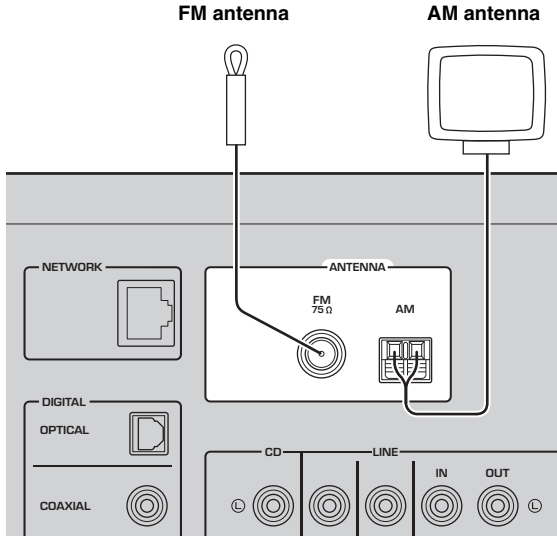
When making bi-wire connections, remove the shorting bridges or cables on the speaker. Refer to the speakers' instruction manuals for more information.



To use the bi-wire connections, press SPEAKERS A and SPEAKERS B (p. 8) so that both speaker indicators ("SP A" and "SP B") light up on the front display.

Connecting the FM/AM antennas (R-N402)

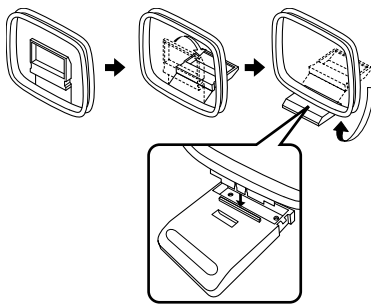
Connect the supplied FM/AM antenna to this unit. Fix the end of the FM antenna to a wall, and place the AM antenna.



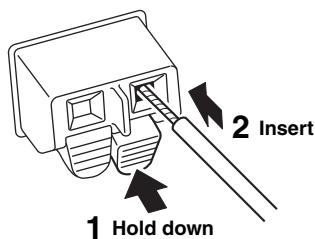
Notes

- If you experience poor reception quality, install an outdoor antenna.
- Unwind only the length of cable needed from the AM antenna unit.
- The wires of the AM antenna have no polarity.

■ Assembling the supplied AM antenna

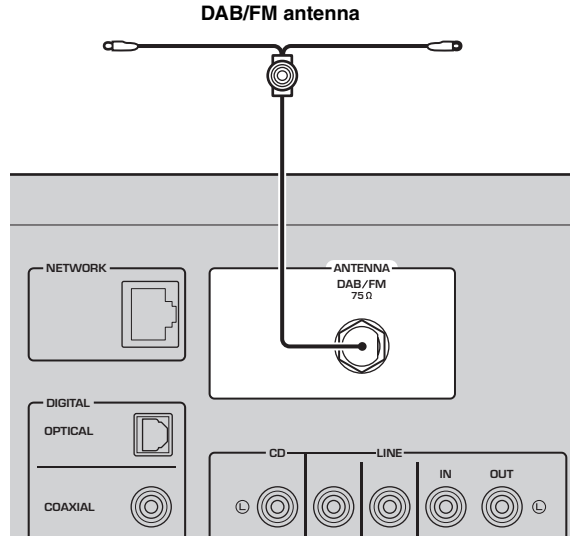


■ Connecting the wires of the AM antenna



Connecting the DAB/FM antenna (R-N402D)

Connect the supplied DAB/FM antenna to this unit and fix the antenna ends to a wall.

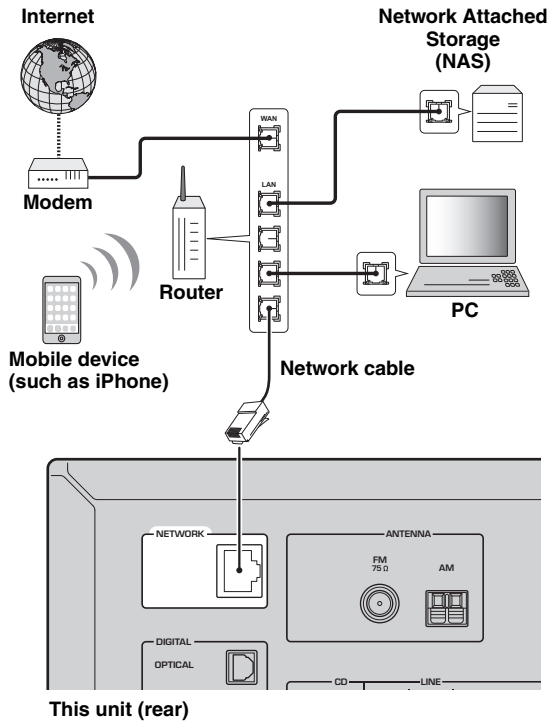


Notes

- If you experience poor reception quality, install an outdoor antenna.
- The antenna should be stretched out horizontally.

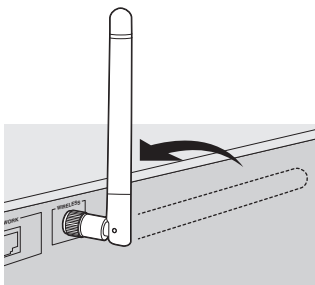
Connecting the network cable

Connect the unit to your router with a commercially-available STP network cable (CAT-5 or higher straight cable).



Preparing a wireless antenna

If you connect the unit wirelessly, erect the wireless antenna. For information on how to connect the unit to a wireless network, see “Connecting to network” (p. 14).



Note

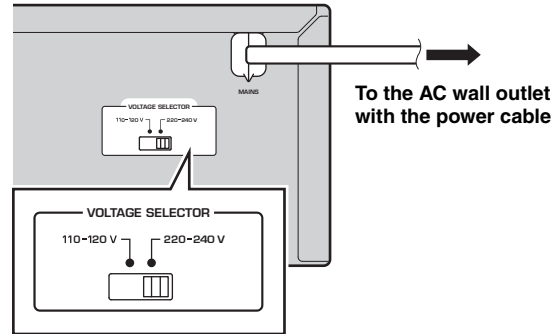
Do not apply excessive force on the wireless antenna. Doing so may damage the antenna.

Connecting power cable

Plug the power cable into an AC wall outlet after all other connections are complete.

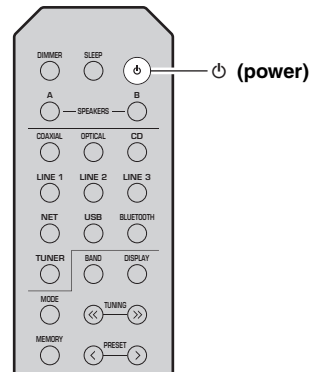
CAUTION

Only for General and Brazil models:
Before connecting the power cable, make sure you set **VOLTAGE SELECTOR** of this unit according to your local voltage. Improper setting of **VOLTAGE SELECTOR** may cause fire and damage to this unit.



Turning on the unit

Press ϕ (power) to turn on the unit.



Connecting to a network

There are several methods to connect the unit to a network. Select a connection method according to your environment.

Notes

- Some security software installed on your PC or the firewall settings of network devices (such as a router) may block the access of the unit to the network devices or the Internet. In these cases, configure the security software or firewall settings appropriately.
- Each server must be connected to the same subnet as the unit.
- To use the service via the Internet, broadband connection is strongly recommended.
- When playing a high-resolution audio source via the network, we recommend connecting by cable to the router for stable playback.

WAC (Wireless Accessory Configuration)

If you turn on the power to the unit right after you purchase or initialize it, the unit will automatically use the network settings of the iOS device (iPhone/iPad/iPod touch) and try to connect to a wireless LAN (unless the unit is already connected to a wired LAN).



WAC
R-N402 XXXXXX
R-N402 (example)

If you have an iOS device, follow the procedure from Step 6 in the section “Sharing the iOS device setting” (p. 15).

If you plan to connect the unit wirelessly by another method, press RETURN to exit the current screen, and then proceed to one of the sections below.

■ Connecting with the MusicCast CONTROLLER app

See MusicCast Setup Guide for details.

■ Connecting with a wireless router (access point)

Connect to the network with the method listed below that corresponds to your environment.

Connecting using the Wi-Fi setting of the iOS device (iPhone / iPad / iPod touch)



Share the Wi-Fi setting of the iOS device (p. 15)

Connecting using WPS push button configuration on the wireless router (or access point)



Use the WPS push button configuration (p. 16)

Connecting with a wireless router (access point) without WPS push button configuration



Set the network connection manually (p. 17)

■ Connecting to a router using a cable

Connecting using the DHCP server function of the router



You can connect to the network by simply making a wired connection (p. 13)

- For information on how to set the IP address and other menu items, please refer to page 46.
- To switch from a wireless LAN connection to a wired LAN connection, set the “Connection” under the “Network” setup menu to “Wired” (p. 46).

■ Connecting without a wired router or wireless router (access point)

Connecting wirelessly to a mobile device (Wireless Direct)



Connect wirelessly with Wireless Direct (p. 18)

Note

When the unit is connected to the network with Wireless Direct, it cannot connect to any other wireless router (access point). To play back contents from the Internet, connect this unit to a network with a wired router or wireless router (access point).

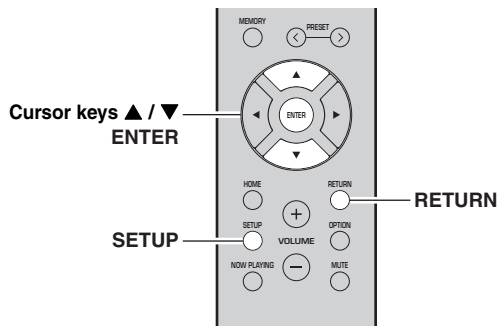
Sharing the iOS device setting

You can easily setup a wireless connection by applying the connection settings on iOS devices (iPhone/iPad/iPod touch).

Before proceeding, confirm that your iOS device is connected to a wireless router (access point).

Notes

- If you perform the following procedure, all network settings will be initialized.
- This configuration does not work if the security protocol of your wireless router (access point) is WEP. In this case, use another connection method.



1 Press SETUP.

2 Use the cursor keys (▲ / ▼) to select “Network” and press ENTER.



To return to the previous state, press RETURN.

3 Use the cursor keys (▲ / ▼) to select “Connection” and press ENTER.

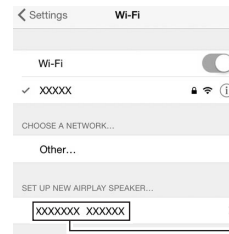
4 Use the cursor keys (▲ / ▼) to select “Wireless” and press ENTER.



5 Use the cursor keys (▲ / ▼) to select “Share Setting” and then press ENTER twice.

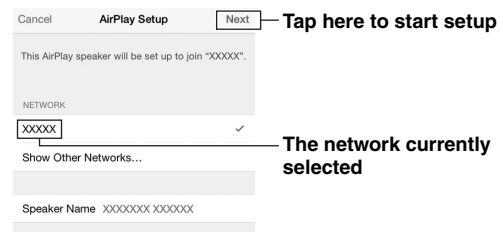
6 On the iOS device, select the unit as the AirPlay speaker in the Wi-Fi screen.

Example (iOS 9)



The name of this unit

7 Check that the “Network” field is set to your preferred network, and then tap “Next”.



Tap here to start setup

The network currently selected

When the sharing process finishes, the unit is automatically connected to the selected network (access point).

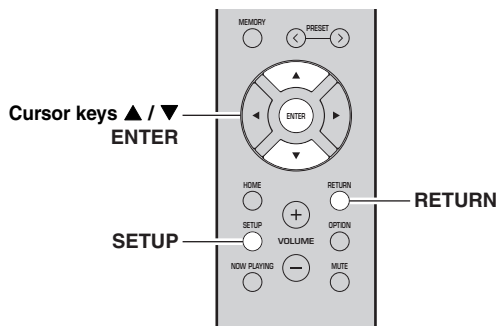
When the setting finishes, verify whether the unit is connected to a wireless network (p. 19).

Using the WPS push button configuration

You can easily set up a wireless connection with one push of the WPS button.

Note

This configuration does not work if the security method of your wireless router (access point) is WEP. In this case, use another connection method.



About WPS

WPS (Wi-Fi Protected Setup) is a standard established by the Wi-Fi Alliance, which allows easy establishment of a wireless home network.

1 Press SETUP.

2 Use the cursor keys (▲ / ▼) to select “Network” and press ENTER.



To return to the previous state, press RETURN.

3 Use the cursor keys (▲ / ▼) to select “Connection” and press ENTER.

4 Use the cursor keys (▲ / ▼) to select “Wireless” and press ENTER.

WIRELESS
WPS

5 Press ENTER twice.

“Connecting” appears on the front display.

6 Push the WPS button on the wireless router (access point).

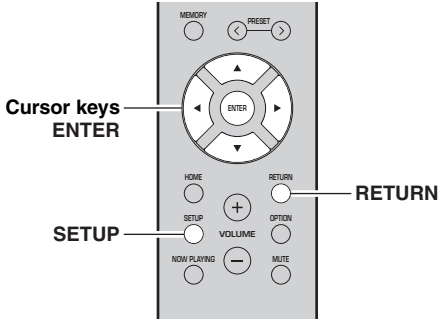
When the connection process finishes, “Completed” appears on the front display. When the setting finishes, verify whether the unit is connected to a wireless network (p. 19).

If “Not connected” appears, repeat from Step 1 or try another connection method.

7 To exit from the menu, press SETUP.

Set the wireless network connection manually

Before performing the following procedure, check the security method and security key on the wireless router (access point).



1 Press **SETUP**.

2 Use the cursor keys (▲ / ▼) to select “Network” and press **ENTER**.



To return to the previous state, press **RETURN**.

