



Basic Manual

SC-LX502

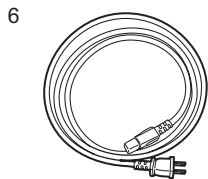
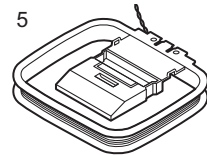
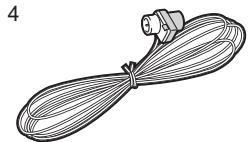
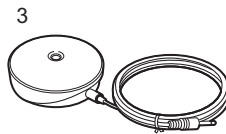
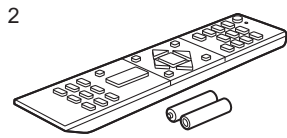
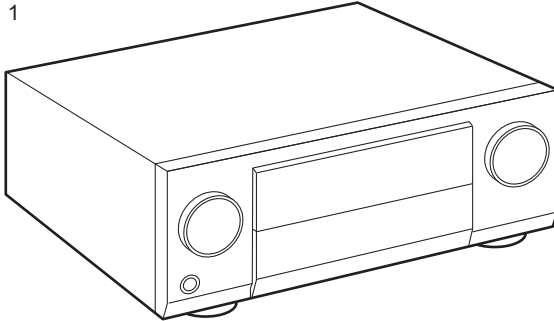
AV RECEIVER

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[The Basic Manual](#) includes information needed when starting up and also instructions for frequently used operations. [The Advanced Manual](#) has more detailed information and advanced settings.



What's in the box

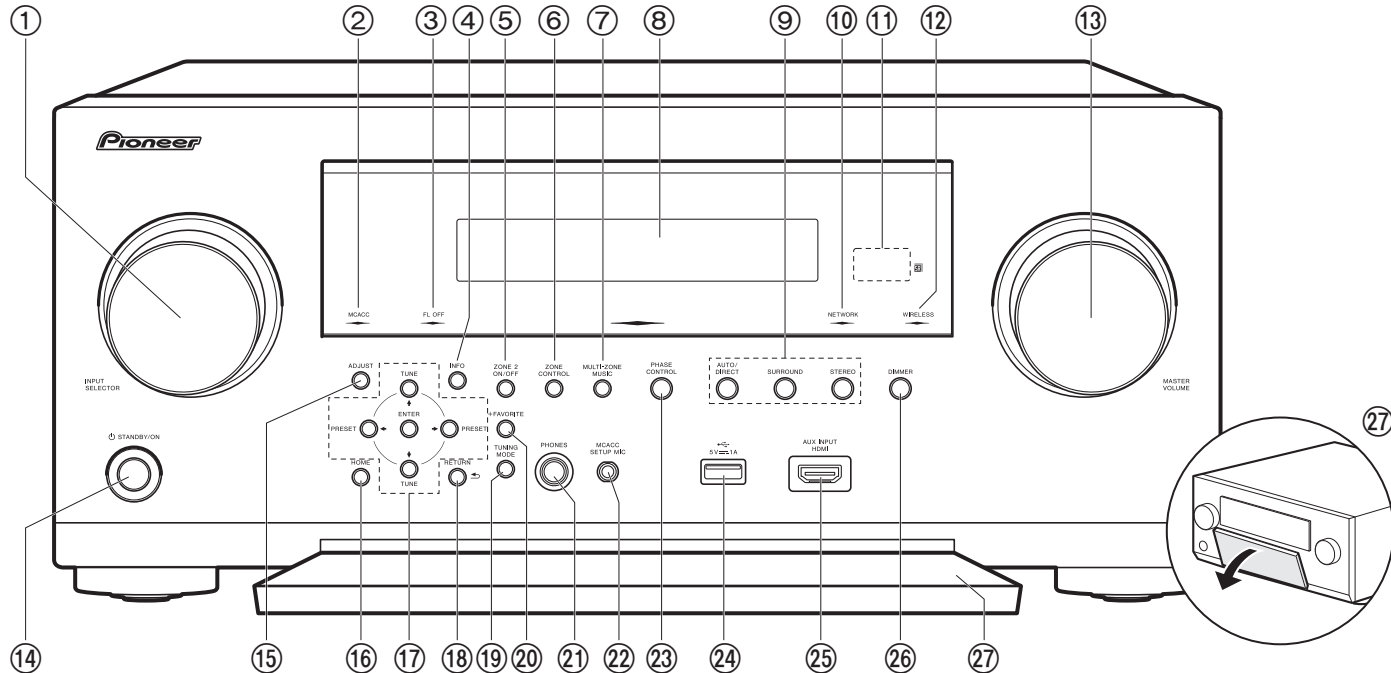


1. Main unit (1)
 2. Remote controller (RC-914R) (1), Batteries (AAA/R03) (2)
 3. Speaker setup microphone (1)
 - Used during Initial Setup.
 4. Indoor FM antenna (1)
 5. AM loop antenna (1)
 6. Power cord (1)
 - Quick Start Guide (1)
 - Basic Manual (This manual)
- Connect speakers with 4 Ω to 16 Ω impedance.
 - The power cord must be connected only after all other cable connections are completed.
 - We will not accept responsibility for damage arising from the connection of equipment manufactured by other companies.
 - Functionality may be introduced by firmware updates and service providers may cease services, meaning that some network services and content may become unavailable in the future. Furthermore, available services may vary depending on your area of residence.
 - Details on the firmware update will be posted on our website, etc.
 - Specifications and appearance are subject to change without prior notice.



(*)You can find details in the Advanced Manual.

Part Names



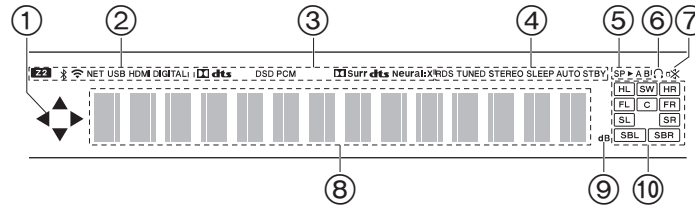
Front Panel

1. INPUT SELECTOR dial: Switch the input to be played.
2. MCACC indicator: This lights when you have enabled the speaker calibration made with MCACC. (P26)
3. FL OFF indicator: This lights when you have pressed DIMMER repeatedly to turn the display off.
4. INFO button: Switches the information on the display. (P34)
5. ZONE 2 ON/OFF button: Switches the multi-zone function on/off. (P32)
6. ZONE CONTROL button: Controls the multi-zone function. (P32)
7. MULTI-ZONE MUSIC button: Enables the MULTI-ZONE MUSIC function to play the same source in all the multi-zone connected rooms. (P33)
8. Display (P4)
9. Listening mode button: Press "AUTO/DIRECT", "SURROUND" or "STEREO" to switch the listening mode. (P34) (*)
10. NETWORK indicator: This lights when "NET" is selected with the input selector and the unit is connected to the network. If the unit is in standby mode, this lights when functions such as HDMI CEC and network standby are enabled. It does not light when ZONE 2 is on, however.
11. Remote control sensor: Receives signals from the remote controller.
 - The signal range of the remote controller is within about 16' / 5 m, at an angle of 20° on the perpendicular axis and 30° to either side.
12. WIRELESS indicator: Lights when the unit is connected to the wireless network and when connected to a BLUETOOTH enabled device.



(*)You can find details in the Advanced Manual.

13. MASTER VOLUME
14. STANDBY/ON button
15. ADJUST button: Settings such as "Tone" and "Level" can be made quickly during play on the TV screen.
16. HOME button: Displays the Home. (*)
17. Cursor buttons (, , ,) and ENTER button: Select the item with the cursors and press ENTER to confirm. Use them to tune to stations when using TUNER. (P30)
18. RETURN button: Returns the display to the previous state.
19. TUNING MODE button: Switches tuning to an AM/FM radio station between automatic tuning and manual tuning.
20. +FAVORITE button: Used to register AM/FM radio stations.
21. PHONES jack: Headphones with a standard plug (Ø1/4"/6.3 mm) are connected.
22. MCACC SETUP MIC jack: The supplied speaker setup microphone is connected.
23. PHASE CONTROL button: This turns on or off the Phase Control that corrects phase disturbance in the low range to reproduce bass that is faithful to the original sound.
24. USB port: A USB storage device is connected so that music files stored in it can be played. You can also supply power (maximum 5 V/1 A) to USB devices with a USB cable.
25. AUX INPUT HDMI jack: Connect to a video camera, etc., using a HDMI cable.
26. DIMMER button: You can switch the display off or adjust the brightness of the display in three steps.
27. Front flap

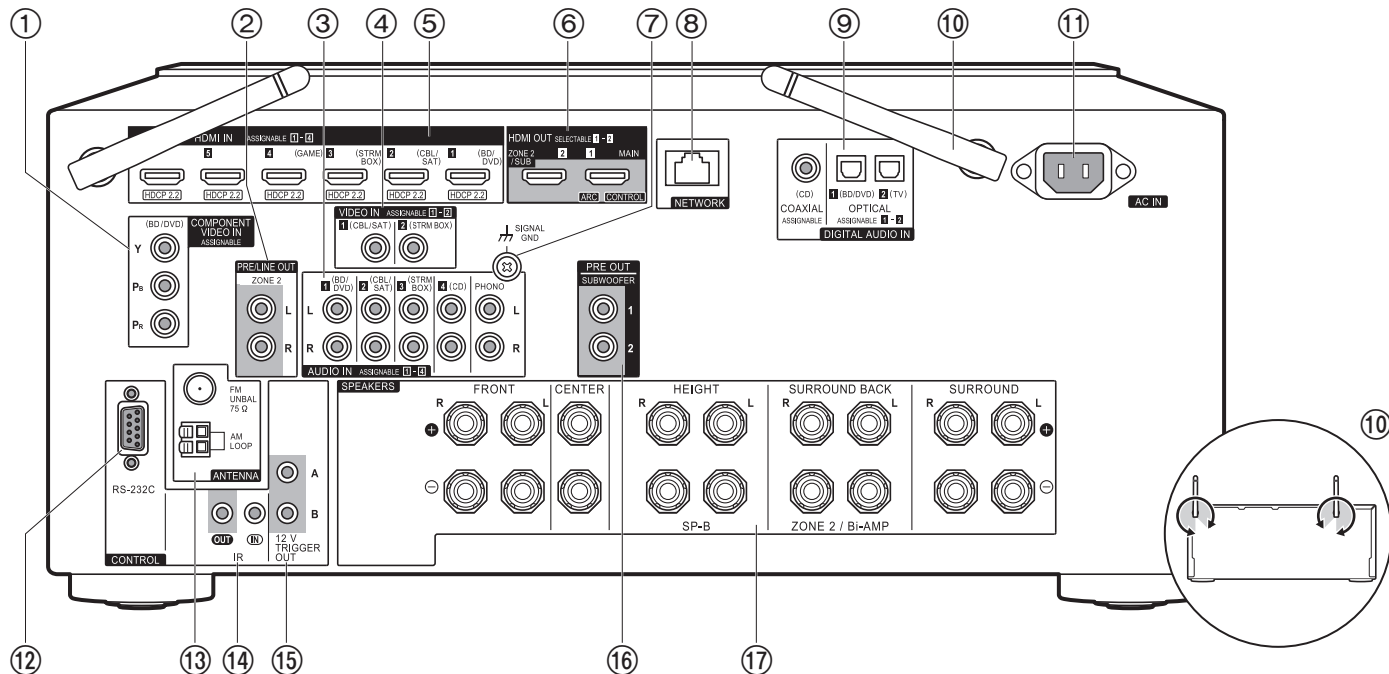


Display

1. This may light when performing operations with the "NET", "USB" input selector.
2. Lights in the following conditions.
 - Z2: When ZONE 2 is on.
 - : When connected by BLUETOOTH.
 - : When connected by Wi-Fi.
 - NET: When "NET" is selected with the input selector and the unit is connected to the network. It will flash if the connection to the network is not correct.
 - USB: When "USB" is selected with the input selector and the unit is connected by USB and the USB device is selected. Flashes if the USB is not properly connected.
 - HDMI: When HDMI signals are input and the HDMI input is selected.
 - DIGITAL: When digital signals are input and the digital input is selected.
3. Lights according to the type of input digital audio signals and the listening mode.
4. Lights in the following conditions.
 - RDS (European, Australian and Asian models): Receiving RDS broadcasting.
 - TUNED: Receiving AM/FM radio.
 - STEREO: Receiving FM stereo.
 - SLEEP: When the sleep timer is set. (*)
 - AUTO STBY: Auto Standby is on. (*)
5. The currently selected speaker system lights.
6. Lights when headphones are connected.
7. Flashes when muting is on.
8. Displays various information of the input signals. Characters that cannot be displayed on this unit are replaced with asterisks (*).

9. Lights when adjusting the volume.
10. Speaker/Channel display: Displays the output channel that corresponds to the selected listening mode.

(*You can find details in the Advanced Manual.



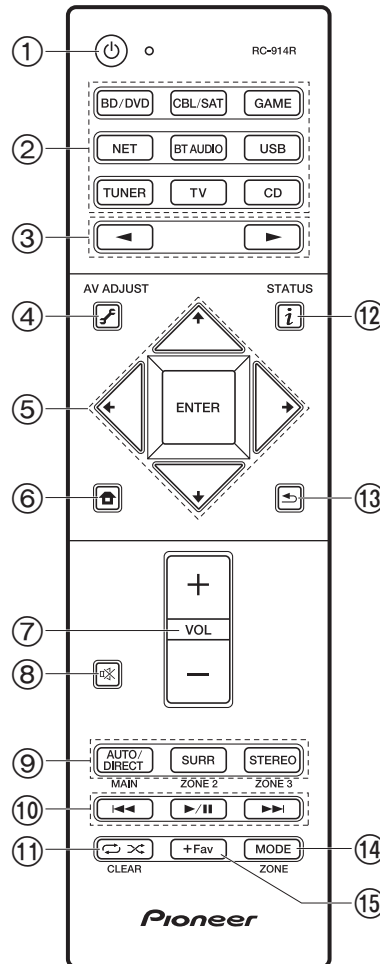
Rear Panel

1. COMPONENT VIDEO IN jacks: Input the AV component video signals with a component video cable. (Compatible only with 480i or 576i resolution.)
2. ZONE 2 PRE/LINE OUT jacks: Output audio signals with an analog audio cable to a pre-main amplifier or a power amplifier in a separate room (ZONE 2).
3. AUDIO IN jacks: Input AV component audio signal with an analog audio cable.
4. VIDEO IN jacks: Input the AV component video signals with an analog video cable.
5. HDMI IN jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.
6. HDMI OUT jacks: Transmit video signals and audio signals with a HDMI cable connected to a monitor such as a TV or projector.

7. SIGNAL GND terminal: The ground wire of the turntable is connected.
8. NETWORK port: Connect to the network with an Ethernet cable.
9. DIGITAL AUDIO IN OPTICAL/COAXIAL jacks: Input TV or AV component digital audio signals with a digital optical cable or digital coaxial cable.
10. Wireless antenna: Used upright for Wi-Fi connection or when using a BLUETOOTH enabled device. The diagram shows the movable range for the wireless antenna. Do not try to force it beyond this range otherwise you may break it.
11. AC IN: The supplied power cord is connected.
12. RS-232C port: For connection to the home control system. (*)
13. ANTENNA AM LOOP/FM UNBAL 75Ω terminal: The supplied antennas are connected.
14. IR IN/OUT port: Allows you to connect a multiroom remote control kit. (*)

(*)You can find details in the Advanced Manual.

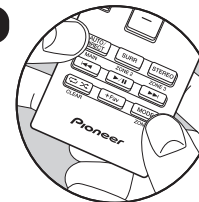
15. 12V TRIGGER OUT A/B jack: Allows you to connect a device with 12V trigger input jack to enable link operation between the device and the unit. (*)
16. SUBWOOFER PRE OUT jack: Connect a powered subwoofer with a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.
17. SPEAKERS terminals: Use a speaker cable to connect multichannel speakers for the main room and speakers for a separate room (ZONE 2). (North American models are compatible with banana plugs.)



Remote Controller

1. **⏻** STANDBY/ON button
2. Input selector buttons: Switches the input to be played.
3. **◀▶** buttons: Select the input to be played.
4. **⚙️** (AV ADJUST) button: Settings such as "Tone" and "Level" can be made quickly during play on the TV screen. "Other" has settings to switch the speakers given priority for output (P15) and to switch HDMI output (P17). Note that there is no display on the TV screen when the input selector is "CD", "TV", "PHONO", "AM", or "FM", so follow the display on the main unit while doing the operations. (*)
5. Cursor buttons and ENTER button: Select the item with the cursors and press ENTER to confirm your selection. When the folder or file lists are not shown on one screen on the TV, press **◀▶** to change the screen.
6. **🏠** button: Displays the Home. (*)
7. Volume buttons
8. **🔇** button: Temporarily mutes audio. Press again to cancel muting.
9. LISTENING MODE buttons: Allows you to select the listening mode (P34). (*)
 MAIN/ZONE 2 buttons: Controls the multi-zone function (P32). (The ZONE 3 button is not used with this unit.)
10. Play buttons: Used for play operations when playing Music Server or USB.
11. **🔄** **🎲** button: Used for repeat or random play operations when playing Music Server or USB. Each time you press the button, the mode switches from **1Q** (1-track repeat), to **📁** (folder repeat), to **🎲** (random).
 CLEAR button: Deletes all characters you have entered when entering text on the TV screen.
12. **i** (STATUS) button: Switches the information on the display and is used to operate RDS (P31).
13. **↶** button: Returns the display to the previous state.
14. MODE button: Switches tuning to an AM/FM station between automatic tuning and manual tuning (P30), and also used to control the multi-zone feature (P32).
15. +Fav button: Used to register AM/FM radio stations.

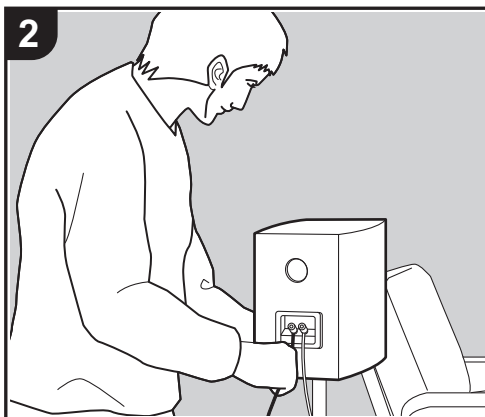
Tips



When the remote controller isn't working: The remote controller may have switched to the mode for controlling ZONE 2. While holding down MODE, press MAIN for 3 seconds or more until the remote indicator flashes once to switch it to the mode to control the main room.



Installation procedure



This unit can be used in a number of ways, depending on the layout of the speakers you are installing, and the connections made to external devices. Read the following to help make the installation process smoother.

Step1: Speaker Layout

Select the speaker layout that suits the types of speakers you have and the conditions they will be used in from the choices presented on pages P8 to P13, then install the speakers by referring to the illustrations and explanations on the relevant page. Speaker layouts include systems that use surround back speakers, systems that use height speakers, and systems that use Bi-Amping speakers. Also refer to the combinations available in "Speaker combinations" on P14.

Step2: Connect the Speakers

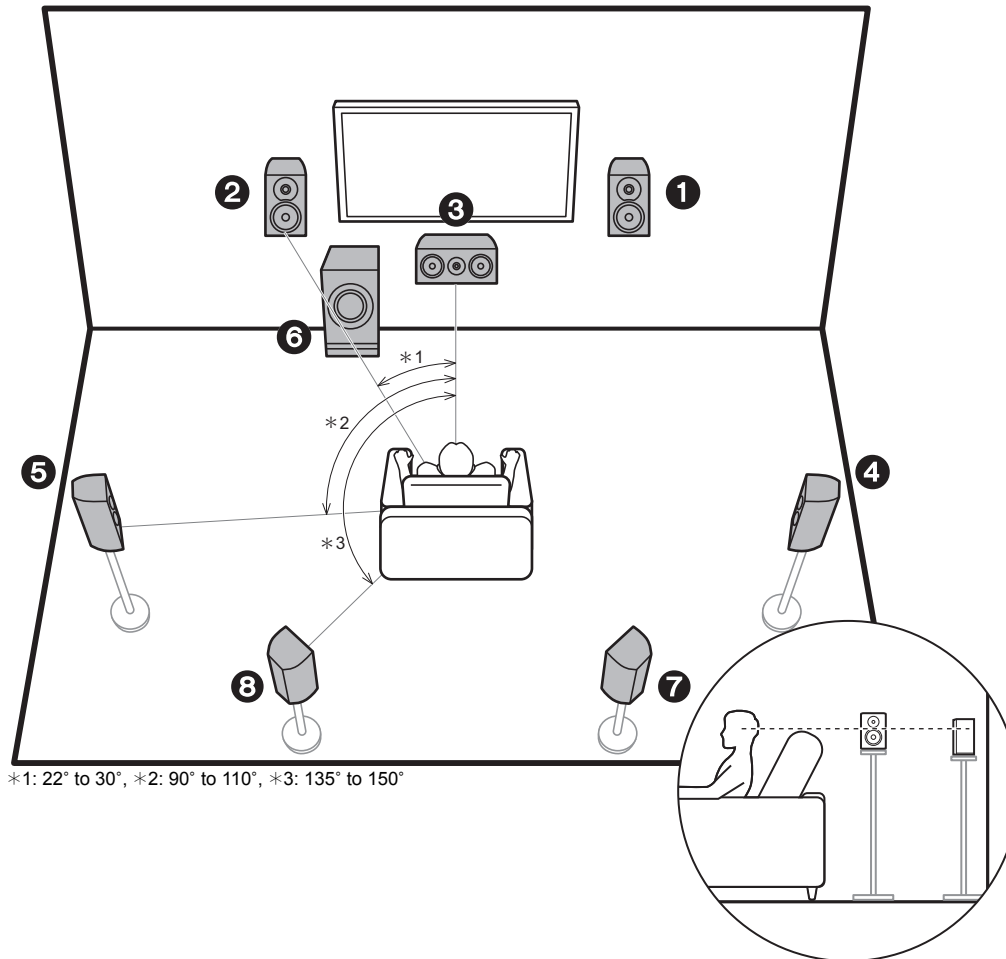
To connect the speaker systems to this unit, refer to P15 if you are using a speaker layout described on one of P8 to P12, and to P16 to use a speaker layout using Bi-Amping speakers described on P13. The connection process will be smoother if you refer to the illustrations and explanations and prepare the required cables before hand.

Step3: Connect the TV & AV Components

Refer to P17 to P24 to connect your external devices such as your TV, Blu-ray Disc Player, and also supplied accessories such as the antennas. Also, P21 to P23 introduces the Multi-zone Connection option that allows you to play video and audio into rooms other than the main room. The connection process will be smoother if you refer to the illustrations and explanations, confirm the connection types on the external devices, and prepare the required cables before hand.



Step1: Speaker Layout



*1: 22° to 30°, *2: 90° to 110°, *3: 135° to 150°

7.1 Channel System

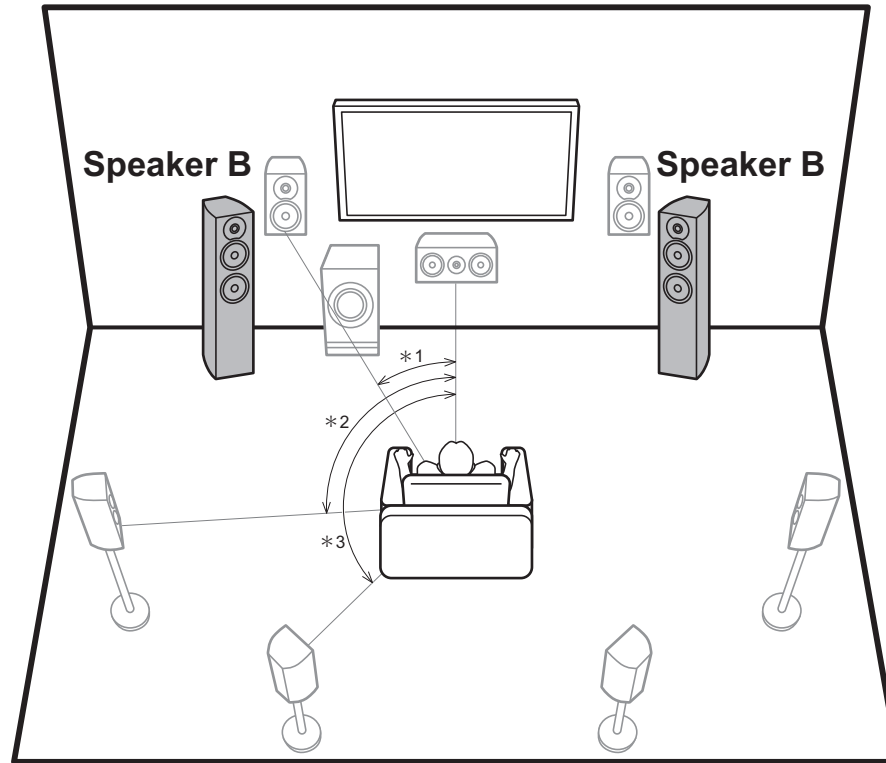
Front speakers output front stereo sound and a center speaker outputs center sound such as dialogs and vocals. Surround speakers create back sound field. Powered subwoofer reproduces bass sounds and creates rich sound field.

This basic 5.1 Channel System with surround back speakers added is called a 7.1 Channel System. The connection of surround back speakers improves the sense of envelopment and connectivity of sound created by the back sound field and provides a more real sound field. Furthermore, by installing surround back speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound, when the input format is Dolby Atmos.

The front speakers should be positioned at ear height, while the surround speakers should be positioned just above ear height. Center speaker should be set up facing the listening position. Placing the powered subwoofer between the center speaker and a front speaker gives you a natural sound even when playing music. The optimal positioning is for surround back speakers to be at ear height.

- If you are including surround back speakers in the setup, surround speakers are required.
- "Speaker combinations" (P14) introduces some detailed examples of speaker combinations.

- 1,2 Front Speakers
- 3 Center Speaker
- 4,5 Surround Speakers
- 6 Powered Subwoofer
- 7,8 Surround Back Speakers

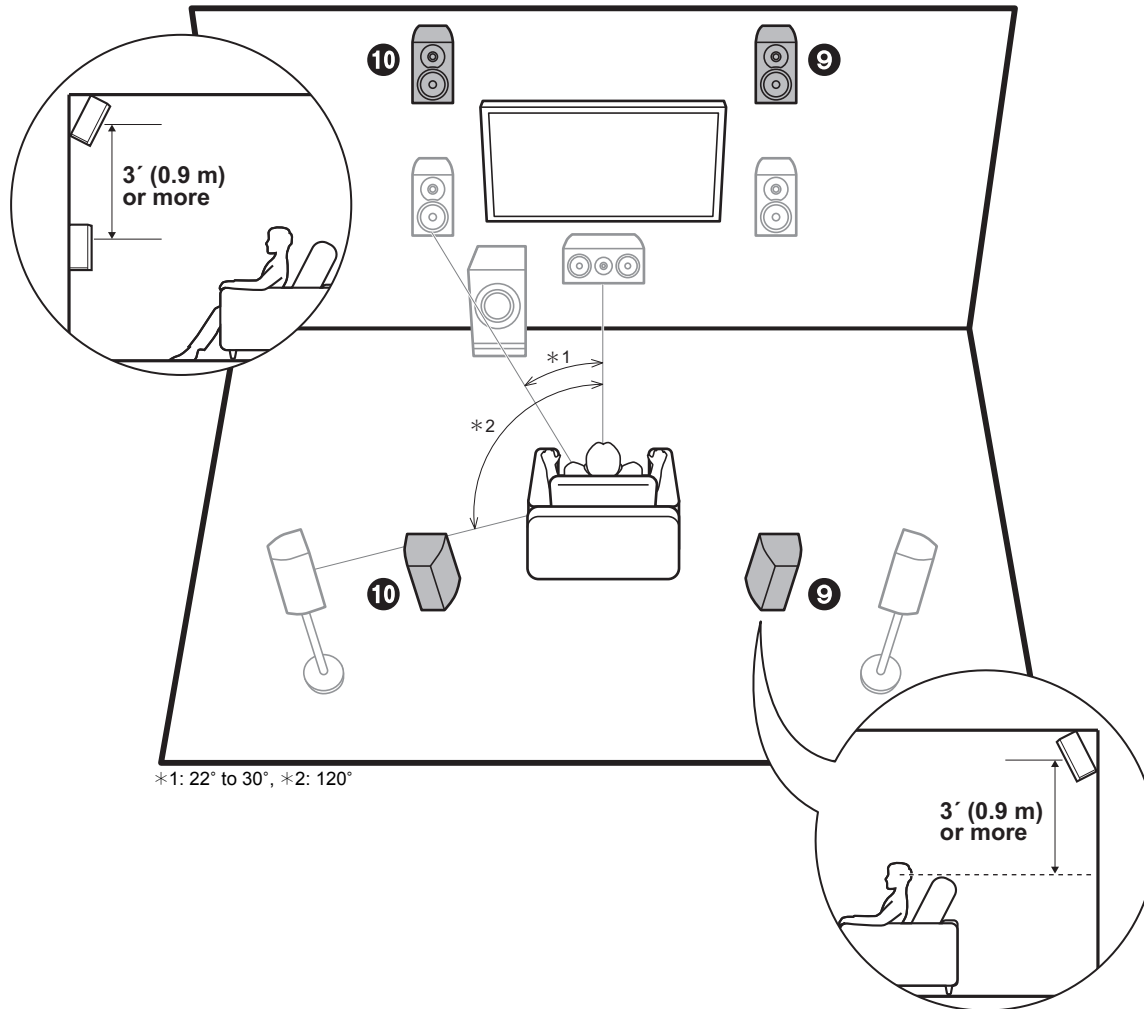


*1: 22° to 30°, *2: 90° to 110°, *3: 135° to 150°

Speaker B System

With a 7.1 channel system (P8), you can connect one more set of front speakers to use as a Speaker B System. In this state, the 7.1 channel system becomes the Speaker A System and you can switch the same audio to output from A, B, or A+B. Press on the remote control (P6) and use "Other" - "Speakers" to switch. Note that no sound is played from the surround back speakers when playing from A+B.

- "Speaker combinations" (P14) introduces some detailed examples of speaker combinations.



