

Instruction Manual

VSX-534

AV RECEIVER

Pioneer



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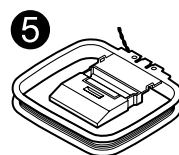
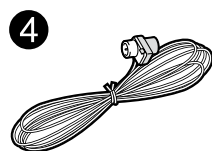
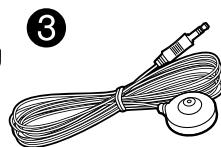
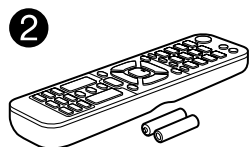
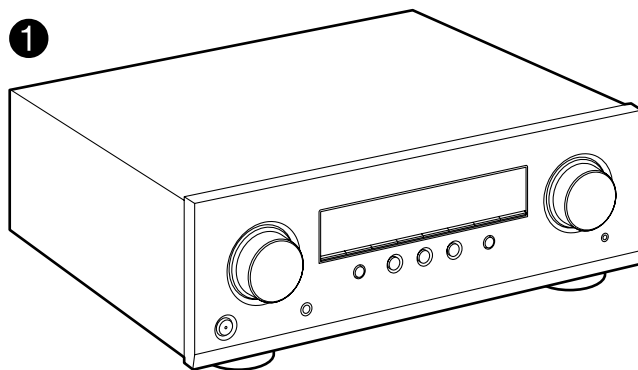
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What's in the box



1. Main unit (1)
 2. Remote controller (RC-971R) (1), Batteries (AAA/R03) (2)
 3. Speaker setup microphone (1)
 - Used during Initial Setup.
 4. Indoor FM antenna (1)
 5. AM loop antenna (1)
 - Quick Start Guide (1)
- *This document is an online instruction manual. It is not included as an accessory.
- Connect speakers with an impedance of 4 Ω to 16 Ω .
 - The power cord must be connected only after all other connections are completed.
 - We will not accept any responsibility for damage arising from the connection with equipment manufactured by other companies.
 - Specifications and appearance are subject to change without prior notice.

Additional Function (Firmware Update)

This unit is equipped with a function to update the firmware via USB port when the firmware update is announced after purchase. This enables various functions to be added and operations to be improved.

Depending on the manufacturing timing of the product, the firmware may be switched to the updated one. In such a case, new functions may be added from the start. For how to confirm the latest firmware contents and the firmware version of your product, see the following section.

Update Information of the firmware

For the latest firmware contents and the firmware version, visit our company's website. If the firmware version of your product differs from the latest one, it is recommended to update the firmware.

To confirm the firmware version of your product, press the  button on the remote controller, and refer to "7. Miscellaneous" - "Firmware Update" - "Version" (→[p80](#)).

Operation of added new functions

If functions are added or changed from contents described in the Instruction Manual, see the following reference.

[Supplementary Information](#) »

❑ **Firmware Update Procedure** (→[p6](#))

Firmware Update Procedure

Approx. 30 minutes are required for updating. Existing settings are kept after updating.

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.

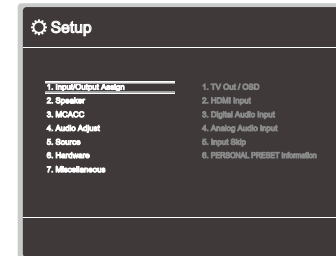
In no event will our company be liable to you or any third party for any special, indirect, incidental, or consequential damages of any kind, including, but not limited to, compensation, reimbursement or damages on account of the loss of present or prospective profits, loss of data, or for any other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

Updating the Firmware via USB

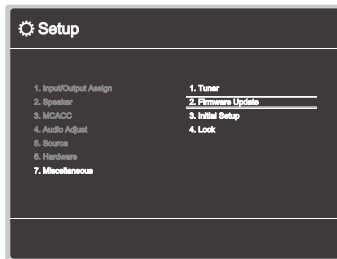
- While updating the firmware, do not do the following:
 - Disconnecting and reconnecting cables, USB storage device, speaker setup microphone or headphones, or performing operations on the unit such as turning the power off.
- Prepare a 128 MB or larger USB storage device. The format of USB storage devices supports FAT16 or FAT32 file system format.
 - Media inserted into a USB card reader may not be used for this function.
 - USB storage devices equipped with the security function are not supported.
 - USB hubs and USB devices equipped with the hub function are not supported. Do not connect these devices to the unit.
- Delete any data stored on the USB storage device.
- If "HDMI CEC" is set to "On", set it to "Off".
 - Press . Next, select "6. Hardware" - "HDMI", press ENTER, select "HDMI CEC" and select "Off".
- * Depending on the USB storage device or its content, long time may be required for loading, the content may not be loaded correctly, or power may not be supplied correctly.
- * 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. Please note this in advance.
- * The descriptions may differ from the actual on-screen displays, however, operations and functions are the same.

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 as below.
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 POWER OUT port of this unit.
 - If an AC adapter is supplied with the USB storage device, connect the AC adapter, and use it with a household outlet.
 - If the USB storage device has been partitioned, each section will be treated as an independent device.
 5. Press .
- The Setup menu is displayed on the TV screen.



6. Select "7. 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.
7. Press ENTER with "Update" selected, and start update.
 - During the update, the TV screen may go black depending on the program to be updated. In such a case, check the progress on the display of the unit. The TV screen will remain black until the update is completed and the power is turned on again.
 - During the update, do not turn the power off, or disconnect or reconnect the USB storage device.
 - When "Completed!" is displayed, the update is complete.
 8. Disconnect the USB storage device from the unit.
 9. 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

If an error occurs, "Error! *-**" is displayed on the display of the unit. ("*" represents an alphanumeric character.) Refer to the following descriptions and check.

Error Code

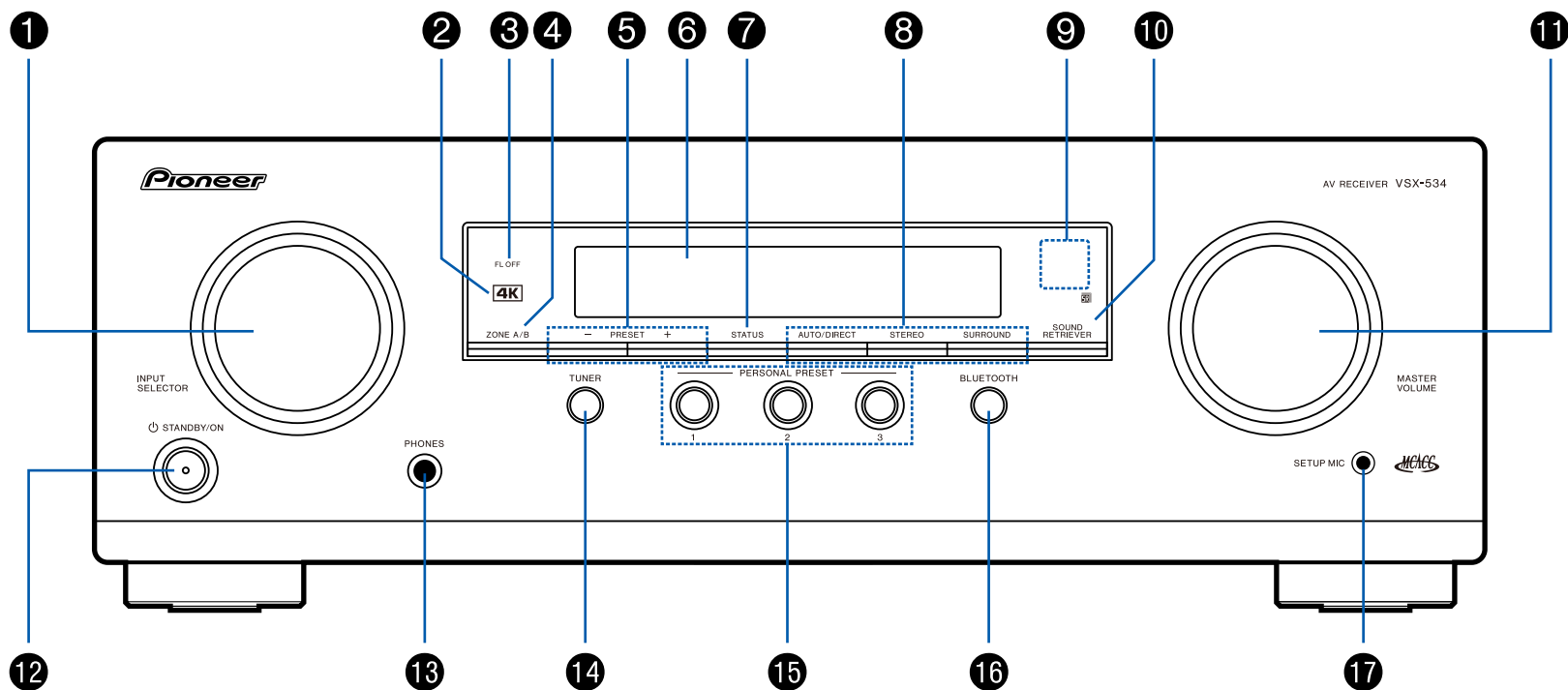
- *-70:
The USB storage device cannot be recognized, the firmware file is not present in the root folder of the USB storage device, or the firmware file is for another model. Check if the USB storage device or USB cable is securely inserted to the POWER OUT port of the unit.

Connect the USB storage device to an external power source if it has its own power supply.