3 Use the cursor keys (▲ / ▼) to select “Connection” and press **ENTER**.

4 Use the cursor keys (▲ / ▼) to select “Wireless” and press **ENTER**.

5 Use the cursor keys (▲ / ▼) to select “ManualSetting” and press **ENTER**.



6 Use the cursor keys (▲ / ▼) to select “SSID” and press **ENTER**.



7 Use the cursor keys to enter the SSID on the wireless router (access point), and press **RETURN** to previous state.

Use the cursor keys (▲/▼) to select a character and the cursor keys (◀▶) to move the edit position. You can insert / delete a character, by pressing PRESET > (insert) or PRESET < (delete).

8 Use the cursor keys (▲ / ▼) to select “Security” and press **ENTER**.



9 Use the cursor keys (◀ / ▶) to select desired security method and press **RETURN**.

Settings

None, WEP, WPA2-PSK (AES), Mixed Mode

Note

If you select “None”, the connection may be insecure since the communication is not encrypted.

10 Use the cursor keys (▲ / ▼) to select “Security Key” and press **ENTER**.



11 Use the cursor keys to enter the security key on the wireless router (access point), and press **RETURN** to previous state.

If you select “WEP” in Step 9, enter either 5 to 13 character string or 10 to 26 hexadecimal digits.

If you select “WPA2-PSK (AES)” or “Mixed Mode” in Step 10, enter either 8 to 63 character string or 64 hexadecimal digits.

Use the remote control keys as described in Step 7 to enter the key.

12 Use the cursor keys (▲ / ▼) to select “Connect [ENT]” and press **ENTER** to save the setting.

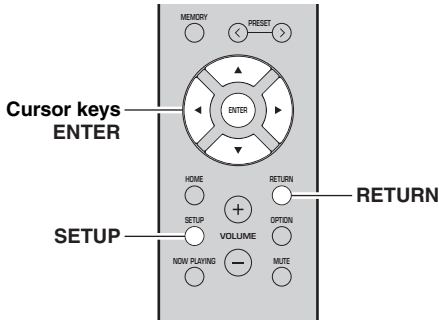
If “ERROR” appears, check the SSID and security key on the wireless router (access point) and repeat from Step 6.

If “ERROR” does not appear, the connection was successful. Verify whether the unit is connected to a wireless network (p. 19).

13 To exit from the menu, press **SETUP**.

Connecting a mobile device to the unit directly (Wireless Direct)

Using Wireless Direct, this unit can operate as a wireless network access point that mobile devices can directly connect to.



Note

When the unit is connected to the network with Wireless Direct, it cannot connect to any other wireless router (access point). To play back contents from the Internet, connect this unit to a network with a wired router or wireless router (access point).

1 Press SETUP.

2 Use the cursor keys (▲ / ▼) to select "Network" and press ENTER.



To return to the previous state, press RETURN.

3 Use the cursor keys (▲ / ▼) to select "Connection" and press ENTER.

4 Use the cursor keys (▲ / ▼) to select "W.Direct" and press ENTER.



5 Press ENTER to display the SSID for this unit, and press RETURN to previous state.

6 Use the cursor keys (▲ / ▼) to select "Security" and press ENTER.



7 Use the cursor keys (◀ / ▶) to select desired security method and press RETURN.

Settings

None, WPA2-PSK (AES)

Note

If you select "None", the connection may be insecure since the communication is not encrypted.

8 Use the cursor keys (▲ / ▼) to select "Security Key" and press ENTER.



9 Use the cursor keys to enter the security key on this unit, and press RETURN to previous state.

Enter either 8 to 63 character string or 64 hexadecimal digits.

Use the cursor keys (▲/▼) to select a character and the cursor keys (◀/▶) to move the edit position.

You can insert / delete a character, by pressing PRESET > (insert) or PRESET < (delete).

10 Use the cursor keys (▲ / ▼) to select "Connect [ENT]" and press ENTER to save the setting.

The SSID and security key information is required for setup of a mobile device.

When you select the "SSID" in Step 5, you can display the SSID configured for this unit. This SSID can be changed by using cursor keys.

11 Configure the Wi-Fi settings of a mobile device.

For details on settings of your mobile device, refer to the instruction manual of the mobile device.

- (1) Enable the Wi-Fi function on the mobile device.
- (2) Select the SSID of this unit from the list of available access points.
- (3) When you are prompted for a password, enter the security key displayed in Step 9.

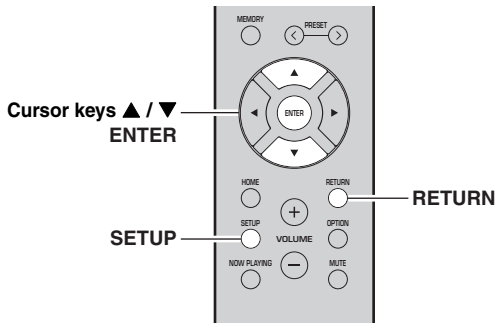
If "ERROR" appears, check the security key on this unit and repeat Step 11.


If "ERROR" does not appear, the connection was successful. Verify whether the unit is connected to a wireless network (p. 19).

12 To exit from the menu, press SETUP.

Verify the network connection status

Perform the following procedure to verify the unit's connection to a network.



- 1** Press **SETUP**.
 - 2** Use the cursor keys (**▲ / ▼**) to select “Network” and press **ENTER**.
-  To return to the previous state, press **RETURN**.
- 3** Use the cursor keys (**▲ / ▼**) to select “Information” and press **ENTER**.
 - 4** Use the cursor keys (**▲ / ▼**) to select “STATUS”.

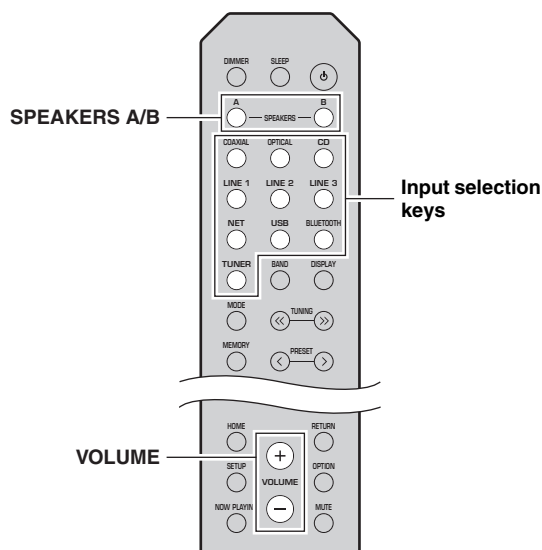
STATUS
 Connect

When “Connect” appears, the unit is connected to a network. If “Disconnect” appears, reset connection.

- 5** To exit from the menu, press **SETUP**.

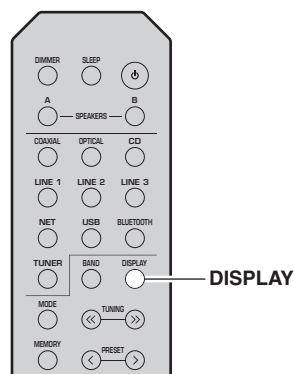
Playback

Playing a source



Switching information on the front display

When you select a network source or USB as the input source, you can switch playback information on the front display.



1 Press one of the input selection keys to select the input source you want to listen to.

2 Press SPEAKERS A and/or SPEAKERS B to select speakers A and/or speakers B.

Notes

- When one set of speakers is connected using bi-wire connections, or when using two sets of speakers simultaneously (A and B), make sure “SP A” and “SP B” are displayed on the front display.
- When listening with headphones, turn off the speakers.

3 Play the source.

4 Press VOLUME +/- to adjust the sound output level.



- You can adjust the tonal quality by using the BASS +/- and TREBLE +/- on the front panel (p. 5).
- You can also adjust the speaker balance by using the “Balance” option in the “SETUP” menu (p. 48).

1 Press DISPLAY.

Each time you press the key, the displayed item changes.



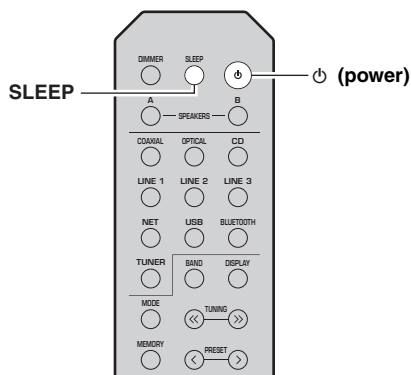
About 3 seconds later, the corresponding information for the displayed item appears.



Input source	Item
Bluetooth	Track (song title), Artist (artist name), Album (album name)
Server AirPlay USB	Track (song title), Artist (artist name), Album (album name), Time (elapsed time)
Net Radio	Track (song title), Album (album name), Time (elapsed time), Station (station name)

Using the sleep timer

Use this feature to automatically set this unit to standby mode after a certain amount of time. The sleep timer is useful when you are going to sleep while this unit is playing.



Note

The sleep timer can only be set with the remote control.

1 Press SLEEP repeatedly to set the amount of time before this unit is set to standby mode.

Each time you press SLEEP, the front display changes as shown below.

```

→ Sleep 120 min → Sleep 90 min
Sleep Off ← Sleep 30 min ← Sleep 60 min ←
  
```

The SLEEP indicator blinks while setting the amount of time for the sleep timer.



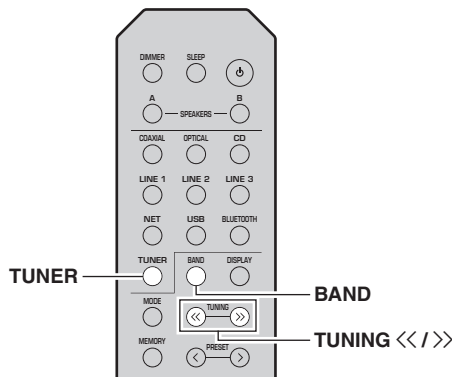
If the sleep timer is set, the SLEEP indicator on the front display lights up.



- To disable the sleep timer, select “Sleep Off”.
- The sleep timer setting can also be canceled by pressing ϕ (power) to set this unit to standby mode.

Listening to FM/AM radio (R-N402)

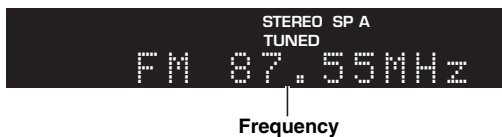
FM/AM tuning



- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Press **BAND** repeatedly to select the reception band (FM or AM).
- 3 Press and hold **TUNING <</>>** for more than 1 second to begin tuning.
Press >> to tune in to a higher frequency.
Press << to tune in to a lower frequency.

The frequency of the received station is shown in the front display.

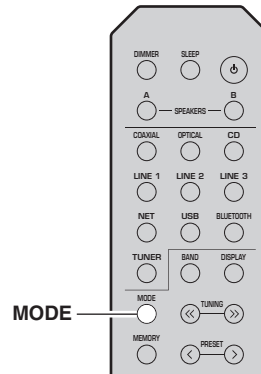
If a broadcast is being received, the “TUNED” indicator on the front display will light up. If a stereo broadcast is being received, the “STEREO” indicator will also light up.



- If the station signals are weak, tuning search does not stop at the desired station.
- When the signal reception for an FM radio station is unstable, switching to monaural may improve it.

Improving FM reception (FM mode)

If the signal from the station is weak and the sound quality is not good, set the FM band reception mode to monaural mode to improve reception.



- 1 Press **MODE** repeatedly to select “Stereo” (automatic stereo mode) or “Mono” (monaural mode) when this unit is tuned in to an FM radio station.

When Mono is selected, FM broadcasts will be heard in monaural sound.

Note

The STEREO indicator on the front panel lights up while listening to a station in stereo mode (p. 6).

Using preset functions

You can register up to 40 radio stations as presets. Once you have registered stations, you can easily tune in to them by recalling the presets. You can automatically register FM stations that have strong signals. If the FM stations you want to store have weak signals, you can register them manually (p. 23).

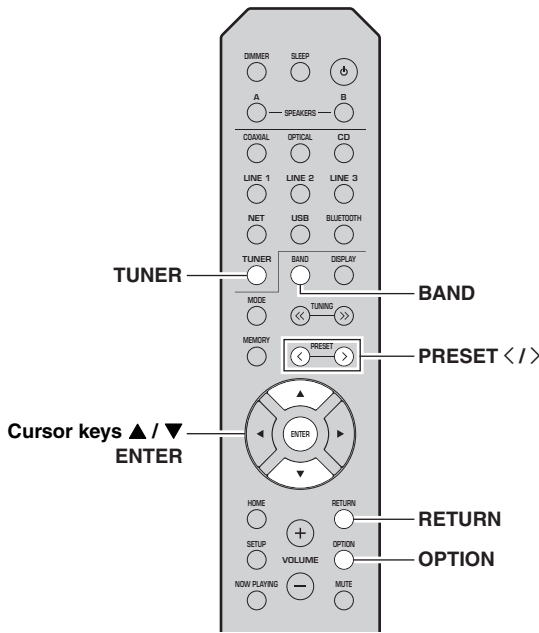
Registering radio stations automatically (FM station only)

Notes

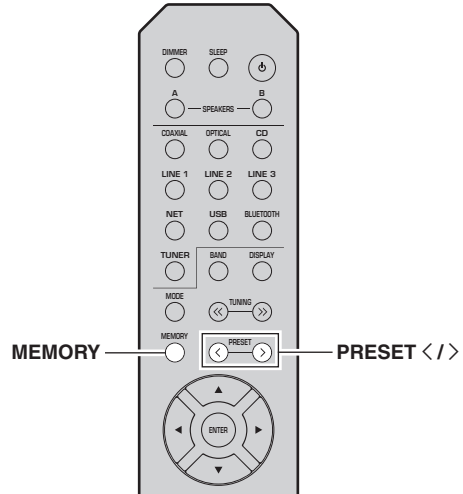
- If a station is registered to a preset number that already has a station registered to it, the previously registered station is overwritten.
- If the station you want to register is weak in signal strength, try using the manual preset tuning method.
- Only for U.K. and Europe models:
Only Radio Data System broadcasting stations can be preset automatically.



FM stations registered as presets using the automatic preset registration feature will be heard in stereo.