5.1.2 Channel System-1 (Front High Speakers/Rear High Speakers)

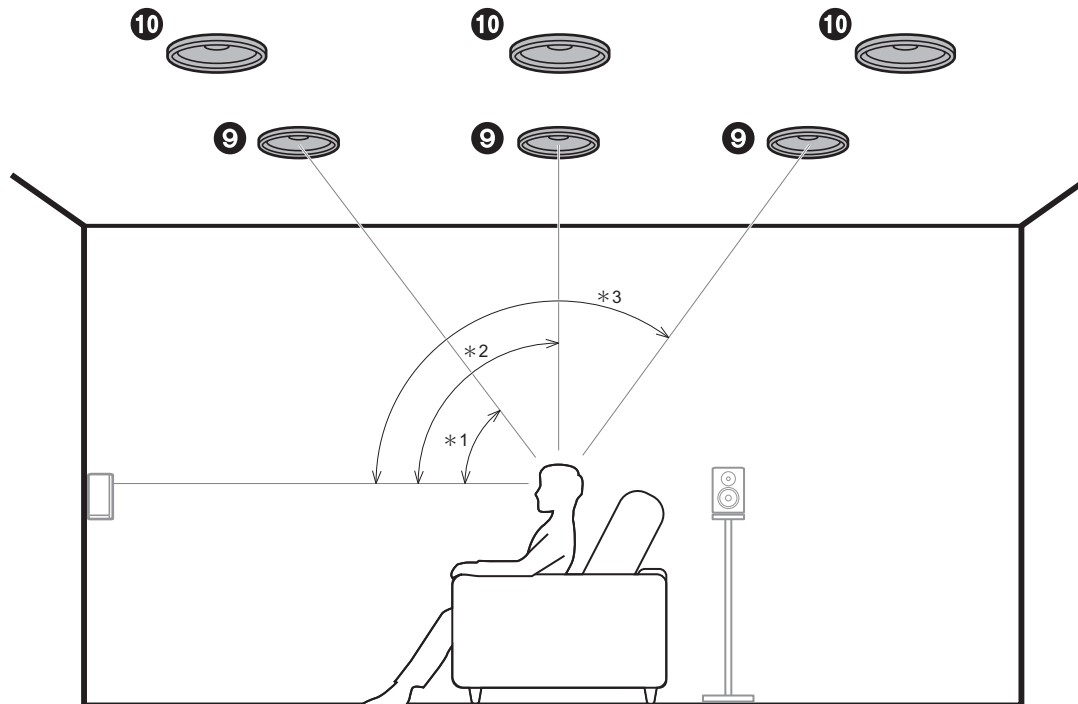
This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of front height speakers or rear height speakers, which are both types of height speakers. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos. Front high speakers or rear high speakers should be situated at least 3' / 0.9 m higher than the front speakers. Front high speakers should be situated directly above the front speakers and the distance between the rear high speakers should match the distance between the front speakers. Both should be set up facing the listening position.

- "Speaker combinations" (P14) introduces some detailed examples of speaker combinations.

9,10 Height Speakers

Choose one of the following:

- Front High Speakers
- Rear High Speakers



*1: 30° to 55°, *2: 65° to 100°, *3: 125° to 150°

5.1.2 Channel System-2 (Ceiling Speakers)

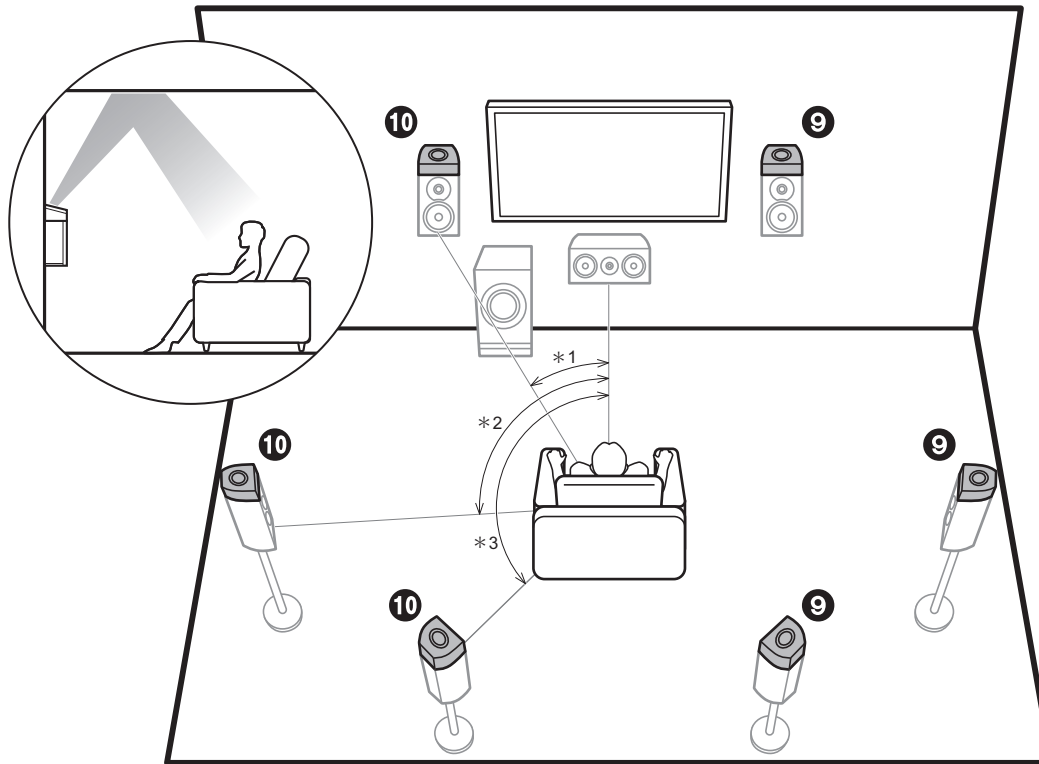
This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of top front speakers, top middle speakers, or top rear speakers, which are types of height speakers. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos. Fit top front speakers on the ceiling forward of the seating position, top middle speakers on the ceiling directly above the seating position, and top rear speakers on the ceiling behind the seating position. The distance between each pair should match the distance between the two front speakers.

- Dolby Laboratories recommends placing this type of height speakers to obtain the best Dolby Atmos effect.
- "Speaker combinations" (P14) introduces some detailed examples of speaker combinations.

9,10 Height Speakers

Choose one of the following:

- Top Front Speakers
- Top Middle Speakers
- Top Rear Speakers



*1: 22° to 30°, *2: 90° to 120°, *3: 135° to 150°

5.1.2 Channel System-3

(Dolby Enabled Speakers (Dolby Speakers))

This is a basic 5.1 channel system consisting of front speakers, a center speaker, surround speakers, and a powered subwoofer, with the addition of Dolby enabled speakers (front), Dolby enabled speakers (surround) or Dolby enabled speakers (surround back) which are both types of height speakers. Dolby enabled speakers are special speakers designed to face the ceiling so that sound is heard after bouncing off the ceiling so that sound appears to be coming from overhead. By installing height speakers, you can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D sound including overhead sounds, when the input format is Dolby Atmos.

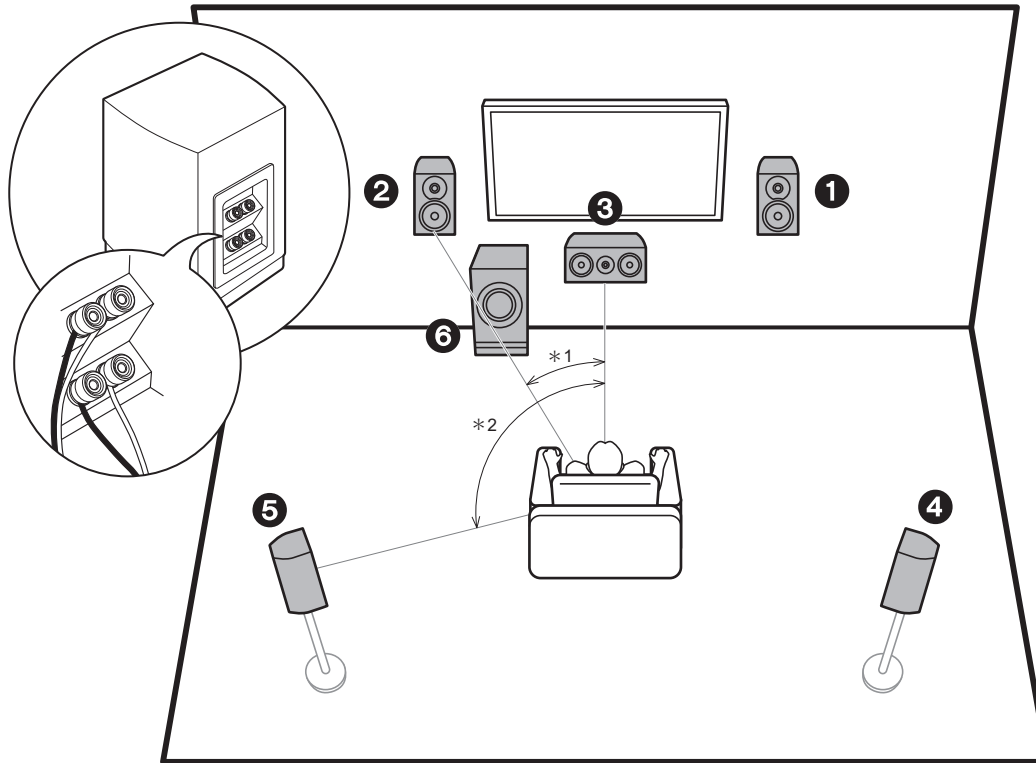
Place them either above the front speakers, above the surround speakers or above surround back speakers.

- You can connect both surround back speakers and height speakers. However, you can only output audio from one of these at a time. See "Speaker combinations" (P14) for details.

9,10 Height Speakers

Choose one of the following:

- Dolby Enabled Speakers (Front)
- Dolby Enabled Speakers (Surround)
- Dolby Enabled Speakers (Surround Back)



*1: 22° to 30°, *2: 120°

Bi-Amping the Speakers

With a 5.1 channel system, it is possible to connect front speakers that support Bi-Amping to improve the quality of the bass and treble. Bi-Amping compatible speakers need their terminals for the tweeters connected to one amplifier and their terminals for woofers connected to another amplifier, so it is not possible to connect height speakers and surround back speakers with this connection. Other than front speakers, you can also connect a center speaker, surround speakers, and a powered subwoofer.

- "Speaker combinations" (P14) introduces some detailed examples of speaker combinations.

- 1,2 Front Speakers (Bi-Amping)
- 3 Center Speaker
- 4,5 Surround Speakers
- 6 Powered Subwoofer



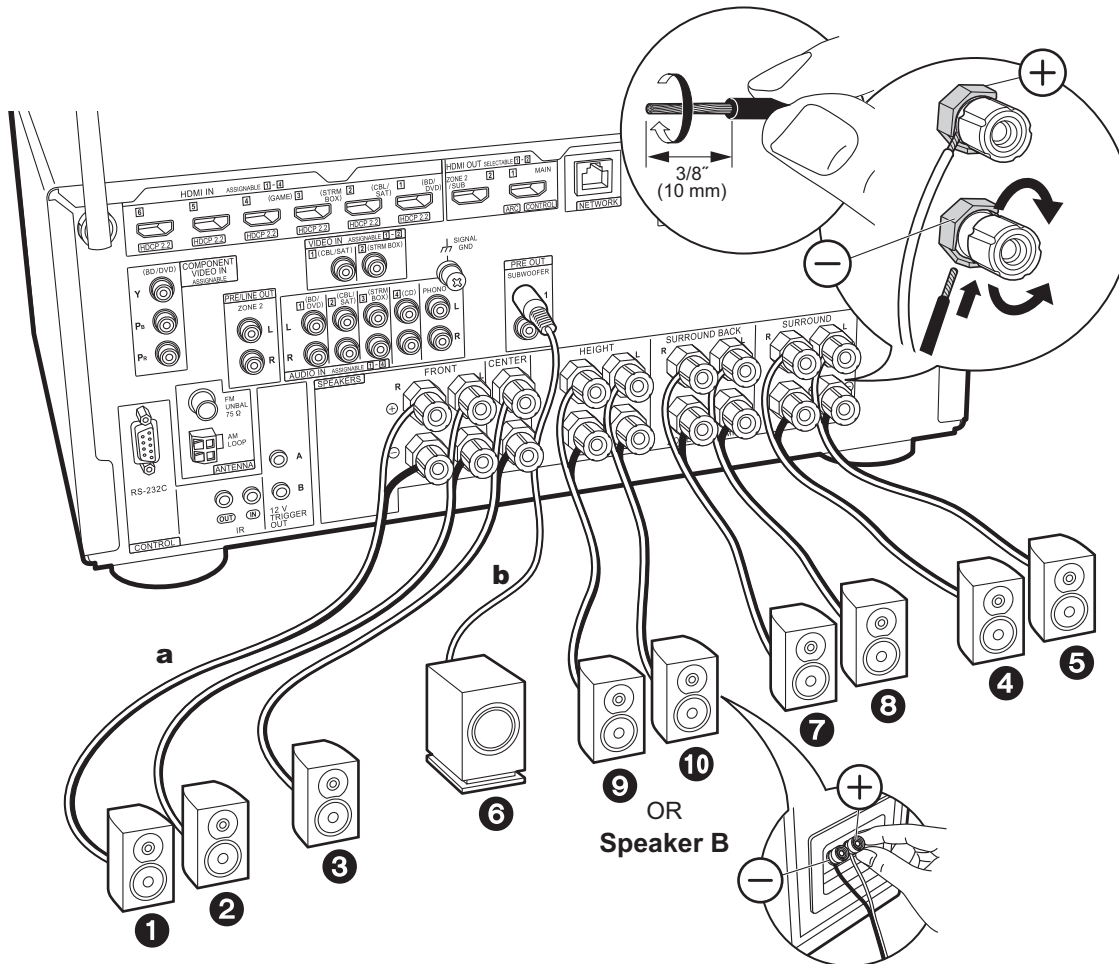
Speaker combinations

- In any of the combinations, up to two powered subwoofers can be connected.

Speaker Channels	FRONT	CENTER	SURROUND	SURROUND BACK	HEIGHT	SP B (Speaker B)	Bi-AMP	ZONE 2 (ZONE SPEAKER) (P23)
2.1 ch	✓					✓ (*1)	✓ (*1)	✓ (*1)
3.1 ch	✓	✓				✓ (*1)	✓ (*1)	✓ (*1)
4.1 ch	✓		✓			✓ (*1)	✓ (*1)	✓ (*1)
5.1 ch	✓	✓	✓			✓ (*1)	✓ (*1)	✓ (*1)
6.1 ch	✓		✓	✓ (*2)		✓		
7.1 ch	✓	✓	✓	✓ (*2)		✓		
2.1.2 ch	✓				✓ (*3)			✓
3.1.2 ch	✓	✓			✓ (*3)			✓
4.1.2 ch	✓		✓		✓ (*3)			✓
5.1.2 ch	✓	✓	✓		✓ (*3)			✓
6.1.2 ch	✓		✓	✓ (*4)	✓ (*4)			
7.1.2 ch	✓	✓	✓	✓ (*4)	✓ (*4)			

- (*1) You can select one of Speaker B, Bi-AMP, or ZONE SPEAKER.
 (*2) When using Speakers B, no sound is played from the surround back speakers when playing from A+B.
 (*3) No sound is played from the height speakers when playing audio from ZONE SPEAKER.
 (*4) You can connect both surround back speakers and height speakers. However, you can only output audio from one of these at a time. When both are connected, you can set which speakers to prioritize.
- Press on the remote control (P6) and use "Other" - "Speakers" to switch speakers A and B and to switch between surround back speakers and height speakers.

Step2: Connect the Speakers



a Speaker Cable, **b** Subwoofer Cable

Standard Connections (Pages 8 to 12)

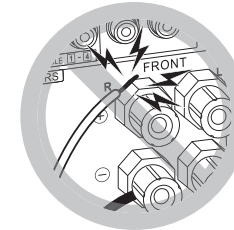
Connect **12345678** for a 7.1 channel system.
 Connect **123456910** for a 5.1.2 channel system. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.

- You can also connect both **78** and **910**. However, you can only output audio from one of these at a time. When both are connected, you can switch which speakers to prioritize. Press on the remote control (P6) and use "Other" - "Speakers" to switch between surround back speakers and height speakers and to switch speakers A and B.

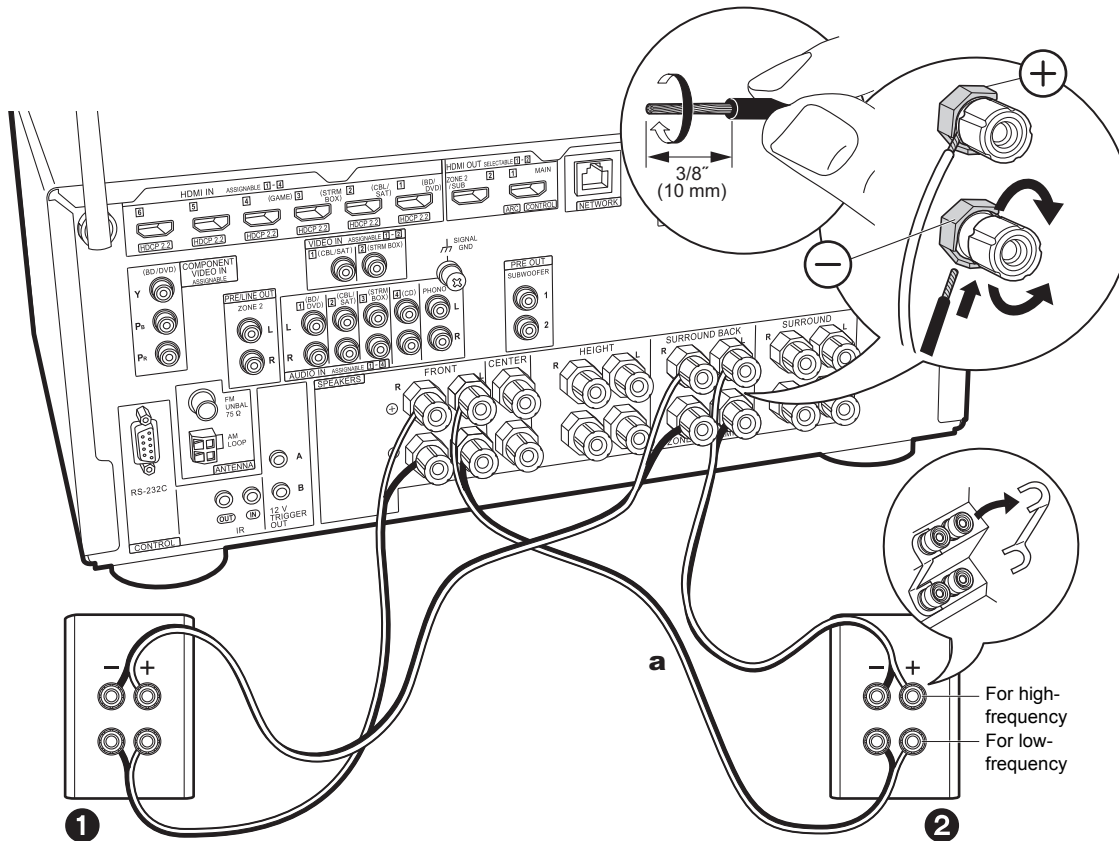


Setup

- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" in Initial Setup (P26).



Make sure the exposed speaker cables do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and - wires touch each other, the protection circuit will be activated.



a Speaker Cable

Connecting with Bi-Amping Speakers (Page 13)

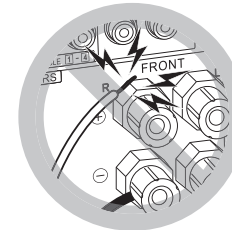
Make sure you remove the jumper bar fitted between the woofer jacks and tweeter jacks of the front speakers. Refer to "Standard Connections (Pages 8 to 12)" (P15) to connect the center speaker, surround speakers, and powered subwoofer.

- Also refer to the instruction manual for your speakers when using connections for Bi-Amping.



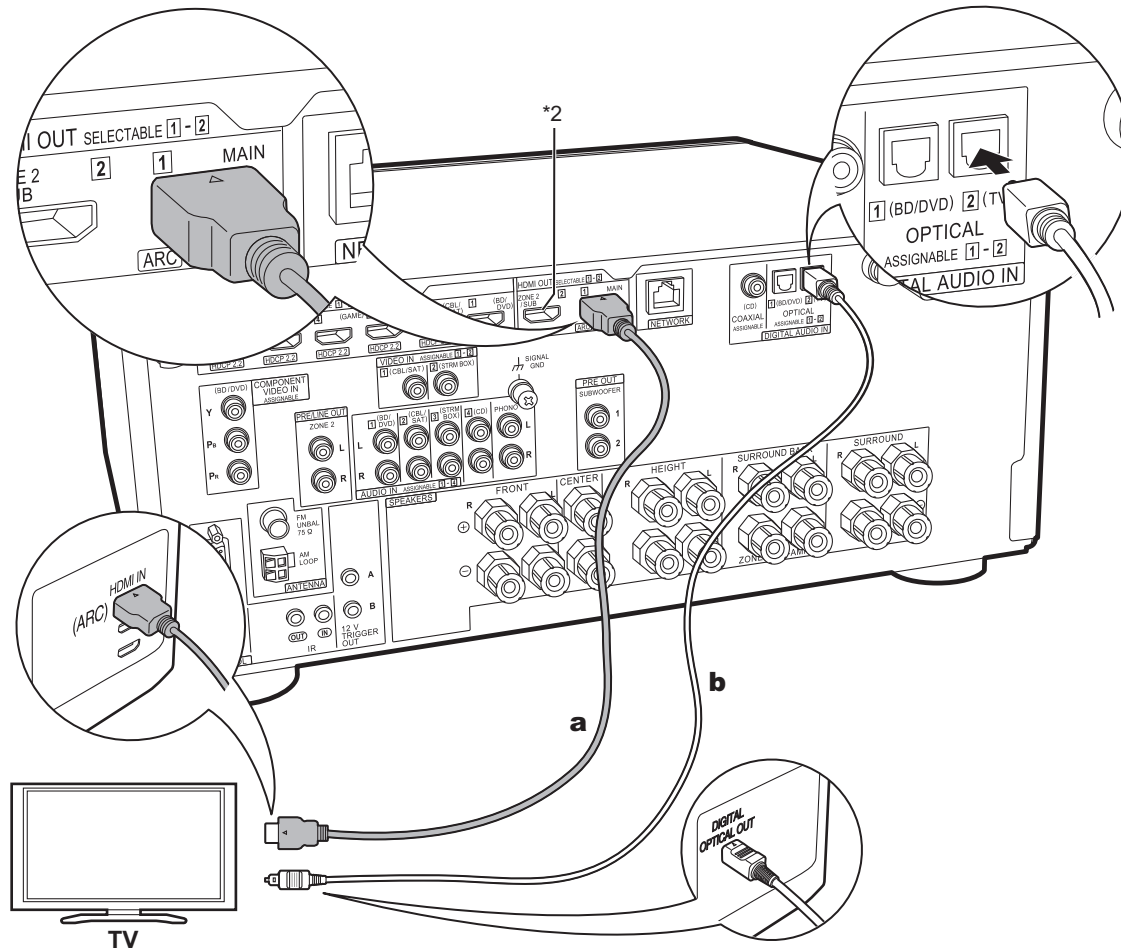
Setup

- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" in Initial Setup (P26).



Make sure the exposed speaker cables do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and - wires touch each other, the protection circuit will be activated.

Step3: Connect the TV & AV Components



a HDMI Cable, **b** Digital Optical Cable

1. Connect the TV

To ARC TV

For a TV that supports the ARC (Audio Return Channel) feature (*1), use an HDMI cable and connect according to illustration "a". Choose an HDMI IN jack on the TV that supports ARC when connecting.



Setup

- Settings are required to use the ARC function. Select "Yes" in "5. Audio Return Channel" (P26) in the Initial Setup.
- Refer to the instruction manual for the TV for TV connections and instructions regarding settings for CEC features and audio output.

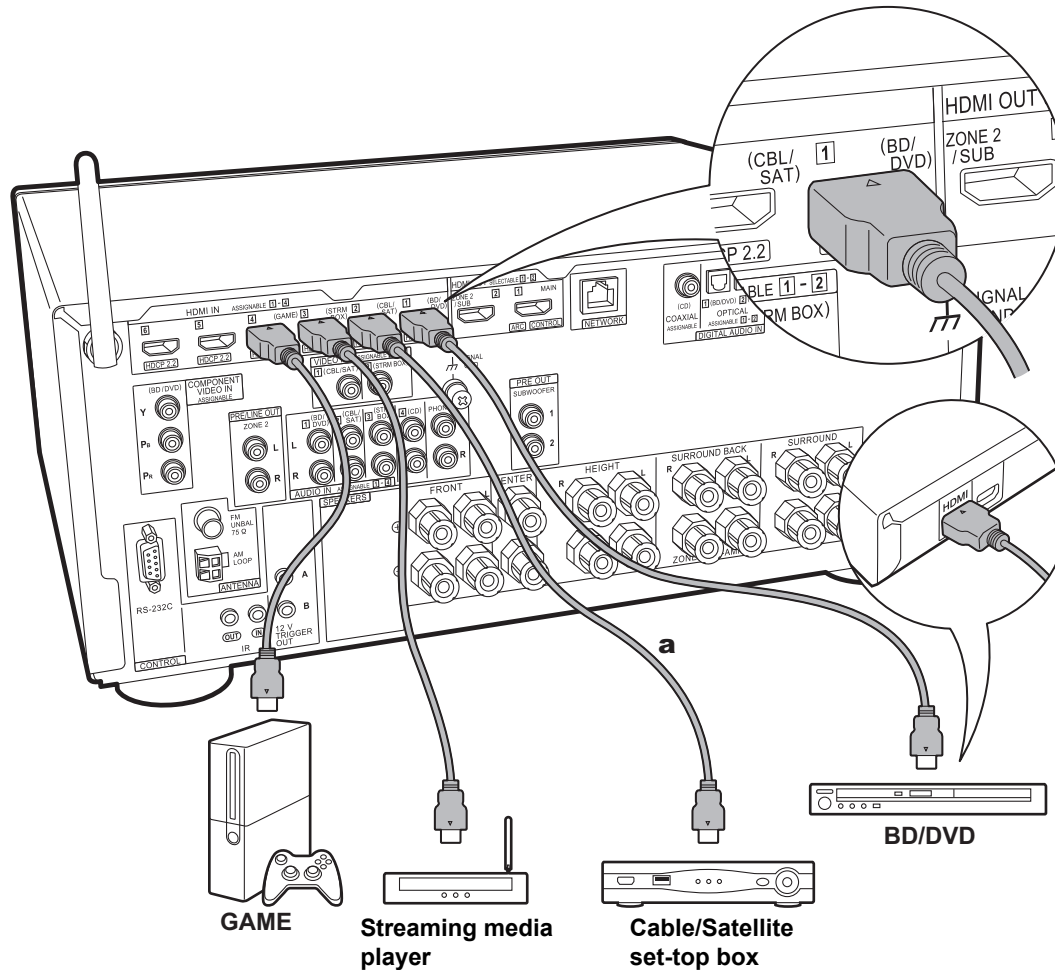
To Non-ARC TV

For a TV that does not support the ARC (Audio Return Channel) feature (*1), connect both the HDMI cable in illustration "a" and the digital optical cable in "b".

- Connection with a digital optical cable is not necessary if you will watch TV through a device such as a cable set-top box (that is, not use a tuner built into the TV) that you have connected to the input jack on this unit.

(*1) The ARC feature: This feature transfers TV audio signals via HDMI cable so that you can play the audio from the TV through this unit. Connection to an ARC compatible TV is complete with one HDMI cable. Refer to the instruction manual for your TV to see if it supports ARC.

(*2) Another TV or projector can be connected to the HDMI OUT SUB jack. Press **F** (P6) on the remote control and use "Other" - "HDMI Out" to switch between MAIN and SUB. Note that this jack does not support ARC.



a HDMI Cable

2. Connect the HDMI AV Component

This is an example of connection with an AV component that has an HDMI jack. With connection to an AV component that conforms with the CEC (Consumer Electronics Control) standard, you can use features such as the HDMI CEC feature (*) that links with the input selector, and the HDMI Standby Through feature which allows you to play video and audio from AV components on the TV even when this unit is in standby mode.

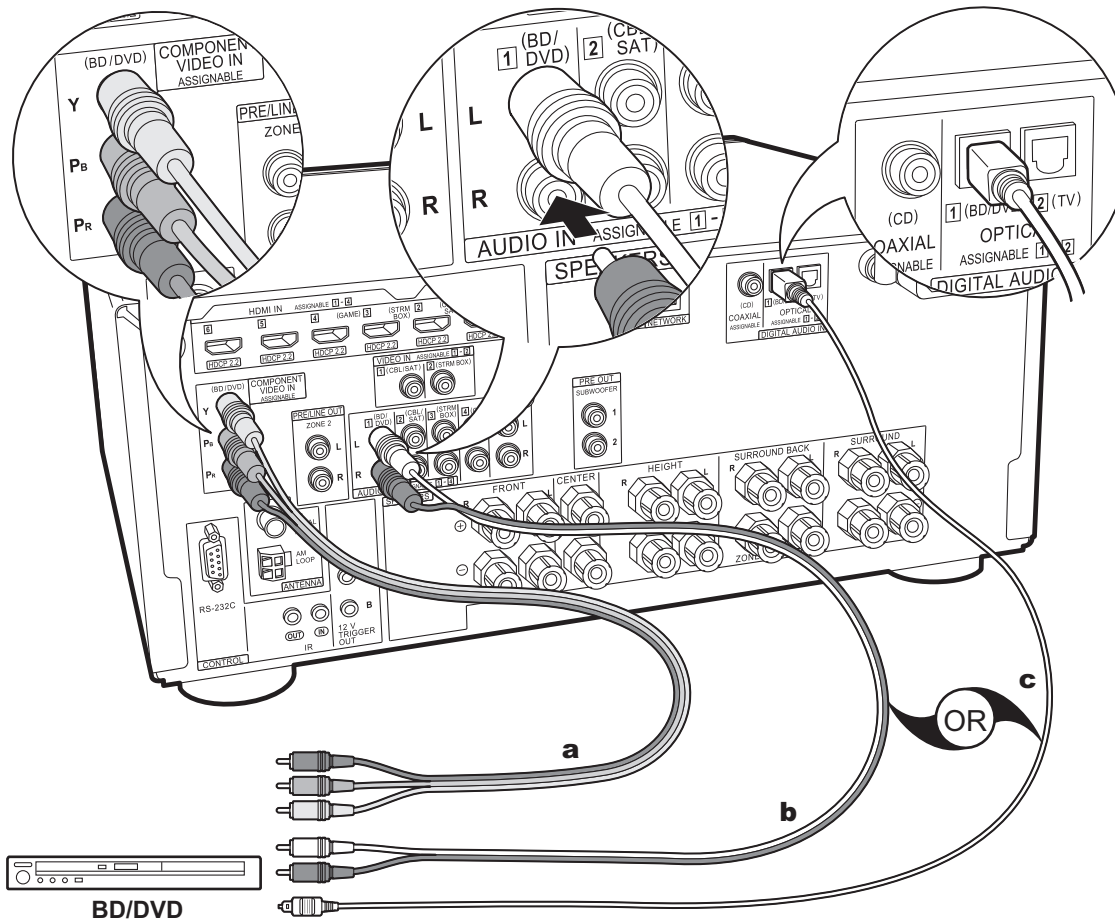
- To play 4K or 1080p video, use a high speed HDMI cable.



Setup

- When "Yes" is selected for "5. Audio Return Channel" in Initial Setup (P26), the HDMI CEC function and HDMI Standby Through function are automatically enabled. If "No, Skip" is selected, settings are required in the System Setup menu after Initial Setup is complete. Settings are made in "System Setup" - "Hardware" - "HDMI" in Home displayed by pressing on the remote controller.
- To enjoy digital surround sound including Dolby Digital, audio output should be set to Bitstream output on the connected Blu-ray Disc player or other device.