- *-51:
The firmware file is for another model, or the firmware file is corrupted. Retry from the download of the firmware file.
- Others:
After removing the power plug once, insert it to the outlet, and then start the operation from the beginning.

Part Names

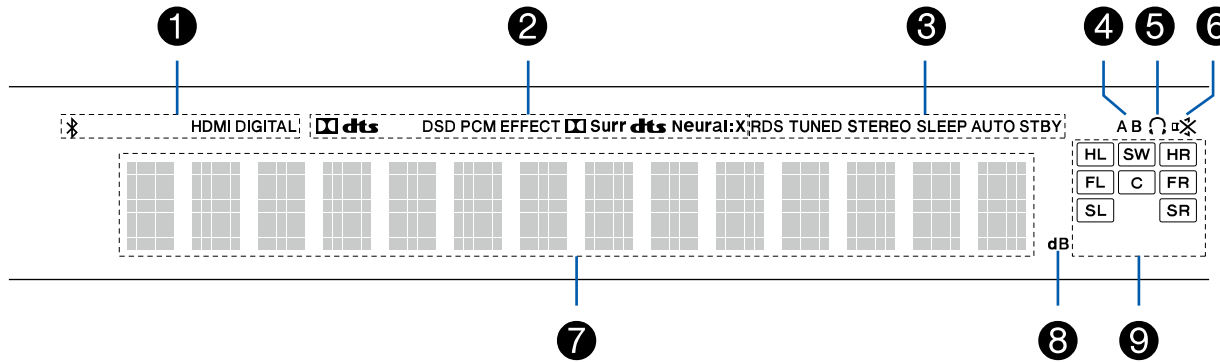
Front Panel



□ For details, see (→ [p9](#))

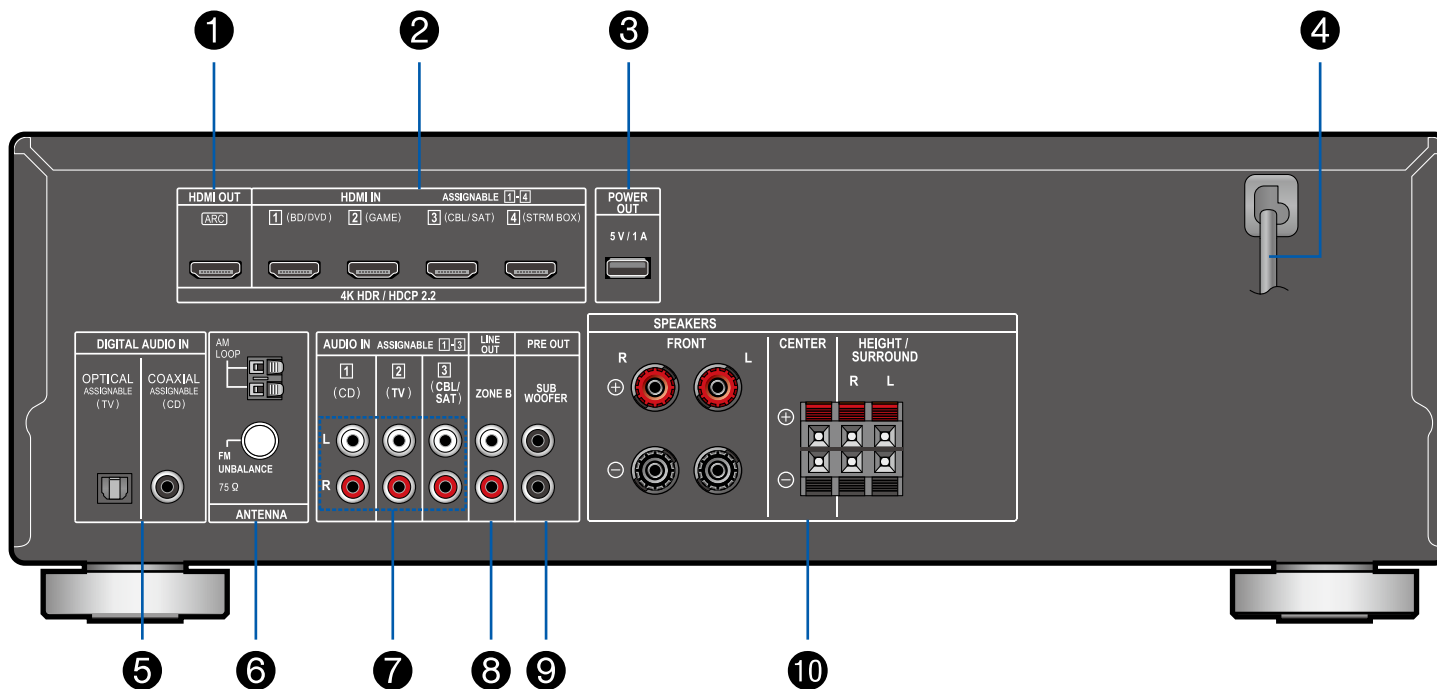
1. INPUT SELECTOR dial: Switch the input to be played.
2. 4K indicator: Lights up when doing 4K upscaling or 4K pass through.
3. FL OFF indicator: Lights up when the display is turned off by repeatedly pressing the DIMMER button on the remote controller.
4. ZONE A/B button: Selects an audio output destination from among "ZONE A", "ZONE B" and "ZONE A+B". (→[p42](#))
5. PRESET +/- button: Selects preset radio stations registered when using TUNER. (→[p39](#))
6. Display (→[p10](#))
7. STATUS button: Switches the information on the display and is used to operate RDS (→[p41](#)).
8. Listening mode button: Press "AUTO/DIRECT", "SURROUND" or "STEREO" to switch the listening mode. (→[p49](#))
9. 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.
10. SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.
11. MASTER VOLUME
12.  STANDBY/ON button
13. PHONES jack: Headphones with a standard plug (ø1/4"/6.3 mm) are connected.
14. TUNER button: Switches the input to be played to "TUNER". Also, pressing this button repeatedly switches the input between "AM" and "FM".
15. PERSONAL PRESET 1/2/3 buttons: Registers the current setting conditions such as input selector, listening mode, etc. or call the registered settings. (→[p44](#))
16. BLUETOOTH button: Switches the input to be played to "BLUETOOTH".
17. SETUP MIC jack: The supplied speaker setup microphone is connected. (→[p73, 84](#))

Display



1. Lights in the following conditions.
 * : Connected by BLUETOOTH.
 HDMI: HDMI signals are input and the HDMI input is selected.
 DIGITAL: Digital signals are input and the digital input is selected.
2. Lights according to the type of input digital audio signal and the listening mode.
3. Lights in the following conditions.
 RDS (European, Australian and Asian models): Receiving RDS broadcasting.
 TUNED: Receiving AM/FM radio.
 STEREO: Receiving FM stereo.
 SLEEP: Sleep timer is set. (→p79)
 AUTO STBY: Auto Standby is set. (→p79)
4. Displays the audio output destination.
 A: Outputs audio only to the main room (ZONE A).
 B: Outputs audio only to the separate room (ZONE B).
 AB: Outputs audio to both the main room (ZONE A) and separate room (ZONE B).
5. Lights when headphones are connected.
6. Blinks when muting is on.
7. Displays various information of the input signals.
8. Lights when adjusting the volume.
9. Speaker/Channel display: Displays the output channel that corresponds to the selected listening mode.

Rear Panel

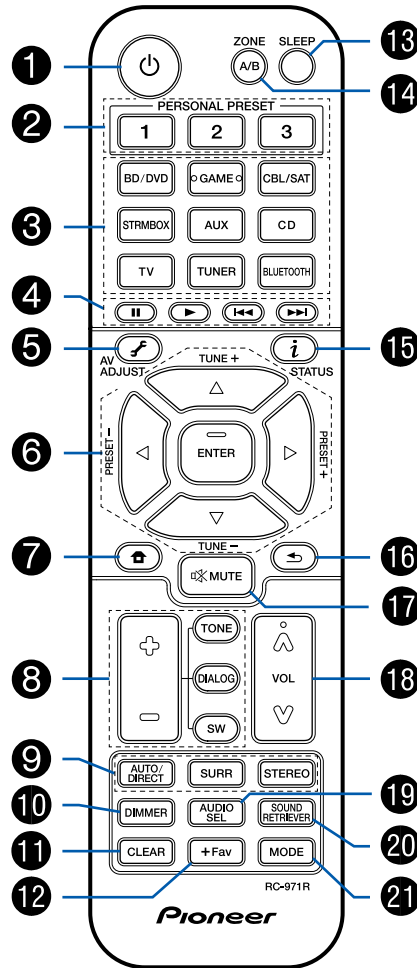


❑ For details, see (→ [p12](#))

1. HDMI OUT jacks: Transmit video signals and audio signals with a HDMI cable connected to a TV.
2. HDMI IN jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.
3. POWER OUT port: The power (5 V/1 A) can be supplied to a streaming media player, etc. using a USB cable. (→[p29](#)) The playback function is not supported.
4. Power cord
5. DIGITAL AUDIO IN OPTICAL/COAXIAL jacks: Input TV or AV component digital audio signals with a digital optical cable or digital coaxial cable.
6. ANTENNA AM LOOP/FM UNBALANCE 75 Ω terminal: The supplied antennas are connected.
7. AUDIO IN jacks: Input TV or AV component audio signals with an analog audio cable.
8. ZONE B LINE OUT jacks: Output audio signals with an analog audio cable connected to a pre-main amplifier in a separate room (ZONE B).
9. 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.
10. SPEAKERS terminals: Connect speakers with speaker cables. (FRONT L/R terminals of North American models support banana plugs.)