■ Registering a radio station manually



- 1 Press TUNER to select “TUNER” as the input source.**
- 2 Press OPTION on the remote control.**
The “OPTION” menu is displayed (p. 44).
- 3 Use the cursor keys (▲/▼) to select “Auto Preset”, and then press ENTER.**



Preset number Frequency

This unit starts scanning the FM band about 5 seconds later from the lowest frequency upwards. To begin scanning immediately, press ENTER.

- ☀
- Before scanning begins, you can specify the first preset number to be used by pressing PRESET </> or cursor keys (▲/▼) on the remote control.
- To cancel scanning, press RETURN.

When scanning is complete, “FINISH” is displayed and then the display returns to original state.

- 1 Tune in to the desired radio station.**
See “FM/AM tuning” (p. 22).
- 2 Press MEMORY.**
- 3 Press PRESET </> to select the preset number to which the station will be registered.**



By holding down MEMORY for more than 3 seconds, you can skip the following steps and automatically register the selected station to an empty preset number (i.e., the preset number following the last preset number used).

When you select a preset number to which no station is registered, the message “Empty” is displayed.



“Empty” (not in use) or the frequency currently registered.

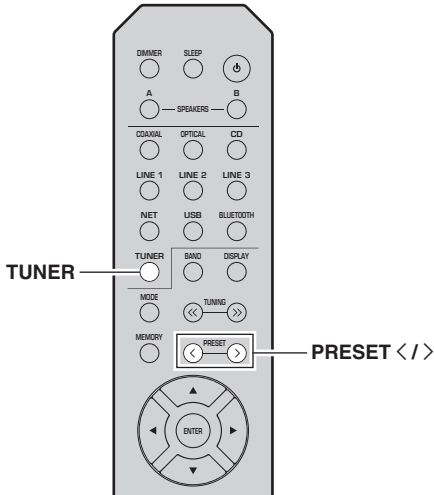
- 4 Press MEMORY.**
When registration is complete, the display returns to the original state.



To cancel registration, press RETURN or do not perform any operations for about 30 seconds.

■ Recalling a preset station

You can recall preset stations that you registered using either an automatic station preset or manual station preset.



1 Press TUNER to select “TUNER” as the input source.

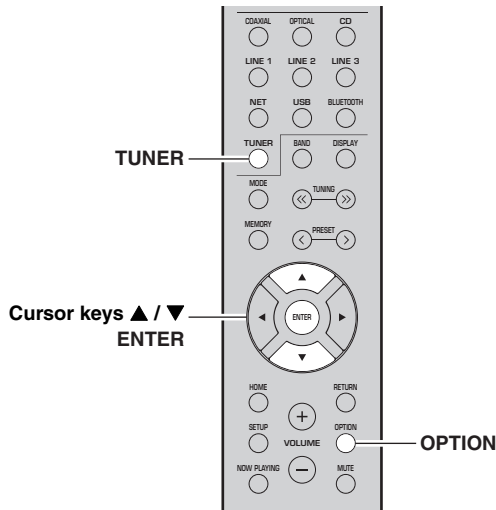
2 Press PRESET </> to select a preset number.



- Preset numbers to which no stations are registered are skipped.
- “No Presets” is displayed if no stations are registered.

■ Clearing a preset station

You can clear radio stations that are registered to the preset numbers.



1 Press TUNER to select “TUNER” as the input source.

2 Press OPTION.

3 Use the cursor keys (▲ / ▼) to select “Clear Preset” and press ENTER.



Preset station to be cleared

4 Use the cursor keys (▲ / ▼) to select a preset station to be cleared and press ENTER.

If the preset station is cleared, “Cleared” appears and then the next in-use preset number is displayed.



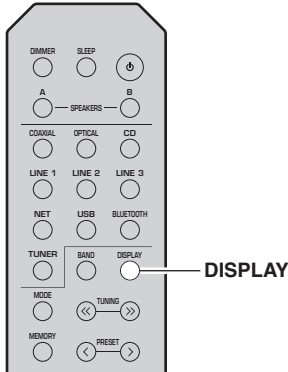
5 Repeat Step 4 until all desired preset stations are cleared.

6 To exit from the “OPTION” menu, press OPTION.

Radio Data System tuning (Only for U.K. and Europe models)

Radio Data System is a data transmission system used by FM stations in many countries. The unit can receive various types of Radio Data System data, such as “Program Service”, “Program Type,” “Radio Text” and “Clock Time”, when it is tuned into a Radio Data System broadcasting station.

■ Displaying Radio Data System information



1 Tune in to the desired Radio Data System broadcasting station.

We recommend that you first register radio stations automatically (p. 22) before tuning in to Radio Data System broadcasting stations.

2 Press DISPLAY.

Each time you press the key, the displayed item changes.



Item name

About 3 seconds later, the corresponding information for the displayed item appears.



Information

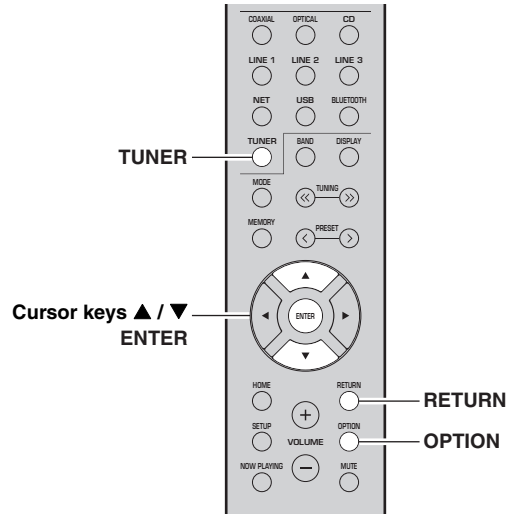
Program Service	Program service name
Program Type	Current program type
Radio Text	Information on the current program
Clock Time	Current time
Frequency	Frequency

Note

“Program Service”, “Program Type”, “Radio Text”, and “Clock Time” are not displayed if the radio station does not provide the Radio Data System service.

■ Receiving traffic information automatically

When “TUNER” is selected as the input source, the unit automatically receives traffic information. To enable this function, follow the procedure below to set the traffic information station.



BASIC OPERATION

1 When “TUNER” is selected as the input source, press OPTION.

2 Use the cursor keys (▲ / ▼) to select “TrafficProgram” and press ENTER.

The traffic information station search will start in 5 seconds. Press ENTER again to start the search immediately.

- To search upward/downward from the current frequency, press the cursor keys (▲/▼) while “READY” is displayed.
- To cancel the search, press RETURN.
- Texts in parentheses denote indicators on the front display.

The following screen appears for about 3 seconds when the search finishes.



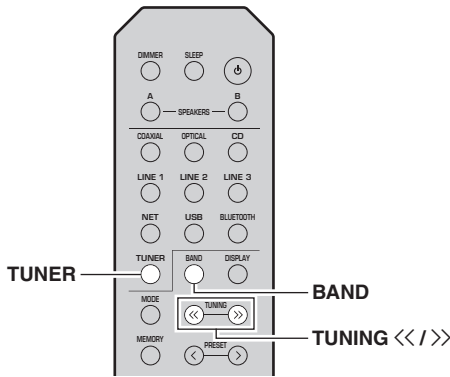
Traffic information station (frequency)

Note

“TP Not Found” appears for about 3 seconds when no traffic information stations are found.

Listening to FM radio (R-N402D)

FM tuning

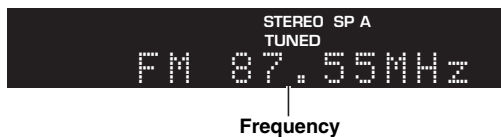


- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Press **BAND** repeatedly to select the FM band.
- 3 Press and hold **TUNING <</>>** for more than 1 second to begin tuning.

Press >> to tune in to a higher frequency.
Press << to tune in to a lower frequency.

The frequency of the received station is shown in the front display.

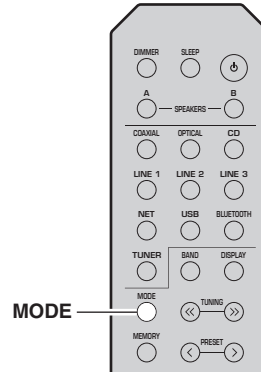
If a broadcast is being received, the “TUNED” indicator on the front display will light up. If a stereo broadcast is being received, the “STEREO” indicator will also light up.



- If the station signals are weak, tuning search does not stop at the desired station.
- When the signal reception for an FM radio station is unstable, switching to monaural may improve it.

Improving FM reception (FM mode)

If the signal from the station is weak and the sound quality is not good, set the FM band reception mode to monaural mode to improve reception.



- 1 Press **MODE** repeatedly to select “Stereo” (automatic stereo mode) or “Mono” (monaural mode) when this unit is tuned in to an FM radio station.

When Mono is selected, FM broadcasts will be heard in monaural sound.

Note

The STEREO indicator on the front panel lights up while listening to a station in stereo mode (p. 6).

Using preset functions

You can register up to 40 radio stations as presets. Once you have registered stations, you can easily tune in to them by recalling the presets. You can automatically register FM stations that have strong signals. If the FM stations you want to store have weak signals, you can register them manually (p. 27).

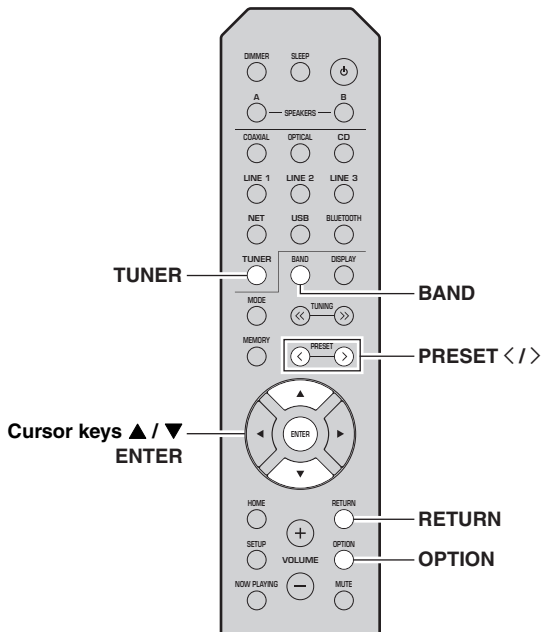
Registering radio stations automatically

Notes

- If a station is registered to a preset number that already has a station registered to it, the previously registered station is overwritten.
- If the station you want to register is weak in signal strength, try using the manual preset tuning method.
- Only for U.K. and Europe models:
Only Radio Data System broadcasting stations can be preset automatically.



FM stations registered as presets using the automatic preset registration feature will be heard in stereo.



- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Press **OPTION** on the remote control. The “OPTION” menu is displayed (p. 44).
- 3 Use the cursor keys (**▲** / **▼**) to select “Auto Preset”, and then press **ENTER**.



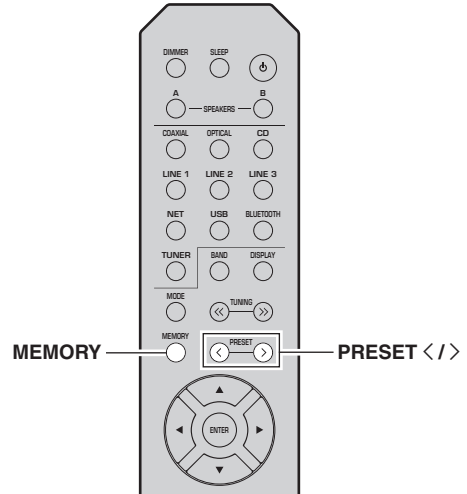
Preset number Frequency

This unit starts scanning the FM band about 5 seconds later from the lowest frequency upwards. To begin scanning immediately, press **ENTER**.

- Before scanning begins, you can specify the first preset number to be used by pressing **PRESET </>** or cursor keys (**▲**/**▼**) on the remote control.
- To cancel scanning, press **RETURN**.

When scanning is complete, “FINISH” is displayed and then the display returns to original state.

■ Registering a radio station manually



- 1 Tune in to the desired radio station.

See “FM tuning” (p. 26).

- 2 Press **MEMORY**.



By holding down **MEMORY** for more than 3 seconds, you can skip the following steps and automatically register the selected station to an empty preset number (i.e., the preset number following the last preset number used).

- 3 Press **PRESET </>** to select the preset number to which the station will be registered.

When you select a preset number to which no station is registered, the message “Empty” is displayed.



“Empty” (not in use) or the frequency currently registered.

- 4 Press **MEMORY**.

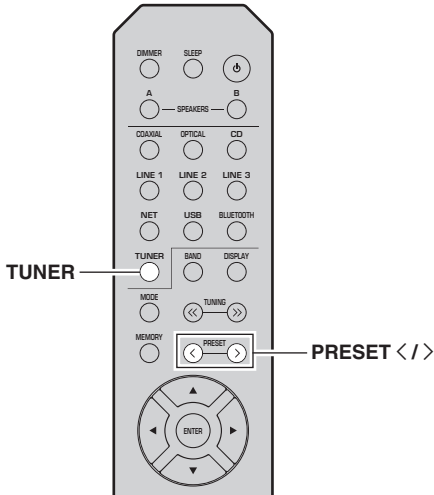
When registration is complete, the display returns to the original state.



To cancel registration, press **RETURN** or do not perform any operations for about 30 seconds.

■ Recalling a preset station

You can recall preset stations that were registered using automatic station preset or manual station preset.



1 Press TUNER to select “TUNER” as the input source.

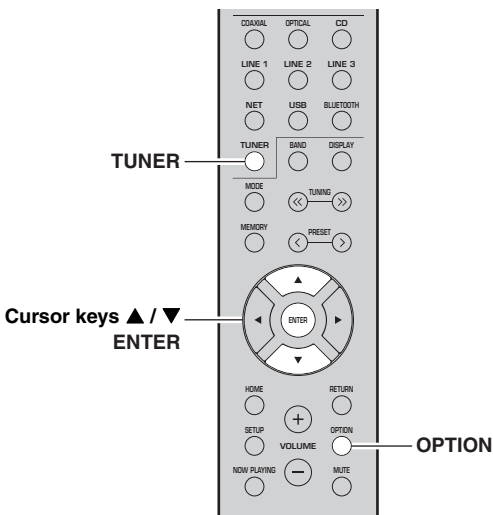
2 Press PRESET </> to select a preset number.