(*)The HDMI CEC feature: You can control features such as linking input switching with the input selector and players conforming to the CEC standard, switching audio to output it from the TV or from this unit, and adjusting the volume using the remote controller of a CEC-compliant TV, and automatically switching this unit to standby when the TV is turned off.



a Component Video Cable, **b** Analog Audio Cable, **c** Digital Optical Cable

3. Connect the Non-HDMI AV Component

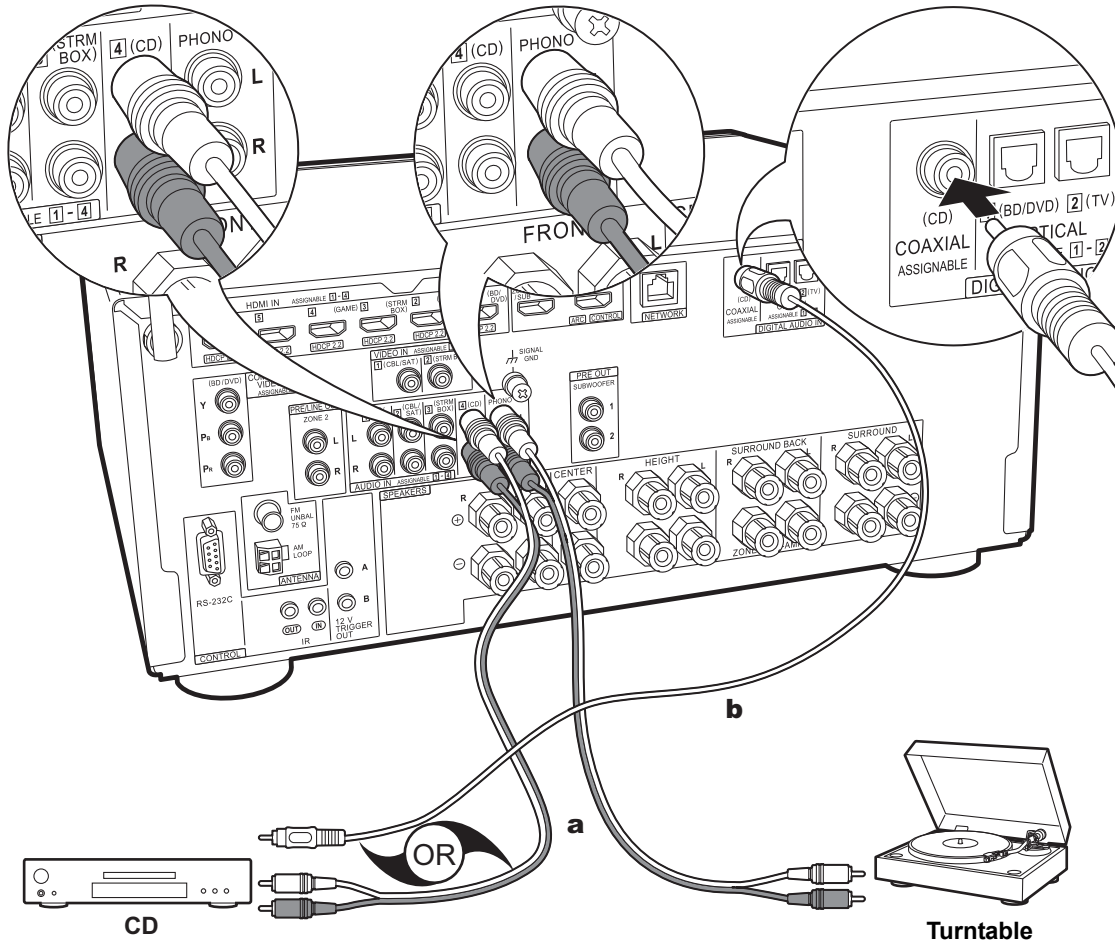
This is an example of connection with an AV component that does not have an HDMI jack. Make the connections to the AV component to match the jacks it has. When video input connection is to the BD/DVD jack, the audio input connection should also be to the BD/DVD jacks, and so on, so that you connect the video input jacks to the jacks with the same name as the audio input jacks.

Note that video signals input to the VIDEO IN jack or the COMPONENT VIDEO IN jack will be converted to HDMI video signals and then output from the HDMI OUT jack.

- To enjoy digital surround playback in formats such as Dolby Digital, you need to make a connection for audio signals with a digital coaxial cable or a digital optical cable.
- It is possible to change assignment of the input jacks you see in the illustration at left, so you can also connect to any jack other than BD/DVD. For details, see the Advanced Manual.

Setup

- The COMPONENT VIDEO IN jacks are compatible only with 480i or 576i resolution. When you connect to the COMPONENT VIDEO IN jacks, set the output resolution of the player to 480i or 576i. Select interlace if there is no option for 480i or 576i, etc. If your player does not support 480i or 576i output, use the VIDEO IN jack.
- To enjoy digital surround sound including Dolby Digital, audio output should be set to Bitstream output on the connected Blu-ray Disc player or other device.

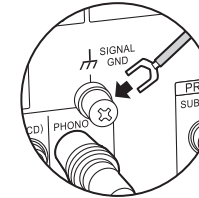


a Analog Audio Cable, **b** Digital Coaxial Cable

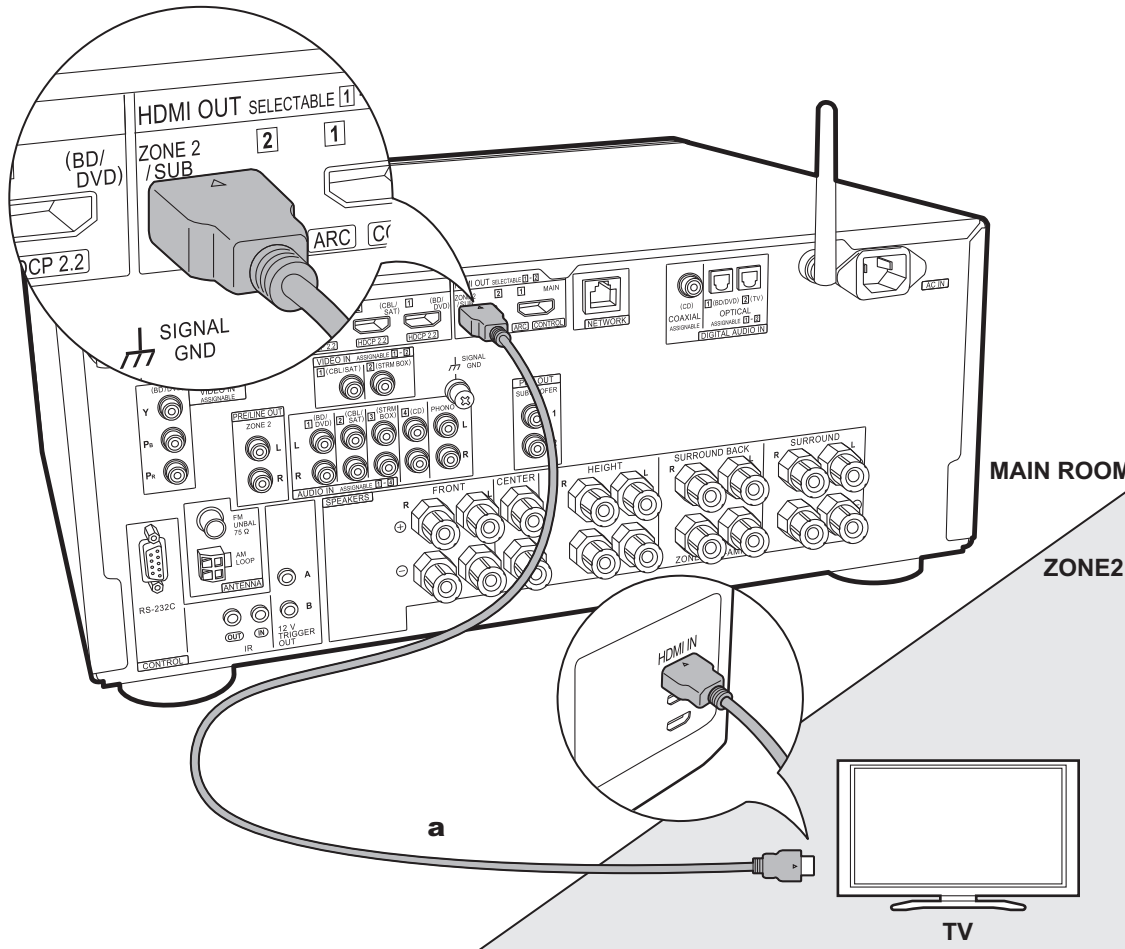
4. Connect the Audio Component

Example of a connection with an audio component. Connect a CD player using a digital coaxial cable or an analog audio cable. You can also connect a turntable that has an MM-type cartridge to the PHONO jack.

- If the turntable has a built-in audio equalizer, connect it to an AUDIO IN jack other than the PHONO jack. Further, if the turntable uses an MC type cartridge, install an audio equalizer compatible with the MC type cartridge between the unit and the turntable, then connect to any AUDIO IN jack other than the PHONO jack.



If the turntable has a ground wire, connect it to the SIGNAL GND terminal of this unit.



a HDMI Cable

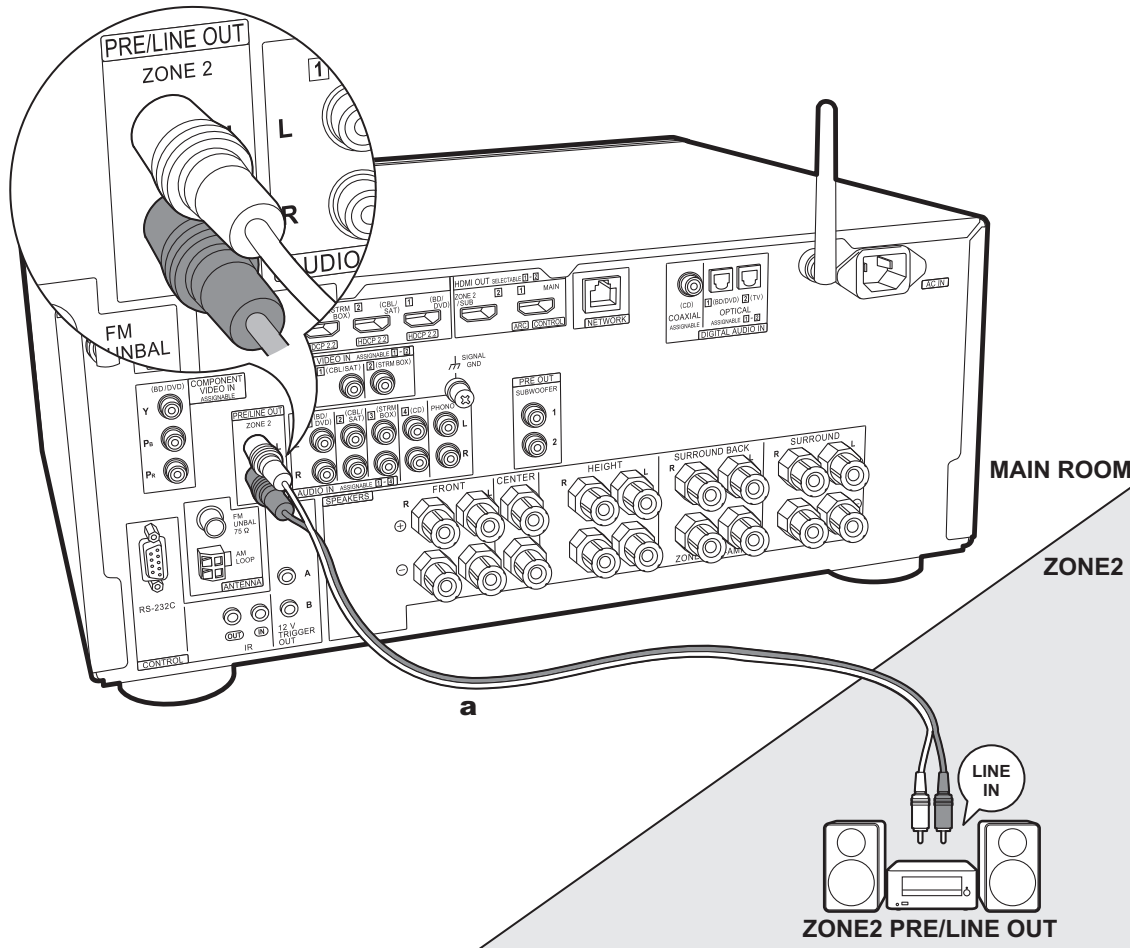
5. Multi-zone Connection-1 (ZONE 2 TV)

You can enjoy content from a Blu-ray Disc player on a TV equipped with an HDMI input jack in the separate room (ZONE 2) by playing a Blu-ray Disc player in the main room (where this unit is located), or play the content from another AV component. Only the video from devices connected to the HDMI IN1 to IN3 jacks can be played on the TV in the separate room.



Setup

- Settings are required in Initial Setup, "4. Multi Zone Setup" (P26) to enjoy this feature.
- The audio from externally connected AV components can only be output when the signal is 2ch PCM audio. It may also be necessary to convert the audio output of the AV component to PCM output.



a Analog Audio Cable

6. Multi-zone Connection-2 (ZONE 2 PRE/ LINE OUT)

You can enjoy 2ch audio in the separate room through speakers connected to a pre-main amplifier or power amplifier by, for example, playing a Blu-ray Disc player in 7.1ch in the main room (where this unit is located) and listening to internet radio in the separate room (ZONE 2). Connect the ZONE 2 PRE/LINE OUT jacks of the unit and the LINE IN jacks of the pre-main amplifier or power amplifier in a separate room with an analog audio cable.

- DSD and Dolby TrueHD audio signals are not output to ZONE 2 when selected with the "NET" or "USB" input selector.

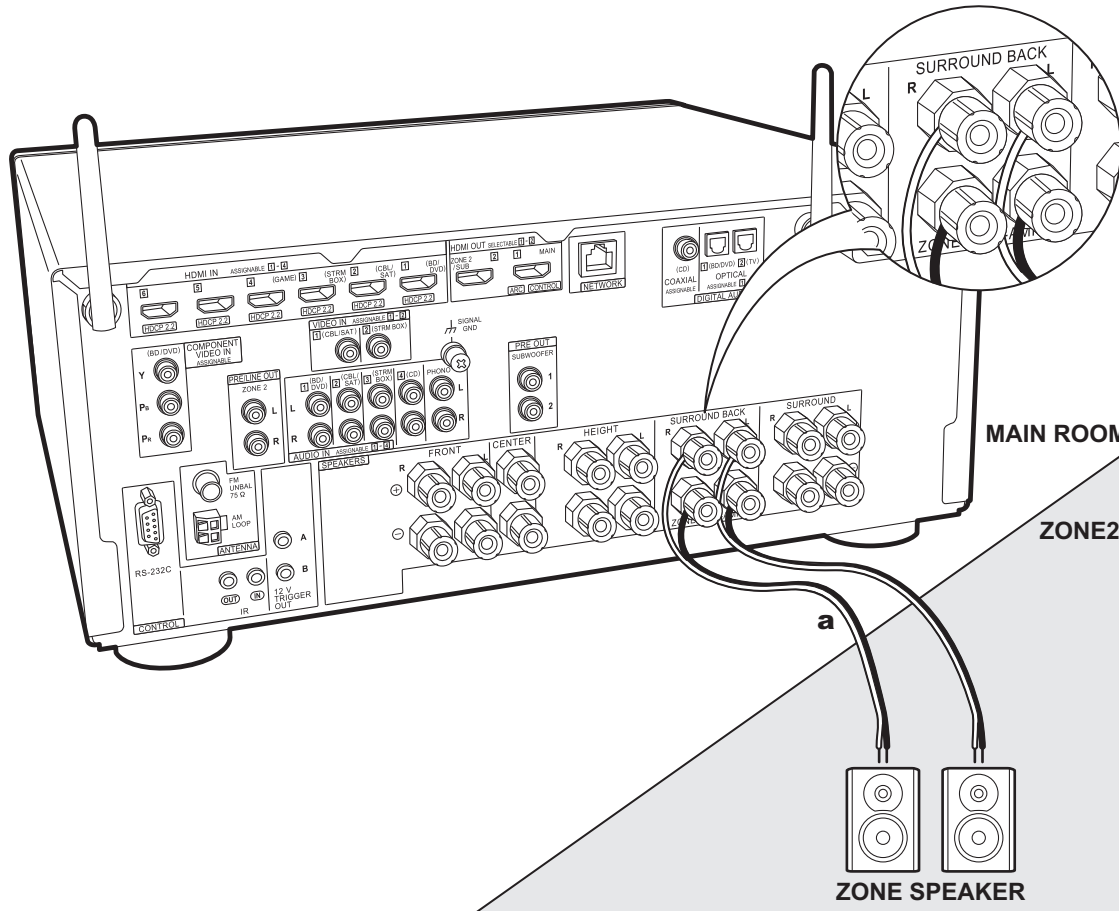
Connections with an AV component

Connect with HDMI IN 1 to 3 if you want to output an external AV component to ZONE 2. If the AV component doesn't have an HDMI jack, connect using a digital optical cable, digital coaxial cable, or analog audio cable. If any of these are already used, you do not have to connect using any of the others.



Setup

- Settings are required in Initial Setup, "4. Multi Zone Setup" (P26) to enjoy this feature.
- The audio from externally connected AV components can only be output when the audio is analog or 2ch PCM audio signals. If you have connected to this unit with an HDMI cable or digital optical/coaxial cable, may be necessary to convert the audio output of the AV component to PCM output.



a Speaker Cable

7. Multi-zone Connection-3 (ZONE SPEAKER)

You can enjoy 2ch audio in the separate room by, for example, playing a Blu-ray Disc player in the main room (where this unit is located) and listening to internet radio through the speakers in the separate room (ZONE 2).

- You cannot use ZONE SPEAKER if you have connected the front speakers using Bi-Amping connection or if you have connected a Speaker B System.
- No sound is played from the height speakers when playing audio from ZONE SPEAKER.
- DSD and Dolby TrueHD audio signals are not output to ZONE 2 when selected with the "NET" or "USB" input selector.

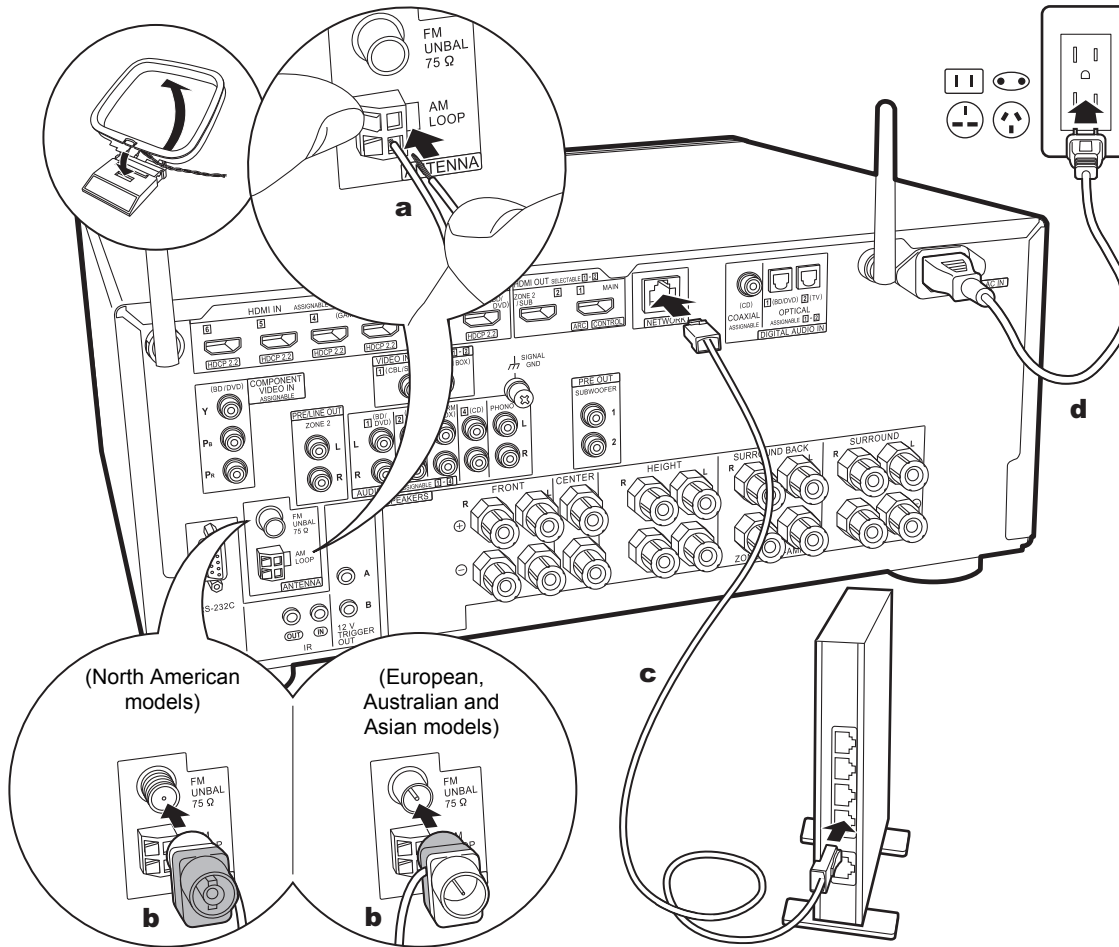
Connections with an AV component

Connect with HDMI IN 1 to 3 if you want to output an external AV component to ZONE 2. If the AV component doesn't have an HDMI jack, connect using a digital optical cable, digital coaxial cable, or analog audio cable. If any of these are already used, you do not have to connect using any of the others.



Setup

- Settings are required in Initial Setup, "4. Multi Zone Setup" (P26) to enjoy this feature.
- The audio from externally connected AV components can only be output when the audio is analog or 2ch PCM audio signals. If you have connected to this unit with an HDMI cable or digital optical/coaxial cable, may be necessary to convert the audio output of the AV component to PCM output.



a AM loop antenna, **b** Indoor FM antenna, **c** Ethernet Cable, **d** Power Cord

8. Connect Other Cables

Antenna Hookup

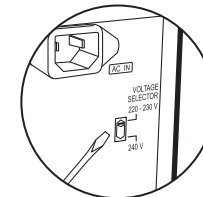
Move the antenna around while playing the radio to find the position with the best reception. Use a thumb tack or similar to attach the indoor FM antenna to a wall.

Network Hookup

Connect this unit to the network using wired LAN or Wi-Fi (wireless LAN). You can enjoy network features such as internet radio by connecting the unit to the network. If you connect by wired LAN, connect with an Ethernet cable to the NETWORK port as shown in the illustration. To connect by Wi-Fi, then after selecting "Wireless" in "3. Network Connection" (P26) in Initial Setup, select the desired setting method and follow the onscreen instructions to configure the connection.

Power Cord Hookup

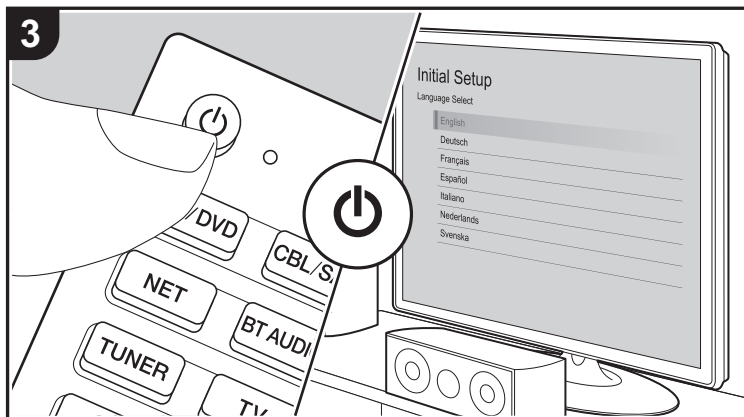
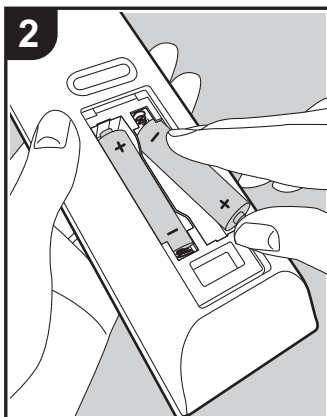
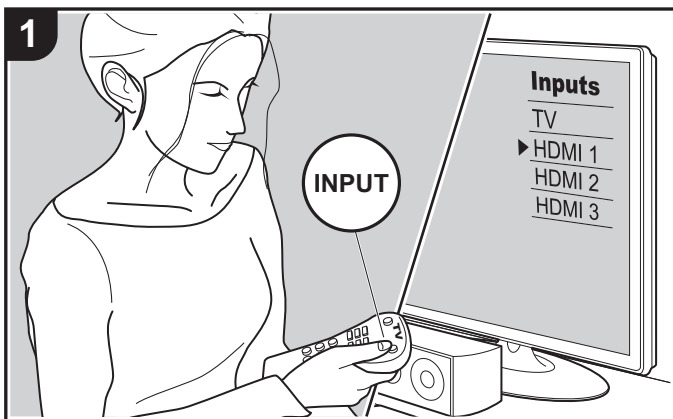
This unit includes a removable power cord. Connect the power cord to the power outlet after completing all other connections. Connect the power cord to AC IN of the unit and then connect to the outlet. Always disconnect the outlet side first when disconnecting the power cord.



You can find the voltage selector switch on the rear panel of multi-voltage models. **Please set it to the correct voltage for your country or region.**

Before changing the voltage, disconnect the power cord. Use a medium size screwdriver to change the voltage switch.

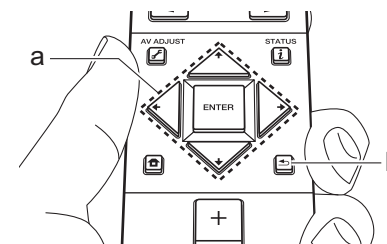
Initial Setup with Auto Start-up Wizard



Initial Setup Starts Automatically

When you turn the unit on for the first time after purchasing it, Initial Setup is automatically shown on the TV to enable you to make settings required for startup using simple operations following onscreen guidance.

1. Switch the input on the TV to that assigned to the unit.
2. Put batteries into the remote controller of this unit.
3. Press on the remote controller to turn the unit on.
4. Select the item with the cursors of the remote controller and press ENTER (a) to confirm your selection. To return to the previous screen, press (b).



- If you terminate the procedure on the way or want to change a setting made during Initial Setup, press on the remote controller, and from the Home select "System Setup" - "Miscellaneous" - "Initial Setup", and press ENTER.
- While setting up the network, screens asking you to accept the Onkyo Group privacy policy and agree to the privacy policies required to use the Chromecast built-in feature are displayed. Select "Accept" and press ENTER to indicate agreement. For information on the settings required to use the Chromecast built-in feature and the operations to play it, refer to the included Chromecast built-in instruction sheet.

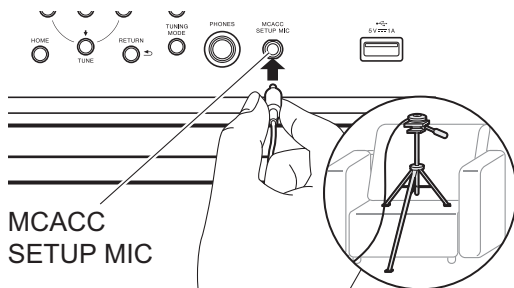


■ 1. Full Auto MCACC

Place the supplied speaker setup microphone in the listening position, measure the test tones emitted by the speakers, then the unit automatically sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. It also adjusts the volume of the separate frequency ranges for each speaker so that the frequency balance over the entire system is adjusted.

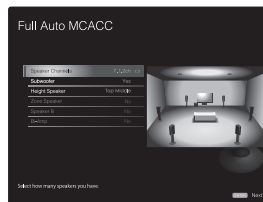
- Calibration takes between 3 and 12 minutes to be completed. The speakers emit the test tone at high volume during measurement, so be careful of your surroundings. Keep the room as quiet as possible during measurement.
- If you have connected a subwoofer, check the power and volume of the subwoofer. Set the subwoofer volume to more than halfway.
- If the power of this unit suddenly turns off, the speaker cables may have touch the rear panel or other wires and tripped the protection circuit. Twist the wires again properly and make sure they do not stick out of the speaker terminals when connecting.

1. Place the supplied speaker setup microphone in the listening position, and connect to the MCACC SETUP MIC jack on the main unit.



When putting the speaker setup microphone on a tripod, refer to the illustration when putting it in place.

2. Select the connected speaker configuration.



- The image on the screen changes as you choose the number of channels in "Speaker Channels", so refer to it when performing the settings.
3. Test tones are emitted by the speakers, and firstly the unit detects the speakers connected and the noise in the environment.
 4. After the results of the above measurements are displayed, select "Next", press ENTER on the remote controller, and the test tones are emitted again, and the unit automatically makes settings such as the optimum volume level and the crossover frequency.
 5. When the measurement is completed, the measurement result is displayed. Press the cursors ◀ / ▶ on the remote controller to check the settings. Press ENTER when "Save" is selected to save the settings.
 6. Disconnect the speaker setup microphone.

■ 2. Source Connection

Check that each input source is connected correctly. Follow the guidance, select the input you want to confirm, start play of the selected player, and confirm that the images appear on the TV and that sound is played.

■ 3. Network Connection

Set up Wi-Fi connection with an access point such as a wireless LAN router. There are the following two methods of connecting by Wi-Fi:

"Scan Networks": Search for an access point from this unit. Find out the SSID of the access point beforehand.

"Use iOS Device (iOS7 or later)": Share the iOS device's Wi-Fi settings with this unit.

If you select "Scan Networks", there are a further two choices of connection method. Check the following.

"Enter Password": Enter the password (or key) of the access point to connect.

"Push Button": If the access point has an automatic connection button, you can connect without entering a password.

- If the SSID of the access point is not displayed, then in the screen listing the SSIDs, select "Other..." with the ▶ cursor on the remote controller and press ENTER, then follow the onscreen instructions.

Keyboard Input

To switch between upper and lower case, select "A/a" on the screen and press ENTER. To select whether to mask the password with "*" or display it in plain text, press +Fav on the remote controller. Press CLEAR to delete all the input characters.

■ 4. Multi Zone Setup

Make these settings to enjoy video and audio in a room other than the main room (ZONE 2).

Select "Using AV Receiver" when connecting speakers in the separate room. Select "with External Pre-main Amplifier" when connecting a pre-main amplifier in the separate room. Select "with External Power Amplifier" when connecting a power amplifier.