Remote Controller



1. STANDBY/ON button
2. PERSONAL PRESET 1/2/3 buttons: Registers the current setting conditions such as input selector, listening mode, etc. or call the registered settings. (→p44)
3. Input selector buttons: Switches the input to be played.
4. Play buttons: Used for playback operation of a BLUETOOTH-enabled device. If the unit is switched to "CEC MODE" using the MODE button, an HDMI CEC function-enabled AV component can be operated. (Depending on the device, operation may not be possible.)
5. (AV ADJUST) button: Settings such as "HDMI" and "Audio" can be made quickly during play on the TV screen. (→p81)
6. Cursor buttons and ENTER button: Select the item with the cursors and press ENTER to confirm your selection.
7. button: Display advanced setting items on the TV or the display to have a more enjoyable experience with this unit. (→p66)
8. TONE/DIALOG/SW buttons: Adjusts the sound quality of the speakers and volume level of the subwoofer. (→p46)
9. LISTENING MODE buttons: Allows you to select the listening mode. (→p49)
10. DIMMER button: You can switch the display off or adjust the brightness of the display in three steps.
11. CLEAR button: Deletes all characters you have entered when entering text on the TV screen.
12. +Fav button: Used to register AM/FM radio stations. (→p39)
13. SLEEP button: Set the sleep timer. Select the time from "30 min", "60 min" and "90 min". (→p48)
14. ZONE A/B button: Selects an audio output destination from among "ZONE A", "ZONE B" and "ZONE A+B". (→p42)
15. (STATUS) button: Switches the information on the display and is used to operate RDS (→p41).
16. button: Returns the display to the previous state.
17. button: Temporarily mutes audio. Press again to cancel muting.
18. Volume buttons
19. AUDIO SEL button: When a device is connected to two or more audio input terminals for one input selector, you can select which audio input signal to play.
20. SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.
21. MODE button: Switches between automatic tuning and manual tuning for AM/FM stations (→p37). Also, when an HDMI CEC function-enabled AV component is connected to this unit, you can switch "4. Play buttons" between "CEC MODE" and "RCV MODE" (normal mode).

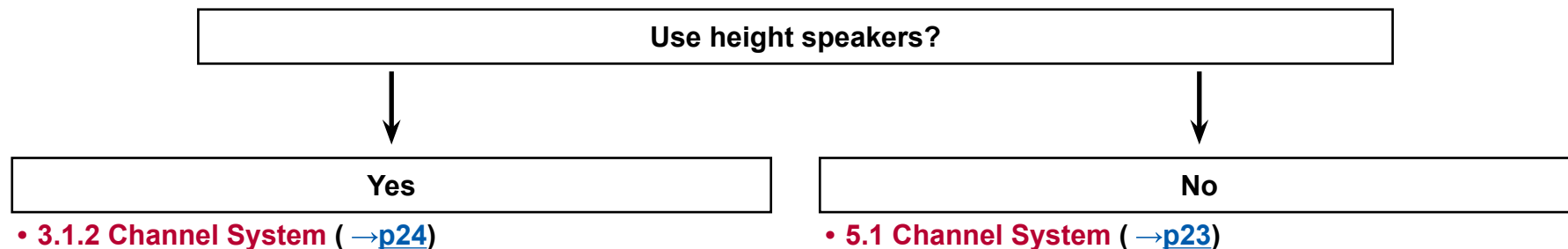


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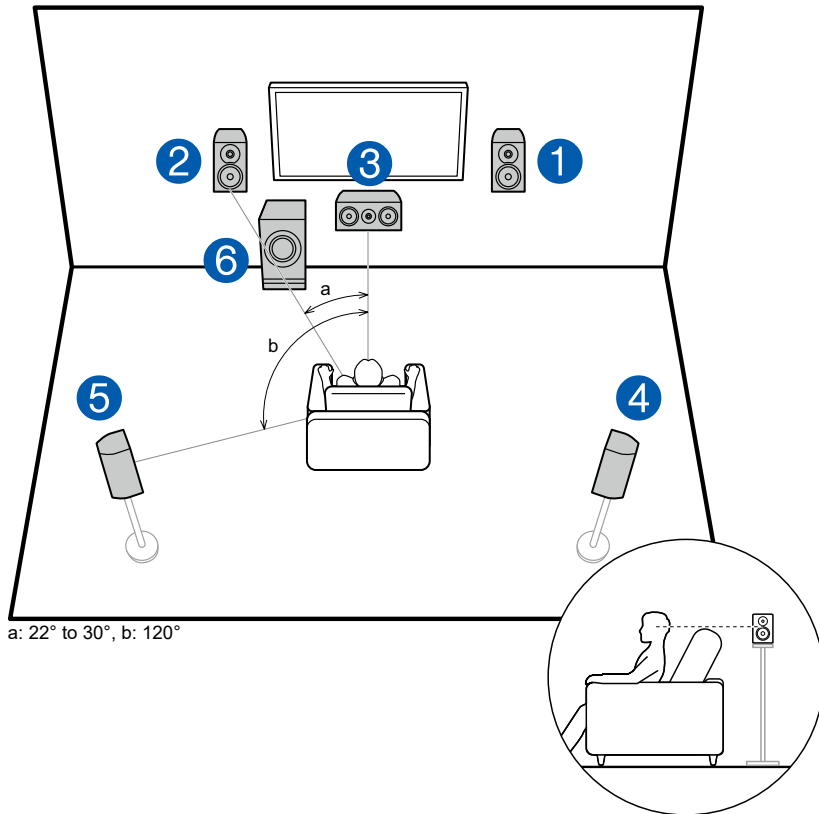
Connecting speakers

You can select the layout of speakers to be installed from various patterns when using this unit. Use the following flow chart to select the speaker layout that suits your speakers and usage environment. You can check the connection method and default settings.



Speaker Installation

■ 5.1 Channel System



This is a basic 5.1 Channel System. Front speakers output the front stereo sound, and a center speaker outputs the sound of the center of the screen, such as dialogs and vocals. Surround speakers create the back sound field. Powered subwoofer reproduces the bass sound, and creates the rich sound field. The front speakers should be positioned at ear height while the surround speakers should be positioned just above ear height. The center speaker should be set up facing the listening position at an angle. Placing the powered subwoofer between the center speaker and the front speaker gives you a natural sound even when playing music sources.

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

❑ **Speaker Layouts and Selectable Listening Modes (→[p52](#))**

■ 3.1.2 Channel System

A 3.1.2 Channel System is a speaker layout consisting of a 3.1 Channel System that includes front speakers, center speaker and powered subwoofer, and added height speakers. Select the height speakers that suit your speakers and usage environment from the following three types.

☐ Front High Speakers Installation Example

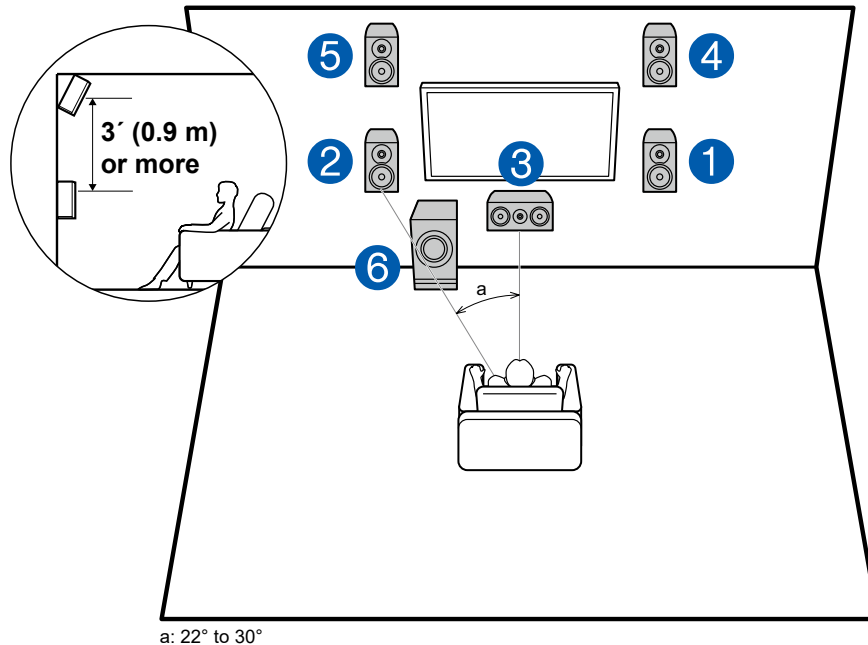
([→p18](#))

☐ Ceiling Speakers Installation Example

([→p19](#))

☐ Dolby Enabled Speakers (Dolby Speakers) Installation Example ([→p20](#))

❑ Front High Speakers Installation Example



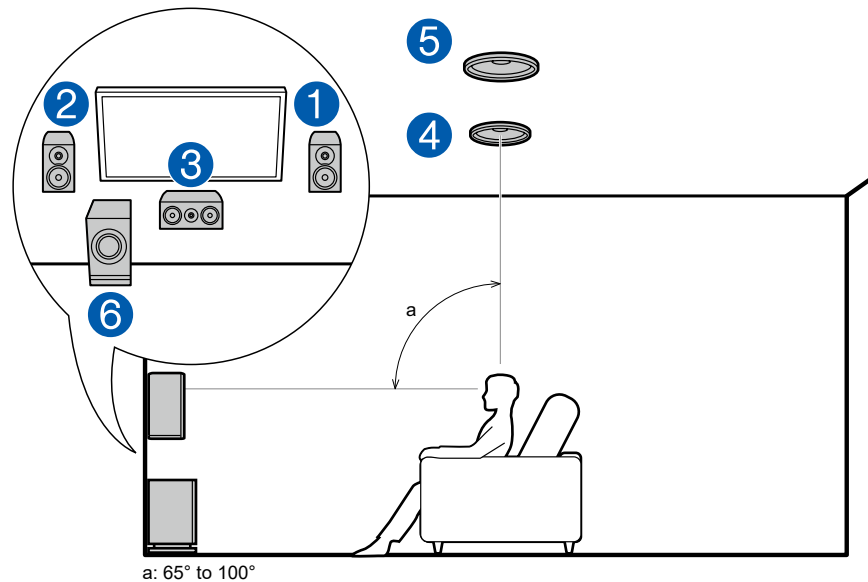
This is a 3.1-channel system consisting of front speakers, a center speaker, and a powered subwoofer, with the addition of front high speakers, a type of height speaker. Installing the height speakers will enrich the sound field feeling in the upper space. Front high speakers should be situated at least 3'/0.9 m higher than the front speakers.