- Preset numbers to which no stations are registered are skipped.
- “No Presets” is displayed if no stations are registered.

■ Clearing a preset station

Clear radio stations registered to the preset numbers.



1 Press TUNER to select “TUNER” as the input source.

2 Press OPTION.

3 Use the cursor keys ($\blacktriangle / \blacktriangledown$) to select “Clear Preset” and press ENTER.



Preset station to be cleared

4 Use the cursor keys ($\blacktriangle / \blacktriangledown$) to select a preset station to be cleared and press ENTER.

If the preset station is cleared, “Cleared” appears and then the next in-use preset number is displayed.



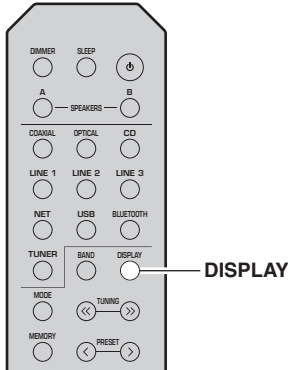
5 Repeat Step 4 until all desired preset stations are cleared.

6 To exit from the “OPTION” menu, press OPTION.

Radio Data System tuning (Only for U.K. and Europe models)

Radio Data System is a data transmission system used by FM stations in many countries. The unit can receive various types of Radio Data System data, such as “Program Service”, “Program Type”, “Radio Text” and “Clock Time”, when it is tuned into a Radio Data System broadcasting station.

■ Displaying Radio Data System information



1 Tune in to the desired Radio Data System broadcasting station.



We recommend that you first register radio stations automatically (p. 26) before tuning in to Radio Data System broadcasting stations.

2 Press DISPLAY.

Each time you press the key, the displayed item changes.



Item name

About 3 seconds later, the corresponding information for the displayed item appears.



Information

Program Service	Program service name
Program Type	Current program type
Radio Text	Information on the current program
Clock Time	Current time
Frequency	Frequency

Note

“Program Service”, “Program Type”, “Radio Text”, and “Clock Time” are not displayed if the radio station does not provide the Radio Data System service.

Listening to DAB radio (R-N402D)

DAB (Digital Audio Broadcasting) uses digital signals for clearer sound and more stable reception compared to analog signals. This unit can also receive DAB+ (an upgraded version of DAB) that allows for more stations using MPEG-4 audio codec (AAC+), which has a more efficient transmission method.

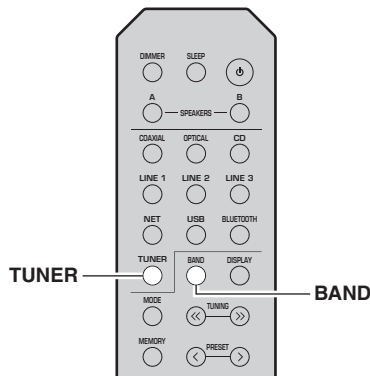
Note

This unit supports Band III (174 to 240 MHz) only.

Preparing the DAB tuning

Before tuning in to DAB stations, an initial scan must be performed. When you select the DAB for the first time, the initial scan is performed automatically.

To listen to a DAB station, connect the antenna as described in “Connecting the DAB/FM antenna (R-N402D)” (p. 12).



1 Press TUNER to select “TUNER” as the input source.

2 Press BAND to select the DAB band.

The initial scan starts. During the scan, the progress is displayed on the front panel display.

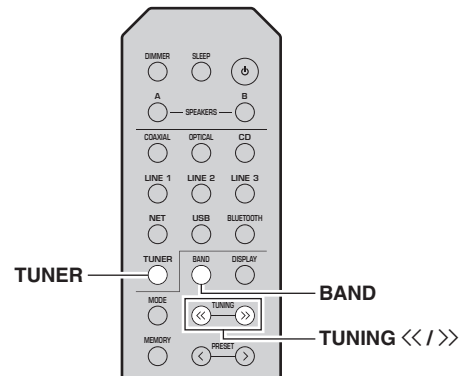
When the scan is complete, the top of the list of the scanned stations appears on the front panel display.



- If no DAB radio stations are found by an initial scan, “Not Found” will appear on the front panel display, followed by “Off Air”. Press BAND twice to re-select the DAB band and scan again.
- You can check reception strength of each DAB channel label (p. 33).
- To perform an initial scan again after some DAB radio stations are stored, select “Initiate Scan” (p. 44) in the “OPTION” menu. If you perform an initial scan again, the DAB radio stations currently registered to the preset numbers will be cleared.

Selecting a DAB radio station for reception

You can select a DAB radio station from the stations stored by the initial scan.



1 Press TUNER to select “TUNER” as the input source.

2 Press BAND to select the DAB band.

3 Press TUNING <</>> to select a DAB radio station.



Notes

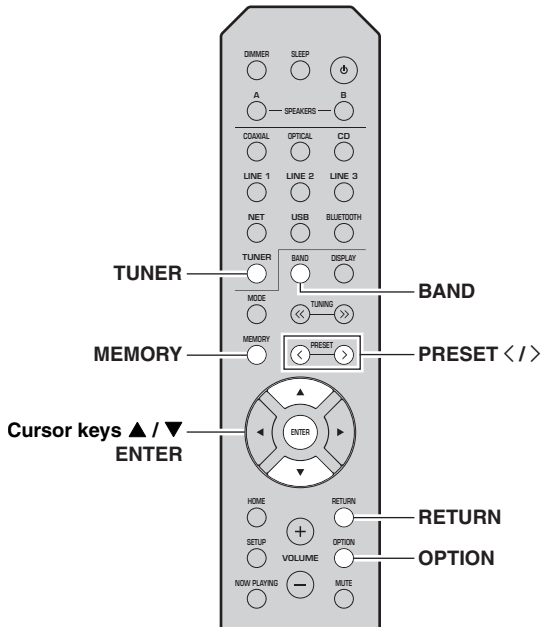
- “Off Air” appears when the selected DAB radio station is currently not available.
- When the unit is receiving a secondary station, “2” appears next to “DAB”.

Using preset function

You can register up to 40 DAB radio stations as presets. Once you have registered stations, you can easily tune in to them by recalling the presets.



You can register up to 40 favorite radio stations each for DAB and FM bands.



■ Registering a DAB radio station

Select a DAB radio station and register it to a preset number.

1 Tune in to the desired DAB radio station. See “Selecting a DAB radio station for reception” (p. 30).

2 Press MEMORY.



By holding down MEMORY for more than 3 seconds, you can skip the following steps and automatically register the selected station to an empty preset number (i.e., the preset number following the last preset number used).

3 Press PRESET </> to select the preset number to which the station will be registered.

When you select a preset number to which no station is registered, the message “Empty” is displayed.

When you select a preset number to which a station has already been registered, the message “Overwrite?” is displayed.



“Empty” (not in use) or “Overwrite?” (in use)

4 Press MEMORY.

When registration is complete, the display returns to the original state.



To cancel registration, press RETURN or do not perform any operations for about 30 seconds.

■ Recalling a preset station

Tune in to a registered DAB radio station by selecting its preset number.

1 Press TUNER to select “TUNER” as the input source.

2 Press BAND to select the DAB band.

3 Press PRESET </> to select the desired DAB radio station.



- Preset numbers to which no stations are registered are skipped.
- If this unit does not have any preset stations, “No Presets” is displayed.

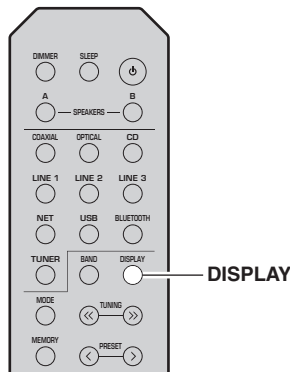
■ Clearing preset DAB radio stations

Clear DAB radio stations registered to the preset numbers.

- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Press **BAND** to select the DAB band.
- 3 Press **OPTION** to enter the “OPTION” menu. The “OPTION” menu for TUNER is displayed (p. 44).
- 4 Use the cursor keys (▲ / ▼) to select “Clear Preset”, and then press **ENTER**.
- 5 Select the desired preset station number by using the cursor keys (▲ / ▼) repeatedly. The selected preset number blinks on the front panel display.
- 6 Press **ENTER** again to confirm. “Cleared” is displayed on the front panel display. Then, another preset station is shown on the front panel display. When there is no more preset station, “No Presets” is displayed, and then the display returns to the “OPTION” menu. To return the display to the original state, press **RETURN**.

Displaying the DAB information

This unit can receive various types of DAB information when it is tuned in to a DAB radio station.



- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Tune in to the desired DAB radio station.
- 3 Press **DISPLAY**. Each time you press the key, the displayed item changes.



Item name

The selected item followed by a short description appears, and then the corresponding information for that item appears.



Information

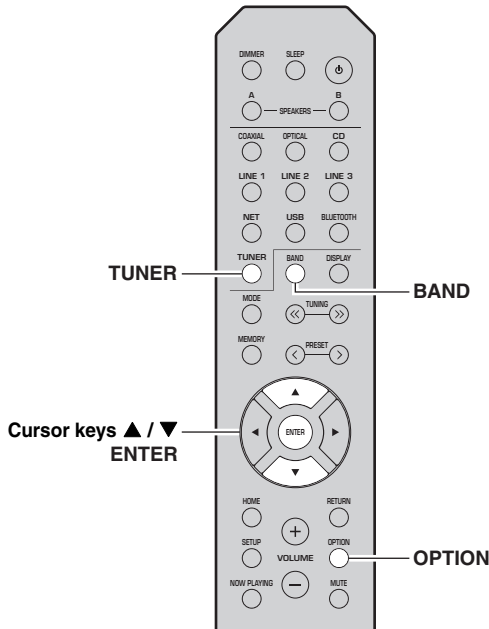
Choice	Description
Service Label	Station name
DLS (Dynamic Label Segment)	Information on the current station
Ensemble Label	Ensemble name
Program Type	Station genre
Date And Time	Current date and time
Audio Mode	Audio mode (monaural/stereo) and bit rate
CH Label/Freq.	Channel label and frequency
Signal Quality	Signal reception quality (0 [none] to 100 [best])

Note

Some information may not be available depending on the selected DAB radio station.

Checking reception strength of each DAB channel label

You can check reception strength of each DAB channel label (0 [none] to 100 [best]).



- 1 Press **TUNER** to select “TUNER” as the input source.
- 2 Press **BAND** to select the DAB band.
- 3 Press **OPTION** to enter the “OPTION” menu. The “OPTION” menu for TUNER is displayed (p. 44).
- 4 Use the cursor keys (▲ / ▼) to select “Tune Aid”, and then press **ENTER**.
- 5 Use the cursor keys (▲ / ▼) to select the desired DAB channel label.



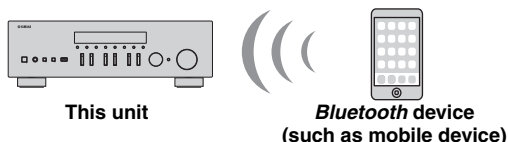
DAB frequency information

This unit supports Band III (174 to 240 MHz) only.

Frequency	Channel label	Frequency	Channel label
174.928 MHz	5A	208.064 MHz	9D
176.640 MHz	5B	209.936 MHz	10A
178.352 MHz	5C	211.648 MHz	10B
180.064 MHz	5D	213.360 MHz	10C
181.936 MHz	6A	215.072 MHz	10D
183.648 MHz	6B	216.928 MHz	11A
185.360 MHz	6C	218.640 MHz	11B
187.072 MHz	6D	220.352 MHz	11C
188.928 MHz	7A	222.064 MHz	11D
190.640 MHz	7B	223.936 MHz	12A
192.352 MHz	7C	225.648 MHz	12B
194.064 MHz	7D	227.360 MHz	12C
195.936 MHz	8A	229.072 MHz	12D
197.648 MHz	8B	230.784 MHz	13A
199.360 MHz	8C	232.496 MHz	13B
201.072 MHz	8D	234.208 MHz	13C
202.928 MHz	9A	235.776 MHz	13D
204.640 MHz	9B	237.488 MHz	13E
206.352 MHz	9C	239.200 MHz	13F

Playing back music via *Bluetooth*

You can play back music files stored on a *Bluetooth* device (such as mobile device) on the unit. Please also refer to the owner's manual of your *Bluetooth* device.



Notes

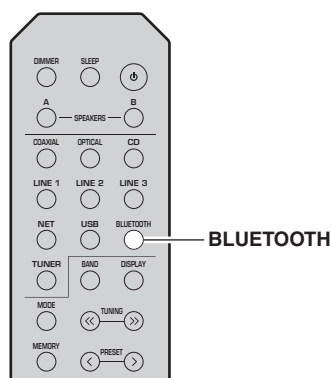
- To use the *Bluetooth* function, set “Bluetooth” (p. 47) in the “SETUP” menu to “On”.
- A *Bluetooth* device may not be detected by the unit or some feature may not be compatible, depending on the model.



You can transmit audio to *Bluetooth* speakers or headphones using the MusicCast CONTROLLER app. The audio output can only be selected from the MusicCast CONTROLLER app.

Connecting a *Bluetooth* device (pairing)

Before you can connect a *Bluetooth* device to the unit for the first time, a pairing operation is required. Pairing is an operation that registers the *Bluetooth* devices with each other beforehand. Once pairing has been completed, subsequent reconnection will be easy even after the *Bluetooth* connection is disconnected.



1 Press BLUETOOTH to select “Bluetooth” as the input source.

If another *Bluetooth* device is already connected, disconnect the *Bluetooth* connection before you perform a pairing operation.

2 Turn on the *Bluetooth* function of the *Bluetooth* device.

3 On the *Bluetooth* device, select the unit's model name from the available device list.

After pairing has been completed and the unit is connected to the *Bluetooth* device, “Connected” appears on the front display, and *Bluetooth* indicator will light up.