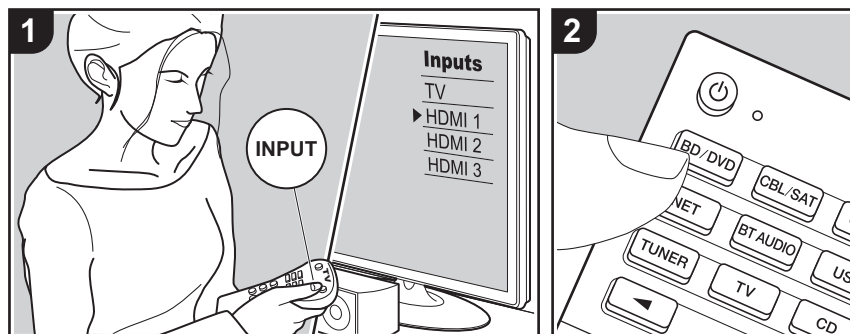
If you are going to be connecting a TV in the separate room (ZONE 2), then when "Would you be using TV in 2nd room?" is displayed, select "Yes".

■ 5. Audio Return Channel

If you have connected a TV that supports ARC, select "Yes". This unit's ARC setting turns on and you can listen to the TV's audio through this unit.

- If you select "Yes", the HDMI CEC function is enabled and power consumption increases during standby.

AV Component Playback



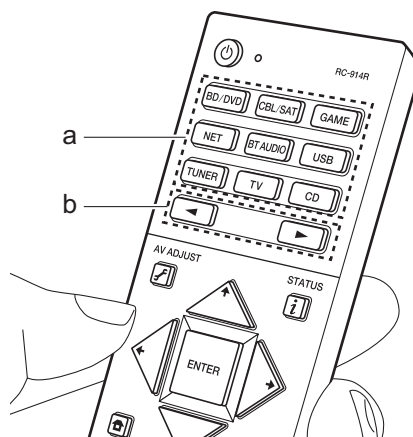
Basic Operations

You can play the audio from AV components such as Blu-ray Disc players through this unit.

- When a TV is connected to the HDMI OUT SUB jack, press (P6) on the remote controller and use "Other" - "HDMI Out" to switch between MAIN and SUB.

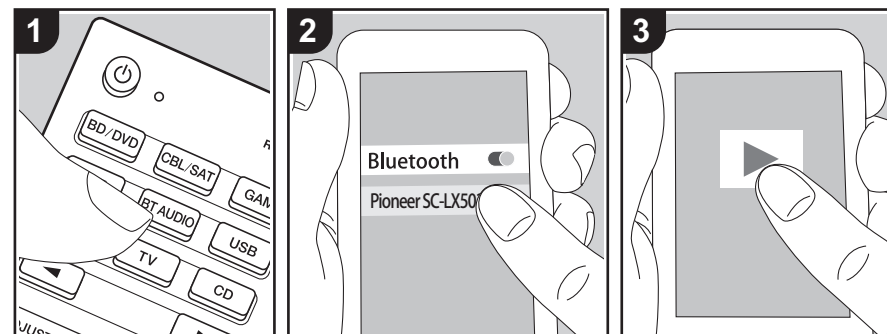
Perform the following procedure when the unit is on.

- Switch the input on the TV to that assigned to the unit.
- Press the input selector button (a) on the remote controller with the same name as the jack to which you connected the player to switch the input.
For example, press BD/DVD to play the player connected to the BD/DVD jack. Press TV to listen to the TV's sound. To play a device connected to the STRM BOX, PHONO, HDMI5, HDMI6 jack or the AUX INPUT HDMI jack on the front panel, press (b) repeatedly to select the input.



- When the CEC link function works, the input switches automatically when you have connected a CEC compliant TV and player to this unit using HDMI connection.
- Start play on the AV component.

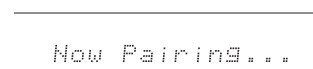
BLUETOOTH® Playback



You can wirelessly play music on a smartphone or other BLUETOOTH enabled device. Perform the following procedure when the unit is on.

Pairing

- When you press the BT AUDIO button, "Now Pairing..." is displayed on this unit's display, and the pairing mode is enabled.



- Enable (turn on) the BLUETOOTH function of the BLUETOOTH enabled device, then select this unit from amongst the devices displayed. If a password is requested, enter "0000".
 - This unit is displayed as "Pioneer SC-LX502 XXXXXX".
 - To connect another BLUETOOTH enabled device, press and hold BT AUDIO until "Now Pairing..." is

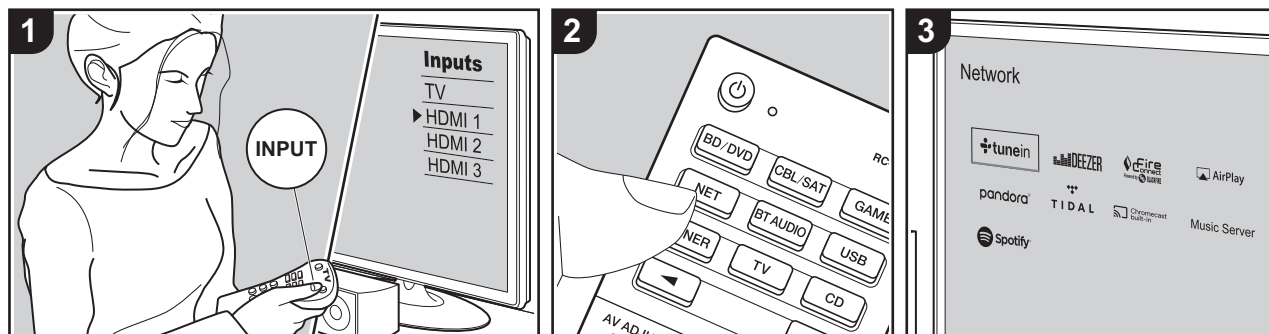
displayed, then perform step 2. This unit can store the data of up to 8 paired devices.

- The coverage area is 48'/15 m. Note that connection is not always guaranteed with all BLUETOOTH enabled devices.

Playing Back

- Perform the connection procedure on the BLUETOOTH enabled device. The input on this unit automatically switches to "BLUETOOTH".
- Play music. Increase the volume of the BLUETOOTH enabled device to an appropriate level.
 - Due to the characteristics of BLUETOOTH wireless technology, the sound produced on this unit may slightly be behind the sound played on the BLUETOOTH enabled device.

Network Functions



Basic Operations

By connecting this unit to the network you can enjoy internet radio services such as TuneIn, streaming from Spotify Connect, and wireless playback using the Chromecast built-in feature and AirPlay®. Furthermore, you can use the Music Server feature to stream music files stored on PCs or NAS devices that support the home network feature. The basic operations for Network Functions are introduced in the Basic Manual. For more advanced operations, see the Advanced Manual. There may also be additional network functions provided through firmware updates for this unit. Also see the Advanced Manual for information about new features.

- The network needs to be connected to the internet in order to play internet radio services.
- Depending on the internet radio service, the user may need to register from their computer first.

- To enable Spotify Connect, install the Spotify application on your smartphone or tablet and create a Spotify premium account.
 - Refer to the following for Spotify settings:
www.spotify.com/connect/
- The network servers compatible with the Music Server feature are those PCs with players installed that have the server functionality of Windows Media® Player 11 or 12, or NAS that are compatible with home network functionality. Note that with PCs, only music files registered in the library of Windows Media® Player can be played.
- You may need to make some settings on the PC in advance to use Windows Media® Player 11 or 12 with the Music Server feature.

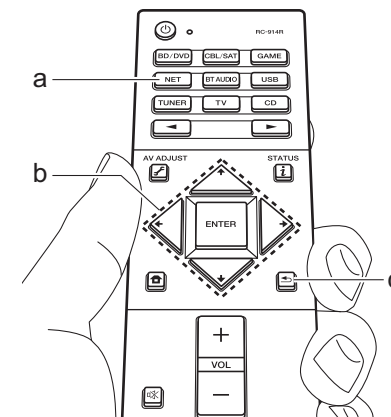
Perform the following procedure when the unit is on.

1. Switch the input on the TV to that assigned to the unit.

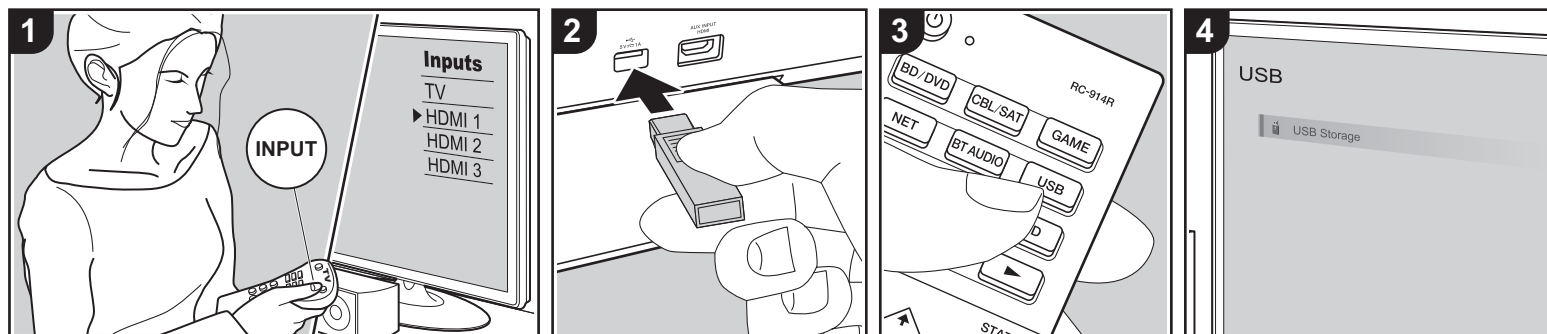
2. Press NET (a) on the remote controller to display a list of Network Functions on the TV.
3. Select the Network Function with the cursors of the remote controller and press ENTER (b) to confirm your selection.

With internet radio services, follow the on-screen instructions, using the cursors to select radio stations and programs, then press ENTER to play. With Spotify or AirPlay, select this unit with your smartphone to play. With Music Server, select the server with the cursors, then select the desired music file and press ENTER to play.

- To return to the previous screen, press ↶ (c).



USB Storage Device



Basic Operations

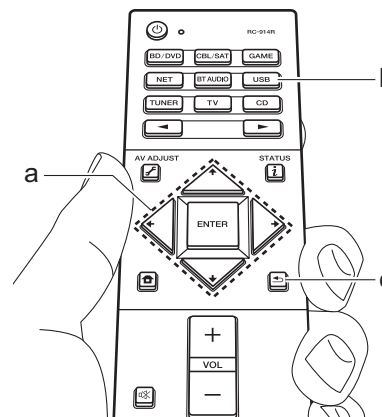
You can play music files stored on a USB storage device.

Perform the following procedure when the unit is on.

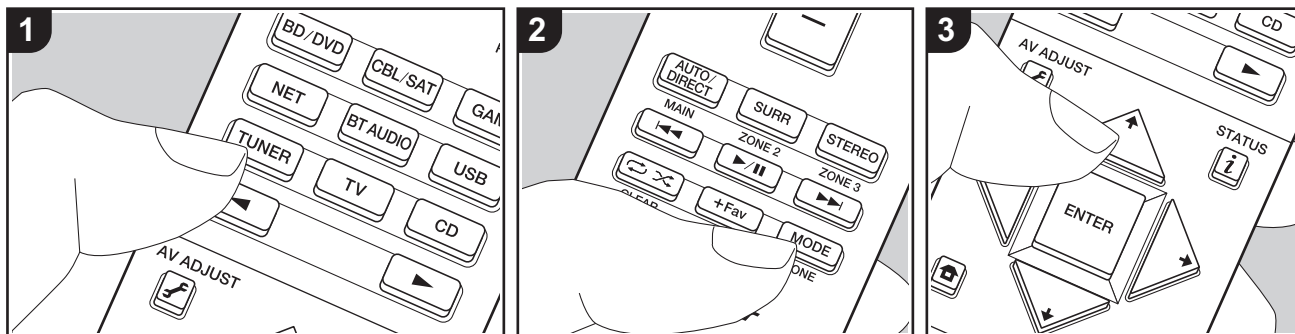
- Switch the input on the TV to that assigned to the unit.
- Plug your USB storage device with the music files into the USB port on the front panel of this unit.
- Press USB (b) on the remote controller and select "USB".
 - If the "USB" indicator flashes on the display, check whether the USB storage device is plugged in properly.
 - Do not unplug the USB storage device while "Connecting..." is appeared on the display. This may cause data corruption or malfunction.
- Press ENTER on the remote controller in the next screen. The list of folders and music files on the USB storage device are displayed. Select the folder with the

cursors and press ENTER to confirm your selection (a).

- With the cursors on the remote controller, select the music file, and then press ENTER to start playback.
 - To return to the previous screen, press ⏪ (c).
 - The USB port of this unit conforms with the USB 2.0 standard. The transfer speed may be insufficient for some content you play, which may cause some interruption in sound.
 - Operation cannot be guaranteed for all USB storage devices.
 - This unit can use USB storage devices that comply with the USB mass storage class standard. The unit is also compatible with USB storage devices using the FAT16 or FAT32 file system formats.



Listening to the AM/FM Radio



You can receive AM and FM radio stations on this unit with the built-in tuner. Perform the following procedure when the unit is on.

■ Tuning into a Radio Station

Tuning Automatically

1. Press **TUNER** (a) on the remote controller repeatedly to select either "AM" or "FM" on the display.
2. Press **MODE** (e) on the remote controller, so that the "TunMode : Auto" is displayed on the display.

TunMode:Auto

3. When you press the cursors \uparrow / \downarrow (b) on the remote controller, automatic tuning starts, and searching stops when a station is found. When tuned into a radio station, the "TUNED" indicator on the display lights. When tuned into an FM stereo station, the

"STEREO" indicator lights.

When FM broadcasts reception is poor:

Perform the procedure for "Tuning Manually" in the following section. Note that if you tune manually, the reception for FM broadcasts will be monaural rather than stereo, irrespective of the sensitivity of the reception.

Tuning Manually

Note that if you tune manually, the reception for FM broadcasts will be monaural rather than stereo, irrespective of the sensitivity of the reception.

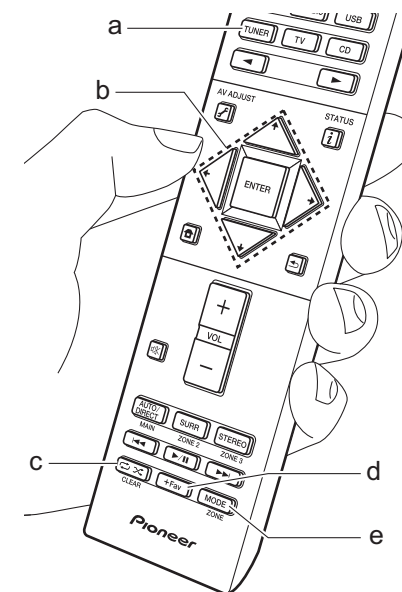
1. Press **TUNER** (a) on the remote controller repeatedly to select either "AM" or "FM" on the display.
2. Press **MODE** (e) on the remote controller, so that the "TunMode : Manual" is displayed on the display.

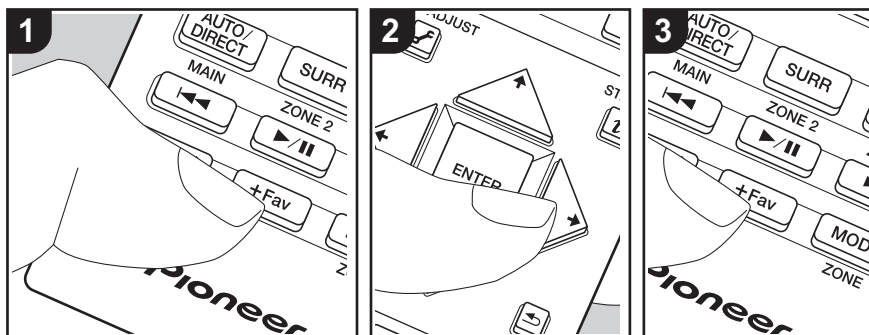
TunMode:Manual

3. While pressing the cursors \uparrow / \downarrow (b) on the remote controller, select the desired radio station.
 - The frequency changes by 1 step each time you press the cursors \uparrow / \downarrow . The frequency changes continuously if the button is held down and stops when the button is released.

Frequency step setting:

Press HOME on the remote controller, and from Home displayed select "System Setup" - "Miscellaneous" - "Tuner" - "AM/FM Frequency Step" or "AM Frequency Step", and select the frequency step for your region. Note that when this setting is changed, all radio presets are deleted.





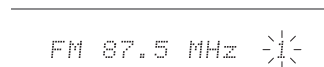
■ Presetting a Radio Station

It allows you to register up to 40 of your favorite AM/FM radio stations.

Registration Procedure

After tuning into the AM/FM radio station you want to register, perform the following procedure.

1. Press +Fav (d) on the remote controller so that the preset number on the display flashes.



2. While the preset number is flashing (about 8 seconds), repeatedly press the cursors ← / → (b) on the remote controller to select a number between 1 and 40.
3. Press +Fav again on the remote controller to register the station. When registered, the preset number stops flashing. Repeat this procedure for

all of your favorite AM/FM radio stations.

Selecting a Preset Radio Station

1. Press TUNER (a) on the remote controller.
2. Press cursors ← / → (b) on the remote controller to select a preset number.

Deleting a Preset Radio Station

1. Press TUNER (a) on the remote controller.
2. Press cursors ← / → (b) on the remote controller to select the preset number to delete.
3. After pressing +Fav (d) on the remote controller, press CLEAR (c) while the preset number is flashing to delete the preset number. When deleted, the number on the display goes off.

■ Using RDS (European, Australian and Asian models)

RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. In regions using RDS, the radio station name is displayed when you tune into a radio station broadcasting program information. When you press *i* on the remote controller in this state, you can use the following functions.

Display Text Information (Radio Text)

1. While the name of the station is being displayed on the display, press *i* on the remote controller once. Radio Text (RT) broadcast by the station is displayed scrolling across the display. "No Text Data" is displayed when no text information is available.

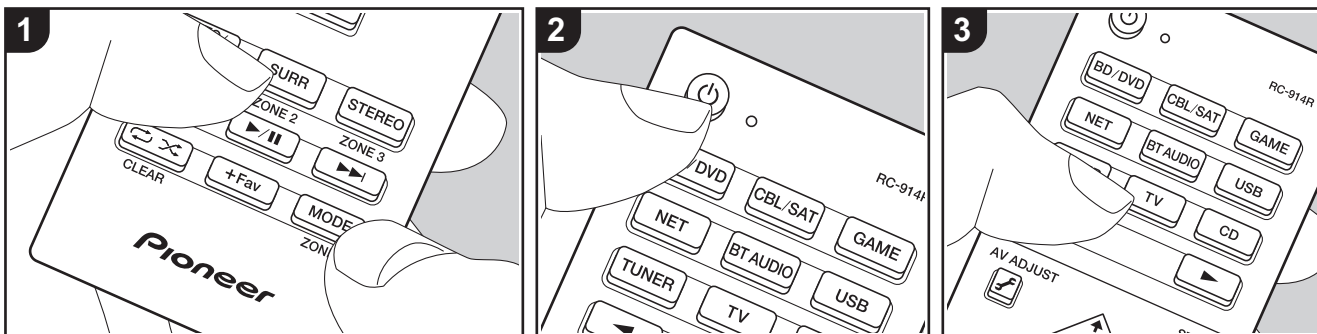
Search for Stations by Program Type

1. While the name of the station is being displayed on the display, press *i* on the remote controller twice.
2. Press ← / → on the remote controller to select the Program Type you want to find, then press ENTER to start the search.
 - The Program Types displayed are as follows: None / News (News reports) / Affairs (Current affairs) / Info (Information) / Sport / Educate (Education) / Drama / Culture / Science (Science and technology) / Varied / Pop M (Pop music) / Rock M (Rock music) /

Easy M (Middle of the road music) / Light M (Light classics) / Classics (Serious classics) / Other M (Other music) / Weather / Finance / Children (Children's programmes) / Social (Social affairs) / Religion / Phone In / Travel / Leisure / Jazz (Jazz music) / Country (Country music) / Nation M (National music) / Oldies (Oldies music) / Folk M (Folk music) / Document (Documentary)

- The information displayed may sometimes not match the content being broadcast by the station.
3. When a station is found, the station flashes on the display. Press ENTER while this is happening to start receiving that station. If you don't press ENTER, the unit continues to search for another station.
 - If no stations are found, the message "Not Found" is displayed.
 - Unusual characters may be displayed when the unit receives unsupported characters. However, this is not a malfunction. Also, if the signal from a station is weak, information may not be displayed.

Multi-zone



Basic Operations

You can enjoy audio in the separate room by, for example, playing a Blu-ray Disc player in the main room (where this unit is located) and listening to internet radio in the separate room (ZONE 2).

- DSD and Dolby TrueHD audio signals are not output to ZONE 2 when selected with the "NET" or "USB" input selector.
- You can only select the same inputs for the main room and separate room with the "NET", "BLUETOOTH", or "USB" input selector. If you have "NET" selected in the main room and then select "BLUETOOTH" in the separate room, the main room also switches to "BLUETOOTH". You cannot select different stations for the main room and separate room with the AM/FM radio.
- Power consumption in standby mode increases when the multi-zone function is being used.

Perform the following procedure when the unit is on.

1. While holding down MODE (e) on the remote controller, press ZONE 2 (d) for 3 or more seconds until the remote indicator blinks twice.
 - The remote controller switches to the mode for controlling ZONE 2.
2. Point the remote controller at the main unit and press ⏻ (a). "Z2" lights on the main unit display.



3. Press the input selector button (b) of the input to be played in the separate room.
 - On the main unit, after pressing ZONE CONTROL, within 8 seconds turn the INPUT SELECTOR dial to select the input to be played in the separate room.
4. To adjust the volume on the power amplifier in the separate room or the ZONE speaker, adjust with VOL+/- on the remote controller. To control on the

main unit, press ZONE CONTROL and adjust with the MASTER VOLUME dial within 8 seconds.

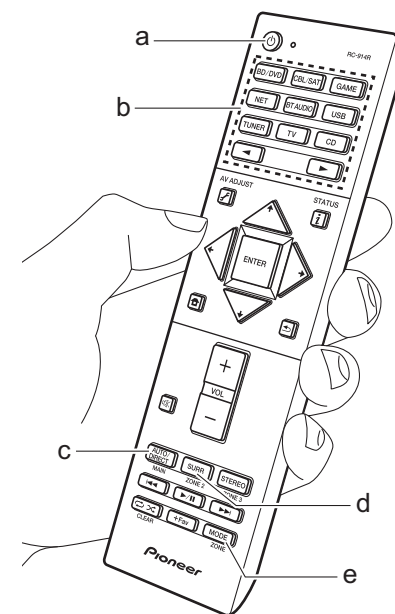
- Adjust the volume on the pre-main amplifier if you have connected with a pre-main amplifier in the other room.
- The information for a connected device can be displayed on the TV screen in a separate room. Press the ⓘ button while the remote controller is in the mode for controlling ZONE 2.

To turn off the function:

Press ⏻ while in the mode for controlling ZONE 2 on the remote controller.

Playing in ZONE 2 only:

If you turn the unit to standby during multi-zone playback, the Z2 indicator is dimmed and the playback mode is switched to playback in a separate room only. Setting ZONE 2 to on while this unit is in standby will also switch the playback mode to the same setting.





MULTI-ZONE MUSIC

If you press MULTI-ZONE MUSIC on the main unit while playback is being performed in the main room, "Z2" on the display lights, the MULTI-ZONE MUSIC is turned on, and the playback source in the separate room is switched to the same source immediately.

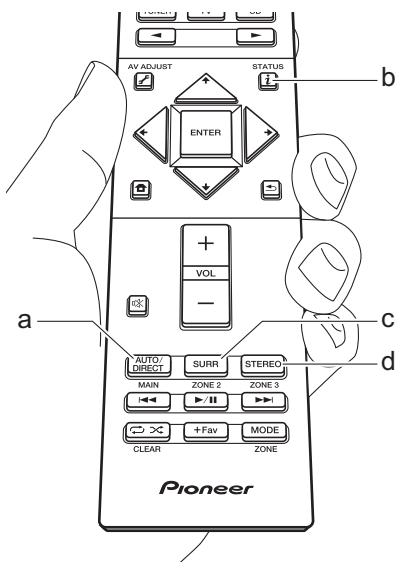
- The sources that can be played in ZONE 2 can be played in all rooms.
- This function cannot be used if headphones are connected or audio is output from the speakers of the TV.

i **To return the remote controller to main room control mode:**
While holding down MODE on the remote controller, press MAIN (c) for 3 seconds or more until the remote indicator flashes once.

Listening Mode

This unit is equipped with a variety of listening modes. The basic operations are introduced in the Basic Manual. For more details, see the Advanced Manual.

- The listening mode last selected for the source is remembered for each of the AUTO/DIRECT, SURR, and STEREO buttons. If content you play is not supported by the listening mode you selected last, the listening mode that is standard for that content is selected automatically.



AUTO/DIRECT button (a)

Press repeatedly and the listening modes suited to the input signal are switched between "Auto Surround", "Direct", and "Pure Direct". After selecting one of them, "Auto Surround" (or "Direct" or "Pure Direct") is displayed on the display of the main unit, then the listening mode selected automatically (Dolby Digital for multi-channel input signals, Stereo for 2 channel input signals, etc.) is displayed.

The "Direct" mode shuts down some processing that can affect sound quality, such as the tone control features, so you can enjoy even better sound quality. The "Pure Direct" mode shuts down even more processes that affects sound quality, so you get a more faithful reproduction of the original sound. In this case, the speaker calibration made with MCACC is disabled.

- Depending on the input signal and speaker configuration, the Dolby Surround and DTS Neural:X modes that expand 2 channel and 5.1 channel input signals to 5.1 channel and 7.1 channel may be automatically selected.

SURR button (c)

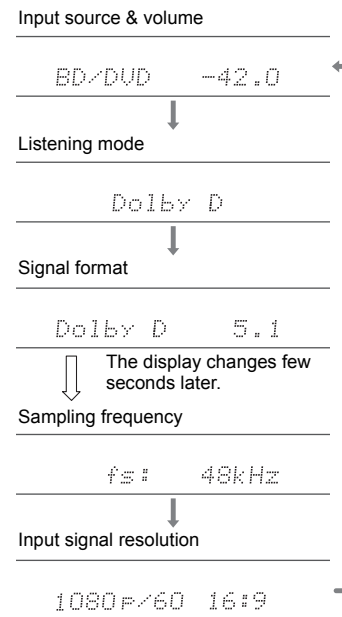
You can select a variety of listening modes to suit your taste. There are the Dolby Digital, DTS-HD Master Audio, and Stereo modes that you can choose to suit the input signal, or the Dolby Surround and DTS Neural:X modes that can expand 2 channel and 5.1 channel input signals to 5.1 or 7.1 channels. You can also enjoy original surround modes such as Ext.Stereo and Drama modes.

STEREO button (d)

You can select the "Stereo" mode to playback only from the front speakers and subwoofer.

Checking the Input Format and Listening Mode

Press **i** (b) on the remote controller several times to switch the display of the main unit as follows.





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Printed in Malaysia / Imprimé en Malaisie

SN 29403064A

F1710-1



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Advanced Manual

SC-LX502

AV RECEIVER

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[The Basic Manual](#) includes information needed when starting up and also instructions for frequently used operations. [The Advanced Manual](#) has more detailed information and advanced settings.

General Specifications

■ Amplifier Section

Rated Output Power (FTC) (North American)

With 8 Ω loads, both channels driven, at 1 kHz;
rated 120 watts per channel minimum RMS power,
with no more than 0.08% total harmonic distortion
from 250 milliwatts to rated output.

With 6 Ω loads, both channels driven, at 1 kHz;
rated 150 watts per channel minimum RMS power,
with no more than 1% total harmonic distortion from
250 milliwatts to rated output.

Rated Output Power (European and Australian)

7 ch × 180 W at 6 Ω, 1 kHz, 1 ch driven of 1% THD
7 ch × 220 W at 4 Ω, 1 kHz, 1 ch driven of 1% THD

Rated Output Power (Asian, 220-230/240 V)

7 ch × 180 W at 6 Ω, 1 kHz, 1 ch driven of 1% THD
7 ch × 220 W at 4 Ω, 1 kHz, 1 ch driven of 1% THD

Continuous Power Output (North American)

1 kHz, 2 ch driven of THD 0.08% at 8 Ω:

120 W+120 W (Front)

120 W (Center)

120 W+120 W (Surround)

120 W+120 W (Surround back/Height)

1 kHz, 2 ch driven of THD 1% at 6 Ω:

150 W+150 W (Front)

150 W (Center)

150 W+150 W (Surround)

150 W+150 W (Surround back/Height)

1 kHz, 2 ch driven of THD 1% at 4 Ω:

200 W+200 W (Front)

200 W (Center)

200 W+200 W (Surround)

200 W+200 W (Surround back/Height)

Maximum Effective Output Power (North American)

225 W at 6 Ω, 1 kHz, 1 ch driven of 10% THD

Multi Channel Simultaneous Output Power

560 W (7 ch total) at 8 Ω, 1 kHz, All ch driven total
power of 1% THD

Maximum Output Power (Australian, 220-230 V)

300 W (4 Ω, 1 kHz, 1 ch driven of 10% THD)

Maximum Output Power (Asian, 220-230/240 V)

300 W (4 Ω, 1 kHz, 1 ch driven of 10% THD)

THD+N (Total Harmonic Distortion+Noise)

0.05% (1 kHz, 100 W, 8 Ω)

Input Sensitivity and Impedance

200 mV/82 kΩ (LINE (RCA))

3.5 mV/47 kΩ (PHONO MM)

Rated RCA Output Level and Impedance

1 V/470 Ω (SUBWOOFER PRE OUT)

200 mV/2.2 kΩ (ZONE LINE OUT)

2 V/2.2 kΩ (ZONE PRE OUT)

Phono Overload

70 mV (MM 1 kHz 0.5%)

Tone Control Characteristics

±10 dB, 20 Hz (BASS)

±10 dB, 20 kHz (TREBLE)

Signal to Noise Ratio

105 dB (IHF-A, LINE IN, SP OUT)

80 dB (IHF-A, PHONO IN, SP OUT)

Speaker Impedance

4 Ω - 16 Ω

Headphone Output Impedance

43 Ω

Headphone Rated Output

55 mW (32 Ω, 1 kHz, 10% THD)

■ Video Section

Signal level

1 Vp-p/75 Ω (Composite Video)

1 Vp-p/75 Ω (Component Video Y)

0.7 Vp-p/75 Ω (Component Video B/R)

Maximum resolution supported by component video

480i/576i

■ Tuner Section

FM Tuning Frequency Range

87.5 MHz - 107.9 MHz (North American)

87.5 MHz - 108.0 MHz, RDS (Others)

AM Tuning Frequency Range

530 kHz - 1710 kHz (North American)

522/530 kHz - 1611/1710 kHz (Others)

Preset Channel

40

■ Network Section

Ethernet LAN

10BASE-T/100BASE-TX

Wireless LAN

IEEE 802.11 a/b/g/n standard

(Wi-Fi® standard)

5 GHz/2.4 GHz band

■ BLUETOOTH Section

Communication system

BLUETOOTH Specification version 4.1+LE

Frequency band

2.4 GHz band

Modulation method

FHSS (Freq Hopping Spread Spectrum)

Compatible BLUETOOTH profiles

A2DP 1.2

AVRCP 1.3

HOGP-Host (Client)

HOGP-HID Device (Server)

HID Service (HIDS)

Supported Codecs

SBC

AAC

Transmission range (A2DP)

20 Hz - 20 kHz (Sampling frequency 44.1 kHz)

Maximum communication range

Line of sight approx. 15 m (*)

* The actual range will vary depending on factors
such as obstacles between devices, magnetic fields
around a microwave oven, static electricity, cordless
phone, reception sensitivity, antenna's performance,

operating system, software application, etc.