They should also be put directly above the front speakers, angled to face the listening position.

- 1,2 Front Speakers
- 3 Center Speaker
- 4,5 Front High Speakers
- 6 Powered Subwoofer

❑ Speaker Layouts and Selectable Listening Modes (→[p52](#))

❑ Ceiling Speakers Installation Example



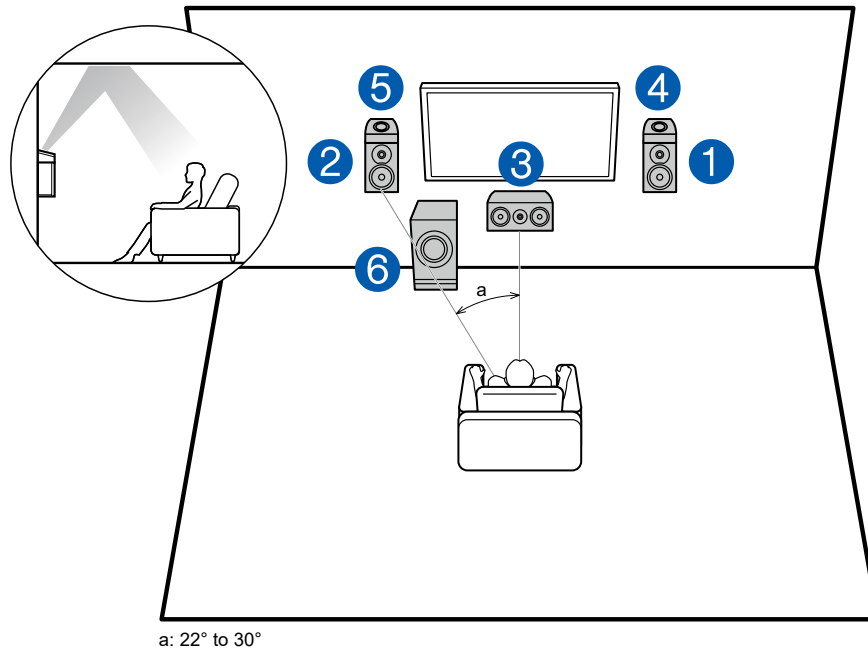
This is a 3.1-channel system consisting of front speakers, a center speaker, and a powered subwoofer, with the addition of top middle speakers, a type of height speaker. Installing the height speakers will enrich the sound field feeling in the upper space. Fit top middle speakers on the ceiling directly above the listening position. The distance between each pair should match the distance between the two front speakers.

- Dolby Laboratories recommends the setups of these types of height speakers to obtain the best Dolby Atmos effect.

- 1,2 Front Speakers
- 3 Center Speaker
- 4,5 Top Middle Speakers
- 6 Powered Subwoofer

❑ Speaker Layouts and Selectable Listening Modes (→[p52](#))

❑ Dolby Enabled Speakers (Dolby Speakers) Installation Example



This is a 3.1-channel system consisting of front speakers, a center speaker, and a powered subwoofer, with the addition of Dolby enabled speakers (front), a type of height speaker. Dolby enabled speakers are special speakers designed to face the ceiling, so that the sound is heard from overhead by bouncing the sound off the ceiling. Installing the height speakers will enrich the sound field feeling in the upper space.

Place Dolby enabled speakers (front) above the front speakers.

- 1,2 Front Speakers
- 3 Center Speaker
- 4,5 Dolby Enabled Speakers (Front)
- 6 Powered Subwoofer

❑ Speaker Layouts and Selectable Listening Modes (→ [p52](#))

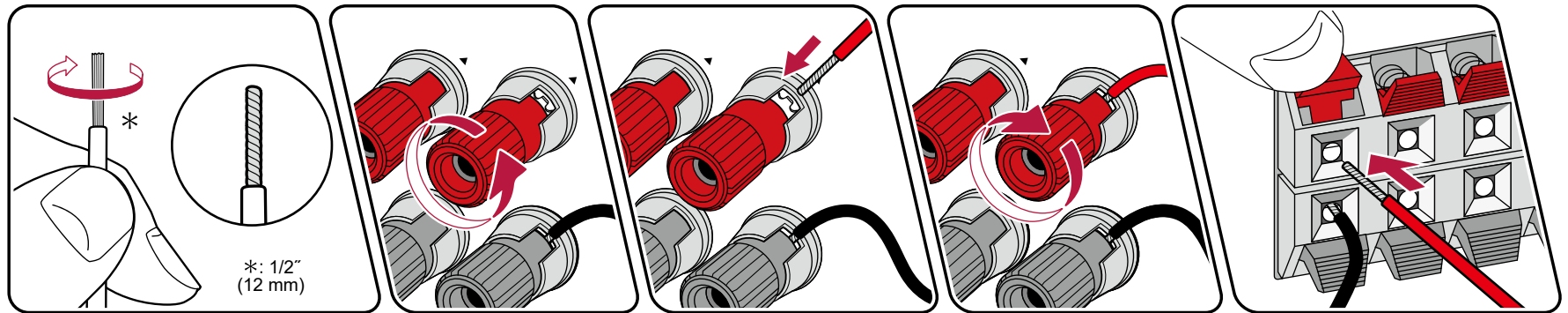
Speaker Connections and "Speaker Setup" Settings

Connections

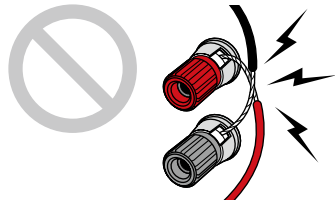
■ (Note) Speaker Impedance

Connect speakers with an impedance of 4 Ω to 16 Ω . If any of the speakers to be connected has an impedance of 4 Ω or more and less than 6 Ω , set "Speaker Impedance" to "4 ohms" for "Speaker Setup" in the Initial Setup section (→p83). When setting "Speaker Impedance" from the Setup menu, press  on the remote controller, and set "2. Speaker" - "Configuration" - "Speaker Impedance" (→p70) to "4 ohms".

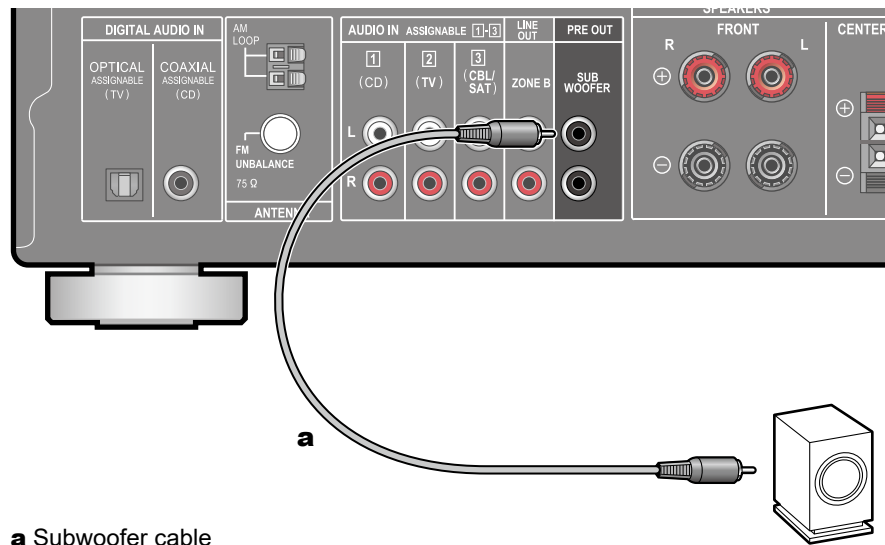
■ Connect the Speaker Cables



Make correct connection between the unit's jacks and speaker's jacks (+ side to + side, and - side to - side) for each channel. If the connection is wrong, a bass sound will not be reproduced properly due to reverse phase. Twist the wires exposed from the tip of the speaker cable so that the wires do not stick out of the speaker terminal when connecting. If the exposed wires touch the rear panel, or the + side and - side wires touch each other, a malfunction may occur.