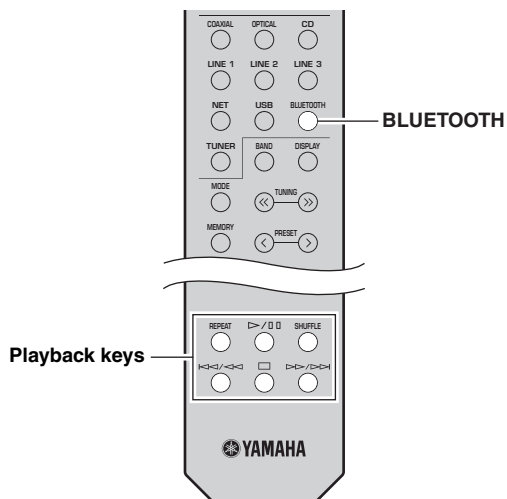


Complete a pairing procedure within 5 minutes.

Playing back *Bluetooth* device contents

Connect a paired *Bluetooth* device and start playback. Check the following beforehand:

- Pairing has been completed.
- Bluetooth* function on the *Bluetooth* device is turned on.



1 Press BLUETOOTH to select “Bluetooth” as the input source.



If the unit detects the *Bluetooth* device previously connected, the unit automatically connects to the *Bluetooth* device after Step 1. To establish another *Bluetooth* connection, first disconnect the current *Bluetooth* connection.

2 Operate the *Bluetooth* device to establish a *Bluetooth* connection.

Select the unit's model name from the *Bluetooth* device list on your device.

When a connection is established, *Bluetooth* indicator on the front display will light up.



If you cannot connect the *Bluetooth* device, please perform pairing again (p. 34).

3 Operate the *Bluetooth* device to play back music.



You can use the playback keys on the remote control to control playback.

Disconnecting a *Bluetooth* connection

Follow one of the procedures below to disconnect a *Bluetooth* connection.

- Turn off the *Bluetooth* function on the *Bluetooth* device.
- Hold down BLUETOOTH on the remote control for at least 3 seconds.
- Select "Disconnect" in "Audio Receive"(p. 47) in the "SETUP" menu, and then press ENTER.

Bluetooth

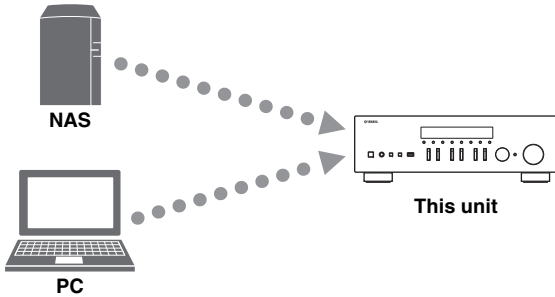
- *Bluetooth* is a technology for wireless communication between devices within an area of about 10 meters (33 ft) employing the 2.4 GHz frequency band, a band which can be used without a license.

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.

Playing back music stored on media servers (PCs/NAS)

You can play back music files stored on your PC or DLNA-compatible NAS on the unit.



Notes

- To use this function, the unit and your PC/NAS must be connected to the same router (p. 13). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in “Information” (p. 46) in the “SETUP” menu.
- To play back music files, the server software installed on the PC/NAS must support the music file formats that you want to play back.
- The audio may be interrupted while using the wireless network connection. In this case, use the wired network connection.
- Refer to page 57 for information regarding supported file formats.



You can connect up to 16 media servers to this unit.

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). In here, setting with Windows Media Player in Windows 7 is taken as an example.

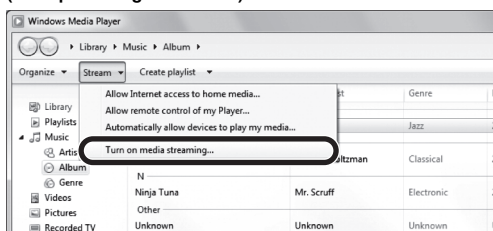
■ When using Windows Media Player 12

1 Start Windows Media Player 12 on your PC.

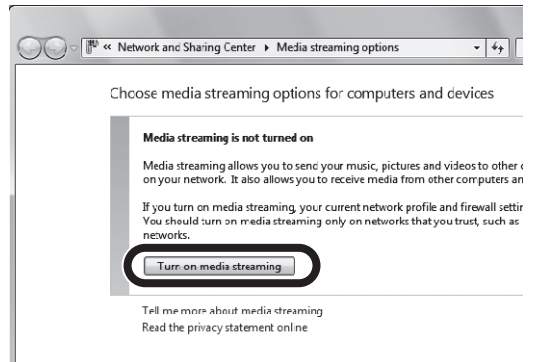
2 Select “Stream”, then “Turn on media streaming...”.

The control panel window of your PC appears.

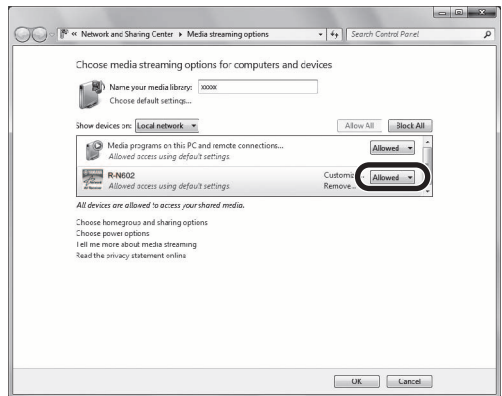
(Example of English version)



3 Click “Turn on media streaming”.



4 Select “Allowed” from the drop-down list next to the unit’s model name.



5 Click “OK” to exit.

■ When using Windows Media Player 11

1 Start Windows Media Player 11 on your PC.

2 Select “Library” then “Media Sharing”.

3 Check the “Share my media to” box, select the unit’s icon, then click “Allow”.

4 Click “OK” to exit.

■ When using a PC or a NAS with other DLNA server software installed

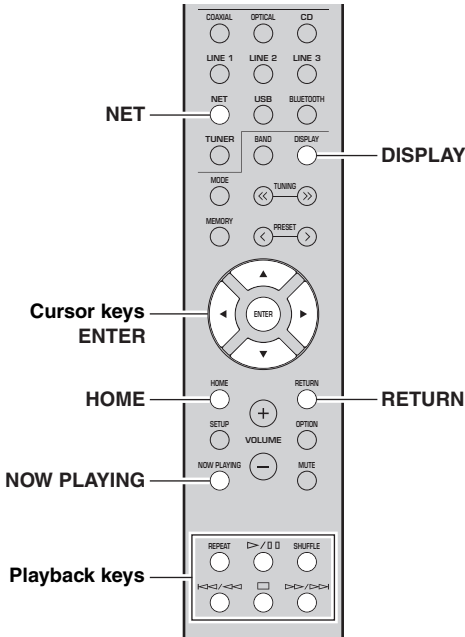
Refer to the instruction manual for the device or software and configure the media sharing settings.

Playback of PC music contents

Follow the procedure below to operate the PC music contents and start playback.

Note

“_” (underscore) will be displayed for characters not supported by the unit.



1 Press **NET** repeatedly to select “Server” as the input source.



2 Use the cursor keys (▲ / ▼) to select a music server and press **ENTER**.

3 Use the cursor keys to select an item and press **ENTER**.

If a song is selected, playback starts and the playback information is displayed.



- If playback of a music file selected from the unit is ongoing on your PC, the playback information is displayed.
- You can register the current playback song as a preset (p. 43).
- If you press the **DISPLAY** repeatedly, you can switch the playback information on the front display (p. 20).

Use the following remote control keys to control playback.

Keys	Function
Cursor keys	Select a music file or folder.
ENTER	Starts playback if pressed while content is selected. Moves down one level if pressed while a folder is selected.
RETURN	Moves up one level.
Playback keys	Stops/resumes playback.
	Stops playback.
	Skips forward/backward.
	Displays the root directory of the music server.
HOME	Displays the root directory of the music server.
NOW PLAYING	Displays information about the song that is playing.



You can also use a DLNA-compatible Digital Media Controller (DMC) to control playback. For details, see “DMC Control” (p. 46) in the “SETUP” menu.

Repeat/shuffle settings

You can configure the repeat/shuffle settings for the playback of PC music content.

1 When the input source is “Server,” press **REPEAT** or **SHUFFLE** on the playback key repeatedly to select the playback method.

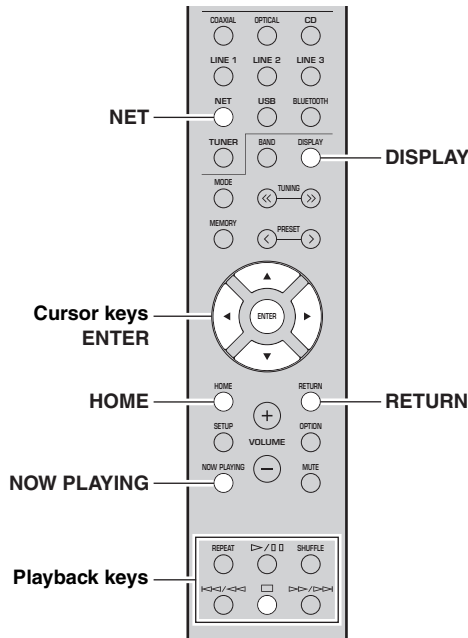
Playback keys	Setting	Function
REPEAT	Off	Turns off the repeat function.
	One	Plays back the current song repeatedly.
	All	Plays back all songs in the current album (folder) repeatedly.
SHUFFLE	Off	Turns off the shuffle function.
	On	Plays back songs in the current album (folder) in random order.

Listening to Internet radio

You can listen to Internet radio stations from all over the world.

Notes

- To use this function, the unit must be connected to the Internet (p. 13). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in “Information” (p. 46) in the “SETUP” menu.
- You may not be able to receive some Internet radio stations.
- The unit uses the vTuner Internet radio station database service.
- This service may be discontinued without notice.



1 Press NET repeatedly to select “NetRadio” as the input source.

The station list appears on the front display.




2 Use the cursor keys to select an item and press ENTER.

If an Internet radio station is selected, playback starts and the playback information is displayed.



Use the following remote control keys to control playback.

Keys	Function
Cursor keys	Select the Internet radio station or category such as the genre.
ENTER	Starts playback if pressed while an Internet radio station is selected. Moves down one level if pressed while a category is selected.
RETURN	Moves up one level.
Playback keys 	Stops playback.
HOME	Displays the top categories if pressed during playback.
NOW PLAYING	Displays the playback information for the Internet radio station.



- You can register the current playback station as a preset (p. 43).
- If you press the DISPLAY repeatedly, you can switch the playback information on the front display (p. 20).
- Some information may not be available depending on the station.

Registering favorite Internet radio stations (bookmarks)

Registering your favorite Internet radio stations as “Bookmarks” enables you to access those stations from the “Bookmarks” folder on the front display.

1 Select any Internet radio station on the unit.

This operation is necessary to register the radio station for the first time.

2 Check the vTuner ID of the unit.

You can find the vTuner ID in “Information” (p. 46) in the “SETUP” menu.

3 Access the vTuner website (<http://yradio.vtuner.com/>) with the web browser on your PC and enter the vTuner ID.

You can switch the language.



Enter the vTuner ID in this area.



To use this feature, you need to create your personal account. Create your account using your e-mail address.

4 Register your favorite radio stations.

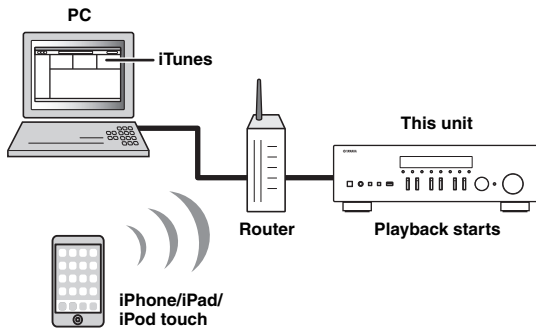
Click the “Add” icon (♥+) next to the station name.



To remove the station from the “Bookmarks” folder, select “Bookmarks” in the Home screen, and then click the “Remove” icon (♥-) next to the station name.

Playing back music with AirPlay

The AirPlay function allows you to play back iPhone/iPad/iPod touch/iTunes music on the unit via network.



Notes


- This section describes all the “iPhone”, “iPad” and “iPod touch” as the “iPod”.
- To use this function, the unit and your PC or iPod must be connected to the same router (p. 13). You can check whether the network parameters (such as the IP address) are properly assigned to the unit in “Information” (p. 46) in the “SETUP” menu.

AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion or later, and PC with iTunes 10.2.2 or later.
(as of June 2016)

Playback of iPod/iTunes music contents

Follow the procedure below to play back iPod/iTunes music contents on the unit.

1 Turn on the unit, and start iTunes on the PC or display the playback screen on the iPod.

If the iPod/iTunes recognizes the unit, the AirPlay icon () appears.



For iPods using iOS 7/iOS 8/iOS 9, AirPlay icon is displayed in Control Center. To access Control Center, swipe up from the bottom of the screen.

iTunes (example)



iOS 7/iOS 8/iOS 9 (example)



Note

If the icon does not appear, check whether the unit and PC/iPod are connected to the router properly.

2 On the iPod/iTunes, click (tap) the AirPlay icon and select the unit (network name of the unit) as the audio output device.

iTunes (example)



iPod (example)



Network name of the unit

3 Select a song and start playback.

The unit automatically selects “AirPlay” as the input source and starts playback. The playback information is displayed on the front display.







- If you press the DISPLAY repeatedly, you can switch the playback information on the front display (p. 20).
- You can turn on the unit automatically when starting playback on iTunes or iPod by setting “Standby (Network Standby)” (p. 47) in the “SETUP” menu to “On”.
- You can edit the network name (the unit’s name on the network) displayed on iPod/iTunes in “Network Name” (p. 47) in the “SETUP” menu.
- You can adjust the unit’s volume from the iPod/iTunes during playback.

CAUTION

When you use iPod/iTunes controls to adjust volume, the volume may be unexpectedly loud. This could result in damage to the unit or speakers. If the volume suddenly increases during playback, stop playback on the iPod/iTunes immediately.

Use the following remote control keys to control playback.

	Keys	Functions
Playback keys		Stops/resumes playback.
		Stops playback.
		Skips forward/backward.
		