■ Descriptions required by the RE Directive of the European Union (EU)

Maximum radio-frequency power transmitted in the frequency band(s) (European)

- 2400 MHz - 2483.5 MHz (20 dBm (e.i.r.p))
- 5150 MHz - 5350 MHz (22 dBm (e.i.r.p))
- 5470 MHz - 5725 MHz (22 dBm (e.i.r.p))

■ General

Power Supply

- AC 120 V, 60 Hz (North American)
- AC 220 - 230 V, 50/60 Hz (European and Australian)
- AC 220 - 230/240 V, 50/60 Hz (Asian)

Power Consumption

250 W

Power Consumption (Standby mode)

- 0.1 W (Full Standby mode)
- 1.7 W (Network Standby mode, Wired) (*1)
- 2 W (Network Standby mode, Wireless) (*2)
- 1.7 W (Bluetooth Wakeup mode) (*3)
- 0.1 W (CEC standby mode) (*4)
- 2 W (Standby mode, All on) (*5)

*1. Network Standby: On, Wi-Fi: Off (Wired), Bluetooth: Off

*2. Network Standby: On, Wi-Fi: On, Bluetooth: Off

*3. Network Standby: Off, Wi-Fi: Off (Wired), Bluetooth: On, Auto Input Change: On, Bluetooth Wakeup: On

*4. HDMI CEC: On, HDMI Standby Through: Auto (Eco)

*5. Network Standby: On, Wi-Fi: On, Bluetooth: On, Auto Input Change: On, Bluetooth Wakeup: On, HDMI CEC: On, HDMI Standby Through: Auto (Eco)

Dimensions (W × H × D)

- 435 mm × 185 mm × 395 mm
- 17-1/8" × 7-5/16" × 15-9/16"

Weight

- 11.9 kg (26.2 lbs.) (North American)
- 12.1 kg (26.7 lbs.) (Others)

■ HDMI

Input

- IN1 (BD/DVD), IN2 (CBL/SAT), IN3 (STRM BOX), IN4 (GAME), IN5, IN6, AUX INPUT HDMI (front)

Output

- OUT MAIN (ARC), OUT SUB

Supported

- Deep Color, x.v.Color™, LipSync, Audio Return Channel, 3D, 4K 60 Hz, CEC, Extended Colorimetry (sYCC601, Adobe RGB, Adobe YCC601), Content Type, HDR

Audio Format

- Dolby Atmos, Dolby TrueHD, Dolby Digital, Dolby Digital Plus, DTS, DTS:X, DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS 96/24, DTS-ES, DTS Express, DSD, PCM

Maximum Video Resolution

- 4k 60 Hz (YCbCr 4:4:4)

■ Video Inputs

Component

- BD/DVD

Composite

- IN1 (CBL/SAT), IN2 (STRM BOX)

■ Compatible input resolutions

HDMI input

- 4K, 1080p/24, 1080p, 1080i, 720p, 480p/576p

Component input

- 480i/576i

Composite input

- 480i/576i

- The output from the HDMI OUT jack to the TV is the same resolution as the input. When using a TV that supports 4K, 1080p HDMI video signals can also be output as 4K.

■ Audio Inputs

Digital

- OPTICAL 1 (BD/DVD), 2 (TV)
- COAXIAL (CD)

Analog

- BD/DVD, CBL/SAT, STRM BOX, CD, PHONO

■ Audio Outputs

Analog

- ZONE2 PRE/LINE OUT
- 2 SUBWOOFER PRE OUT

Speaker Outputs

- FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK (ZONE 2) L/R, HEIGHT (SP B) L/R

(North American models are banana plug ready)

Phones

- PHONES (Front, ø 6.3 mm, 1/4")

■ Others

Setup Mic : 1 (Front)

USB : 1 (Ver. 2.0, 5 V/1 A)

Ethernet : 1

RS-232C : 1

IR IN : 1

IR OUT : 1

12V TRIGGER OUT : 2 (A: 100 mA, B: 25 mA)

Specifications and features are subject to change without notice.

About HDMI

Compatible functions

HDMI (High Definition Multimedia Interface) is a digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components. With HDMI, a single cable can carry control signals, digital video and digital audio (2 ch PCM, multichannel digital audio, and multichannel PCM).

HDMI CEC functionality:

By connecting devices and HDMI cables that comply with the CEC (Consumer Electronics Control) specification of the HDMI standard, a variety of linked operation become possible between devices. You can enjoy features such as linking input switching with the input selector and players, control volume using the remote controller of the TV, and automatically switching this unit to standby when the TV is turned off.

The unit is designed to link with products that comply with the CEC standard, and that linked operation is not always guaranteed with all CEC devices. For linked functions to work properly, do not connect more CEC-compliant components than the quantities specified below, to the HDMI jack.

- Blu-ray Disc/DVD players: up to 3 units.
- Blu-ray Disc/DVD recorders: up to 3 units.
- Cable TV tuner, terrestrial digital tuner, and satellite broadcasting tuner: up to 4 units.

Operation has been confirmed on the following devices:
(As of May 2017)

Toshiba brand televisions; Sharp brand televisions; Toshiba brand players and recorders; Sharp brand players and recorders (when used with a Sharp brand television)

ARC (Audio Return Channel):

By connection a TV that supports ARC with a single HDMI cable, you can not only output the audio and video from this unit to the TV, but also input the audio from the TV to this unit.

HDMI Standby Through:

Even if this unit is in standby, the input signals from AV components are transmitted to the TV.

Deep Color:

By connecting devices supporting Deep Color, video signals input from the devices can be reproduced on the TV with even more colors.

x.v.Color™:

This technology realizes even more realistic colors by broadening the color gamut.

3D:

You can transmit 3D video signals from AV components to the TV.

4K:

This unit supports 4K (3840 × 2160p) and 4K SMPTE (4096 × 2160p) video signals.

LipSync:

This setting automatically corrects any desynchronization between the video and audio signals based on data from the HDMI LipSync compatible TV.

Copyright Protection:

The unit supports Revision 1.4 and Revision 2.2 of the HDCP (High-bandwidth Digital Content Protection), a copy-protection system for digital video signals. Other devices connected to the unit must also support HDCP.

Supported Audio Formats

2 ch linear PCM:

32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 16/20/24 bit

Multi-channel linear PCM:

Maximum 7.1 channels, 32 kHz, 44.1 kHz, 48 kHz,

88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 16/20/24 bit

Bitstream:

Dolby Atmos, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS:X, DTS-HD High Resolution Audio, DTS-HD Master Audio

DSD:

Supported sampling rates: 2.8 MHz

Your Blu-ray Disc/DVD player must also support HDMI output of the above audio formats.

Supported resolutions

HDMI IN1 to IN6:

- Copyright protection technology: HDCP1.4/HDCP2.2
- Color space (Color Depth):
 - 720 × 480i 60Hz, 720 × 576i 50Hz, 720 × 480p 60Hz, 720 × 576p 50Hz, 1920 × 1080i 50/60Hz, 1280 × 720p 24/25/30/50/60Hz, 1680 × 720p 24/25/30/50/60Hz, 1920 × 1080p 24/25/30/50/60Hz, 2560 × 1080p 24/25/30/50/60Hz, 4K (3840 × 2160p) 24/25/30Hz, 4K SMPTE (4096 × 2160p) 24/25/30Hz : RGB/YCbCr4:4:4 (8/10/12 bit), YCbCr4:2:2 (12 bit)
 - 4K (3840 × 2160p) 50/60Hz, 4K SMPTE (4096 × 2160p) 50/60Hz : RGB/YCbCr4:4:4 (8 bit), YCbCr4:2:2 (12 bit), YCbCr4:2:0 (8/10/12 bit)

AUX INPUT HDMI (front):

- Copyright protection technology: HDCP1.4/HDCP2.2
- Color space (Color Depth):
 - 720 × 480i 60Hz, 720 × 576i 50Hz, 720 × 480p 60Hz, 720 × 576p 50Hz, 1920 × 1080i 50/60Hz, 1280 × 720p 24/25/30/50/60Hz, 1680 × 720p 24/25/30/50/60Hz, 1920 × 1080p 24/25/30/50/60Hz, 2560 × 1080p 24/25/30/50/60Hz : RGB/YCbCr4:4:4 (8/10/12 bit), YCbCr4:2:2 (12 bit)
 - 4K (3840 × 2160p) 24/25/30Hz, 4K SMPTE (4096 × 2160p) 24/25/30Hz : RGB/YCbCr4:4:4 (8 bit), YCbCr4:2:2 (12 bit)
 - 4K (3840 × 2160p) 50/60Hz, 4K SMPTE (4096 × 2160p) 50/60Hz : YCbCr4:2:0 (8 bit)

Playback from USB storage devices

■ USB Storage Device Requirements

- This unit can use USB storage devices that comply with the USB mass storage device class standard.
- FAT16 or FAT32 file system format.
- If the USB storage device has been partitioned, each section will be treated as an independent device.
- Up to 20,000 tracks per folder can be displayed, and folders may be nested up to 16 levels deep.
- USB hubs and USB storage devices with hub functions are not supported. Do not connect these devices to the unit.
- USB storage devices with security function are not supported on this unit.
- If you connect a USB hard disk drive to the USB port of the unit, we recommend that you use its AC adapter to power it.
- Media inserted to the USB card reader may not be available in this function. Furthermore, depending on the USB storage device, proper reading of the contents may not be possible.
- Our company accepts no responsibility whatsoever for the loss or damage to data stored on a USB storage device when that device is used with this unit. We recommend that you back up your important music files beforehand.

■ Supported Audio Formats

This unit supports the following music file formats. Note that sound files that are protected by copyright cannot be played on this unit.

MP3 (.mp3/.MP3):

- Supported formats: MPEG-1/MPEG-2 Audio Layer 3

- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 8 kbps and 320 kbps.

WMA (.wma/.WMA):

- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 5 kbps and 320 kbps.
- WMA Pro/Voice/WMA Lossless formats are not supported

WAV (.wav/.WAV):

WAV files include uncompressed PCM digital audio.

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AIFF (.aiff/.aif/.AIFF/.AIF):

AIFF files include uncompressed PCM digital audio.

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AAC (.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP/.3G2):

- Supported formats: MPEG-2/MPEG-4 Audio
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- Supported bitrates: Between 8 kbps and 320 kbps.

FLAC (.flac/.FLAC):

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

Apple Lossless (.m4a/.mp4/.M4A/.MP4):

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 16 bit, 24 bit

DSD (.dsf/.dff/.DSF/.DFF):

- Supported formats: DSF/DSDIFF
- Supported sampling rates: 2.8 MHz, 5.6 MHz, 11.2 MHz

Dolby TrueHD (.vri/.mlp/.VR/.MLP):

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

- Variable bit-rate (VBR) files are supported. However, playback times may not be displayed correctly.

- This unit supports the gapless playback of the USB storage device in the following conditions. When playing WAV, FLAC and Apple Lossless, and the same format, sampling frequency, channels and quantization bit rate are played continuously.

Playback from the Music Server

■ Supported Audio Formats

This unit supports the following music file formats. Remote play of FLAC and DSD is not supported.

MP3 (.mp3/.MP3):

- Supported formats: MPEG-1/MPEG-2 Audio Layer 3
- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 8 kbps and 320 kbps.

WMA (.wma/.WMA):

- Supported sampling rates: 44.1 kHz, 48 kHz
- Supported bitrates: Between 5 kbps and 320 kbps.
- WMA Pro/Voice/WMA Lossless formats are not supported

WAV (.wav/.WAV):

WAV files include uncompressed PCM digital audio.

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AIFF (.aiff/.aif/.AIFF/.AIF):

AIFF files include uncompressed PCM digital audio.

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

AAC (.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP/.3G2):

- Supported formats: MPEG-2/MPEG-4 Audio
- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- Supported bitrates: Between 8 kbps and 320 kbps.

FLAC (.flac/.FLAC):

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
- Quantization bit: 8 bit, 16 bit, 24 bit

LPCM (Linear PCM):

- Supported sampling rates: 44.1 kHz, 48 kHz
- Quantization bit: 16 bit

Apple Lossless (.m4a/.mp4/.M4A/.MP4):

- Supported sampling rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- Quantization bit: 16 bit, 24 bit

DSD (.dsf/.dff/.DSF/.DFF):


- Supported formats: DSF/DSDIFF
- Supported sampling rates: 2.8 MHz, 5.6 MHz, 11.2 MHz

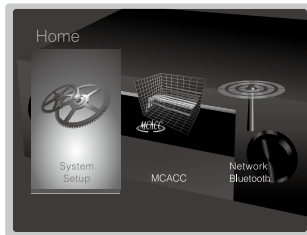
- Variable bit-rate (VBR) files are supported. However, playback times may not be displayed correctly.
- Remote playback does not support the gapless playback.


System Setup


The unit allows you to configure advanced settings to provide you with an even better experience.



Operation:

Use the on-screen displays (OSD) that appear on the TV to make the settings. Press  on the remote controller to display the Home screen, then select System Setup with the cursors on the remote controller and press ENTER.



Select the item with the cursor  buttons of the remote controller and press ENTER to confirm your selection.

Use the cursors  to change the default values.

- To return to the previous screen, press .
- To exit the settings, press .

Input/Output Assign

Make settings related to output to the TV, change the settings for jack allocations to the various input selectors, and set the feature for displaying operations on the TV (OSD), etc.

■ TV Out / OSD

Setting Item	Default Value	Setting Details
HDMI Out	MAIN	Select the HDMI jack to be connected with the TV. "MAIN": When connecting the TV to the HDMI OUT MAIN jack "SUB": When connecting the TV to the HDMI OUT SUB jack "MAIN+SUB": When connecting to both the MAIN and SUB jacks
Dolby Vision	MAIN	If you want to output the Dolby Vision video from the player to a TV that supports Dolby Vision, select the HDMI OUT jack, MAIN or SUB, to which you have connected the TV that supports Dolby Vision. This setting is only necessary if you have set "HDMI Out" to "MAIN+SUB" and you have connected a TV to both the MAIN and SUB jacks. "MAIN": To output Dolby Vision video to a TV that supports Dolby Vision that is connected to the HDMI OUT MAIN jack "SUB": To output Dolby Vision video to a TV that supports Dolby Vision that is connected to the HDMI OUT SUB jack <ul style="list-style-type: none"> • If you select "MAIN" or "SUB" but the video on the TV does not appear correctly, set this to "Off".
1080p -> 4K Upscaling	Off	When using a TV that supports 4K, video signals input at 1080p can be automatically upscaled to 4K for output. "Off": When this function is not to be used "Auto": When this function is to be used <ul style="list-style-type: none"> • Select "Off" if your TV does not support 4K.

Setting Item	Default Value	Setting Details
Super Resolution	2	When you have set "1080p -> 4K Upscaling" to "Auto", you can select the degree of video signal correction from "Off" and between "1" (weak) and "3" (strong).
Zone 2 HDMI	Not Use	Make the setting when you output to the Zone 2 TV connected to the HDMI OUT ZONE 2/SUB jack. "Use": Enable this function "Not Use": Disable this function
OSD Language	English	Select the on-screen display language from the following. (North American models) English, German, French, Spanish, Italian, Dutch, Swedish (European, Australian and Asian models) English, German, French, Spanish, Italian, Dutch, Swedish, Russian, Chinese
Impose OSD	On	Set whether or not to display the information on the TV when the volume is adjusted or input is changed, for example. "On": OSD displayed on the TV. "Off": OSD not displayed on the TV. • OSD may not be displayed depending on the input signal even if "On" is selected. If the operation screen is not displayed, change the resolution of the connected device.
Screen Saver	3 minutes	Set the time to start the screen saver. Select a value from "3 minutes", "5 minutes", "10 minutes" and "Off".

■ HDMI Input

You can change input assignment between the input selectors and HDMI IN jacks.

Setting Item	Default Value	Setting Details
BD/DVD	HDMI 1 (HDCP 2.2)	"HDMI 1 (HDCP 2.2)" to "HDMI 4 (HDCP 2.2)": Assign a desired HDMI IN jack to the BD/DVD input selector. If you do not assign a jack, select "---". To select an HDMI IN jack already assigned to another input selector, change its setting to "---" first.
CBL/SAT	HDMI 2 (HDCP 2.2)	"HDMI 1 (HDCP 2.2)" to "HDMI 4 (HDCP 2.2)": Assign a desired HDMI IN jack to the CBL/SAT input selector. If you do not assign a jack, select "---". To select an HDMI IN jack already assigned to another input selector, change its setting to "---" first.
GAME	HDMI 4 (HDCP 2.2)	"HDMI 1 (HDCP 2.2)" to "HDMI 4 (HDCP 2.2)": Assign a desired HDMI IN jack to the GAME input selector. If you do not assign a jack, select "---". To select an HDMI IN jack already assigned to another input selector, change its setting to "---" first.
STRM BOX	HDMI 3 (HDCP 2.2)	"HDMI 1 (HDCP 2.2)" to "HDMI 4 (HDCP 2.2)": Assign a desired HDMI IN jack to the STRM BOX input selector. If you do not assign a jack, select "---". To select an HDMI IN jack already assigned to another input selector, change its setting to "---" first.

■ Video Input

You can change input assignment between the input selectors and COMPONENT VIDEO IN jacks and the VIDEO IN jacks. If you do not assign a jack, select "---".

Setting Item	Default Value	Setting Details
BD/DVD	COMPONENT	"COMPONENT": Assign the COMPONENT VIDEO IN jacks to the BD/DVD input selector. "VIDEO 1", "VIDEO 2": Assign a desired VIDEO IN jack to the BD/DVD input selector.

Setting Item	Default Value	Setting Details
CBL/SAT	VIDEO 1	"COMPONENT": Assign the COMPONENT VIDEO IN jacks to the CBL/SAT input selector. "VIDEO 1", "VIDEO 2": Assign a desired VIDEO IN jack to the CBL/SAT input selector.
GAME	---	"COMPONENT": Assign the COMPONENT VIDEO IN jacks to the GAME input selector. "VIDEO 1", "VIDEO 2": Assign a desired VIDEO IN jack to the GAME input selector.
STRM BOX	VIDEO 2	"COMPONENT ": Assign the COMPONENT VIDEO IN jacks to the STRM BOX input selector. "VIDEO 1", "VIDEO 2": Assign a desired VIDEO IN jack to the STRM BOX input selector.

■ Digital Audio Input

You can change input assignment between the input selectors and DIGITAL AUDIO IN COAXIAL/OPTICAL jacks. If you do not assign a jack, select "---".

Setting Item	Default Value	Setting Details
BD/DVD	OPTICAL 1	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the BD/DVD input selector.
CBL/SAT	---	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the CBL/SAT input selector.
GAME	---	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the GAME input selector.
STRM BOX	---	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the STRM BOX input selector.
CD	COAXIAL	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the CD input selector.

Setting Item	Default Value	Setting Details
TV	OPTICAL2	"COAXIAL", "OPTICAL 1", "OPTICAL 2": Assign a desired DIGITAL AUDIO IN jack to the TV input selector.

- Supported sampling rates for PCM signals (stereo, mono) from a digital input are 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz/16bit, 20bit, and 24bit.

■ Analog Audio Input

You can change input assignment between the input selectors and AUDIO IN jacks. If you do not assign a jack, select "---".

Setting Item	Default Value	Setting Details
BD/DVD	AUDIO 1	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the BD/DVD input selector.
CBL/SAT	AUDIO 2	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the CBL/SAT input selector.
GAME	---	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the GAME input selector.
STRM BOX	AUDIO 3	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the STRM BOX input selector.
CD	AUDIO 4	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the CD input selector.
TV	---	"AUDIO 1" to "AUDIO 4": Assign a desired AUDIO IN jack to the TV input selector.

■ Input Skip

You can skip inputs to which nothing is connected when selecting them with the INPUT SELECTOR dial on the main unit or with the ◀/▶ input selectors on the remote controller.

Setting Item	Default Value	Setting Details
BD/DVD	Use	Set whether to skip the BD/DVD input selector. Select "Skip" to skip this input.
CBL/SAT	Use	Set whether to skip the CBL/SAT input selector. Select "Skip" to skip this input.

Setting Item	Default Value	Setting Details
GAME	Use	Set whether to skip the GAME input selector. Select "Skip" to skip this input.
STRM BOX	Use	Set whether to skip the STRM BOX input selector. Select "Skip" to skip this input.
HDMI 5	Use	Set whether to skip the HDMI 5 input selector. Select "Skip" to skip this input.
HDMI 6	Use	Set whether to skip the HDMI 6 input selector. Select "Skip" to skip this input.
AUX	Use	Set whether to skip the AUX input selector. Select "Skip" to skip this input.
CD	Use	Set whether to skip the CD input selector. Select "Skip" to skip this input.
TV	Use	Set whether to skip the TV input selector. Select "Skip" to skip this input.
PHONO	Use	Set whether to skip the PHONO input selector. Select "Skip" to skip this input.
TUNER	Use	Set whether to skip the TUNER input selector. Select "Skip" to skip this input.
NET	Use	Set whether to skip the NET input selector. Select "Skip" to skip this input.
USB	Use	Set whether to skip the USB input selector. Select "Skip" to skip this input.
BLUETOOTH	Use	Set whether to skip the BLUETOOTH input selector. Select "Skip" to skip this input.

Speaker

You can make changes to the connection environment of the speakers and change the volume level. Settings are automatically configured if you use Full Auto MCACC. This setting cannot be selected if headphones are connected or audio is output from the speakers of the TV.

■ Configuration

Setting Item	Default Value	Setting Details
Speaker Channels	7.1.2 ch	Select "2.1 ch", "3.1 ch", "4.1 ch", "5.1 ch", "6.1 ch", "7.1 ch", "2.1.2 ch", "3.1.2 ch", "4.1.2 ch", "5.1.2 ch", "6.1.2 ch" or "7.1.2 ch" to suit the number of speaker channels connected. <ul style="list-style-type: none"> You can connect both surround back speakers and height speakers if you select "6.1.2 ch" or "7.1.2 ch". However, you can only output audio from one of these at a time. When both are connected, you can set which speakers to prioritize in "Other" - "Speakers", in "AV Adjust".
Subwoofer	Yes	Set whether a subwoofer is connected or not. "Yes": When subwoofer is connected "No": When subwoofer is not connected
Height Speaker	Top Middle	Set the speaker type if height speakers are connected to the HEIGHT terminals. Select "Front High", "Top Front", "Top Middle", "Top Rear", "Rear High", "Dolby Speaker (Front)", "Dolby Speaker (Surr)" or "Dolby Speaker (Back)" according to the type and layout of the connected speakers. <ul style="list-style-type: none"> If an item cannot be selected even though connection is correct, check that the settings in "Speaker Channels" matches the number of connected channels.

Setting Item	Default Value	Setting Details
Zone Speaker	No	Set the connection of speakers to Zone 2 speaker terminals. "Zone 2": When speakers are connected to Zone 2 speaker terminals "No": When speakers are not connected to Zone 2 speaker terminals
Speaker B	No	Set whether you will use the Speaker B system. "No": Speaker B system will not be used "Yes": Speaker B system will be used <ul style="list-style-type: none"> This item will be set to "No" when the "Zone Speaker" setting is "Zone 2".
Bi-Amp	No	Set whether the front speakers are bi-amp connected. "No": When front speakers are not bi-amp connected "Yes": When front speakers are bi-amp connected <ul style="list-style-type: none"> This item will be fixed to "No" when the "Zone Speaker" setting is "Zone 2" or when the "Speaker B" setting is "Yes". This setting cannot be selected when surround back speakers or height speakers are installed.

■ Crossover

Setting Item	Default Value	Setting Details
Front	Small	Set the low range capabilities for each channel by setting either small or large. "Small": For small speakers whose low range capabilities may be limited "Large": For full-range speakers with sufficient low range capabilities <ul style="list-style-type: none"> If "Configuration" - "Subwoofer" is set to "No", "Front" will be fixed to "Large" and the low pitched range of the other channels will be output from the front speakers. Refer to the instruction manual of your speakers to make the setting.

Setting Item	Default Value	Setting Details
Center	Small	Set the low range capabilities for each channel by setting either small or large. "Small": For small speakers whose low range capabilities may be limited "Large": For full-range speakers with sufficient low range capabilities <ul style="list-style-type: none"> When "Front" is set to "Small", this is set to "Small". If an item cannot be selected even though connection is correct, check that the settings in "Configuration" - "Speaker Channels" matches the number of connected channels.
Height	Small	Set the low range capabilities for each channel by setting either small or large. "Small": For small speakers whose low range capabilities may be limited "Large": For full-range speakers with sufficient low range capabilities <ul style="list-style-type: none"> When "Front" is set to "Small", this is set to "Small". If an item cannot be selected even though connection is correct, check that the settings in "Configuration" - "Speaker Channels" matches the number of connected channels.
Surround	Small	Set the low range capabilities for each channel by setting either small or large. "Small": For small speakers whose low range capabilities may be limited "Large": For full-range speakers with sufficient low range capabilities <ul style="list-style-type: none"> When "Front" is set to "Small", this is set to "Small". If an item cannot be selected even though connection is correct, check that the settings in "Configuration" - "Speaker Channels" matches the number of connected channels.

Setting Item	Default Value	Setting Details
Surround Back	Small	Set the low range capabilities for each channel by setting either small or large. "Small": For small speakers whose low range capabilities may be limited "Large": For full-range speakers with sufficient low range capabilities <ul style="list-style-type: none"> When "Surround" is set to "Small", this is set to "Small". If an item cannot be selected even though connection is correct, check that the settings in "Configuration" - "Speaker Channels" matches the number of connected channels.
Crossover	80Hz	When there are speakers that have been set to "Small", set the Hz under which you would like other speakers to play bass, and also set Hz under which you would like the LFE (low frequency effect) to play the bass. The value from "50Hz" to "200Hz" can be set.
Double Bass	Off	This can be selected only when "Configuration" - "Subwoofer" is set to "Yes" and "Front" is set to "Large". Boost bass output by feeding bass sounds from the front left and right, and center speakers to the subwoofer. "On": Bass output will be boosted "Off": Bass output will not be boosted <ul style="list-style-type: none"> The setting will not automatically be configured even if you performed Full Auto MCACC.

Setting Item	Default Value	Setting Details
Front Right	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Height Left	10.0ft/3.00m	Specify the distance between each speaker and the listening position. <ul style="list-style-type: none"> The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on.
Height Right	10.0ft/3.00m	Specify the distance between each speaker and the listening position. <ul style="list-style-type: none"> The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on.
Surround Right	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Surr Back Right	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Surr Back Left	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Surround Left	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Subwoofer	10.0ft/3.00m	Specify the distance between each speaker and the listening position.

- Default values vary depending on the regions.
- Distance units can be switched by pressing MODE on the remote controller. When the unit is set as feet, you can set between 0.1 ft and 30.0 ft in increments of 0.1ft. When the unit is set as meters, you can set between 0.03 m and 9.00 m in increments of 0.03 m.

■ Distance

Set the distance from each speaker to the listening position.

Setting Item	Default Value	Setting Details
Front Left	10.0ft/3.00m	Specify the distance between each speaker and the listening position.
Center	10.0ft/3.00m	Specify the distance between each speaker and the listening position.

■ Channel Level

Setting Item	Default Value	Setting Details
Front Left	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Center	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Front Right	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Height Left	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level. <ul style="list-style-type: none"> The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on.
Height Right	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level. <ul style="list-style-type: none"> The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on.
Surround Right	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Surr Back Right	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.

Setting Item	Default Value	Setting Details
Surr Back Left	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Surround Left	0.0 dB	Select a value between "– 12.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.
Subwoofer	0.0 dB	Select a value between "– 15.0 dB" and "+12.0 dB" (in 0.5 dB increments). A test tone will be output each time you change the value. Select the desired level.

■ Dolby Enabled Speaker


Setting Item	Default Value	Setting Details
Dolby Enabled Speaker to Ceiling	6.0 ft/1.80 m	Set the distance between the Dolby Enabled Speaker and the ceiling. Select between "0.1 ft/0.03 m" to "15.0 ft/4.50 m" (0.1 ft/0.03 m units). <ul style="list-style-type: none"> The unit of distance (ft/m) shown is the unit selected for use in "Distance".
Reflex Optimizer	Off	You can enhance the reflection effect of Dolby Enabled Speakers from the ceiling. "Off": When this function is not to be used "On": When this function is to be used <ul style="list-style-type: none"> The function is not effective if the listening mode is Pure Direct.

- This setting can be selected when "Configuration" - "Height Speaker" is set to "Dolby Speaker".

Audio Adjust

Make advanced settings such as those related to multiplex audio or those related to the volume of this unit.

■ Dual Mono/Mono

Setting Item	Default Value	Setting Details
Dual Mono	Main	Set the audio channel or language to be output when playing multiplex audio or multilingual TV broadcasts etc. "Main": Main channel only "Sub": Sub channel only "Main/Sub": Main and sub channels will be output at the same time. • If multiplex audio is being played, "1+1" will be displayed when  on the remote controller is pressed.
Mono Input Channel	Left + Right	Set the input channel to use for playing any 2 ch digital source such as Dolby Digital, or 2 ch analog/PCM source in the Mono listening mode. "Left": Left channel only "Right": Right channel only "Left + Right" : Left and right channels

■ Dolby

Setting Item	Default Value	Setting Details
Loudness Management	On	When playing Dolby TrueHD, enable the dialog normalization function which keeps the volume of dialog at a certain level. Note that when this setting is Off, the DRC function that allows you to enjoy surround at low volumes is fixed to off when playing Dolby Digital Plus/Dolby TrueHD. "On": When this function is to be used "Off": When this function is not to be used

■ Volume

Setting Item	Default Value	Setting Details
Mute Level	-∞dB	Set the volume lowered from the listening volume when muting is on. Select a value from "-∞dB", "-40dB", and "-20dB".
Volume Limit	Off	Set the maximum value to avoid too high volume. Select a value from "Off", "-32 dB" to "+17 dB".
Power On Level	Last	Set the volume level of when the power is turned on. Select a value from "Last" (Volume level before entering standby mode), "-∞ dB", and "-81.5 dB" to "+18.0 dB". • You cannot set a higher value than that of "Volume Limit".
Headphone Level	0.0 dB	Adjust the output level of the headphones. Select a value between "-12.0 dB" and "+12.0 dB".

Source

Make settings for input sources, such as volume difference adjustments for each input selector for the connected equipment.

■ Input Volume Absorber

Adjust the volume level difference between the devices connected to the unit. Select the input selector to configure.

Setting Item	Default Value	Setting Details
Input Volume Absorber	0.0 dB	Select a value between "-12.0 dB" and "+12.0 dB". Set a negative value if the volume of the target device is larger than the others and a positive value if smaller. To check the audio, start playback of the connected device. <ul style="list-style-type: none"> This function is not effective in Zone 2.