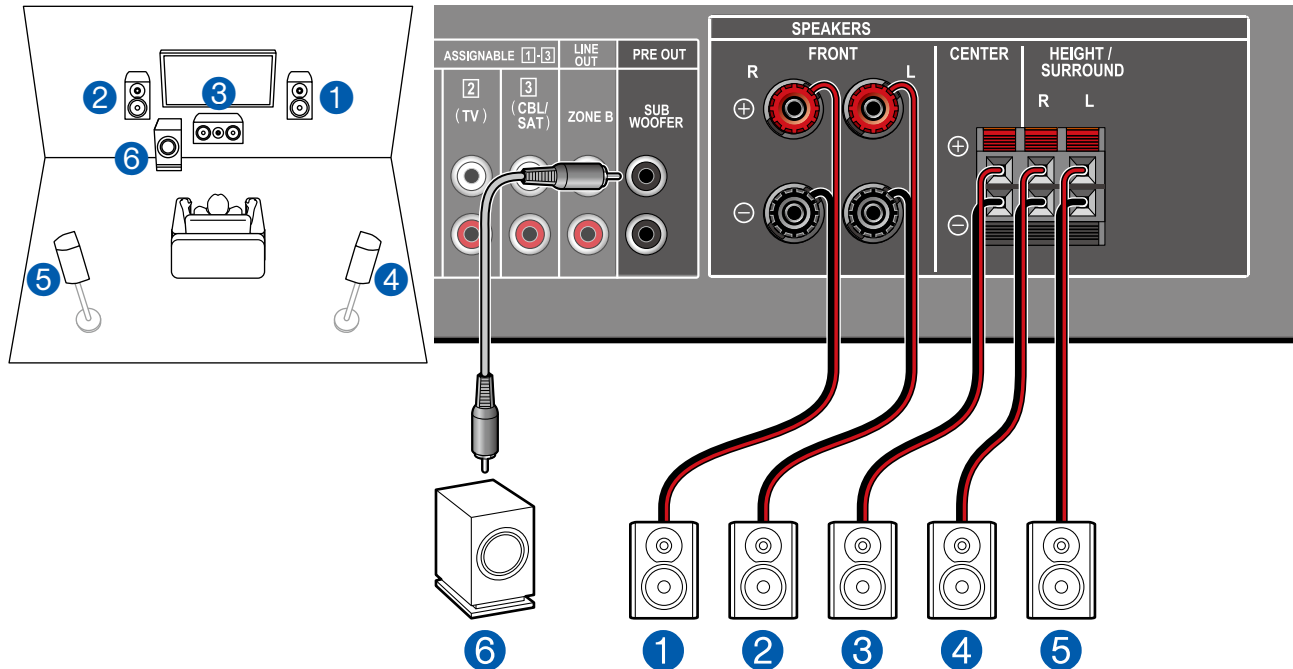
■ Connect the Subwoofer



a Subwoofer cable

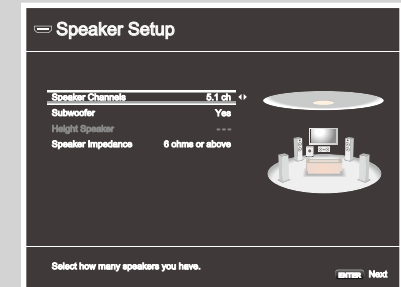
Connect a powered subwoofer with this unit using a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each SUBWOOFER PRE OUT jack.

■ 5.1 Channel System



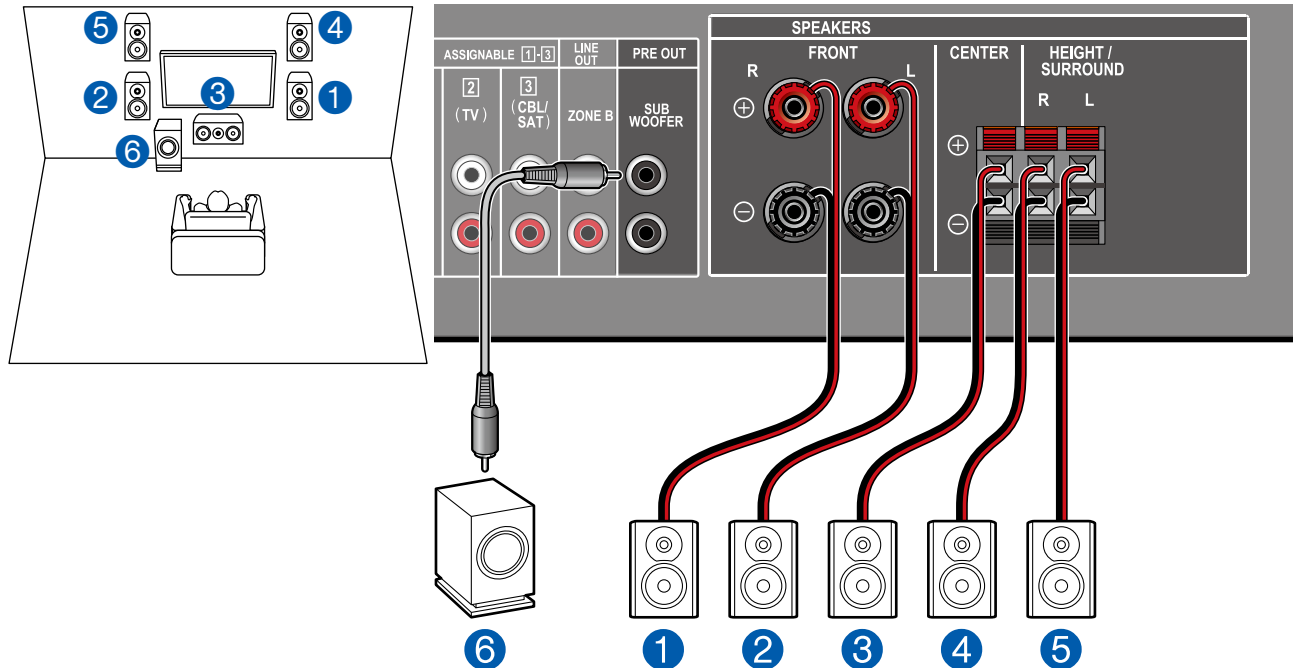
This is a basic 5.1 Channel System. For details of the speaker layout, refer to "Speaker Installation" (→p16).

■ "Speaker Setup" settings during Initial Setup (→p84)



- Speaker Channels: 5.1 ch
- Subwoofer: Yes
- Height Speaker: ---
- Speaker Impedance: Set any value (→p21)

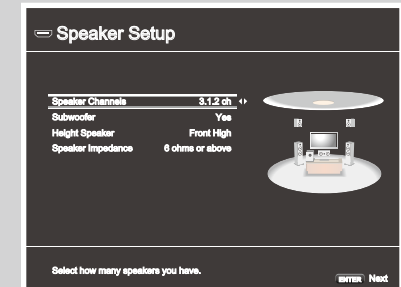
■ 3.1.2 Channel System



This is a combination of the 5.1 Channel System and front high speakers. A front high speaker is a type of height speaker. You can select only one set of height speakers from the following three types for connection.

- ☐ Front High Speakers Installation Example (→p18)
- ☐ Ceiling Speakers Installation Example (→p19)
- ☐ Dolby Enabled Speakers (Dolby Speakers) Installation Example (→p20)

■ "Speaker Setup" settings during Initial Setup (→p84)



- Speaker Channels: 3.1.2 ch
- Subwoofer: Yes
- Height Speaker: Select the type of height speaker actually installed.
- Speaker Impedance: Set any value (→p21)

Speaker combinations

- Up to two powered subwoofers can be connected in either combination.

Speaker Channels	FRONT	CENTER	SURROUND	HEIGHT
2.1 ch	✓			
3.1 ch	✓	✓		
4.1 ch	✓		✓	
5.1 ch	✓	✓	✓	
2.1.2 ch	✓			✓
3.1.2 ch	✓	✓		✓

Connecting the TV

Connect this unit between a TV and AV component. Connecting this unit with the TV can output the video and audio signals of the AV component to the TV, or play the audio of the TV on this unit. Connection with the TV differs depending on whether the TV supports the ARC (Audio Return Channel) function or not. The ARC function transmits the audio signals of the TV via an HDMI cable, and plays the audio of the TV on this unit. To check if the TV supports the ARC function, refer to the instruction manual of the TV, etc.

Does your TV support the ARC function?