	REPEAT	Changes the Repeat settings.
	SHUFFLE	Changes the Shuffle settings.

Playing back music stored on a USB storage device

You can play back music files stored on a USB storage device on the unit. Refer to the instruction manuals for the USB storage device for more information.

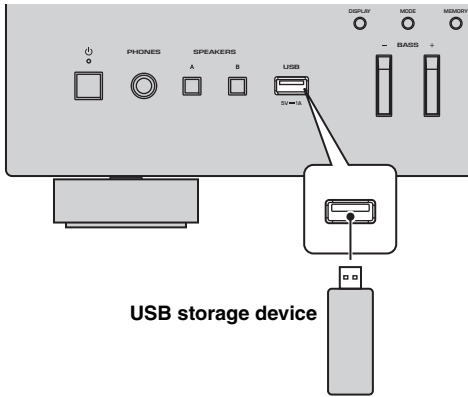
Notes

- Do not connect devices other than USB mass storage class devices (such as USB chargers or USB hubs), PCs, card readers, an external HDD, etc.
- Some features may not be compatible, depending on the model or manufacturer of the USB storage device.
- Refer to page 57 for information regarding supported file formats.

Connecting a USB storage device

1 Connect the USB storage device to the USB jack.

This unit (front)



USB storage device



If the USB storage device contains many files, it may take time to load the them. In this case, “Loading...” appears in the front display.

Notes

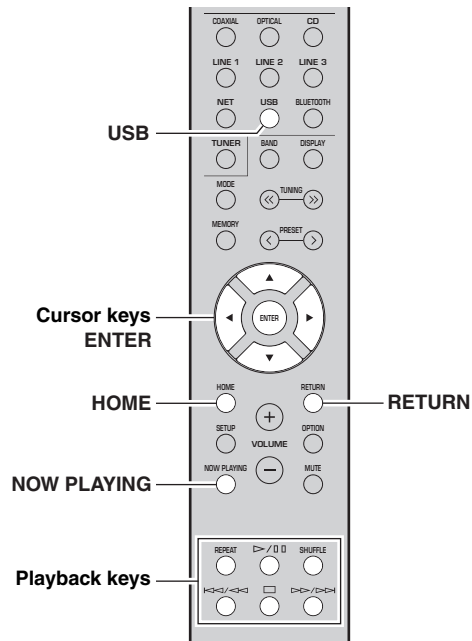
- Disconnect the USB storage device from the USB jack when it is not in use.
- Stop playback of the USB storage device before you disconnect it from the USB jack.
- You cannot connect the PC to the USB jack of the unit.

Playback of USB storage device contents

Follow the procedure below to operate the USB storage device contents and start playback.

Note

“_” (underscore) will be displayed for characters not supported by the unit.



BASIC OPERATION

1 Press USB to select “USB” as the input source.





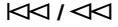
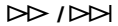
2 Use the cursor keys to select an item and press ENTER.

If a song is selected, playback starts and the playback information is displayed.



- You can register the current playback song as a preset (p. 43).
- If you press the DISPLAY repeatedly, you can switch the playback information on the front display (p. 20).

Use the following remote control keys to control playback.

Keys	Function
Cursor keys	Select a music file or folder.
ENTER	Starts playback if pressed while a music file is selected. Moves down one level if pressed while a folder is selected.
RETURN	Moves up one level.
Playback keys	 Stops/resumes playback.
	 Stops playback.
	 Skips forward/backward.
	 Skips forward/backward.
HOME	Displays the root directory of the USB device.
NOW PLAYING	Displays information about the song that is playing.

Repeat/shuffle settings

You can configure the repeat/shuffle settings for playback of USB storage device contents.

1 If the input source is “USB,” press REPEAT or SHUFFLE on the playback keys repeatedly to select the playback method.

Playback keys	Setting	Function
REPEAT	Off	Turns off the repeat function.
	One	Plays back the current song repeatedly.
	All	Plays back all songs in the current album (folder) repeatedly.
SHUFFLE	Off	Turns off the shuffle function.
	On	Plays back songs in the current album (folder) in random order.

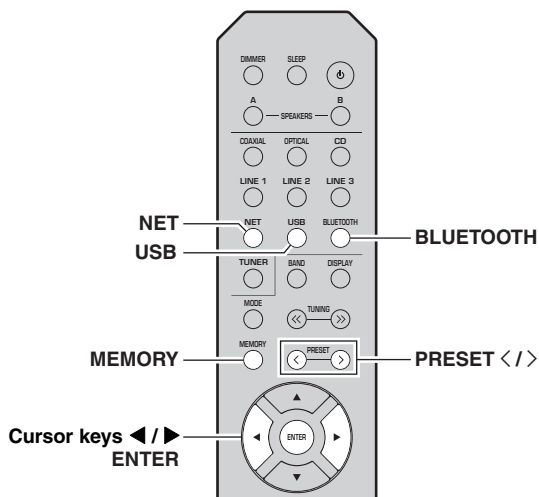
Registering the current playback song/station (Preset function)

When you select a network or USB source as the input source, you can register the current playback song or streaming station as a preset. You can program up to 40 such presets.

You can then easily recall any preset song/station by selecting its preset number.

The following input sources can be set as presets.

Server, Net Radio, USB and streaming services.



Registering to a preset

1 Playback a song or streaming station you want to register.

2 Hold down MEMORY for more than 3 seconds.

The first time you register a song/station, you will be prompted to register the selected song/station to preset number “01”. You will be also prompted to register each additional song/station you select to the next available preset number.



Preset number



To select a preset number for registering, press PRESET </> or the cursor keys (◀▶).

3 Press MEMORY again to register preset.



To cancel registration, press RETURN.

Recalling a preset

1 Select NET, BLUETOOTH or USB as the input source.

2 Press PRESET </> to select a preset number.

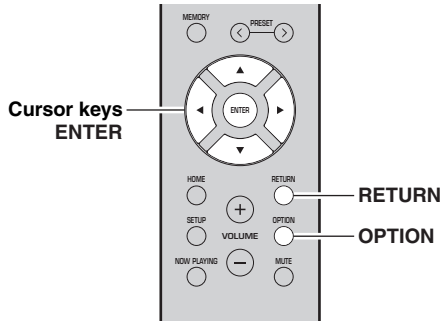
3 Press ENTER to recall preset.



- A few seconds after you select the preset number, playback of the selected preset will start.
- To cancel recalling preset, press RETURN.
- Using the MusicCast CONTROLLER app (p. 3) enables you to view a list of registered contents (song titles, radio broadcast stations) and listen to them.

Configuring playback settings for different playback sources (OPTION menu)

You can configure separate playback settings for different playback sources. This menu allows you to easily configure settings during playback.



1 Press OPTION.



2 Use the cursor keys to select an item and press ENTER.



To return to the previous state during menu operations, press RETURN.

3 Use the cursor keys (◀ / ▶) to select a setting.

4 To exit from the menu, press OPTION.

OPTION menu items



Available items vary depending on the selected input source.

Item	Function	Page
Volume Trim	Corrects volume differences between input sources.	44
Signal Info.	Displays information about the audio signal.	44
Auto Preset	Automatically registers FM radio stations with strong signals as presets.	22, 26
Clear Preset	Clear radio stations registered to preset numbers.	24, 28, 32
Initiate Scan*1	Performs an initial scan for DAB radio reception.	30
Tune Aid*1	Checks reception strength of each DAB station.	33

Item	Function	Page
TrafficProgram*2	Automatically searches for a traffic information station.	25
Vol.Interlock	Enables/Disables volume controls from iTunes/iPod via AirPlay.	44

*1 Only for R-N402D

*2 Only for R-N402 UK and Europe models

■ Volume Trim

Corrects volume differences between input sources. If you are bothered by volume differences when switching between input sources, use this function to correct it.



This setting is applied separately to each input source.

Setting range

-10 to +10 (1.0 increments)

Default

0.0

■ Signal Info.

Displays information about audio signal.

Choices

FORMAT	Audio format of the input signal
SAMPLING	The number of samples per second of the input digital signal



To switch the information on the front display, press the cursor keys (▲/▼) repeatedly.

■ Vol.Interlock (Volume interlock)

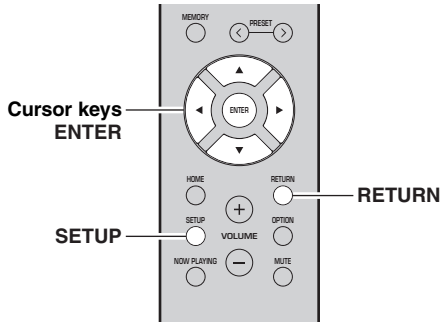
Enables/disables volume controls from iTunes/iPod via AirPlay.

Settings

Off	Disables volume controls from iTunes/iPod.
Ltd (default)	Enables volume controls from iTunes/iPod within the limited range (1 to 60 and mute).
Full	Enables volume controls from iTunes/iPod in the full range.

Configuring various functions (SETUP menu)

You can configure the unit's various functions.



1 Press SETUP.



2 Use the cursor keys (▲ / ▼) to select a menu.



3 Press ENTER.



4 Use the cursor keys (◀ / ▶) to select a setting and press ENTER.



To return to the previous state during menu operations, press RETURN.

5 Exit from the menu, press SETUP.

SETUP menu items

Menu item		Function	Page
Network	Connection	Selects the network connection method.	46
	Information	Displays the network information on the unit.	46
	IP Address	Configures the network parameters (such as IP address).	46
	DMC Control	Selects whether to allow a DLNA-compatible Digital Media Controller (DMC) to control playback.	46
	Standby (Network Standby)	Selects whether to enable/disable the function that turns on the unit from other network devices.	47
	Network Name	Edits the network name (the unit's name on the network) displayed on other network devices.	47
	Update (Network Update)	Updates the firmware via the Internet.	47
Bluetooth	On/Off	Enables/disables the <i>Bluetooth</i> functions.	47
	Standby (Bluetooth Standby)	Selects whether to enable/disable the function that turns on the unit from <i>Bluetooth</i> devices (<i>Bluetooth</i> standby).	47
	Audio Receive	Receives audio data from the <i>Bluetooth</i> device.	47
Balance		Adjusts the sound output balance of the left and right speakers to compensate for sound imbalances.	48
Max Volume		Sets the maximum volume to prevent excessive loudness.	48
InitialVolume		Sets the initial volume for when this receiver is turned on.	48
AutoPowerStby (Auto Power Standby)	On/Off	Enables/disables the auto-standby function.	48

Network

Configures the network settings.

■ Connection

Selects the network connection method.

Wired	Select this option when you want to connect the unit to a network with a commercially-available network cable (p. 13).
Wireless	Select this option when you want to connect the unit to a network via the wireless router or access point (p. 15, 16, 17).
W.Direct (Wireless Direct)	Select this option when you want to connect a mobile device to the unit directly. For details on settings, see “Connecting a mobile device to the unit directly (Wireless Direct)” (p. 18).
Extend	Displays connection method of the MusicCast Network.

■ Information

Displays the network information on the unit.

NEW FW	Appears if an update for this unit’s firmware is available (p. 51).
STATUS	The connection status of the network.
MC NET	Status of the MusicCast Network. If “Ready” appears, you can use the MusicCast CONTROLLER app.
MAC	Displays MAC address of the unit. MAC address will vary depending on the connection method (wired LAN connection or wireless LAN / Wireless Direct connection).
SSID	(When using wireless LAN connection or Wireless Direct) The SSID of this unit on the wireless network.
IP	IP address
SUBNET	Subnet mask
GATEWAY	The IP address of the default gateway
DNS P	The IP address of the primary DNS server
DNS S	The IP address of the secondary DNS server
VTUNER	The ID of the Internet radio (vTuner)

■ IP Address

Configures the network parameters (such as IP address).

DHCP

Select whether to use a DHCP server.

Off	Does not use a DHCP server. Configure the network parameters manually. For details, see “Manual network settings” below.
On (default)	Uses a DHCP server to automatically obtain the unit’s network parameters (such as IP address).

Manual network settings

1 Set “DHCP” to “Off”.

2 Use the cursor keys (▲ / ▼) to select a parameter type.

IP	Specifies an IP address.
SUBNET	Specifies a subnet mask.
GATEWAY	Specifies the IP address of the default gateway.
DNS P	Specifies the IP address of the primary DNS server.
DNS S	Specifies the IP address of the secondary DNS server.

3 Use the cursor keys (◀ / ▶) to select the edit position.



(Example: IP address setting)

Use the cursor keys (◀ / ▶) to switch between segments (Address1, Address2...) of the address.

4 Use the Cursor keys (▲ / ▼) to change a value.

5 To exit from the menu, press SETUP.

■ DMC Control

Selects whether to allow DLNA-compatible Digital Media Controller (DMC) to control playback.

Disable	Does not allow DMCs to control playback.
Enable (default)	Allows DMCs to control playback.



A Digital Media Controller (DMC) is a device that can control other network devices through the network. When this function is enabled, you can control playback of the unit from DMCs (such as Windows Media Player 12) on the same network.

■ Standby (Network Standby)

Selects whether the unit can be turned on from other network devices (network standby).

Off	Disables the network standby function.
On	Enables the network standby function. (The unit consumes more power than when “Off” is selected.)
Auto (default)	Enables the network standby function. The unit enters power-saving mode eight hours after it is disconnected from the network.

■ Network Name

Edits the network name (the unit’s name on the network) displayed on other network devices.

1 Select “Network Name”.

For information on selecting a menu option, refer to the steps described on page 45.

R-N402 (example)



2 Press ENTER to enter the name edit display.

R-N402 (example)



3 Use the cursor keys (▲ / ▼) to select a character and (◀ / ▶) to move the edit position.

You can insert / delete a character, by pressing PRESET > (insert) or PRESET < (delete).

4 To confirm the new name, press ENTER.

5 To exit from the menu, press SETUP.

■ Update (Network Update)

Updates the firmware via the network.

Perform Update	Starts the process to update the unit’s firmware. For details, see “Updating the unit’s firmware via the network” (p. 51).
Version	Displays the version of the firmware installed on the unit.
ID	Displays the system ID number.