■ Name Edit

Set an easy name to each input. The set name will be shown on the main unit display. Select the input selector to configure.

Setting Item	Default Value	Setting Details
Name Edit	Input name	<ol style="list-style-type: none"> Select a character or symbol with the cursors and press ENTER. Repeat it to input 10 or less characters. <ul style="list-style-type: none"> "A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases) "←" "→": Moves the cursor to the arrow direction. "☒": Removes a character on the left of the cursor. "␣": Enters a space. <ul style="list-style-type: none"> Pressing CLEAR on the remote controller will remove all the input characters. After inputting, select "OK" with the cursors and press ENTER. The input name will be saved.

- To name a preset radio station, press TUNER on the remote controller, select AM/FM and select the preset number.
- This cannot be set if the "NET" "USB" or "BLUETOOTH" input is selected.

■ Audio Select

Select the priority for input selection when multiple audio sources are connected to one input selector, such as connections to both the "BD/DVD" HDMI IN jack and the "BD/DVD" AUDIO IN jack. The setting can be separately set to each input selector. Select the input selector to configure. Note that there are some default values you cannot change.

Setting Item	Default Value	Setting Details
Audio Select	BD/DVD: HDMI CBL/SAT: HDMI GAME: HDMI STRM BOX: HDMI HDMI 5: HDMI HDMI 6: HDMI AUX: HDMI CD: COAXIAL TV: OPTICAL PHONO: Analog	<p>"ARC": When giving priority to input signal from ARC compatible TV.</p> <ul style="list-style-type: none"> The setting can be selected only when "Hardware" - "HDMI" - "Audio Return Channel" is set to "Auto" and also the "TV" input is selected. <p>"HDMI": When giving priority to input signal from HDMI IN jacks</p> <ul style="list-style-type: none"> The setting can be selected only when the input is assigned to the HDMI jack in the "Input/Output Assign" - "HDMI Input" setting. <p>"COAXIAL": When giving priority to input signal from DIGITAL AUDIO IN COAXIAL jacks</p> <ul style="list-style-type: none"> The setting can be selected only when the input is assigned to the COAXIAL jack in the "Input/Output Assign" - "Digital Audio Input" setting. <p>"OPTICAL": When giving priority to input signal from DIGITAL AUDIO IN OPTICAL jacks</p> <ul style="list-style-type: none"> The setting can be selected only when the input is assigned to the OPTICAL jack in the "Input/Output Assign" - "Digital Audio Input" setting. <p>"Analog": To always output analog audio independently of the input signal</p> <ul style="list-style-type: none"> The setting can be selected only when the input is assigned to the AUDIO IN jack in the "Input/Output Assign" - "Analog Audio Input" setting.

Setting Item	Default Value	Setting Details
Fixed PCM	Off	Select whether to fix input signals to PCM (except multi-channel PCM) when you have selected "HDMI", "COAXIAL", or "OPTICAL" in the "Audio Select" setting. Set this item to "On" if noise is produced or truncation occurs at the beginning of a track when playing PCM sources. Select "Off" normally. <ul style="list-style-type: none"> Changing "Audio Select" changes the setting to "Off".

- The setting cannot be changed when "TUNER", "NET", "USB", or "BLUETOOTH" input is selected.

Hardware

Make settings related to the HDMI CEC, HDMI Standby Through, or ARC features, settings related to power management of the unit, such as Auto Standby and Network Standby, and output settings for the 12V Trigger jack.

■ HDMI

Setting Item	Default Value	Setting Details
HDMI CEC	Off	Setting to "On" enables the input selection link and other link functions with HDMI connected CEC compliant device. "On": When this function is to be used "Off": When this function is not to be used When changing this setting, turn off and then on again the power of all connected components. <ul style="list-style-type: none"> Depending on the TV set, a link may need to be configured on the TV. This function is effective only when the device is connected to the HDMI OUT MAIN terminal. Setting to "On" and closing the on-screen menu displays the name of the CEC-compatible components and "CEC On" on the display. Power consumption in standby mode may increase if "On" is set. (Depending on the TV status, the unit will enter the normal standby mode.) If you operate the MASTER VOLUME dial on the main unit when this setting is "On" and audio is output from the TV speakers, audio will be output also from the speakers connected to the unit. If you want to output from only either of them, change the unit or TV settings, or reduce the volume of the unit. If abnormal operation occurs when you set the setting to "On", set it to "Off". When connecting a non-CEC compatible component, or when you are not sure whether it is compatible, set the setting to "Off".

Setting Item	Default Value	Setting Details
HDMI Standby Through	Off	<p>When this is set to anything other than "Off", you can play the video and audio of an HDMI connected player on the TV even if the unit is in standby mode. Only "Auto" and "Auto (Eco)" can be selected if "HDMI CEC" is set to "On". If you select anything else, set "HDMI CEC" to "Off".</p> <ul style="list-style-type: none"> Power consumption in standby mode increases if set to anything other than "Off". <p>"BD/DVD", "CBL/SAT", "GAME", "STRM BOX", "HDMI 5", "HDMI 6", "AUX": For example, if you select "BD/DVD", you can play the equipment connected to the "BD/DVD" jack on the TV even if the unit is in standby mode. Select this setting if you have decided which player to use with this function.</p> <p>"Last": You can play the video and audio of the input selected immediately prior to the unit being switched to standby on the TV.</p> <p>"Auto", "Auto (Eco)": Select one of these settings when you have connected equipment that conforms to the CEC standard. You can play the video and audio of the input selected on the TV, irrespective of what input was selected immediately prior to the unit being switched to standby, using the CEC link function.</p> <ul style="list-style-type: none"> To play players on the TV that do not conform to the CEC standard, you will need to turn the unit on and switch to the relevant input. When using TV that complies with the CEC standard, you can reduce the power consumption in standby mode by selecting "Auto (Eco)".

Setting Item	Default Value	Setting Details
Audio TV Out	Off	<p>You can enjoy audio through the speakers of the TV while this unit is on.</p> <p>"On": When this function is to be used "Off": When this function is not to be used</p> <ul style="list-style-type: none"> This setting is fixed to "Auto" if you have set "Input/Output Assign" - "TV Out/OSD" - "HDMI Out" or "Other" - "HDMI Out" in "AV Adjust" to "MAIN" or "MAIN+SUB" and "HDMI CEC" is set to "On". If you change this setting, set "HDMI CEC" to "Off". Listening mode cannot be changed while "Audio TV Out" is set to "On" and audio is being output through the speakers of the TV. Depending on your TV set or input signal of the component, audio may not output through the speakers of the TV even if this setting is set to "On". In such case, audio is output from the speakers of the unit. If you operate the MASTER VOLUME dial on this unit when audio that is being input through this unit for output from the TV speakers, audio is output from this unit. If you do not want to output audio from the unit, change the unit or TV settings, or reduce the volume of the unit.
Audio Return Channel	Auto (*)	<p>You can enjoy sound of the HDMI connected ARC compatible TV through the speakers connected to the unit.</p> <p>* To use this function, set "HDMI CEC" to "On" in advance.</p> <p>"Auto": When enjoying the TV sound through the speakers connected to the unit "Off": When not using the ARC function</p>
Auto Delay	On	<p>This setting automatically corrects any desynchronization between the video and audio signals based on data from the HDMI LipSync compatible TV.</p> <p>"On": Automatic correction will be enabled "Off": Automatic correction will be disabled</p>

■ Power Management

Setting Item	Default Value	Setting Details
Sleep Timer	Off	Allows the unit to enter standby automatically when the specified time elapses. Select a value from "30 minutes", "60 minutes", and "90 minutes". "Off": Does not turn the unit to standby automatically.
Auto Standby	On/Off	This setting places the unit on standby automatically after 20 minutes of inactivity without any video or audio input. (When "Network Standby" is on, this becomes the HYBRID STANDBY mode which reduces the increase in power consumption to a minimum.) "On": The unit will automatically enter standby mode ("AUTO STBY" will light). "Off": The unit will not automatically enter standby mode. <ul style="list-style-type: none"> "Auto Standby" is displayed on the display and TV screen 30 seconds before the Auto Standby comes on. "Auto Standby" does not work when Zone 2 is active. Default values vary depending on the regions.
Auto Standby in HDMI Standby Through	Off	Enable or disable "Auto Standby" while "HDMI Standby Through" is on. "On": The setting will be enabled. "Off": The setting will be disabled. <ul style="list-style-type: none"> This setting cannot be set to "On" if "Auto Standby" and "HDMI Standby Through" are set to "Off".

Setting Item	Default Value	Setting Details
Network Standby	On	When this feature is turned "On", you can turn on the power of the unit via the network using an application such as Pioneer Remote App that can control this unit. <ul style="list-style-type: none"> When "Network Standby" is used, the power consumption increases even when the unit is on standby. However, the increase in power consumption is kept to a minimum by automatically entering the HYBRID STANDBY mode, where only the essential circuit is operating. When the connection to the network is lost, "Network Standby" is disabled to reduce power consumption. Use the power button on the remote controller or main unit to turn the unit on if this happens.
Bluetooth Wakeup	Off	This function wakes up the unit on standby by connecting a BLUETOOTH wireless technology enabled device. "On": When this function is to be used "Off": When this function is not to be used <ul style="list-style-type: none"> Setting to "On" increases the power consumption even when the unit is on standby. However, the increase in power consumption is kept to a minimum by automatically entering the HYBRID STANDBY mode, where only the essential circuit is operating. This setting is fixed to "Off" if "Network/Bluetooth" - "Bluetooth" - "Auto Input Change" is set to "Off".

- Wait for a while if "Network Standby" and "Bluetooth Wakeup" cannot be selected. It will appear when the network feature is started.

■ 12V Trigger A

Set when outputting the control signal (maximum 12 V/100 mA) through the 12V TRIGGER OUT A jack. Different settings can be set for each input selector. You can enable power link operation when you connect the unit and the external devices equipped with 12V trigger input jack.

Setting Item	Default Value	Setting Details
BD/DVD	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "BD/DVD" is selected as input source for the main room. "Zone2": Output when "BD/DVD" is selected as input source for ZONE2.
CBL/SAT	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "CBL/SAT" is selected as input source for the main room. "Zone2": Output when "CBL/SAT" is selected as input source for ZONE2.
GAME	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "GAME" is selected as input source for the main room. "Zone2": Output when "GAME" is selected as input source for ZONE2.
STRM BOX	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "STRM BOX" is selected as input source for the main room. "Zone2": Output when "STRM BOX" is selected as input source for ZONE2.
HDMI 5	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "HDMI 5" is selected as input source for the main room.
HDMI 6	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "HDMI 6" is selected as input source for the main room.

Setting Item	Default Value	Setting Details
AUX	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "AUX" is selected as input source for the main room.
CD	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "CD" is selected as input source for the main room. "Zone2": Output when "CD" is selected as input source for ZONE2.
TV	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "TV" is selected as input source for the main room. "Zone2": Output when "TV" is selected as input source for ZONE2.
PHONO	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "PHONO" is selected as input source for the main room. "Zone2": Output when "PHONO" is selected as input source for ZONE2.
TUNER	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "TUNER" is selected as input source for the main room. "Zone2": Output when "TUNER" is selected as input source for ZONE2.
NET	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "NET" is selected as input source for the main room. "Zone2": Output when "NET" is selected as input source for ZONE2.

Setting Item	Default Value	Setting Details
USB	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "USB" is selected as input source for the main room. "Zone2": Output when "USB" is selected as input source for ZONE2.
BLUETOOTH	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "BLUETOOTH" is selected as input source for the main room. "Zone2": Output when "BLUETOOTH" is selected as input source for ZONE2.

■ 12V Trigger B

Set when outputting the control signal (maximum 12 V/25 mA) through the 12V TRIGGER OUT B jack. Different settings can be set for each input selector. You can enable power link operation when you connect the unit and the external devices equipped with 12V trigger input jack.

Setting Item	Default Value	Setting Details
BD/DVD	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "BD/DVD" is selected as input source for the main room. "Zone2": Output when "BD/DVD" is selected as input source for ZONE2.
CBL/SAT	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "CBL/SAT" is selected as input source for the main room. "Zone2": Output when "CBL/SAT" is selected as input source for ZONE2.

Setting Item	Default Value	Setting Details
GAME	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "GAME" is selected as input source for the main room. "Zone2": Output when "GAME" is selected as input source for ZONE2.
STRM BOX	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "STRM BOX" is selected as input source for the main room. "Zone2": Output when "STRM BOX" is selected as input source for ZONE2.
HDMI 5	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "HDMI 5" is selected as input source for the main room.
HDMI 6	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "HDMI 6" is selected as input source for the main room.
AUX	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "AUX" is selected as input source for the main room.
CD	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "CD" is selected as input source for the main room. "Zone2": Output when "CD" is selected as input source for ZONE2.
TV	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "TV" is selected as input source for the main room. "Zone2": Output when "TV" is selected as input source for ZONE2.

Setting Item	Default Value	Setting Details
PHONO	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "PHONO" is selected as input source for the main room. "Zone2": Output when "PHONO" is selected as input source for ZONE2.
TUNER	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "TUNER" is selected as input source for the main room. "Zone2": Output when "TUNER" is selected as input source for ZONE2.
NET	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "NET" is selected as input source for the main room. "Zone2": Output when "NET" is selected as input source for ZONE2.
USB	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "USB" is selected as input source for the main room. "Zone2": Output when "USB" is selected as input source for ZONE2.
BLUETOOTH	Off	Set the 12V trigger output setting to each input. "Off": No output "Main": Output when "BLUETOOTH" is selected as input source for the main room. "Zone2": Output when "BLUETOOTH" is selected as input source for ZONE2.

Multi Zone

Make settings related to Multi-zone Connection, such as the volume for the separate room.

■ Zone 2

Setting Item	Default Value	Setting Details
Output Level	Fixed	Select whether to adjust the volume on the pre-main amplifier in the separate room or on this unit when outputting to Zone 2. "Fixed": Adjust on the pre-main amplifier in the separate room "Variable": Adjust on this unit
Volume Limit	Off	Set the maximum value for Zone 2 to avoid too high volume. Select "Off" or a value between "-32 dB" and "+17 dB".
Power On Level	Last	Set the Zone 2 volume level of when this unit is turned on. Select a value from "Last" (volume before the unit was turned off), "-∞ dB", and "-81.5 dB" to "+18.0 dB". • You cannot set a higher value than that of "Volume Limit".
Bass	0 dB	Adjust the volume of the bass for Zone 2. Select a value between "-10 dB" and "+10 dB".
Treble	0 dB	Adjust the volume of the treble for Zone 2. Select a value between "-10 dB" and "+10 dB".
Balance	0	Set the left-right balance for Zone 2. Select a value between "L + 10" to "R + 10".

■ 2. Remote Play Zone

Setting Item	Default Value	Setting Details
Remote Play Zone	Auto	<p>When playing using AirPlay or Spotify Connect, or when using the Music Server feature to play remotely from your PC, you can set whether to play in the main room (where this unit is) or in a separate room (ZONE 2).</p> <p>"Auto": When the main room input selector is NET, music is played in the main room. When the separate room input selector is NET and the main room is other than NET, then the music is played in the separate room.</p> <p>"Main", "Zone2": Select when limiting the play zone to a particular room. For example, when playing only in the separate room, select "Zone 2".</p> <ul style="list-style-type: none"> • This feature may not work if something is already being played with the same network feature.

Miscellaneous

Change the frequency step for the tuner, update the firmware, and perform Initial Setup, etc.

■ Tuner

Setting Item	Default Value	Setting Details
AM / FM Frequency Step (North American models)	10 kHz / 0.2 MHz	<p>Select a frequency step depending on your area of residence.</p> <p>Select "10 kHz/0.2 MHz" or "9 kHz/0.05 MHz".</p> <ul style="list-style-type: none"> • When this setting is changed, all radio presets are deleted.
AM Frequency Step (European, Australian and Asian models)	9 kHz	<p>Select a frequency step depending on your area of residence.</p> <p>Select "10 kHz" or "9 kHz".</p> <ul style="list-style-type: none"> • When this setting is changed, all radio presets are deleted.
AM Noise Cut Mode	1	<p>You can improve reception sensitivity by changing this mode if you are finding AM broadcasts difficult to hear. Select "1" or "2".</p>

■ Remote ID

Setting Item	Default Value	Setting Details
Remote ID	1	<p>Select an ID for the unit's remote controller from "1", "2", and "3" to prevent interference between the unit and other Pioneer components that are installed in the same room. After changing the ID on the main unit, change the ID on the remote controller accordingly with the following procedure.</p> <p>While holding down MODE, press the following buttons for about 3 seconds.</p> <ul style="list-style-type: none"> To change the remote controller ID to "1": ◀◀ (The remote indicator flashes once.) To change the remote controller ID to "2": ▶▶ (The remote indicator flashes twice.) To change the remote controller ID to "3": ▶▶▶ (The remote indicator flashes three times.)

■ Firmware Update

Setting Item	Default Value	Setting Details
Update Notice	Enable	<p>Availability of a firmware update will be notified via network.</p> <p>"Enable": Notify updates "Disable": Disable notifications</p>
Version	-	The current firmware version will be displayed.
Update via NET	-	<p>Press ENTER to select when you want to update the firmware via network.</p> <ul style="list-style-type: none"> You will not be able to select this setting if you do not have Internet access or there is nothing to update.
Update via USB	-	<p>Press ENTER to select when you want to update the firmware via USB.</p> <ul style="list-style-type: none"> You will not be able to select this setting if a USB storage device is not connected or there is nothing to update in the USB storage device.

- Wait for a while if "Firmware Update" cannot be selected. It will appear when the network feature is started.

■ Initial Setup

You can make the initial setup from the setup menu.

- Wait for a while if "Initial Setup" cannot be selected. It will appear when the network feature is started.


■ Lock

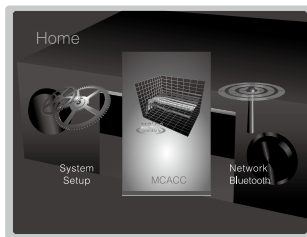
Setting Item	Default Value	Setting Details
Setup Parameter	Unlocked	<p>Lock the Setup menu to protect the settings.</p> <p>"Locked": The menu is locked. "Unlocked": The menu is unlocked.</p>





MCACC



Setup the speakers automatically or make desired changes to the equalizer. You can also check the values set currently for each speaker setting.



Operation:

Use the on-screen displays (OSD) that appear on the TV to make the settings. Press  on the remote controller to display the Home screen, then select MCACC with the cursors on the remote controller and press ENTER.



Select the item with the cursor /// buttons of the remote controller and press ENTER to confirm your selection.

Use the cursors / to change the default values.

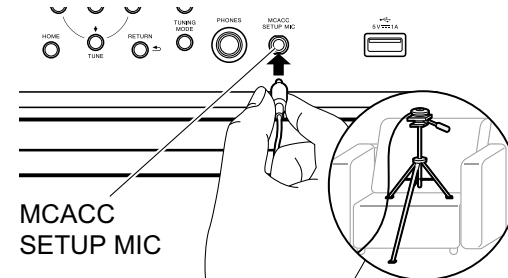
- To return to the previous screen, press .
- To exit the settings, press .

Full Auto MCACC

Place the supplied speaker setup microphone in the listening position, measure the test tones emitted by the speakers, then the unit automatically sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. It also adjusts the volume of the separate frequency ranges for each speaker so that the frequency balance over the entire system is adjusted.

- Calibration takes between 3 and 12 minutes to be completed. The speakers emit the test tone at high volume during measurement, so be careful of your surroundings. Keep the room as quiet as possible during measurement.
- If you have connected a subwoofer, check the power and volume of the subwoofer. Set the subwoofer volume to more than halfway.
- If the power of this unit suddenly turns off, the wires in the speaker cables may have touched the rear panel or other wires and tripped the protection circuit. Twist the wires again properly and make sure they do not stick out of the speaker terminals when connecting.

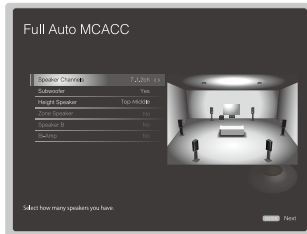
1. Place the supplied speaker setup microphone in the listening position, and connect to the MCACC SETUP MIC jack on the main unit.



When putting the speaker setup microphone on a tripod, refer to the illustration when putting it in place.

- To cancel Full Auto MCACC partway through, disconnect the speaker setup microphone. You cannot use any other menu options while it is connected.

2. Select the connected speaker configuration.



The image on the screen changes as you choose the number of channels in "Speaker Channels", so refer to it when performing the settings. Use this screen to select whether you have connected a subwoofer and to select the type of height speaker, etc.

3. Test tones are emitted by the speakers, and firstly the unit detects the speakers connected and the noise in the environment.
4. The results of the measurements made in 3. are displayed. If there are no problems with the speaker detection results, select "Next" with the cursors on the remote controller and press ENTER to proceed to the next step. (If no operation is performed, the unit proceeds to the next step automatically after 10 seconds.)
 - If an error message is displayed or a connected speaker is not detected, select "Retry" and do the measurements again. If the same problem is detected after doing the measurements again, there may be a problem with the speaker connections. Turn the unit off and check the connections. If there is a problem with the connection, first unplug the power cord, then do the connections properly. When the connections are complete, turn the unit on and do the measurements again.
5. The test tones are emitted again, and the unit automatically makes settings such as the optimum volume level and the crossover frequency.
6. When the measurement is completed, the measurement result is displayed. Press the cursors ◀/▶ on the remote controller to check the settings. Press ENTER when "Save" is selected to save the settings.
7. Disconnect the speaker setup microphone.

Manual MCACC

■ EQ Adjust


If you perform Full Auto MCACC then settings are automatic, but you can also adjust the output volume of the range of each connected speaker to suit your own preferences. You can adjust the volume of the different sound ranges for each of the speakers. You can set three different equalizers in Preset 1 to 3. You can select up to 4 bands for the Subwoofer and 9 bands for all other speakers.

Setting Item	Default Value	Setting Details
Front Left	0 dB	After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "-12.0 dB" and "+12.0 dB" with ▲/▼. <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover".
Center	0 dB	After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "-12.0 dB" and "+12.0 dB" with ▲/▼. <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.
Front Right	0 dB	After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "-12.0 dB" and "+12.0 dB" with ▲/▼. <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover".

Setting Item	Default Value	Setting Details
Height Left	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on. • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.
Height Right	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • The setting cannot be changed if "Zone 2" is set in "Configuration" - "Zone Speaker" and Zone 2 is on. • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.

Setting Item	Default Value	Setting Details
Surround Right	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.
Surr Back Right	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.
Surr Back Left	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> • "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". • If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.

Setting Item	Default Value	Setting Details
Surround Left	0 dB	<p>After selecting the speaker frequency from between "63 Hz" and "16 kHz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> "63 Hz" can only be selected when this speaker is set to "Large" in "System Setup" - "Speaker" - "Crossover". If an item cannot be selected even though connection is correct, check that the settings in "System Setup" - "Speaker" - "Configuration" - "Speaker Channels" matches the number of connected channels.
Subwoofer	0 dB	<p>After selecting the speaker frequency from between "31 Hz" and "250 Hz" with the cursors ◀/▶, adjust the volume of that frequency between "−12.0 dB" and "+12.0 dB" with ▲/▼.</p> <ul style="list-style-type: none"> This cannot be selected if "No" is set in "System Setup" - "Speaker" - "Configuration" - "Subwoofer".

- The result may not be as expected depending on the input source and listening mode setting.
- If you want to make the adjustments while listening to something, press  on the remote controller, and select the Preset you want to adjust in "AV Adjust" - "MCACC" - "Manual EQ Select" first.

MCACC Data Check

You can check the number of speaker channels connected and the content and values you have set for each of the speaker settings.

■ Speaker Setting

You can check the number of speaker channels connected and the large and small settings you have set for the low range reproduction capabilities for each of the speakers.

■ Channel Level

You can check the output level settings for each of the speakers.

■ Speaker Distance

You can check the distance from each speaker to the listening position.

■ Acoustic Calibration EQ

You can check the calibration values for the frequency characteristics of each speaker that were set in "Manual MCACC".

- The EQ measurement values for "Full Auto MCACC" are not displayed.

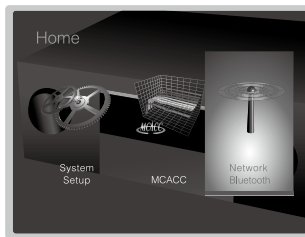
Network/Bluetooth

Make settings related to network connections and BLUETOOTH.

Operation:

Use the on-screen displays (OSD) that appear on the TV to make the settings.

Press **Home** on the remote controller to display the Home screen, select Network/Bluetooth with the cursors on the remote controller, then press ENTER.



Select the item with the cursor **▲/▼/◀/▶** buttons of the remote controller and press ENTER to confirm your selection.

Use the cursors **◀/▶** to change the default values.

- To return to the previous screen, press **◀**.
- To exit the settings, press **Home**.

Network

- When LAN is configured with a DHCP, set "DHCP" to "Enable" to configure the setting automatically. ("Enable" is set by default.) To assign fixed IP addresses to each components, you must set "DHCP" to "Disable" and assign an address to this unit in "IP Address" as well as set information related to your LAN, such as Subnet Mask and Gateway.

Setting Item	Default Value	Setting Details
Wi-Fi	Off (Wired)	Connect the unit to network via wireless LAN router. "On": Wireless LAN connection "Off (Wired)": Wired LAN connection
Wi-Fi Setup	-	You can configure wireless LAN settings by pressing ENTER when "Start" is displayed.
Wi-Fi Status	-	The information of the connected access point will be displayed. "SSID": SSID of the connected access point. "Signal": Signal strength of the connected access point. "Status": Status of the connected access point.
MAC Address	-	This is the MAC address of this unit. This value is specific to the component and cannot be changed.
DHCP	Enable	"Enable": Auto configuration by DHCP "Disable": Manual configuration without DHCP <ul style="list-style-type: none"> • If selecting "Disable", you must set "IP Address", "Subnet Mask", "Gateway", and "DNS Server" manually.
IP Address	0.0.0.0	Displays/Sets the IP address.
Subnet Mask	0.0.0.0	Displays/Sets the subnet mask.
Gateway	0.0.0.0	Displays/Sets the gateway.
DNS Server	0.0.0.0	Displays/Sets the primary DNS server.
Proxy URL	-	Displays/Sets the proxy server URL.
Proxy Port	8080	Displays/Sets the proxy server port number when you enter "Proxy URL".

Setting Item	Default Value	Setting Details
Friendly Name	Pioneer SC-LX502 XXXXXX	<p>Change the device name for this unit which is shown on other devices connected to the network to an easily recognized name.</p> <ol style="list-style-type: none"> Press ENTER to display the Edit screen. Select a character or symbol with the cursors and press ENTER. Repeat it to input 31 or less characters. "A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases.) "←" "→": Moves the cursor to the arrow direction. "⌫": Removes a character on the left of the cursor. "␣": Enters a space. <ul style="list-style-type: none"> Pressing CLEAR on the remote controller will remove all the input characters. After inputting, select "OK" with the cursors and press ENTER. The input name will be saved.

Setting Item	Default Value	Setting Details
AirPlay Password		<p>You can set a password of up to 31 characters so that only registered users can use AirPlay®.</p> <ol style="list-style-type: none"> Press ENTER to display the Edit screen. Select a character or symbol with the cursors and press ENTER. Repeat it to input 31 or less characters. "A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases.) "←" "→": Moves the cursor to the arrow direction. "⌫": Removes a character on the left of the cursor. "␣": Enters a space. <ul style="list-style-type: none"> To select whether to mask the password with "*" or display it in plain text, press +Fav on the remote controller. Pressing CLEAR on the remote controller will remove all the input characters. After inputting, select "OK" with the cursors and press ENTER. The input password will be saved.
Usage Data	No	<p>As a means of improving the quality of our products and services, we may collect information about your usage over the network. Select "Yes" if you agree to our collecting this information. Select "No" if you do not want us to collect this information.</p> <ul style="list-style-type: none"> You can set this after confirming the Privacy Policy. When you select "Usage Data" and press ENTER, the Privacy Policy is displayed. (The same screen is displayed once also when setting up the network connection.) If you agree to the collection of the information, this setting also becomes "Yes". Note that if you agree to the Privacy Policy but select "No" for this setting, the information will not be collected.
Network Check	-	<p>You can check the network connection. Press ENTER when "Start" is displayed.</p>

- Wait for a while if "Network" cannot be selected. It will appear when the network feature is started.

Bluetooth

Setting Item	Default Value	Setting Details
Bluetooth	On	Select whether or not to use the BLUETOOTH function. "On": Enables connection with a BLUETOOTH wireless technology enabled device by using the BLUETOOTH function. Select "On" also when making various BLUETOOTH settings. "Off": When not using the BLUETOOTH function
Auto Input Change	On	The input of the unit will automatically be switched to "BLUETOOTH" when connection is made from a BLUETOOTH wireless technology enabled device to the unit. "On": The input will automatically become "BLUETOOTH" when a BLUETOOTH wireless technology enabled device is connected. "Off": The function is disabled. <ul style="list-style-type: none"> • If the input is not switched automatically, set to "Off" and change the input manually.
Auto Reconnect	On	This function automatically reconnects to the BLUETOOTH wireless technology enabled device connected last when you change the input to "BLUETOOTH". "On": When this function is to be used "Off": When this function is not to be used <ul style="list-style-type: none"> • This may not work with some BLUETOOTH wireless technology enabled devices.


Setting Item	Default Value	Setting Details
Pairing Information	-	You can initialize the pairing information saved on this unit. Pressing ENTER when "Clear" is displayed initializes the pairing information stored in this unit. <ul style="list-style-type: none"> • This function does not initialize the pairing information on the BLUETOOTH wireless technology enabled device. When pairing the unit again with the device, be sure to clear the pairing information on the BLUETOOTH wireless technology enabled device in advance. For information on how to clear the pairing information, refer to the BLUETOOTH wireless technology enabled device's instruction manual.
Device	-	Displays the name of the BLUETOOTH wireless technology enabled device connected to the unit. <ul style="list-style-type: none"> • The name is not displayed when "Status" is "Ready" and "Pairing".
Status	-	Displays the status of the BLUETOOTH wireless technology enabled device connected to the unit. "Ready": Not paired "Pairing": Paired "Connected": Successfully connected

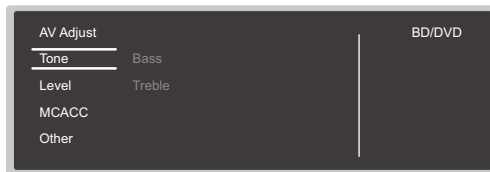
- Wait for a while if "Bluetooth" cannot be selected. It will appear when the BLUETOOTH function is started up.


AV Adjust



You can quickly adjust settings you frequently use, such as tone adjustments, etc.

Operation:

You can make the settings on the TV screen while playing something. Press  on the remote controller to display the AV Adjust menu. Note that there is no display on the TV screen when the input selector is "CD", "TV", "PHONO", "FM", or "AM", so follow the main unit's display while doing the operations.