Yes

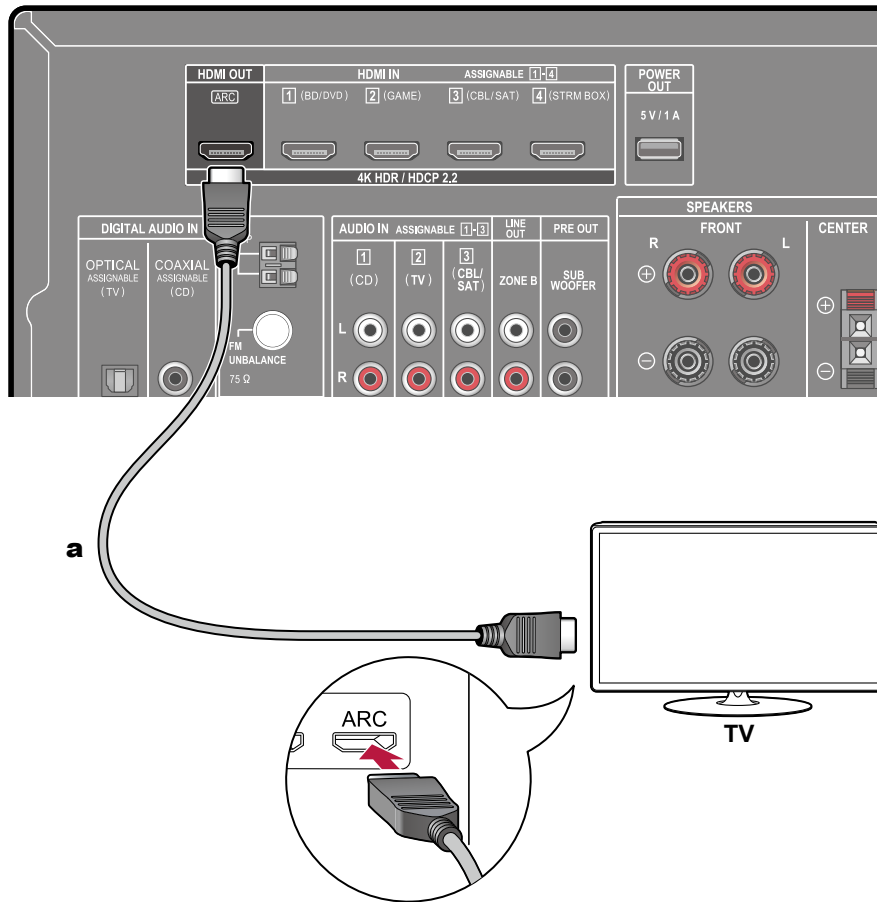
• To ARC TV (→[p27](#))



No

• To Non-ARC TV (→[p28](#))

To ARC TV



a HDMI cable

If the TV supports the ARC (Audio Return Channel) function (*), use only the HDMI cable to connect with the TV. Use the ARC-compatible HDMI IN jack of the TV for connection.



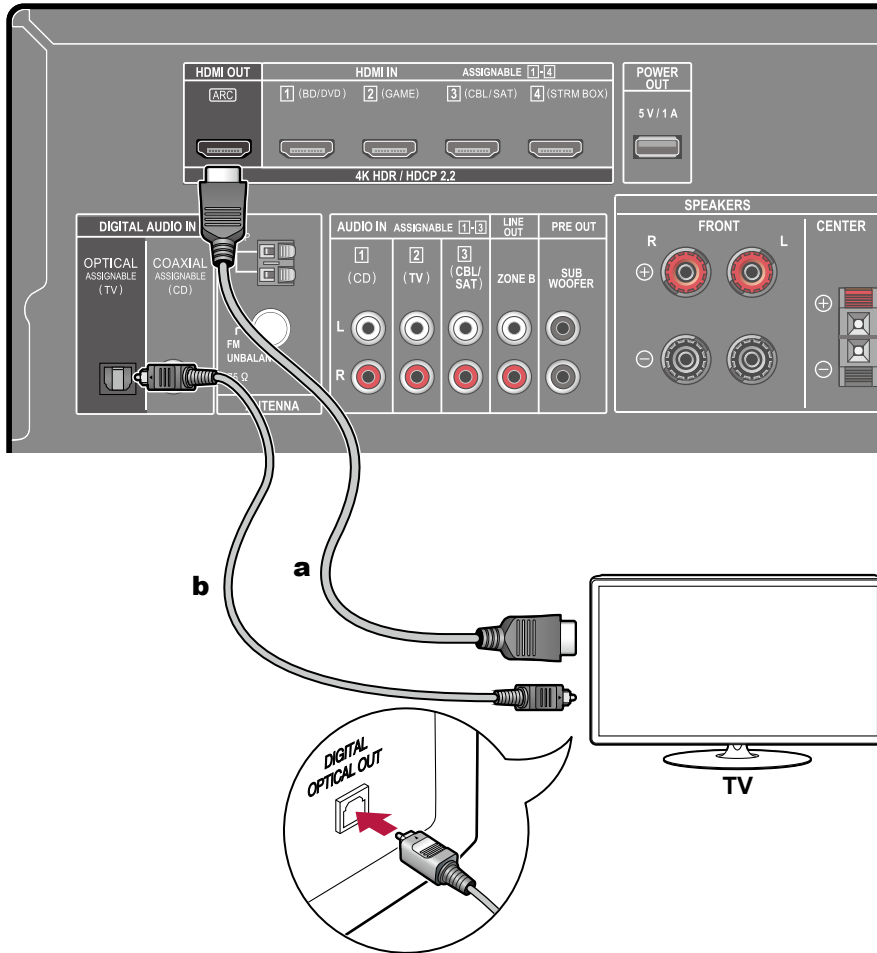
Setup

- Settings are required to use the ARC function. Select "Yes" for "3. ARC Setup" in Initial Setup (→p83). If "No, Skip" is selected, settings are required in the Setup menu after Initial Setup is completed. Pres  on the remote controller, and set "6. Hardware" - "HDMI" - "Audio Return Channel" to "On". (→p78)
- For detailed settings for TV connection, CEC function and audio output, refer to the instruction manual of the TV.

(*) ARC function: This function transmits the audio signals of the TV via an HDMI cable, and plays the audio of the TV on this unit. Connection to an ARC-compatible TV is complete with one HDMI cable. To check if the TV supports the ARC function, refer to the instruction manual of the TV, etc.



To Non-ARC TV



a HDMI cable, **b** Digital optical cable

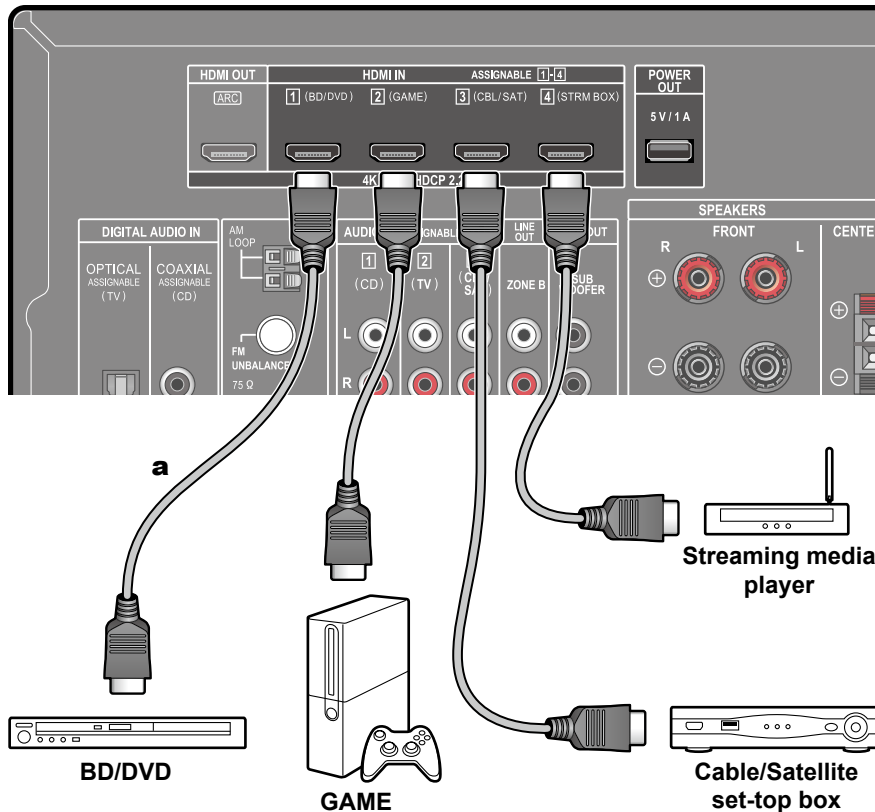
If the TV does not support the ARC (Audio Return Channel) function (*), connect an HDMI cable and digital optical cable. If the TV does not have a DIGITAL OPTICAL OUT jack, you can use an analog audio cable to connect with the AUDIO IN TV jack.

- If you use a cable set-top box, etc. connected to the input jack of this unit to watch TV (without using a TV's built-in tuner), connection with a digital optical cable or analog audio cable is not required.

(*) ARC function: This function transmits the audio signals of the TV via an HDMI cable, and plays the audio of the TV on this unit. Connection to an ARC-compatible TV is complete with one HDMI cable. To check if the TV supports the ARC function, refer to the instruction manual of the TV, etc.

Connecting Playback Devices

Connecting an AV Component with HDMI Jack Mounted



a HDMI cable

This is a connection example of an AV component equipped with an HDMI jack. When connecting with an AV component that conforms to the CEC (Consumer Electronics Control) standard, you can use the HDMI CEC function (*) that enables linking with input selectors, etc. and the HDMI Standby Through function that can transmit video and audio signals of the AV component to the TV even if this unit is in standby mode. Also, the POWER OUT port on the rear panel can supply power (5 V/1 A) to a streaming media player, etc. using a USB cable. To supply power even when this unit is in standby mode, change the setting value of "USB Power Out at Standby" (→p79) to "On".