Bluetooth

Configures the *Bluetooth* settings.

■ On/Off

Enables/disables the *Bluetooth* function (p. 34).

Off	Disables the <i>Bluetooth</i> function.
On (default)	Enables the <i>Bluetooth</i> function. Immediately after selecting the “On”, output of the network source is paused.

■ Standby (Bluetooth Standby)

Selects whether to enable/disable the function that turns on the unit from *Bluetooth* devices (*Bluetooth* standby). If this function is set to “On”, the unit automatically turns on when a connect operation is performed on the *Bluetooth* device.

Off	Disables the <i>Bluetooth</i> standby function.
On (default)	Enables the <i>Bluetooth</i> standby function. (The unit consumes more power than when “Off” is selected.)



This setting is not available when “Standby (Network Standby)” (p. 47) is set to “Off”.

■ Audio Receive

Receives audio data from the *Bluetooth* device.

Disconnect	Disconnects the connected <i>Bluetooth</i> device. To disconnect the <i>Bluetooth</i> device, press ENTER.
-------------------	--

Balance

Adjusting the sound output balance of the left and right speakers to compensate for sound imbalance caused by speaker locations or listening room condition.

Setting range

L+10 to R+10

Max Volume

Sets the maximum volume to prevent excessive loudness.

Setting range

1 to 99 (1step increments), Max

Default

Max

InitialVolume

Sets the initial volume when the receiver is turned on.

Setting range

Off, Mute, 1 to 99 (1step increments), Max

Default

Off

AutoPowerStby (Auto Power Standby)

Enables/disables the auto-standby function. If you do not operate the unit for the specified time, the unit will automatically go into standby mode.

Off	Does not set the unit to standby mode automatically.
On	Sets the unit to standby mode automatically. While NET, BLUETOOTH or USB is selected as the input source, the unit will switch to standby mode if the selected source is not played back for 20 minutes. For all input sources, the unit will switch to standby mode if it is not operated for 8 hours.

Default

U.K. and Europe models: On

Other models: Off



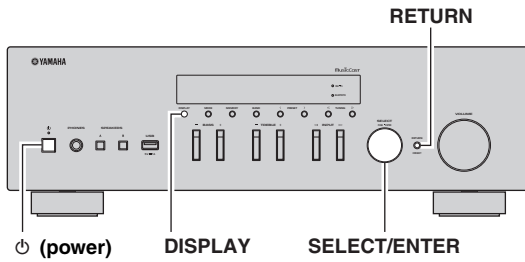
Just before the unit enters standby mode, “AutoPowerStby” appears and then countdown starts in the front display.

Configuring the system settings (ADVANCED SETUP menu)

Configure the system settings of the unit while viewing the front display.

1 Press **⏻** (power) on the front panel to turn off the unit.

2 While holding down **RETURN** on the front panel, press **⏻** (power).



3 Rotate **SELECT/ENTER** to select an item.

4 Press **SELECT/ENTER** to select a setting.

5 Press **⏻** (power) to set the unit to turn off and turn it on again.

The new settings take effect.

ADVANCED SETUP menu items

Item	Function	Page
REMOTE ID	Selects the unit's remote control ID.	49
TU*	Sets tuner frequency step.	49
INIT	Restores the default settings.	49
UPDATE	Updates the firmware.	50
VERSION	Checks the version of firmware currently installed on the unit.	50

* Only for Asia, General, Brazil models

Selecting the remote control ID (REMOTE ID)

When multiple receivers are used in the same room, setting the remote control ID of this unit to ID1 (and setting the other receiver to something other than ID1) can avoid interference from other remote controls.

Settings

ID1 (default), AUTO



The remote control for certain Yamaha CD players enables you to turn the power to this unit on or off.

Setting tuner frequency step (TU)

Selects the step size for locating tuner frequencies.

Settings

FM100/AM10, FM50/AM9 (default)

Restoring the default settings (INIT)

Restores the default settings for the unit.

Choices

CANCEL (default)	Does not perform an initialization.
NETWORK	Initializes all of the network, <i>Bluetooth</i> and USB settings. If you initialize the unit, all presets for the network and USB input sources (p. 43) will be cleared.
ALL	Restores the default settings for the unit.

Updating the firmware (UPDATE)

New firmware that provides additional features or product improvements will be released as needed. If the unit is connected to the Internet, you can download the firmware via the network. For details, refer to the information supplied with updates.

■ Firmware update procedure

Do not perform this procedure unless firmware update is necessary. Also, make sure you read the information supplied with updates before updating the firmware.

- 1 Press **SELECT/ENTER** repeatedly to select **“USB”** or **“NETWORK”** and press **DISPLAY** to start firmware update.

Choices

USB	Update the firmware using a USB memory device.
NETWORK	Updates the firmware via the Internet.



You can also update the unit's firmware by following the procedure in "Updating the unit's firmware via the network" (p. 51).

Checking the firmware version (VERSION)

Check the version of firmware currently installed on the unit.



- You can also check the firmware version in "Update (Network Update)" (p. 47) in the "SETUP" menu.
- It may take a while until the firmware version is displayed.

Updating the unit's firmware via the network

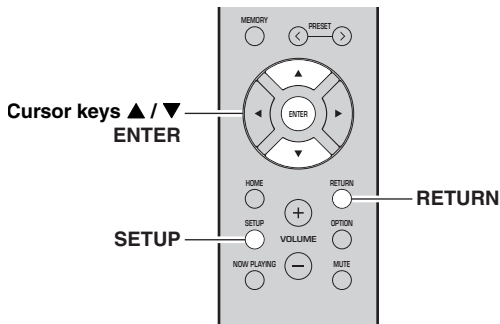
New firmware that provides additional features or product improvements will be released as needed. If the unit is connected to the Internet, you can download the firmware via the network and update it.

Notes

- Do not operate the unit or disconnect the power cable or network cable during firmware update. Firmware update takes about 20 minutes or more (depending on your Internet connection speed).
- If 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. In this case, update the firmware using the USB memory device (p. 50).



You can also update the firmware using the USB memory device from the "ADVANCED SETUP" menu (p. 50).



1 Press SETUP.

2 Use the cursor keys (▲ / ▼) to select "Network" and press ENTER.

3 Use the cursor keys (▲ / ▼) to select "Information" and press ENTER.

If new firmware is available, "NEW FW Available" appears on the front display.



4 Press RETURN to return the previous state.

5 Use the cursor keys (▲ / ▼) to select "Update" and press ENTER.



6 To start the firmware update, press ENTER.

The unit restarts and the firmware update starts.



To cancel the operation without updating the firmware, press SETUP.

7 If "UPDATE SUCCESS" appears on the front display, press ⏻ (power) on the front panel.

The firmware update is complete.

■ Notification of new firmware update

When new firmware is available, "NEW FW Update" will be displayed for a short period of time when the unit is turned on.



To update the unit's firmware, press ENTER (as described in Step 6 above) while this notification is displayed, and then proceed to Step 7.

Troubleshooting

Refer to the chart below if this unit does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, set this unit to standby mode, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

■ General

Problem	Cause	Remedy	See page
The power does not turn on.	The protection circuitry has been activated three times consecutively. If the unit is in this state, the STANDBY/ON indicator on the unit will blink when you try to turn on the power.	As a safety precaution, capability to turn on the power is disabled. Contact your nearest Yamaha dealer or service center to request repair.	—
	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	—
	The protection circuitry has been activated because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn the power of this unit back on.	10
	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.	Turn off the power and turn it on again after at least 15 seconds elapse. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)	—
The power does not turn off.	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.	Turn off the power and turn it on again after at least 15 seconds elapse. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)	—
No sound.	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	10
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT <I>/</I> on the front panel (or one of the input selection key on the remote control).	20
	The SPEAKERS A/B switches are not set properly.	Turn on the corresponding SPEAKERS A or SPEAKERS B.	20
	Speaker connections are not secure.	Secure the connections.	10
	Output has been muted.	Turn off the mute.	9
	The Max volume or Initial volume setting is set too low.	Check the settings for “Max Volume” and “Initial Volume” in the “SETUP” menu.	48
	The component corresponding to the selected input source is turned off or is not playing.	Turn the component on and make sure it is playing.	—
	The audio output of a device connected to a digital audio input (COAXIAL/OPTICAL jacks) is set to other than PCM.	Set the audio output of the connected device to PCM.	—
The sound suddenly goes off.	The protection circuitry has been activated because of a short circuit, etc.	Set the speaker impedance to match your speakers.	11
		Check that the speaker wires are not touching each other and then turn the power of this unit back on.	11
	This unit has become too hot.	Make sure the openings on the top panel are not blocked.	—
	The auto power standby function has turned this unit off.	Change the auto power standby (“AutoPowerStby” in the “SETUP” menu) to turn off.	48

Problem	Cause	Remedy	See page
Only the speaker on one side can be heard.	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	10
	Incorrect setting for the speaker balance.	Set the speaker balance ("Balance" in the "SETUP" menu) to the appropriate setting.	48
There is a lack of bass and no ambience.	The + and – wires are connected in reverse at the amplifier or the speakers.	Connect the speaker wires to the correct + and – phase.	11
A "humming" sound can be heard.	Incorrect cable connections.	Connect the audio plugs firmly. If the problem persists, the cables may be defective.	11
The sound is degraded when listening with the headphones connected to the CD player or the tape deck connected to this unit.	The power of this unit is turned off, or this unit is set to standby mode.	Turn on the power of this unit.	—

■ Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control will function within a maximum range of 6 m (20 ft) and no more than 30 degrees off-axis from the front panel.	9
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	—
	The batteries are weak.	Replace all batteries.	9

■ FM reception

Problem	Cause	Remedy	See page
FM stereo reception is noisy.	The particular characteristics of the FM stereo broadcasts being received may cause this problem when the transmitter is too far away or the antenna input is poor.	Check the antenna connections. Try using a high-quality directional FM antenna.	12
		Switch to monaural mode.	22, 26
There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust the antenna position to eliminate the multipath interference.	—
The desired station cannot be tuned in automatically.	The signal is too weak.	Try using a high-quality directional FM antenna.	12
		Try tuning manually.	22, 26
"No presets" is displayed.	No preset stations are registered.	Register stations you want to listen to as preset stations before operation.	22, 26

■ AM reception (R-N402)

Problem	Cause	Remedy	See page
The desired station cannot be tuned in automatically.	The signal is weak or the antenna connections are loose.	Tighten the AM antenna connections and orient it for the best reception.	—
		Try tuning manually.	22, 26
There are continuous crackling and hissing noises.	The noises may result from lightning, fluorescent lamps, motors, thermostats or other electrical equipment.	Try using an outdoor antenna and a earth ground. This will help somewhat, but it is difficult to eliminate all noise.	—
There are buzzing and whining noises.	A TV set is being used nearby.	Move this unit away from the TV set.	—
“No presets” is displayed.	No preset stations are registered.	Register stations you want to listen to as preset stations before operation.	22, 26

■ DAB reception (R-N402D)

Problem	Cause	Remedy	See page
Cannot tune into any DAB stations.	The initial scan operations were not performed.	Perform the initial scan operations.	30
	There is no DAB coverage in your area.	Check with your dealer or WorldDMB Online at “ http://www.worlddab.org ” for a listing of the DAB coverage in your area.	—
	The DAB signals are too weak.	Change the height, direction, or placement of the antenna.	12
The initial scan operations are not successful and “Not Found” appears on the front panel display.	The DAB signals are too weak.		
The DAB station reception is weak.	There is no DAB coverage in your area.	Check with your dealer or WorldDMB Online at “ http://www.worlddab.org ” for a listing of the DAB coverage in your area.	—
	The DAB signals are too weak.		
There is noise interference (e.g. hiss, crackle, or jitter).	The DAB signals are too weak.	Change the height, direction, or placement of the antenna.	12
	The antenna needs to be repositioned.		
The DAB station information does not appear or is inaccurate.	The DAB station may be temporarily out of service, or the DAB station information is not provided by the DAB broadcaster.	Contact the DAB broadcaster.	—

■ **Bluetooth**

Problem	Cause	Remedy	See page
A Bluetooth connection cannot be established.	The <i>Bluetooth</i> function of the unit is disabled.	Enable the <i>Bluetooth</i> function in the “SETUP” menu.	47
	Another <i>Bluetooth</i> device is already connected to the unit.	Terminate the current <i>Bluetooth</i> connection and then establish a new connection.	35
	The unit and the <i>Bluetooth</i> device are too far apart.	Move the <i>Bluetooth</i> device closer to the unit.	—
	There is a device (such as microwave oven and wireless LAN) that outputs signals in the 2.4 GHz frequency band nearby.	Move the unit away from those devices.	—
	The <i>Bluetooth</i> device does not support A2DP.	Use a <i>Bluetooth</i> device that supports A2DP.	—
	Since this unit has been paired with more than 20 <i>Bluetooth</i> devices, pairing information has been deleted.	Try pairing again. This unit can be paired with a maximum total of 20 <i>Bluetooth</i> devices for reception and transmission. When the 21st device is registered, the least frequently used pairing information is deleted.	34
No sound is produced, or the sound is interrupted during playback.	The volume of the <i>Bluetooth</i> device is set too low.	Turn up the volume of the <i>Bluetooth</i> device.	—
	The <i>Bluetooth</i> device is not set to send audio signals to the unit.	Switch the audio output of the <i>Bluetooth</i> device to the unit.	—
	The <i>Bluetooth</i> connection has been terminated.	Establish a <i>Bluetooth</i> connection between the <i>Bluetooth</i> device and the unit again.	34
	The unit and the <i>Bluetooth</i> device are too far apart.	Move the <i>Bluetooth</i> device closer to the unit.	—
	There is a device (such as microwave oven and wireless LAN) that outputs signals in the 2.4 GHz frequency band nearby.	Move the unit away from those devices.	—