Select the item with the cursor  buttons of the remote controller and press ENTER to confirm your selection. Use the cursors to change the settings.

- To return to the previous screen, press .
- To exit the settings, press .

■ Tone

Bass :

Enhance or moderate the bass range of all channels except the subwoofer channel.

Treble :

Enhance or moderate the treble range of all channels except the subwoofer channel.

- It cannot be set if the listening mode is Direct or Pure Direct.

■ Level

Center :

Adjust the speaker level of the center speaker while listening to some sound.

Subwoofer :

Adjust the speaker level of the subwoofer while listening to some sound.

- The adjustment you made will be reset to the previous status when you turn the unit to standby mode.

■ MCACC

MCACC EQ :

Enable or disable the equalizer function that adjusts the frequency balance over the entire speaker system.

- This setting cannot be selected if Full Auto MCACC setting has not been performed.
- It cannot be set if the listening mode is Pure Direct.

Manual EQ Select :

From the Home screen, select "Preset 1" to "Preset 3" which were set in "MCACC" - "Manual MCACC" - "EQ Adjust". The same sound field setting is applied all ranges when set to "Off".

- It cannot be set if the listening mode is Pure Direct.

Phase Control :

Correct phase disturbance in the low range to enable powerful bass reproduction that is faithful to the original sound.

- It cannot be set if the listening mode is Pure Direct.

Theater Filter :

Adjust the soundtrack that was processed to enhance its high pitch range, in order to make it suitable for home theater.

- It cannot be set if the listening mode is Direct or Pure Direct.

■ Other

Sound Delay :

If the video is behind the audio, you can delay the audio to offset the gap. Different settings can be set for each input selector.

- It cannot be set if the listening mode is Pure Direct and the input signal is analog.

Sound Retriever :

Improve the quality of the compressed audio. Playback sound of lossy compressed files such as MP3 will be improved. The setting can be separately set to each input selector. The setting is effective in the signals of 48 kHz or less. The setting is not effective in the bitstream signals.

- It cannot be set if the listening mode is Direct or Pure Direct.

Speakers :

When surround back speakers and height speakers are connected, you switch the speakers you want to prioritize for output. Also, when Speaker B are used, you switch output between Speaker A/B/A+B.

- Note that sound is not output from the surround back speaker during Speaker A+B output.

HDMI Out :

Allows you to select the HDMI jack to output video signals from "MAIN", "SUB", and "MAIN+SUB".

DRC :

Make small sounds easily heard. It is useful when you need to reduce the volume while watching a movie late night. You can enjoy the effect only when playing Dolby series and DTS series input signals.

- It cannot be set if the listening mode is Direct or Pure Direct.
- The setting cannot be used in the following cases.
 - If "Loudness Management" is set to "Off" when playing Dolby Digital Plus or Dolby TrueHD
 - When the input signal is DTS:X and "Dialog Control" is other than 0 dB

Center Spread :

Adjust the width of the sound field of the front channel when playing in the Dolby Surround listening mode. To spread the width of the sound field to the left and right, set to "On". To concentrate sound in the center, set to "Off".

- Depending on the speaker settings, this becomes "Off".


Dialog Control :

You can increase the dialog portion of the audio in 1 dB steps up to 6 dB so that you can make dialog easier to hear over background noise.

- This cannot be set for content other than DTS:X.
- The effect may not be selectable with some content.

Web Setup

You can make the settings for network features for this unit in an internet browser on a PC, smartphone, etc.

1. Press  on the remote controller to display the Home screen.
2. Select "Network/Bluetooth" - "Network" with the cursors, then take a note of the IP address displayed in "IP Address".
3. Start the internet browser on your PC or smartphone and enter the IP address of the unit in the URL field.
4. Information for the unit (Web Setup screen) is displayed in the internet browser.



5. After changing the settings, select "Save" to save the settings.

Device Information

You can change the Friendly Name, set an AirPlay Password, etc.

Control4: Register this unit if you are using a Control4 system.

Firmware Update: Select the firmware update you have downloaded to your PC so you can update this unit.

Network Setting

Status: You can see information for the network such as the MAC address and IP address for this unit.

Network Connection: You can select how to connect to the network. If you select "Wireless", select an access point from "Wi-Fi Setup" to connect.

DHCP: You can change DHCP settings. If you select "Off", set "IP Address", "Subnet Mask", "Gateway", and "DNS Server" manually.

Proxy: Display and set the URL for the proxy server.

Control Function Settings

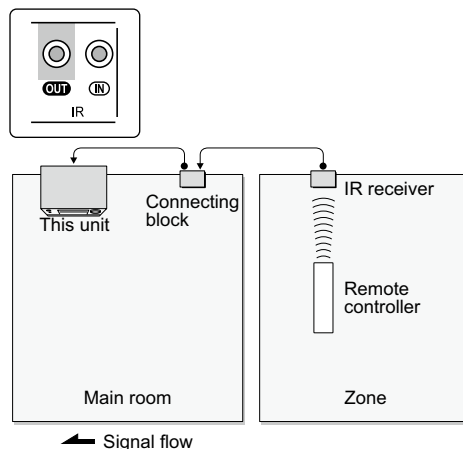
You can enable the control functions between the unit and external devices. Special devices or cable connections are necessary to enable the functions. For more information about installation, contact a store specializing in these products.

■ RS-232C port

Use this port for connection with an integrated control system that can enable home automation. Some integrated control systems provide a centralized operation with a single touch panel controller in order to control audio and video home appliances and security devices together. For more information about adopting an integrated control system, contact the specialized stores.

■ IR jack

If you use a commercially available multiroom remote control kit with this jack, you can operate the unit with the remote controller even when you are in a separate room, or operate the unit with the remote controller even if its remote control sensor is difficult to see. You can also connect a device with the unit and operate it with the remote controller.



- Other companies may use indications other than IR on their products. Confirm in the instruction manual included with your components.
- Refer to the instruction manual of the IR receiver for the types of cables required for connection.

■ 12V trigger output jack

You can enable power link operation when you connect the unit and an external device such as power amplifier equipped with 12V trigger input jack. When the desired input is selected on the unit, power link operation will be activated with a control signal of maximum 12 V/100 mA from the 12V TRIGGER OUT A jack or maximum 12 V/25 mA when using the 12V TRIGGER OUT B jack. You can select the zone to output the control signal by setting each of the inputs. For connection, use a monaural mini plug cable without a resistor.

Firmware Update

The updating function on this unit

This unit has functionality to update the firmware (the system software) over a network or by the USB port. This enables us to make improvements to a variety of operations and to add features.

- For the latest information on updates, visit our company's website. There is no need to update the firmware on this unit if there is no update available.
- Before updating, make sure that the speaker setup microphone is not connected.
- During an update, do not
 - Disconnect and reconnect any cable, USB storage device, speaker setup microphone or headphones, or perform any operation on the component such as turn off its power
 - Accessing this unit from a PC or smartphone using an application
- The update may take about 20 minutes to complete for either method: via network or via USB. Furthermore, existing settings are guaranteed regardless of the method used for update.

Note that when this unit is connected to a network, you may see notifications about firmware updates on the display. To execute updating, select "Update Now" with the cursor buttons of the remote controller and press ENTER. The unit automatically turns itself into standby mode after "Completed!" appears on the display, and updating will be complete.

Disclaimer: The program and accompanying online documentation are furnished to you for use at your own risk.


Our company will not be liable and you will have no remedy for damages for any claim of any kind whatsoever

concerning your use of the program or the accompanying online documentation, regardless of legal theory, and whether arising in tort or contract.

In no event will our company be liable to you or any third party for any special, indirect, incidental, or consequential damages of any kind, including, but not limited to, compensation, reimbursement or damages on account of the loss of present or prospective profits, loss of data, or for any other reason whatsoever.


Updating the Firmware via Network

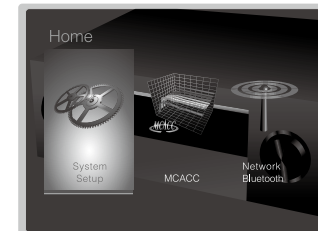
Preparation:

- Check that the unit is turned on, and the connection to the Internet is secured.
- Turn off the controller component (PC etc.) connected to the network.
- Stop any playing Internet radio, USB storage device, or server content.
- If the multi-zone function is active, turn it off.
- If "HDMI CEC" is set to "On", set it to "Off".
 - Press  on the remote controller to display the Home screen. Next, select "System Setup" - "Hardware" - "HDMI", press ENTER, select "HDMI CEC" and select "Off".

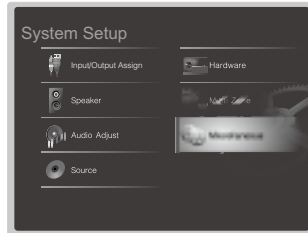
* The description may differ from the on-screen display but that will not change the way to operate or the function.

■ Update

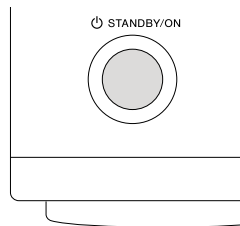
1. Press  on the remote controller. The Home screen is displayed on the TV screen.



2. Select "System Setup" - "Miscellaneous" - "Firmware Update" - "Update via NET" with the cursors in order, then press ENTER.



- If "Firmware Update" is grayed out and cannot be selected, wait for a while until it starts up.
 - You will not be able to select "Update via NET" if there is nothing to update.
3. Press ENTER with "Update" selected to start update.
 - During the update, the TV screen may go black depending on the updated program. In that case, check the progress on the display of the unit. The TV screen will remain black until the update is complete and the power is turned on again.
 - "Completed!" is displayed when the update is complete.
 4. Press \odot STANDBY/ON on the main unit to turn the unit into standby mode. The process is completed and your firmware is updated to the latest version.
 - Do not use \odot on the remote controller.



■ If an Error Message is Displayed

When an error occurs, "*-* * Error!" is displayed on the display of the unit. ("*" represents an alphanumeric character.) Check the following:

Error Code

- ***-01, *-10:**
Ethernet cable not found. Connect the Ethernet cable properly.
- ***-02, *-03, *-04, *-05, *-06, *-11, *-13, *-14, *-16, *-17, *-18, *-20, *-21:**
Internet connection error. Check the following:
 - The router is turned on
 - This unit and the router are connected via the network
 Try to disconnect and then connect again the power to the unit and router. This may solve the problem. If you are still unable to connect to the Internet, the DNS server or proxy server may be temporarily down. Check the service status with your ISP provider.
- **Others:**
Disconnect then reconnect the AC power cord, then repeat from the beginning.


Updating via USB

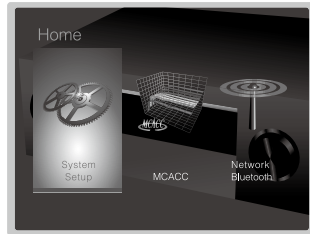
Preparation:

- Prepare a 128MB or larger USB storage device. FAT16 or FAT32 file system format.
 - Media inserted in a USB card reader may not be used for this function.
 - USB storage devices with security function are not supported.
 - USB hubs and USB devices with hub function are not supported. Do not connect these devices to the unit.
- Delete any data stored on the USB storage device.
- Turn off the controller component (PC etc.) connected to the network.
- Stop any playing Internet radio, USB storage device, or server content.
- If the multi-zone function is active, turn it off.
- If "HDMI CEC" is set to "On", set it to "Off".
 - Press HOME on the remote controller to display the Home screen. Next, select "System Setup" - "Hardware" - "HDMI", press ENTER, select "HDMI CEC" and select "Off".
- * Some USB storage devices may take long to load, may not be loaded correctly, or may not be correctly fed depending on the device or their content.
- * Our company will not be liable whatsoever for any loss or damage of data, or storage failure arising from the use of the USB storage device with this unit. Thank you for your understanding.
- * The description may differ from the on-screen display but that will not change the way to operate or the function.

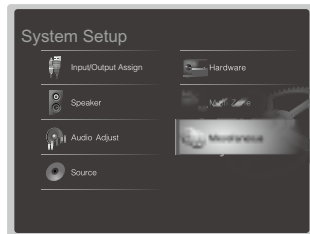
■ Update

1. Connect the USB storage device to your PC.
2. Download the firmware file from our company's website to your PC and unzip.
Firmware files are named in the following way:
PIOAVR****_*****.zip
Unzip the file on your PC. The number of unzipped files and folders varies depending on the model.
3. Copy all unzipped files and folders to the root folder of the USB storage device.

- Make sure to copy the unzipped files.
4. Connect the USB storage device to the USB port of the unit.
 - If you connect a USB hard disk drive to the USB port of the unit, we recommend that you use its AC adapter to power it.
 - If the USB storage device has been partitioned, each section will be treated as an independent device.
 5. Press  on the remote controller. The Home screen is displayed on the TV screen.





6. Select "System Setup" - "Miscellaneous" - "Firmware Update" - "Update via USB" with the cursors in order, then press ENTER.

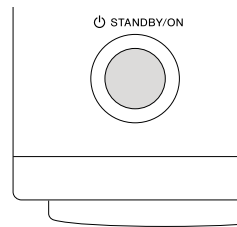


- If "Firmware Update" is grayed out and cannot be selected, wait for a while until it starts up.
 - You will not be able to select "Update via USB" if there is nothing to update.
7. Press ENTER with "Update" selected to start update.
 - During the update, the TV screen may go black

depending on the updated program. In that case, check the progress on the display of the unit. The TV screen will remain black until the update is complete and the power is turned on again.

- During the update, do not turn off, or disconnect then reconnect the USB storage device.
 - "Completed!" is displayed when the update is complete.
8. Disconnect the USB storage device from the unit.
 9. Press  STANDBY/ON on the main unit to turn the unit into standby mode. The process is completed and your firmware is updated to the latest version.
 - Do not use  on the remote controller.

repeat from the beginning.



■ If an Error Message is Displayed

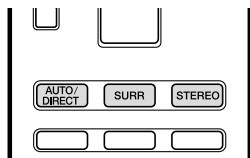
When an error occurs, "*-* * Error!" is displayed on the display of the unit. ("*" represents an alphanumeric character.) Check the following:

Error Code

- ***-01, *-10:**
USB storage device not found. Check whether the USB storage device or USB cable is correctly inserted to the USB port of the unit.
Connect the USB storage device to an external power source if it has its own power supply.
- ***-05, *-13, *-20, *-21:**
The firmware file is not present in the root folder of the USB storage device, or the firmware file is for another model. Retry from the download of the firmware file.
- **Others:**
Disconnect then reconnect the AC power cord, then

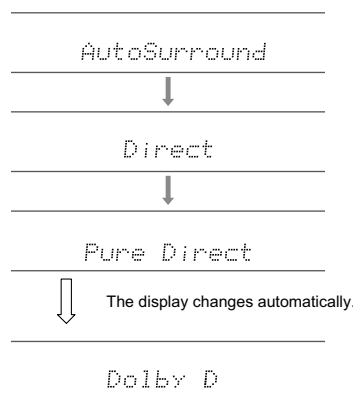
Selecting Listening Modes

You can change the listening mode during play by pressing repeatedly "AUTO/DIRECT", "SURR", or "STEREO".



■ AUTO/DIRECT button

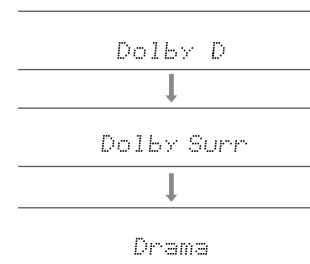
Press repeatedly and the listening modes suited to the input signal are switched between "Auto Surround", "Direct", and "Pure Direct". After selecting one of them, "Auto Surround" (or "Direct" or "Pure Direct") is displayed, then the most suitable listening mode for the audio format is selected automatically (Dolby Digital for multi-channel input signals, Stereo for 2 channel input signals, etc.) and an indicator such as "Dolby D" is displayed on the display.



The "Direct" mode shuts down some processing that can affect sound quality, such as the tone control features, so you can enjoy even better sound quality. The "Pure Direct" mode shuts down even more processes that affects sound quality, so you get a more faithful reproduction of the original sound. In this case, the speaker calibration made with MCACC is invalid.

■ SURR button

By pressing repeatedly you can select the audio format of the signals being input and switch between a variety of listening modes. Select the mode that suits your preference. The selected listening mode is displayed on the display.



■ STEREO button

You can select the "Stereo" mode to playback only from the front speakers and subwoofer.

For details on the effects of each of the listening modes see "Listening Mode Effects". For listening modes selectable for each of the audio formats in the input signals, refer to "Selectable Listening Modes".

Listening Mode Effects

In alphabetical order

■ Action

Mode suitable for movies with a lot of action scenes.

■ AdvancedGame

Mode suitable for game content.

■ Classical

Suitable for classical or operatic music. This mode emphasizes the surround channels in order to widen the sound image, and simulates the natural reverberation of a large hall.

■ Dolby Atmos

This mode faithfully reproduces the sound design recorded in the Dolby Atmos audio format.

The Dolby Atmos audio format has been implemented in movie theaters equipped with the latest facilities and enables a revolutionary sound experience in home theaters. Unlike existing surround systems, Dolby Atmos doesn't rely on channels, but rather enables the accurate placement of sound objects that have independent motion in a three-dimensional space with even greater clarity. Dolby Atmos is an optional audio format on Blu-ray Discs and achieves a three-dimensional sound field by introducing a sound field above the listener.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ Dolby D (Dolby Digital)

This mode faithfully reproduces the sound design recorded in the Dolby Digital audio format. Dolby Digital is a multi-channel digital format developed

by Dolby Laboratories, Inc. widely adopted for use in movie production. It is also a standard audio format on DVD-Video and Blu-ray Discs. It is possible to record a maximum of 5.1 channels on a DVD-Video or Blu-ray Disc; two front channels, a center channel, two surround channels, and the LFE channel dedicated to the bass region (sound elements for the subwoofer).

- To enable transfer of this audio format, connect via digital cable and set audio output on the player to bitstream output.

■ Dolby D+ (Dolby Digital Plus)

This mode faithfully reproduces the sound design recorded in the Dolby Digital Plus audio format.

The Dolby Digital Plus format is a revision based on Dolby Digital, increasing the number of channels and endeavoring to improve sound quality by giving more flexibility in data bit rates. Dolby Digital Plus is used as an optional audio format on Blu-ray Discs, based on 5.1ch, but with additional channels such as the Surround Back channel added for a maximum of 7.1ch.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ Dolby Surround

This listening mode allows you to expand the playback signal to 5.1 channels or 7.1 channels to suit the connected speaker configuration when the input signal is 2 channels or 5.1 channels. Along with past speaker setups, this is also compatible with playback systems for Dolby Atmos that include Dolby speaker technology.

■ Dolby TrueHD

This mode faithfully reproduces the sound design recorded in the Dolby TrueHD audio format.

The Dolby TrueHD audio format is a reversible format expanded based on the lossless compression technology referred to as MLP, and it makes it possible to faithfully reproduce the master audio recorded in the studio. Dolby TrueHD is used as an optional audio format on Blu-ray Discs, based on 5.1ch, but with additional channels such

as the Surround Back channel added for a maximum of 7.1ch. 7.1ch is recorded at 96kHz/24bit, and 5.1ch is recorded at 192kHz/24bit.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ Drama

Suitable for TV shows produced in a TV studio. This mode enhances the surround effects to the entire sound to give clarity to voices and create a realistic acoustic image.

■ DSD

Mode suitable for playing sources recorded in DSD.

- This unit supports DSD signals input through HDMI IN. However, depending on the connected player, better sound is possible when output from the PCM output of the player.
- This listening mode cannot be selected if the output setting on your Blu-ray Disc/DVD player is not set to DSD.

■ DTS

This mode faithfully reproduces the sound design recorded in the DTS audio format.

The DTS audio format is a multi-channel digital format developed by DTS, Inc. This format is an optional audio format on DVD-Video and a standard on Blu-ray Discs. It enables recording of 5.1 channels; two front channels, a center channel, two surround channels, and the LFE channel dedicated to the bass region (sound elements for the subwoofer). The content is recorded with a rich volume of data, with maximum sampling rate of 48 kHz at a resolution of 24 bits and a bit rate of 1.5 Mbps.

- To enable transfer of this audio format, connect via digital cable and set audio output on the player to bitstream output.

■ DTS 96/24

This mode faithfully reproduces the sound design recorded in the DTS 96/24 audio format.

The DTS 96/24 format is an optional audio format on DVD-Video and Blu-ray Discs. It enables recording of 5.1 channels; two front channels, a center channel, two surround channels, and the LFE channel dedicated to the bass region (sound elements for the subwoofer). Detailed reproduction is achieved by recording the content at a sampling rate of 96 kHz at a resolution of 24 bits.

- To enable transfer of this audio format, connect via digital cable and set audio output on the player to bitstream output.

■ DTS Express

This mode faithfully reproduces the sound design recorded in the DTS Express audio format.

DTS Express is used as an optional audio format on Blu-ray Discs, based on 5.1ch, but with channels such as the surround back channel added for a maximum of 7.1ch. It also supports low bit rates.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ DTS-HD HR (DTS-HD High Resolution Audio)

This mode faithfully reproduces the sound design recorded in the DTS-HD High Resolution Audio audio format.

DTS-HD High Resolution Audio is used as an optional audio format on Blu-ray Discs, based on 5.1ch, but with additional channels such as the Surround Back channel added for a maximum of 7.1ch. It can be recorded at a sampling rate of 96 kHz with a resolution of 24 bits.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ DTS-HD MSTR (DTS-HD Master Audio)

This mode faithfully reproduces the sound design recorded in the DTS-HD Master Audio audio format.

DTS-HD Master Audio is used as an optional audio format on Blu-ray Discs, based on 5.1ch, but with additional channels such as the Surround Back channel added for a maximum of 7.1ch, recorded using lossless audio reproduction technology. 96kHz/24bit is supported with

7.1ch, and 192kHz/24bit is supported with 5.1ch.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ DTS Neural:X

This listening mode allows you to expand the playback signal to 5.1 channels or 7.1 channels to suit the connected speaker configuration when the input signal is 2 channels or 5.1 channels.

■ DTS:X

This mode faithfully reproduces the sound design recorded in the DTS:X audio format.

The DTS:X audio format is a combination of the mixing methodology based on past channel based formats (5.1ch and 7.1ch) and object based dynamic audio mixing, and it is characterized by the precise positioning of sounds and the ability to express movement.

- To enable transfer of this audio format, connect via HDMI cable and set audio output on the player to bitstream output.

■ ES Discrete (DTS-ES Discrete)

This mode faithfully reproduces the sound design recorded in the DTS-ES Discrete audio format.

DTS-ES Discrete is used as an optional audio format on DVD-Video and Blu-ray Discs, based on 5.1ch, but with an additional monaural surround back channel added for a maximum of 6.1ch.

- To enable transfer of this audio format, connect via digital cable and set audio output on the player to bitstream output.

■ ES Matrix (DTS-ES Matrix)

This mode faithfully reproduces the sound design recorded in the DTS-ES Matrix audio format.

DTS-ES Matrix is used as an optional audio format on DVD-Video and Blu-ray Discs, based on 5.1ch, but with a monaural Surround Back channel included by matrix encoding. The matrix decoder on this unit decodes this

during playback to produce 6.1 channels.

- To enable transfer of this audio format, connect via digital cable and set audio output on the player to bitstream output.

■ Ent.Show (Entertainment Show)

Suitable for rock or pop music. Listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.

■ Ext.Mono (Extended Mono)

In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room.

■ Ext.Stereo (Extended Stereo)

This mode is ideal for background music. Stereo sound is played through the surround speakers as well as the front speakers, creating a stereo image.

■ F.S.Surround (Front Stage Surround Advance)

In this mode, you can enjoy a virtual playback of multichannel surround sound even with only two or three speakers. This works by controlling how sounds reach the listener's left and right ears.

■ Mono

In this mode, when the input signal is analog or PCM, the left and right front speakers output the sound in monaural.

■ PCM

Mode suitable for playing sources recorded in multichannel PCM.

■ Rock/Pop

Mode suitable for rock content.

■ Sports

Mode suitable for sport content.

■ **Stereo**

In this mode, sound is output from the front left and right speakers and subwoofer.

■ **Unplugged**

Suitable for acoustic instruments, vocals and jazz. This mode emphasizes the front stereo image, giving the impression of being right in front of the stage.

Selectable Listening Modes

You can select a variety of listening modes to suit the audio format of the signal being input.

- The Stereo mode can be selected with any audio format.
- When analog signals are being input in the Pure Direct mode, the modes switches to the Analog Direct mode which passes signals directly to the amplifier without passing through the DSP (Digital Signal Processor). However, when you are using Speaker B, the listening mode suited to the input signal is selected automatically.
- Listening modes available when headphones are connected are Pure Direct and Stereo only.

■ Selectable listening modes

Input Format	Listening Mode
Analog	Stereo
	Mono
	Dolby Surround
	DTS Neural:X
	Classical ^{*1}
	Unplugged ^{*1}
	Ent.Show ^{*1}
	Drama ^{*1}
	AdvancedGame ^{*1}
	Action ^{*1}
	Rock/Pop ^{*1}
	Sports ^{*1}
	Ext.Stereo ^{*2}
	Ext.Mono ^{*2}
F.S.Surround	

^{*1} Surround speakers or height speakers need to be installed.

^{*2} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
PCM Music files (except DSD/ Dolby TrueHD)	Stereo
	Mono
	Dolby Surround
	DTS Neural:X
	Classical ^{*1}
	Unplugged ^{*1}
	Ent.Show ^{*1}
	Drama ^{*1}
	AdvancedGame ^{*1}
	Action ^{*1}
	Rock/Pop ^{*1}
	Sports ^{*1}
	Ext.Stereo ^{*2}
	Ext.Mono ^{*2}
F.S.Surround	

^{*1} Surround speakers or height speakers need to be installed.

^{*2} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
Multich PCM	Stereo
	PCM ^{*1}
	Dolby Surround
	DTS Neural:X
	Classical ^{*2}
	Unplugged ^{*2}
	Ent.Show ^{*2}
	Drama ^{*2}
	AdvancedGame ^{*2}
	Action ^{*2}
	Rock/Pop ^{*2}
	Sports ^{*2}
	Ext.Stereo ^{*3}
Ext.Mono ^{*3}	
F.S.Surround	

^{*1} A center speaker or surround speakers need to be installed.

^{*2} Surround speakers or height speakers need to be installed.

^{*3} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DSD	Stereo
	DSD ^{*1 *2}
	Dolby Surround
	DTS Neural:X
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
Ext.Mono ^{*4}	
F.S.Surround	

^{*1} Cannot be selected when the input format is monaural or 2 ch.

^{*2} A center speaker or surround speakers need to be installed.

^{*3} Surround speakers or height speakers need to be installed.

^{*4} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
Dolby Atmos	Stereo
	Dolby Atmos
	Classical
	Unplugged
	Ent.Show
	Drama
	AdvancedGame
	Action
	Rock/Pop
	Sports
	Ext.Stereo
	Ext.Mono
	F.S.Surround

Dolby Atmos

- You can select the Dolby Digital Plus or Dolby TrueHD listening modes if surround back speakers or height speakers are not connected.

Input Format	Listening Mode
Dolby D	Stereo
	Dolby D ^{*1 *2}
	Dolby Surround
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
Dolby D+	Stereo
	Dolby D+ ^{*1 *2}
	Dolby Surround
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
Dolby TrueHD	Stereo
	Dolby TrueHD ^{*1 *2}
	Dolby Surround
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS	Stereo
	DTS ^{*1 *2}
	DTS Neural:X
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS 96/24	Stereo
	DTS 96/24 ^{*1 *2}
	DTS Neural:X
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS Express	Stereo
	DTS Express ^{*1 *2}
	DTS Neural:X
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
F.S.Surround	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS-HD HR	Stereo
	DTS-HD HR ^{*1 *2}
	DTS Neural:X ^{*3}
	Classical ^{*4*5}
	Unplugged ^{*4*5}
	Ent.Show ^{*4*5}
	Drama ^{*4*5}
	AdvancedGame ^{*4*5}
	Action ^{*4*5}
	Rock/Pop ^{*4*5}
	Sports ^{*4*5}
	Ext.Stereo ^{*6}
	Ext.Mono ^{*6}
F.S.Surround ^{*5}	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Cannot be selected when the sampling rate of the input format is 88.2 kHz or more.

*4 Surround speakers or height speakers need to be installed.

*5 Cannot be selected when the input format is 2 ch and the sampling rate is 88.2 kHz or more.

*6 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS-HD MSTR	Stereo
	DTS-HD MSTR ^{*1 *2}
	DTS Neural:X ^{*3}
	Classical ^{*4*5}
	Unplugged ^{*4*5}
	Ent.Show ^{*4*5}
	Drama ^{*4*5}
	AdvancedGame ^{*4*5}
	Action ^{*4*5}
	Rock/Pop ^{*4*5}
	Sports ^{*4*5}
	Ext.Stereo ^{*6}
	Ext.Mono ^{*6}
F.S.Surround ^{*5}	

*1 Cannot be selected when the input format is 2 ch.

*2 A center speaker or surround speakers need to be installed.

*3 Cannot be selected when the sampling rate of the input format is 88.2 kHz or more.

*4 Surround speakers or height speakers need to be installed.

*5 Cannot be selected when the input format is 2 ch and the sampling rate is 88.2 kHz or more.

*6 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS-ES	Stereo
	DTS ^{*1}
	ES Matrix ^{*2}
	ES Discrete ^{*2}
	DTS Neural:X
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	AdvancedGame ^{*3}
	Action ^{*3}
	Rock/Pop ^{*3}
	Sports ^{*3}
Ext.Stereo ^{*4}	
Ext.Mono ^{*4}	
F.S.Surround	

*1 This can only be selected when no surround back speaker is connected.

*2 Surround back speakers need to be installed.

*3 Surround speakers or height speakers need to be installed.

*4 A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS:X	Stereo
	DTS:X
	Classical* ¹
	Unplugged* ¹
	Ent.Show* ¹
	Drama* ¹
	AdvancedGame* ¹
	Action* ¹
	Rock/Pop* ¹
	Sports* ¹
	Ext.Stereo* ²
	Ext.Mono* ²
	F.S.Surround

*¹ Surround speakers or height speakers need to be installed.

*² A center speaker, surround speakers, or height speakers need to be installed.

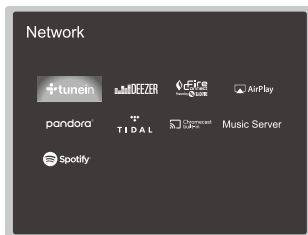
Internet Radio


You can use internet radio services such as TuneIn Radio, Pandora, Deezer, and TIDAL by connecting this unit to a network that has an internet connection.

- Depending on the internet radio service, the user may need to register from their computer first. Refer to the websites for each of the services for details about them.
- Functionality may be introduced by firmware updates and service providers may cease services, meaning that some network services and content may become unavailable in the future.

■ Playing Back



1. Switch the input on the TV to that assigned to the unit.
2. Press NET on the remote controller to display a list of Network Functions on the TV.