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



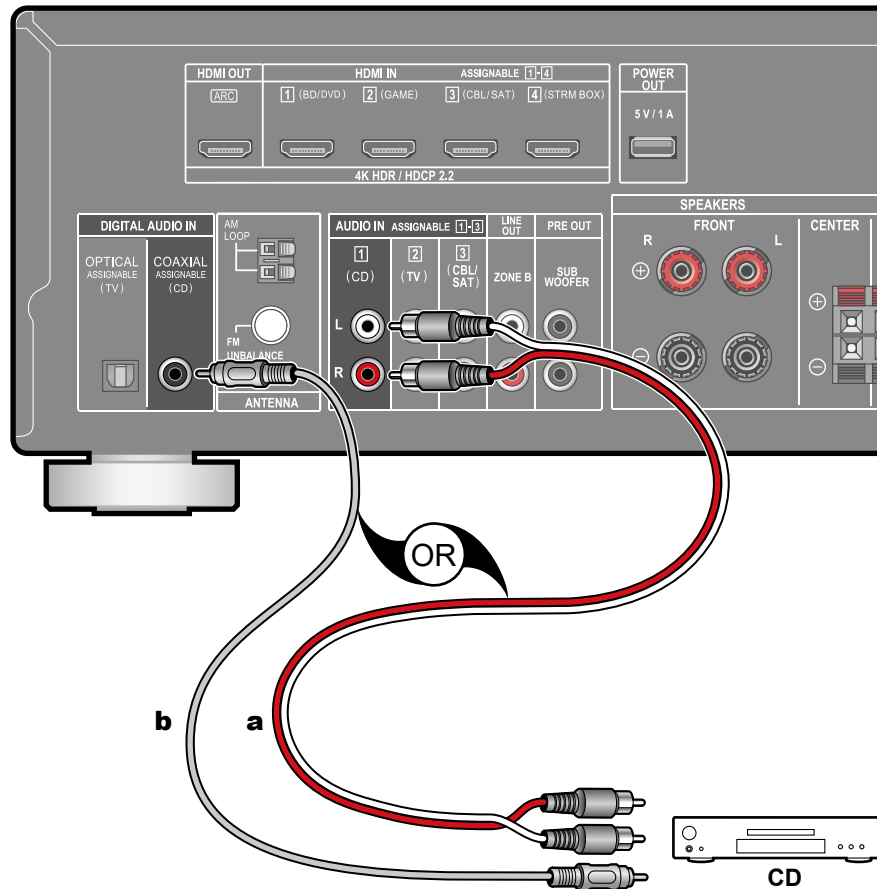
Setup

- The HDMI CEC function and HDMI Standby Through function are automatically enabled if you select "Yes" for "3. ARC Setup" in Initial Setup (→p83). If "No, Skip" is selected, settings are required in the Setup menu after Initial Setup is completed. Press  on the remote controller, and select "6. Hardware" - "HDMI" to make the settings. (→p77)
- To enjoy digital surround sound including Dolby Digital, set the audio output of the connected Blu-ray Disc player etc. to the Bitstream output.

(*)The HDMI CEC function: This function enables various linking operations with CEC-compliant devices, such as switching input selectors interlocking with a CEC-compliant player, switching audio output between TV and this unit or 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.



Connecting an Audio Component

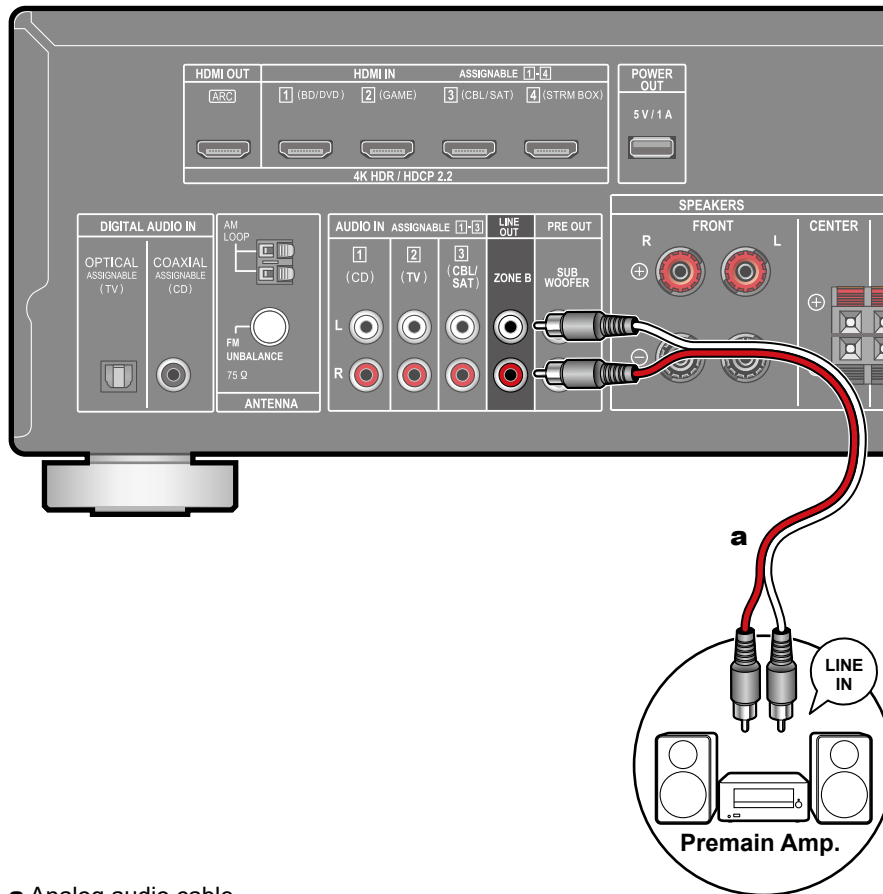


This is a connection example of an audio component. Connect a CD player using a digital coaxial cable or analog audio cable.

a Analog audio cable, **b** Digital coaxial cable

Connecting an AV Component in a Separate Room (ZONE B Connection)

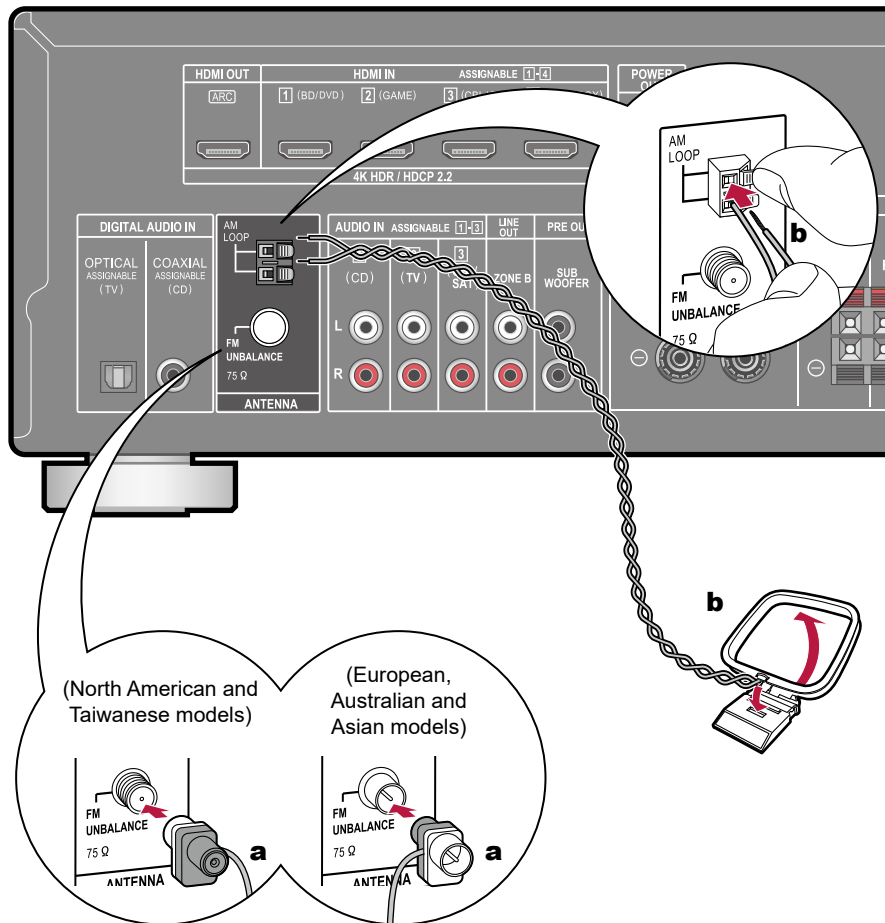
Connecting a Pre-main Amplifier (ZONE B)



While performing playback in the main room (ZONE A), you can enjoy 2-ch audio of the same source in the separate room (ZONE B) at the same time. Use an analog cable to connect the ZONE B LINE OUT jack of this unit and the LINE IN jack of the pre-main amplifier in the separate room.

a Analog audio cable

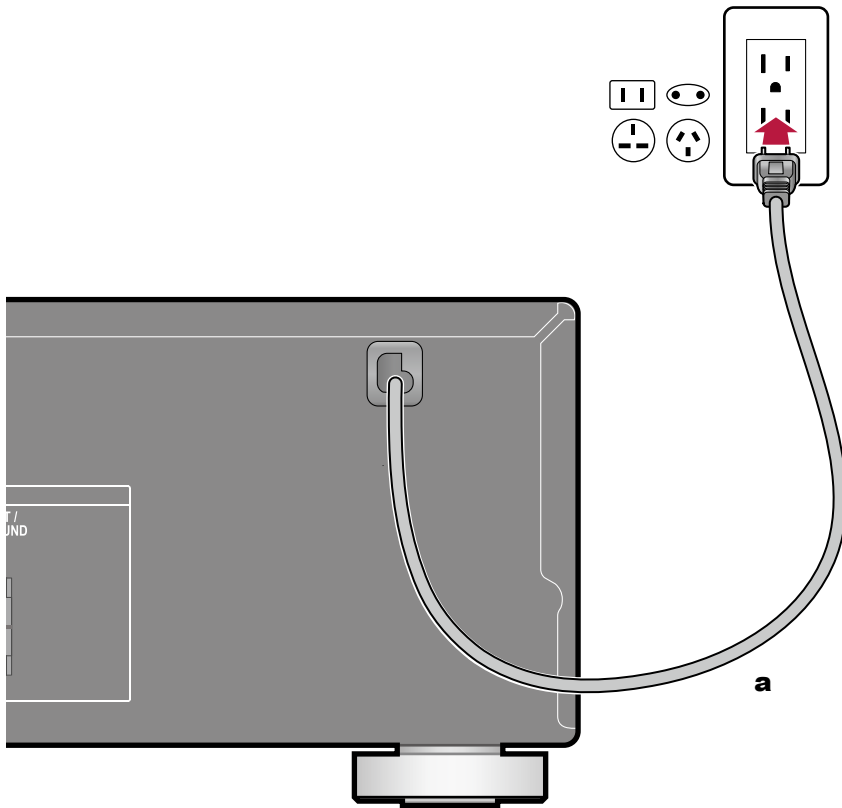
Connecting Antennas



Connect the antenna to this unit, and set up the antenna at the best position for listening while receiving radio signals. Attach the indoor FM antenna to the wall using push pins or adhesive tape.