■ USB and network

Problem	Cause	Remedy	See page
The unit does not detect the USB device.	The USB device is not connected to the USB jack securely.	Turn off the unit, reconnect your USB device, and turn the unit on again.	—
	The file system of the USB device is not FAT16 or FAT32.	Use a USB device with FAT16 or FAT32 format.	—
Folders and files in the USB device cannot be viewed.	The data in the USB device is protected by the encryption.	Use a USB device without an encryption function.	—
The network feature does not function.	The network parameters (IP address) have not been obtained properly.	Enable the DHCP server function on your router and set “DHCP” in the “SETUP” menu to “On” on the unit. If you want to configure the network parameters manually, check that you are using an IP address which is not used by other network devices in your network.	46
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 (access point).	—
	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	—
	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.	—
Wireless network is not found.	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).	—
The unit does not detect the PC.	The media sharing setting is not correct.	Configure the sharing setting and select the unit as a device to which music contents are shared.	36
	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.	13
The files in the media server (PCs/NAS) cannot be viewed or played back.	The files are not supported by the unit or the media server.	Use the file format supported by both the unit and the media server. For information about the file formats supported by the unit, see “Supported file formats”.	57
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 network devices (such as the router).	Check the firewall settings of your network 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.	—
The iPod does not recognize the unit when using AirPlay.	The unit is connected to a multiple SSID router.	Access to the unit might be restricted by the network separation function on the router. Connect the iPod to the SSID which can access the unit.	—
Firmware update via the Internet failed.	It may not be possible depending on the condition of the Internet.	Update the firmware via the Internet again or use a USB memory device.	50

Error indications on the front display

Message	Cause	Remedy
Access denied	Access to the PC is denied.	Configure the sharing settings and select the unit as a device to which music contents are shared (p. 36).
Access error	The unit cannot access the USB device.	Turn off the unit and reconnect your USB device. If the problem persists, try another USB device.
	There is a problem with the signal path from the network to the unit.	Make sure your router and modem are turned on. Check the connection between the unit and your router (or hub) (p. 13).
Check SP Wires	The speaker cables short circuit.	Twist the bare wires of the cables firmly and connect to the unit and speakers properly.
No content	There are no playable files in the selected folder.	Select a folder that contains files supported by the unit.
Please wait	The unit is preparing to connect to the network.	Wait until the message disappears. If the message stays more than 3 minutes, turn off the unit and turn it on again.
Unable to play	The unit cannot play back the songs stored on the PC for some reason.	Check if the format of files you are trying to play is supported by the unit. For information about the formats supported by the unit, see "Supported file formats" below. If the unit supports the file format, but still cannot play back any files, the network may be overloaded with heavy traffic.
Version error	Firmware update via the Internet failed.	Update the firmware again.

Supported file formats

PC(NAS)/USB

File	Sampling frequency (kHz)	Quantization bitrate (bit)	Bitrate	Gapless playback
WAV *	32/44.1/48/88.2/96/176.4/192	16/24	—	✓
MP3	32/44.1/48	—	8 to 320	—
WMA	32/44.1/48	—	8 to 320	—
MPEG-4 AAC	32/44.1/48	—	8 to 320	—
FLAC	32/44.1/48/88.2/96/176.4/192	16/24	—	✓
ALAC	32/44.1/48/88.2/96	16/24	—	✓
AIFF	32/44.1/48/88.2/96/176.4/192	16/24	—	✓
DSD	2.8 MHz/5.6 MHz	1	—	—

* Linear PCM format only



- USB devices with encryption cannot be used.
- Digital Rights Management (DRM) contents cannot be played back.

Specifications

Network

- Input jack: NETWORK x 1 (100Base-TX/10Base-T)
- PC client function
- Compatible with DLNA ver. 1.5
- AirPlay supported
- Internet radio
- Streaming service
- Wi-Fi function
 - Capable of WPS
 - Capable of sharing with iOS devices by wireless connection
 - Capable of direct connection with mobile device
 - Available security method: WEP, WPA2-PSK (AES), Mixed Mode
 - Radio frequency band: 2.4 GHz
 - Wireless network standard: IEEE 802.11 b/g/n

Bluetooth

- Source function
 - This unit to sink device (ex. *Bluetooth* headphone)
 - Supported codecSBC
- Sink function
 - Source device to this unit (ex. smartphone/tablet)
 - Supported codecSBC, AAC
- Capable of play/stop operation from sink device
- *Bluetooth* versionVer. 2.1+EDR
- Supported profileA2DP, AVRCP
- Wireless output*Bluetooth* Class 2
- Maximum communication distance
 -10 m (33 ft) without interference

USB

- Input jack: USB x 1 (USB2.0)
- Current supply capacity: 1.0 A

Audio

- Minimum RMS output power
 - (40 Hz to 20 kHz, 0.2% THD, 8 Ω)
 - [North America, General, China, Korea, Australia, U.K., Europe and Brazil models]100 W + 100 W
 - [Asia model]85 W + 85 W
- Dynamic power per channel (IHF) (8/6/4/2 Ω)
 -125/150/165/180 W
- Maximum power per channel (1 kHz, 0.7% THD, 4 Ω)
 - [U.K. and Europe models]115 W
- IEC power (1 kHz, 0.2% THD, 8 Ω)
 - [U.K. and Europe models]110 W
- Damping factor (SPEAKERS A)
 - 1 kHz, 8 Ω120 or more
- Maximum effective output power
 - (1 kHz, 10% THD, 8 Ω)
 - [General model]140 W
 - [Asia model]125 W
- Input sensitivity/input impedance
 - CD, etc.500 mV/47 kΩ
- Maximum input signal
 - CD, etc. (1 kHz, 0.5% THD).....2.2 V or more
- Output level/output impedance
 - CD, etc. (input 1 kHz, 500 mV)
 - LINE OUT500 mV/2.2 kΩ
 - PHONES (8 Ω load).....470 mV/470 Ω
- Frequency response
 - CD, etc. (20 Hz to 20 kHz)0 ± 0.5 dB
 - CD, etc. (10 Hz to 100 kHz)0 ± 3.0 dB
- Total harmonic distortion
 - CD, etc. to SPEAKERS OUT
 - (20 Hz to 20 kHz, 50 W, 8 Ω)0.2% or less
- Signal to noise ratio (IHF-A)
 - CD, etc. (input shorted, 500 mV).....100 dB or more
- Residual noise (IHF-A)70 μV

- Channel separation
 - CD, etc. (5.1 kΩ input shorted, 1/10 kHz)65/50 dB or more
- Tone control characteristics
 - BASS
 - Boost/cut (50 Hz)± 10 dB
 - TREBLE
 - Boost/cut (20 kHz)± 10 dB
- Digital input (OPTICAL/COAXIAL)
 - Support audio sample rate32/44.1/48/88.2/96/176.4/192 kHz

FM

- Tuning range
 - [North America model]87.5 to 107.9 MHz
 - [General, Asia and Brazil models]
 -87.5 to 107.9 MHz/87.50 to 108.00 MHz
 - [China, Korea, Australia, U.K. and Europe models]
 -87.50 to 108.00 MHz
- 50 dB quieting sensitivity (IHF-A, 1 kHz, 100% MOD.)
 - Mono3 μV (20.8 dBf)
- Signal to noise ratio (IHF-A)
 - Mono/stereo71 dB/70 dB
- Harmonic distortion (1 kHz)
 - Mono/stereo0.4%/0.4%
- Antenna input75 Ω unbalanced

AM (R-N402)

- Tuning range
 - [North America model]530 to 1710 kHz
 - [General, Asia and Brazil models]
 -530 to 1710 kHz/531 to 1611 kHz
 - [China, Korea, Australia, U.K. and Europe models]
 -531 to 1611 kHz

DAB (R-N402D)

- Tuning range.....174-240 MHz (Band III)
- Support audio format
 -MPEG 1 Layer II/MPEG 4 HE AAC v2 (AAC+)
- Antenna input75 Ω, unbalanced

General

- Power supply
 - [North America model]AC 120 V, 60 Hz
 - [General and Brazil models]AC 110-120/220-240 V, 50/60 Hz
 - [China model]AC 220 V, 50 Hz
 - [Korea model]AC 220 V, 60 Hz
 - [Australia model]AC 240 V, 50 Hz
 - [U.K. and Europe models]AC 230 V, 50 Hz
 - [Asia model]AC 220-240 V, 50/60 Hz
- Power consumption
 - [North America, General, China, Korea, Australia, U.K., Europe and Brazil models]200 W
 - [Asia model]165 W
- Standby power consumption0.1 W
- Network Standby on
 - Wired1.7 W
 - Wireless (Wi-Fi/Wireless Direct/*Bluetooth*)....1.8 W/1.8 W/1.8 W
- Dimensions (W × H × D)435 × 141 × 340 mm
 - (17-1/8" × 5-1/2" × 13-3/8")
- Reference Dimensions (W × H × D) (with wireless antenna upright)
 -435 × 200 × 340 mm
 - (17-1/8" × 7-7/8" × 13-3/8")
- * Including legs and protrusions
- Weight7.3 kg (16.1 lbs)

* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

Trademarks



Supports iOS 7 or later for setup using Wireless Accessory Configuration.

“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.

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

iPad Air and iPad mini are trademarks of Apple Inc.

App Store is a service mark of Apple Inc.

Made for.

iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPad Pro, iPad mini 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad mini, iPad (3rd and 4th generation), iPad 2, iPod touch (5th and 6th generation)
(as of June 2016)



DLNA™ and DLNA CERTIFIED™ are trademarks or registered trademarks of Digital Living Network Alliance. All rights reserved. Unauthorized use is strictly prohibited.

Windows™

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Internet Explorer, Windows Media Audio and Windows Media Player are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Android™

Google Play™

Android and Google Play are trademarks of Google Inc.



The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.

The Wi-Fi Protected Setup Identifier Mark is a certification mark of the Wi-Fi Alliance.

Wi-Fi, Wi-Fi Alliance, Wi-Fi CERTIFIED, Wi-Fi Protected Setup and WPA2 are trademark or registered trademark of Wi-Fi Alliance.



The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yamaha Corporation is under license.

Bluetooth protocol stack (Blue SDK)

Copyright 1999-2014 OpenSynergy GmbH

All rights reserved. All unpublished rights reserved.

Explanations regarding GPL

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



MusicCast is a trademark or registered trademark of Yamaha Corporation.



(For R-N402D)

The unit supports DAB/DAB+ tuning.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.



For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries 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.



Pb

For more information about collection and recycling of old products and batteries, 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]

These symbols are 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.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

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.
Nous, le fabricant Yamaha Music Europe GmbH, déclarons que cet appareil est conforme aux exigences essentielles et autres dispositions pertinentes de la Directive 1999/5/EC.
Hiermit erklärt die Yamaha Music Europe GmbH, dass dieses Gerät den wesentlichen Anforderungen und anderen relevanten Vorschriften der Richtlinie 1999/5/EC entspricht.
Yamaha Music Europe GmbH intygar härmed att detta system överensstämmer med de nödvändiga kraven och andra relevanta föreskrifter i direktivet 1999/5/EC.
Yamaha Music Europe GmbH dichiara con il presente che questa unità è conforme ai requisiti essenziali e alle normative pertinenti della direttiva 1999/5/CE.
Nosotros, Yamaha Music Europe GmbH, declaramos por la presente que esta unidad cumple con los requisitos esenciales y otras disposiciones pertinentes de la Directiva 1999/5/CE.
Wij, Yamaha Music Europe GmbH verklaren hierbij dat deze eenheid in compliance is met de essentiële vereisten en andere relevante voorwaarden van de Richtlijn 1999/5/EG.
Vi, Yamaha Music Europe GmbH, erklærer herved, at denne enhed overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Vi, Yamaha Music Europe GmbH, erklærer herved at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante forskrifter i direktiv 1999/5/EF.
Yamaha Music Europe GmbH vakuuttaa täten että tämä yksikkö täyttää direktiivin 1999/5/EY oleelliset vaatimukset ja muut asiaankuuluvat ehdot.
С настоящето Yamaha Music Europe GmbH декларира, че това устройство е в съответствие със съществените изисквания и другите приложими разпоредби на Директива 1999/5/EC.
Společnost Yamaha Music Europe GmbH tímto prohlašuje, že tato jednotka splňuje základní požadavky a všechna příslušná ustanovení Směrnice 1999/5/ES.
Käesolevaga kinnitab Yamaha Music Europe GmbH seadme vastavust direktiivi 1999/5/EÜ põhinõuetele ja muudele asjakohastele sätetele.
Η Yamaha Music Europe GmbH δηλώνει δια της παρούσης ότι η συγκεκριμένη μονάδα συμμορφώνεται προς τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EK.
Ar šo mēs, Yamaha Music Europe GmbH, deklarējam, ka šī iekārta atbilst Direktīvas 1999/5/EK pamatprasībām un citiem attiecīgajiem noteikumiem.
Yamaha Music Europe GmbH deklaruoja, kad šis įrenginys atitinka esminius reikalavimus ir kitas atitinkamas Direktyvos 1999/5/EB nuostatas.
A Yamaha Music Europe GmbH ezennel kijelenti, hogy a jelen egység megfelel az 1999/5/EK irányelv alapelvető követelményeinek és egyéb vonatkozó rendelkezéseinek.
Firma Yamaha Music Europe GmbH niniejszym deklaruje, że zakupione urządzenie jest zgodne z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy 1999/5/WE.
Nós, a Yamaha Music Europe GmbH, declaramos que esta unidade cumpre os requisitos essenciais e outras disposições relevantes da Directiva 1999/5/CE.
Prin prezenta, Yamaha Music Europe GmbH declară că această unitate este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei 1999/5/CE.
Naša spoločnosť, Yamaha Music Europe GmbH, týmto vyhlasuje, že táto jednotka spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Podjetje Yamaha Music Europe GmbH izjavlja, da je ta enota skladna z bistvenimi zahtevami in drugimi zadevnimi določili direktive 1999/5/ES.



Yamaha Music Europe GmbH
Siemensstr. 22-34 25462 Rellingen, Germany
Tel: +49-4101-303-0

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

For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area

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

Yamaha Global Site
<http://www.yamaha.com/>
Yamaha Downloads
<http://download.yamaha.com/>

Manual Development Department
© 2016 Yamaha Corporation

Published 06/2016 IP-A0
Printed in Malaysia

ZV01410