3. Select the internet radio service you want with the cursors of the remote controller and press ENTER to confirm your selection.
4. Follow the on-screen instructions, using the cursors on the remote controller to select radio stations and programs, then press ENTER to play.
 - To return to the previous screen, press .

■ Internet radio service menus

You can register certain stations as your favorites or delete stations you have registered from your favorites. The menu displayed depends on the service currently selected.

Menu icons  are displayed at the bottom right of the screen while playing a station. When just this icon is displayed, you can display the menu on the screen just by pressing ENTER on the remote controller. When multiple icons are displayed, select an  icon with the cursors of the remote controller and press ENTER.

■ Regarding the TuneIn Radio Account

Creating an account on the TuneIn Radio website (tunein.com) and logging in it from the unit allows you to automatically add your favorite radio stations and programs to your "My Presets" on the unit as you follow them on the website. "My Presets" are displayed in the level under TuneIn Radio.

To display a radio station registered in "My Presets", you must log into TuneIn Radio from the unit. To log in, select "Login" - "I have a TuneIn account" in the "TuneIn Radio" top list on the unit, and then enter your user name and password.

- If you select "Login" on this unit, you can use the displayed registration code to associate this device on the My Page section of the TuneIn Radio website so that you can login to "Login" - "Login with a registration code" without having to enter your user name and password.

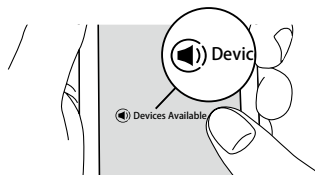
Spotify

Spotify Connect play is possible by connecting this unit to the same network as a smart phone or tablet.

- To play Spotify Connect, you need to install the Spotify application on your smartphone or tablet. You also need to create a Spotify premium account.
- Refer to the following for Spotify settings:
www.spotify.com/connect/

■ Playing Back

1. Connect the smartphone to the access point that this unit is connected to.
2. Start the Spotify app.
3. Play the track in the Spotify app, then after switching to the screen for controlling play, tap "Devices Available" at the bottom of the screen.




4. Select this unit.
 5. This unit turns on automatically and the input selector changes to NET and streaming of Spotify starts.
- If "System Setup" - "Hardware" - "Power Management" - "Network Standby" is set to "Off" in the Home, manually turn the unit on and then press NET on the remote controller.

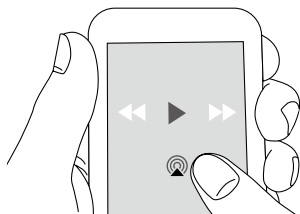
■ Notes for using multi-zone (for compatible models only)


- To enjoy Spotify music in a separate room, manually select "NET" as the input of the separate room. After doing that, select this unit with the Spotify app.
- Volume adjustment with the Spotify app is possible only for speakers connected to the ZONE speaker terminals or when the volume of the audio device in the other room is configured so that its volume can be adjusted on this unit. Adjust the volume on the audio equipment in the other room in any other case.
- To enjoy Spotify music in the main room after playing it in a separate room, select "NET" as the input of the main room.

AirPlay®


You can wirelessly enjoy the music files on an iPhone®, iPod touch®, or iPad® connected to the same access point as this unit.

- Update the OS version on your iOS device to the latest version.
 - There may be some differences in the operations screens and how operations are performed on the iOS device depending on the iOS version. For details, see the operating instructions for the iOS device.
1. Connect the iOS device to the access point.
 2. Press NET.
 3. Tap the AirPlay icon  in the play screen of the music app on the iOS device and select this unit from the list of devices displayed.



4. Play the music files on the iOS device.
- The default status is for the Network Standby feature to be on, so when you do steps 3 and 4 above, this unit automatically comes on and input switches to "NET". To reduce the amount of power consumed in standby mode, press the  button on the remote controller, then in the Home displayed set "System Setup" - "Hardware" - "Power Management" - "Network Standby" to "Off".
 - Due to the characteristics of AirPlay wireless technology, the sound produced on this unit may slightly be behind the sound played on the AirPlay-enabled

device.

You can also play the music files on a computer with iTunes (Ver. 10.2 or later). Before operation, make sure this unit and the PC are connected to the same network, then press NET on this unit. Next, click the AirPlay icon  in iTunes, select this unit from the list of devices displayed, and start play of a music file.

Music Server

Overview

Streaming play of music files stored on PCs or NAS devices connected to the same network as this unit is supported.

- The network servers this unit is compatible with are those PCs with players installed that have the server functionality of Windows Media® Player 11 or 12, or NAS that are compatible with home network functionality. You may need to make some settings in advance to use Windows Media® Player 11 or 12. Note that with PCs, only music files registered in the library of Windows Media® Player can be played.

Configuring the Windows Media® Player

■ Windows Media® Player 11

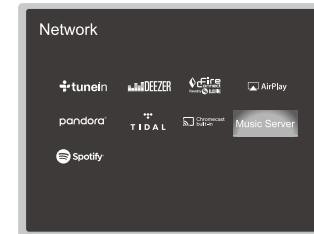
- Turn on your PC and start Windows Media® Player 11.
- In the "Library" menu, select "Media Sharing" to display a dialog box.
- Select the "Share my media" check box, and then click "OK" to display the compatible devices.
- Select this unit, and then click "Allow".
 - When it is clicked, the corresponding icon is checked.
- Click "OK" to close the dialog.
 - Depending of the version of Windows Media® Player, there may be differences in the names of items you can select.

■ Windows Media® Player 12

- Turn on your PC and start Windows Media® Player 12.
- In the "Stream" menu, select "Turn on media streaming" to display a dialog box.
 - If media streaming is already turned on, select "More streaming options..." in the "Stream" menu to list players in the network, and then go to step 4.
- Click "Turn on media streaming" to list players in the network.
- Select this unit in "Media streaming options" and check that it is set to "Allow".
- Click "OK" to close the dialog.
 - Depending of the version of Windows Media® Player, there may be differences in the names of items you can select.

Play

- Start the server (Windows Media® Player 11, Windows Media® Player 12, or NAS device) containing the music files to play.
- Make sure that the PCs and/or NASs are properly connected to the same network as this unit.
- Press NET on the remote controller to display the network service list screen.
 - If the "NET" indicator flashes in the display, the unit is not properly connected to the network. Check the connection.



- With the cursors on the remote controller, select "Music Server", and then press ENTER.
- Select the target server with the cursors on the remote controller and press ENTER to display the items list screen.
 - The unit cannot access pictures and videos stored on servers.
 - Contents stored on the server may not be displayed depending on the server sharing settings.
- With the cursors on the remote controller, select the music file to play, and then press ENTER to start playback.
 - If "No Item." is displayed, check whether the network is properly connected.
- To return to the previous screen, press .
- For music files on a server, there can be up to 20,000 tracks per folder, and folders may be nested up to 16

levels deep.

- Depending on the media server, the unit may not recognize it, or may not be able to play its music files.

Controlling Remote Playback from a PC

You can use this unit to play music files stored on your PC by operating the PC inside your home network. The unit supports remote playback with Windows Media® Player 12. To use the remote playback function with Windows Media® Player 12, it must be configured in advance.

■ Setting PC

1. Turn on your PC and start Windows Media® Player 12.
2. In the "Stream" menu, select "Turn on media streaming" to display a dialog box.
 - If media streaming is already turned on, select "More streaming options..." in the "Stream" menu to list players in the network, and then go to step 4.
3. Click "Turn on media streaming" to list players in the network.
4. Select this unit in "Media streaming options" and check that it is set to "Allow".
5. Click "OK" to close the dialog box.
6. Open the "Stream" menu and check that "Allow remote control of my Player..." is checked.
 - Depending of the version of Windows Media® Player, there may be differences in the names of items you can select.

■ Remote playback

1. Turn on the power of the unit.
2. Turn on your PC and start Windows Media® Player 12.
3. Select and right-click the music file to play with Windows Media® Player 12.
 - To remotely play a music file on another server, open the target server from "Other Libraries" and select the music file to play.
4. Select this unit in "Play to" to open the "Play to" window of Windows Media® Player 12 and start playback on the unit.
 - If your PC is running on Windows® 8.1, click "Play

to", and then select this unit. If your PC is running on Windows® 10, click "Cast to Device", and select this unit. Operations during remote playback are possible from the "Play to" window on the PC. The playback screen is displayed on the TV connected to the HDMI output of the unit.

5. Adjust the volume using the volume bar on the "Play to" window.
 - Sometimes, the volume displayed on the remote playback window may differ from that appeared on the display of the unit.
 - When the volume is adjusted from the unit, the value is not reflected in the "Play to" window.
 - This unit cannot play music files remotely in the following conditions.
 - It is using a network service.
 - It is playing a music file on a USB storage device.
- Depending of the version of Windows Media® Player, there may be differences in the names of items you can select.

Supplementary information for player functions

Due to firmware (the software for the system) updates after you make your purchase or firmware changes during production of the product, there may be additions or changes to the features available compared to what is in the instruction manual.

For information about player functions that have been added or changed, see the following references. Refer to "Supplementary Information, etc." - "Supplementary Information" for information about changes to settings, etc., other than player functions.

[Supplementary information for player functions](#)

>>> [Click here](#) <<<



Troubleshooting

Before starting the procedure

Problems may be solved by simply turning the power on/off or disconnecting/connecting the power cord, which is easier than working on the connection, setting and operating procedure. Try the simple measures on both the unit and the connected device. If the problem is that the video or audio is not output or the HDMI linked operation does not work, disconnecting/connecting the HDMI cable may solve it. When reconnecting, be careful not to wind the HDMI cable since if wound the HDMI cable may not fit well. After reconnecting, turn off and on the unit and the connected device.

- This unit contains a microPC for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least 5 seconds, and then plug it back in.
- Our company is not responsible for reparations for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

When the unit is operating erratically

■ Try restarting the unit

Restarting the unit may help it operate more smoothly. To restart the unit, turn it to standby, and then press \odot STANDBY/ON on the main unit for at least 5 seconds. (The unit's settings will be maintained.) If there is no improvement even after the unit is restarted, try disconnecting and reconnecting the power cords of the unit and connected equipment.

■ Resetting the unit (this resets the unit settings to the default)

If restarting the unit doesn't fix the problem, resetting the unit to the status at the time of shipment may solve the problem. If you reset the unit status, your preferences will be reset to the defaults. Note them down before the operation below.

1. While pressing the AUTO/DIRECT button on the main unit, press \odot STANDBY/ON.
2. "Clear" appears on the display and the unit returns to standby. Do not unplug the power cord until "Clear" disappears from the display.

To reset the remote controller, while holding down MODE, press \leftarrow/\rightarrow until the remote indicator flashes twice (3 seconds or more).

Power

■ Cannot turn on the unit

- Make sure that the power cord is properly plugged into the wall outlet.
- Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it in again.

■ The unit turns off unexpectedly



- The unit automatically switches to standby when the "System Setup" - "Hardware" - "Power Management" - "Auto Standby" setting in the Home screen functions.
- If you play at high volumes or allow input of excessive bass, the protection circuits in the amplifier can be tripped which may suddenly turn the unit off. Try the following if this occurs.
 - Reduce the volume
 - Select 63 Hz or 125 Hz for each of the speakers in "MCACC" - "Manual MCACC" - "EQ Adjust" in the Home screen, and reduce the volume compared to the current setting.
 - Set "Front" to "Small" in "System Setup" - "Speaker" - "Crossover"
- If the power turns off and indicators on the front panel continually blink, there may have been a malfunction with the amplifier or the protection circuit may have tripped.
 - If the WIRELESS indicator is blinking:
The wires in the speaker cables may have touch the rear panel or other wires. Twist the wires again properly and make sure they do not stick out of the speaker terminals when connecting.
 - If the MCACC indicator is blinking:
Unplug the power cord from the wall outlet immediately and contact the dealer or our company's support.
 - If the FL OFF indicator is blinking:
The temperature inside the unit has exceeded the admissible value. Make sure the unit has plenty of space for ventilation around it, wait for the unit to cool down sufficiently, and then try turning it on again. It is also possible that the amplifier circuits in the unit have malfunctioned. Wait for at least a

minute and then turn the unit on again.

If the same symptoms such as being unable to turn the unit on happen repeatedly, unplug the power cord from the wall outlet immediately and contact the dealer or our company's support.


WARNING: If smoke, smell or abnormal noise is produced by the unit, unplug the power cord from the wall outlet immediately and contact the dealer or our company's support.

Audio

- Make sure that the speaker setup microphone is not still connected.
- Confirm that the connection between the output jack on the device and the input jack on this unit is correct.
- Make sure that none of the connecting cables are bent, twisted, or damaged.
- If the  indicator on the display flashes, press  on the remote controller to cancel muting.
- While headphones are connected to the PHONES jack, no sound is output from the speakers.
- When "System Setup" - "Source" - "Audio Select" - "Fixed PCM" in the Home Menu is set to "On", no sound is played when signals other than PCM are input. Change the setting to Off.

Check the following if the above does not fix the problem:

■ There is no sound from the TV

- If your TV supports ARC, press  on the remote controller and in the Home screen displayed, set "System Setup" - "Hardware" - "HDMI" - "HDMI CEC" to "On" to enable ARC on this unit.
- If the TV doesn't support the ARC function, along with connection by HDMI, connect the TV and this unit using a digital optical cable, digital coaxial cable, or analog audio cable.
- Change the input selector on this unit to the position of the terminal to which the TV is connected.

■ No sound from a connected player

- Change the input selector on this unit to the position of the terminal to which the player is connected.
- Check the digital audio output setting on the connected component. On some game consoles, such as those that support DVD, the default setting is off.
- With some DVD-Video discs, you need to select an audio output format from a menu.

■ A speaker produces no sound

- Make sure that the polarity of the speaker cables (+/-) is correct, and that no bare wires are in contact with the metal part of speaker terminals.

- Make sure that the speaker cables are not shorting.
- Check in "Connect the Speakers" in the Basic Manual that the speaker connections have been made correctly. Settings for the speaker connection environment need to be made in "Full Auto MCACC" in Initial Setup. Check in "Initial Setup" in the Basic Manual.
- Depending on the source and current listening mode, not much sound may be produced. Select another listening mode to see if sound is output.
- If you are installing surround back speakers (for compatible models only), surround speakers are required.
- A maximum of 5.1 ch playback is possible when Bi-Amping connection is used (for compatible models only). Further, make sure you remove the jumper bar on the speakers when using Bi-Amping connection.

■ The subwoofer produces no sound

If the setting of the front speakers is "Large" and during 2ch input such as from the TV or music, the low range elements will be output from the front speakers rather than from the subwoofer. If you would rather output from the subwoofer, make one of the following settings.

1. Change the front speakers settings to "Small".
The low range elements will be output from the subwoofer rather than the front speakers. We do not recommend changing this if your front speakers have good low range reproduction capabilities.
 2. Change "Double Bass" to "On".
The low range elements will be output from both the front speakers and the subwoofer. This may mean that there is too much bass. Do not change if this happens, or choose option 1.
- Refer to "Advanced Setup" - "System Setup" - "Speaker" - "Crossover" in the Advanced Manual for details.
 - When you play source material that contains no information in the LFE channel, the subwoofer produces no sound.

■ Noise can be heard

- Using cable ties to bundle analog audio cables, power cords, speaker cables, etc. may degrade the audio performance. Do not bundle cords.

- An audio cable may be picking up interference. Try repositioning your cables.

■ **The beginning of audio received by an HDMI IN cannot be heard**

- Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

■ **Sound suddenly reduces**

- When the temperature inside the unit exceeds a certain temperature for extended periods, the volume may be reduced automatically to protect the circuits.

Listening Modes

- To enjoy digital surround playback, such as Dolby Digital, the audio signals need to pass through a connection via HDMI cable, digital coaxial cable, or digital optical cable. Audio output should be set to bitstream output on the connected Blu-ray Disc player or other device.
- Press **i** on the remote controller several times to switch the display of the main unit to check the input format.

Check the following if the above does not fix the problem:

■ **Cannot select a desired listening mode**

- Depending on the connecting status of the speaker, some listening modes may not be selected. Check in "Selectable Listening Modes" in "Listening Modes" in the Advanced Manual.

■ **There is no sound with Dolby TrueHD, Dolby Atmos, and DTS-HD Master Audio (for compatible models only)**

- You need to connect surround back speakers or height speakers to enjoy Dolby Atmos. Furthermore, Dolby Atmos can only be enjoyed when the input signals are Dolby Atmos.
- If you cannot output formats such as Dolby TrueHD, Dolby Atmos, or DTS-HD Master Audio according to the format of the source, in the Blu-ray Disc player settings try setting "BD video supplementary sound" (or re-encode, secondary sound, video additional audio, etc.) to "Off". Change the listening mode for each source after changing the setting to confirm.

■ **About DTS signals**

- With media that switches suddenly from DTS to PCM, PCM playback may not start immediately. In such cases, you should stop your player for about 3 seconds and then resume playback.
- With some CD and LD players, you will not be able to playback DTS material properly even though your player is connected to a digital input on the unit. This is usually because the DTS bitstream has been processed

(e.g., output level, sampling rate, or frequency response changed) and the unit does not recognize it as a genuine DTS signal. In such cases, you may hear noise.

- Playing DTS program material, using the pause or skip function on your player may produce a short audible noise. This is not a malfunction.

Video


- Confirm that the connection between the output jack on the device and the input jack on this unit is correct.
- Make sure that none of the connecting cables are bent, twisted, or damaged.
- When the TV image is blurry or unclear, power cord or connection cables of the unit may have interfered. In that case, keep distance between TV antenna cable and cables of the unit.
- Make sure the switching of input screens is proper at the monitor side such as a TV.

Check the following if the above does not fix the problem:

■ There is no video

- Change the input selector on this unit to the position of the terminal to which the player is connected.

■ There is no picture from a source connected to an HDMI IN terminal.


- To display video from the connected player on the TV while the unit is in standby, you need to enable "System Setup" - "Hardware" - "HDMI" - "HDMI Standby Through" in the Home screen. Refer to "System Setup" - "Hardware" - "HDMI" in "Advanced Setup" in the Advanced Manual for information about HDMI Standby Through.
- To output video to a TV connected to the HDMI OUT SUB jack (for compatible models only), in the "AV Adjust" displayed when  is pressed on the remote controller, select the HDMI OUT jack for output in "Other" - "HDMI Out".
- Check if "Resolution Error" is displayed on the main unit display when video input via HDMI IN jack is not displayed. In this case, the TV does not support the resolution of the video input from the player. Change the setting on the player.
- Reliable operation with an HDMI-DVI adapter is not guaranteed. In addition, video signals from a PC are not supported.

■ Images flicker

- It is possible that the resolution of the player is not

compatible with the TV's resolution. If you have connected the player to this unit with an HDMI cable, try changing the output resolution on the player. There also may be an improvement if you change the screen mode on the TV.

■ Video and audio are out of sync

- Video may be delayed relative to audio depending on the settings and connections with your television. To adjust, press  on the remote controller, and adjust in "Other" - "Sound Delay" in the "AV Adjust".

Linked operation

■ There is no linked operation with CEC compliant devices, such as a TV.

- In the Home screen of the unit, set "System Setup" - "Hardware" - "HDMI" - "HDMI CEC" to "On".
- It is also necessary to set HDMI linking on the CEC compliant device. Check the instruction manual.
- When connecting a Sharp brand player or recorder to the HDMI IN jacks, set "System Setup" - "Hardware" - "HDMI" - "HDMI Standby Through" to "Auto".

Tuner

■ Radio reception is poor or there is a lot of noise.

- Re-check the antenna connection.
- Relocate your antenna.
- Move the unit away from your TV or PC.
- Passing cars and airplanes can cause interference.
- Concrete walls weaken radio signals.
- Listen to the station in mono.
- When listening to an AM station, operating the remote controller may cause noise.
- FM reception may become clearer if you use the antenna jack on the wall used for the TV.

BLUETOOTH function

- Try plugging/unplugging the power of the unit and try turning on/off the BLUETOOTH wireless technology enabled device. Re-startup of the BLUETOOTH wireless technology enabled device may be effective.
- The BLUETOOTH wireless technology enabled devices must support the A2DP profile.
- Near components such as microwave oven or cordless phone, which use the radio wave in the 2.4 GHz range, a radio wave interference may occur, which disables the use of this unit.
- If there is a metallic object near the unit, BLUETOOTH connection may not be possible as the metal can effect on the radio waves.

Check the following if the above does not fix the problem:

■ Cannot connect with this unit

- Check that the BLUETOOTH function of the BLUETOOTH wireless technology enabled device is enabled.

■ Music playback is unavailable on the unit even after successful BLUETOOTH connection

- When the audio volume of your BLUETOOTH wireless technology enabled device is set low, the playback of audio may be unavailable. Volume up the BLUETOOTH wireless technology enabled device.
- Depending on the BLUETOOTH wireless technology enabled device, Send/Receive selector switch may be provided. Select Send mode.
- Depending on the characteristics or specifications of your BLUETOOTH wireless technology enabled device, playback on the unit is not guaranteed.

■ Sound is interrupted

- Problem may be occurring at the BLUETOOTH wireless technology enabled device. Check the information on the internet.

■ The audio quality is poor after connection with a BLUETOOTH wireless technology enabled device

- The BLUETOOTH reception is poor. Move the BLUETOOTH wireless technology enabled device

closer to the unit or remove any obstacle between the BLUETOOTH wireless technology enabled device and this unit.

Network function

- If you cannot select a network service, it will become selectable when the network function is started. It may take about a minute to start up.
- When NET is blinking, this unit is not properly connected to the home network.
- Try plugging/unplugging the power supply of this unit and the router, and try rebooting the router.
- If the desired wireless LAN router is not in the access point list, it may be set to hide SSID or the ANY connection may be off. Change the setting and try again.

Check the following if the above does not fix the problem:

■ Cannot access the Internet radio

- Certain network service or contents available through the unit may not be accessible in case the service provider terminates its service.
- Make sure that your modem and router are properly connected, and make sure they are both turned on.
- Make sure that the LAN side port on the router is properly connected to this unit.
- Make sure that connecting to Internet from other components is possible. If connecting is not possible, turn off all components connected to the network, wait for a while, and then turn on the components again.
- If a specific radio station is unavailable for listening, make sure the registered URL is correct, or whether the format distributed from the radio station is supported by this unit.
- Depending on ISP, setting the proxy server is necessary.
- Make sure that the used router and/or modem is supported by your ISP.

■ Cannot access the network server

- This unit needs to be connected to the same router as the network server.
- This unit is compatible with Windows Media® Player 11 or 12 network servers or NAS that are compatible with home network functionality.
- You may need to make some settings on Windows Media® Player. Check in "Music Server" in "Network Functions" in the Advanced Manual.

- When using a PC, only music files registered in the Windows Media® Player library can be played.

■ Playback stops while listening to music files on the network server

- Make sure the network server is compatible with this unit.
- When the PC is serving as the network server, try quitting any application software other than the server software (Windows Media® Player 12, etc.).
- If the PC is downloading or copying large files, the playback may be interrupted.

USB storage device

■ USB storage device is not displayed

- Check whether the USB storage device or USB cable is correctly inserted to the USB port of the unit.
- Disconnect the USB storage device from the unit, and then try reconnecting.
- Performance of the hard disk that receive power from the USB port of the unit is not guaranteed.
- Depending on the type of format, the playback may not be performed normally. Check the type of the file formats that is supported.
- USB storage devices with security functions may not be played.

Wireless LAN Network

- Try plugging/unplugging the power supply of wireless LAN router and the unit, check the wireless LAN router power-on status, and try reboot of the wireless LAN router.

Check the following if the above does not fix the problem:

■ Cannot access wireless LAN network

- The wireless LAN router setting may be switched to Manual. Return the setting to Auto.
- Try the manual set-up. The connection may succeed.
- When the wireless LAN router setting is at stealth mode (mode to hide the SSID key) or when ANY connection is off, the SSID is not displayed. Change the setting and try again.
- Check that the setting of SSID and encryption (WEP, etc.) is correct. Make sure the network settings of the unit is properly set.
- Connection to an SSID that includes multi-byte characters is not supported. Name the SSID of the wireless LAN router using single-byte alphanumeric characters only and try again.

■ Connected to an SSID different to the SSID selected

- Some wireless LAN routers allow you to set multiple SSIDs for one unit. If you use the automatic setting button on such a router, you may end up connecting with a different SSID from the SSID you wanted to connect to. Use the connection method requiring you to enter a password if this happens.

■ Playback is interrupted and communication does not work

- You may not receive radio waves due to bad radio wave conditions. Shorten the distance from the wireless LAN access point or remove obstacles to improve visibility, and try again. Place the unit away from microwave ovens or other access points. It is recommended to place the wireless LAN router (access point) and the unit in the same room.
- If there is a metallic object near the unit, wireless LAN connection may not be possible as the metal can effect

on the radio wave.

- When other wireless LAN devices are used near the unit, several issues such as interrupted playback and communication may occur. You can avoid these issues by changing the channel of your wireless LAN router. For instructions on changing channels, see the instruction manual provided with your wireless LAN router.
- There may not be enough bandwidth available in wireless LAN. Connect using an Ethernet cable.

Multi-zone function (for compatible models only)

■ Cannot ZONE output audio of external AV component

- Depending on the model, input by HDMI cable may not be supported. Check in "Multi-zone Connection" in the Basic Manual, and if input by HDMI cable is not supported, connect using a cable that is supported.
- The audio from externally connected AV components can only be output when the audio is analog or 2ch PCM audio signals. If you have connected the AV component to this unit with a digital optical/coaxial cable, the audio output of the AV component needs to be set to PCM.

■ Others

- Settings are required in Initial Setup, "Multi Zone Setup" to use the multi-zone feature. Check in "Initial Setup" in the Basic Manual.
- If the audio signal is from the NET or USB input selector, zone output is not possible for DSD and Dolby TrueHD audio signals.

Remote Controller

- Make sure that the batteries are installed with the correct polarity.
- Install new batteries. Do not mix different types of batteries, or old and new batteries.
- Make sure that the unit is not subjected to direct sunshine or inverter-type fluorescent lights. Relocate if

necessary.

- If the unit is installed in a rack or cabinet with colored-glass doors or if the doors are closed, the remote controller may not work reliably.
- After operating the Multi-zone function (for compatible models only), the remote controller may have switched to the mode for operating ZONE output audio. Check "Multi-zone" in "Playback" in the Basic Manual to switch the remote controller back to the mode for operating in the main room.

Display

■ The display doesn't light

- The display may go dim while the Dimmer is working, and may also turn off (for compatible models only). Press DIMMER button and change the brightness level of the display.

Others

■ Strange noises can be heard from the unit

- If you have connected another unit to the same wall outlet as this unit, this noise may be an effect from the other unit. If the symptoms improve by unplugging the power cord of the other unit, use different wall outlets for this unit and the other unit.

■ When performing Full Auto MCACC, the message "Noise Error" appears

- This can be caused by a malfunction in your speaker unit. Check if the speakers produce normal sounds.

■ The results of Full Auto MCACC give a different distance to the speakers than the actual distance

- There may be some discrepancies in the results depending on the speakers you are using. If this is the case, make the settings in "System Setup" - "Speaker" - "Distance".

■ DRC function does not work

- Make sure the source material is Dolby Digital, Dolby Digital Plus, Dolby TrueHD, or DTS.

Information about products with Wi-Fi/BLUETOOTH features

■ Radio Wave Caution

Products with Wi-Fi/BLUETOOTH use radio waves in the 2.4 GHz and 5 GHz frequency bands.

There are nations and regions where the use of particular 5 GHz bands are prohibited outdoors, so do not use these products outside.

2.4 GHz radio waves are used by a variety of devices, as shown in lists 1 and 2 below.

1. Devices which use a 2.4 GHz radio wave frequency

- Cordless phones
- Cordless facsimiles
- Microwave ovens
- Wireless LAN devices (IEEE802.11b/g/n)
- Wireless AV equipment
- Wireless controllers for game systems
- Microwave oven-based health aids
- Video transmitter
- Specific type of external monitor and LCD display

2. Less common devices which use a 2.4 GHz radio wave frequency

- Anti-theft systems
- Amateur radio stations (HAM)
- Warehouse logistic management systems
- Discrimination systems for train or emergency vehicles

If these devices and the AV receiver are used at the same time, the audio may be undesirably stopped or disturbed due to a radio wave interference.

Suggestions for improvement

- Switch off the devices which emit the radio wave.
- Place the interfering devices away from the AV receiver.
- The AV receiver uses radio wave, and a third person can receive the wave on purpose or accidentally. Do not use the communication for important or fatal matters.
- We assume no responsibility whatsoever for any error or damage of network environment or access device resulting from the use of this apparatus.

Confirm with the provider or access device maker for more information.

■ Scope of Operation

Use of the AV receiver is limited to home use.

(Transmission distances may be reduced depending on communication environment.)

In the following locations, poor condition or inability to receive radio waves may cause the audio to be interrupted or stopped:

- In reinforced concrete buildings or steel framed or iron framed buildings.
- Near large metallic furniture.
- In a crowd of people or near a building or obstacle.
- In a location exposed to the magnetic field, static electricity or radio wave interference from radio communication equipment using the same frequency band (2.4 GHz) as the AV receiver, such as a 2.4 GHz wireless LAN device (IEEE802.11b/g/n) or microwave oven.
- If you live in a heavily populated residential area (apartment, townhouse, etc.) and if your neighbor's microwave oven is placed near your AV receiver, you may experience radio wave interference. If this occurs, move your AV receiver to a different place. When the microwave oven is not in use, there will be no radio wave interference.

■ Radio Wave Reflections

The radio waves received by the AV receiver include the radio wave coming directly from the devices and waves coming from various directions due to reflections by walls, furniture and building (reflected waves). The reflected waves (due to obstacles and reflecting objects) further produce a variety of reflected waves as well as variation in reception condition depending on locations. If the audio cannot be received properly due to this phenomenon, try moving the location of the wireless LAN device a little. Also note that audio may be interrupted due to the reflected waves when a person crosses or approaches

the space between the AV receiver and the wireless LAN device.

- We assume no responsibility whatsoever for any damages resulting from the use of this apparatus except in the cases deemed acceptable under the applicable laws and regulations.
- Operation in all environment is not guaranteed for wireless LAN. The communication may not be possible or have desirable communication speed.

■ Precautions

- Do not use this apparatus near an electronic device handling high-accuracy controls or weak signals. Doing so may cause an accident due to a malfunction of the device.
- Do not use this apparatus in use prohibited location such as an aircraft equipment or a hospital. Doing so may cause an accident due to a malfunction of an electronic device or an electro-medical apparatus. Follow the instructions of the medical facilities.

Electronic device which requires cautions

Hearing aid, pace maker, other medical electronic devices, fire alarm, automatic door, and other automatic control device.

When using a pace maker or other medical electronic devices, confirm with the medical electronic device maker or dealer for the effect of the radio wave.

Supplementary Information

Due to firmware (the software for the system) updates after you make your purchase or firmware changes during production of the product, there may be additions or changes to the settings and operation available compared to what is in the instruction manual.

For information about the settings and operations that have been added or changed, see the following references.

Refer to "Network Functions" - "Supplementary information for player functions" for information about changes to player functions.

[Supplementary Information](#)

>>> [Click here](#) <<<



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