Connecting the Power Cord

Connect the power cord after all the connections are completed.



a Power cord

Playback

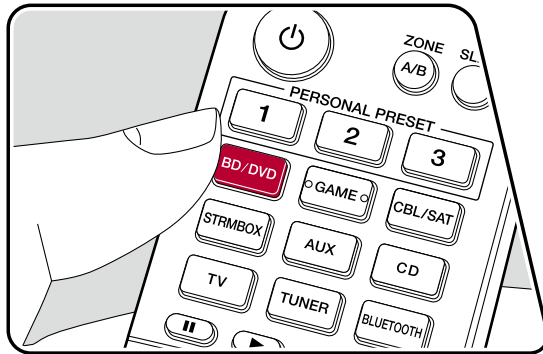
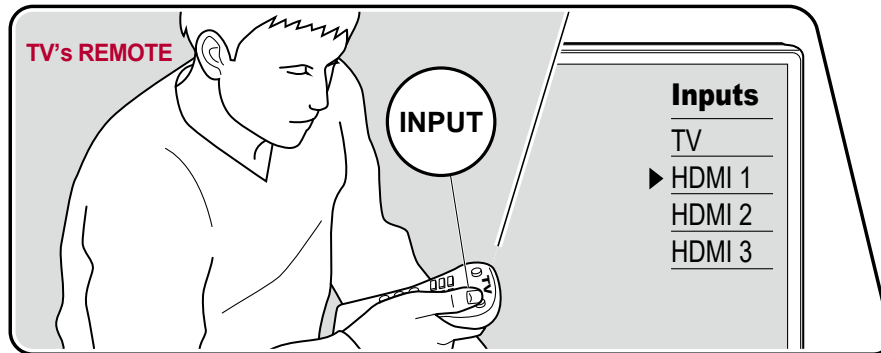
AV Component Playback	35
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AV Component Playback

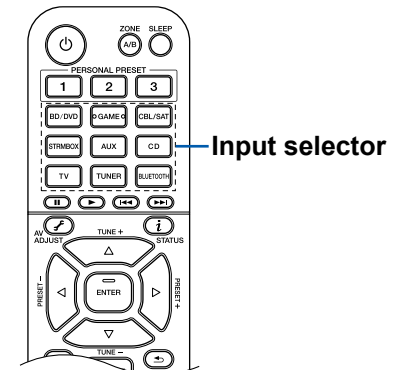
You can play the audio from AV components, such as Blu-ray disc players through this unit.

Basic Operations



Perform the following procedure when this unit is on.

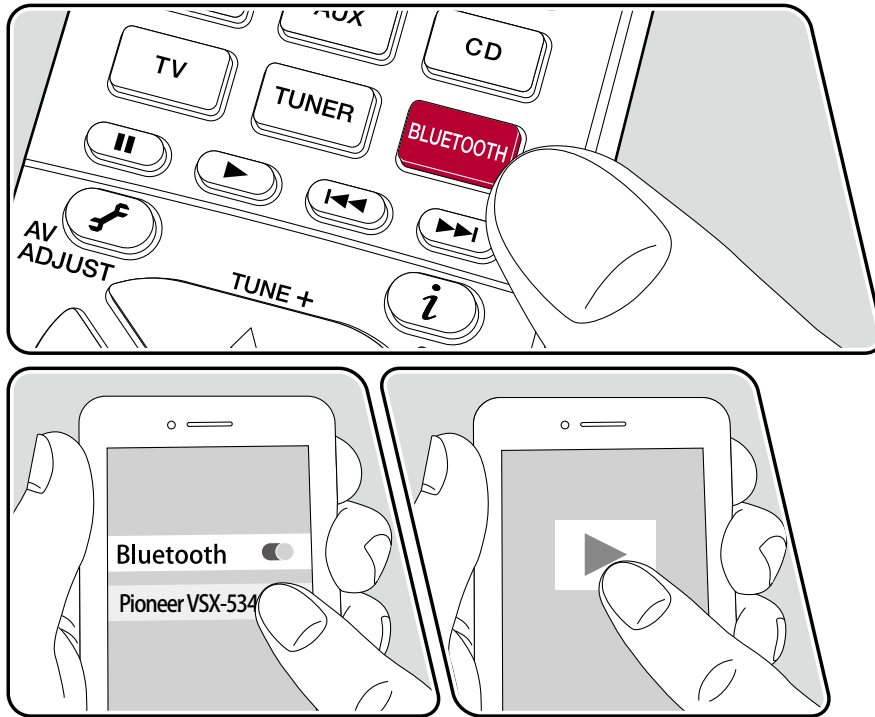
1. Switch the input on the TV to the input connected to the unit.
2. Press the input selector whose name is the same as that of the jack to which the player is connected.
For example, press BD/DVD to play the player connected to the BD/DVD jack. Press TV to listen the sound of the TV.
 - When the CEC link function works, the input switches automatically when a CEC compliant TV or player is connected to this unit using HDMI connection.
3. Start play on the AV component.



BLUETOOTH® Playback

You can wirelessly play the audio on a BLUETOOTH-enabled device, such as a smartphone.

Basic Operations



Perform the following procedure when this unit is on.

Pairing

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

Now Pairing...

2. Enable (turn on) the BLUETOOTH function of the BLUETOOTH-enabled device, and then select this unit from among the devices displayed. If a password is requested, enter "0000".
 - This unit is displayed as "Pioneer VSX-534 XXXXXX".
 - To connect another BLUETOOTH-enabled device, press and hold the BLUETOOTH button until "Now Pairing..." is displayed, and then perform step 2. This unit can store the pairing information of up to 8 paired devices.
 - The coverage area is approx. 48'/15 m. Note that connection is not always guaranteed with all BLUETOOTH-enabled devices.

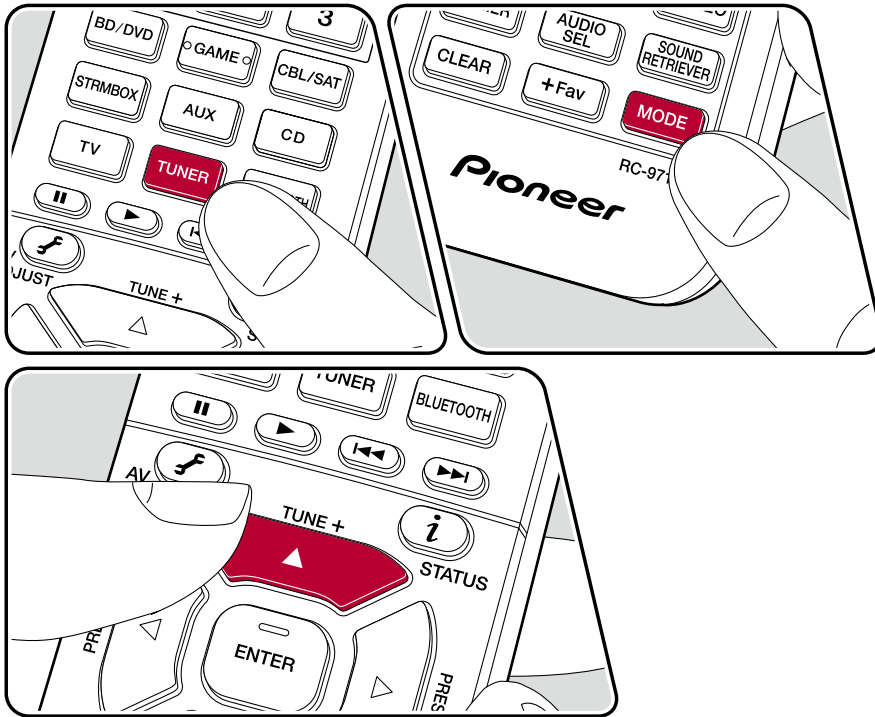
Playing Back

1. Perform the connection procedure on the BLUETOOTH-enabled device.
2. Playing the music file.
The input on this unit automatically switches to "BLUETOOTH".
Turn up 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.

Listening To the AM/FM Radio

You can receive AM and FM radio stations on this unit with the built-in tuner.

Tuning into a Radio Station



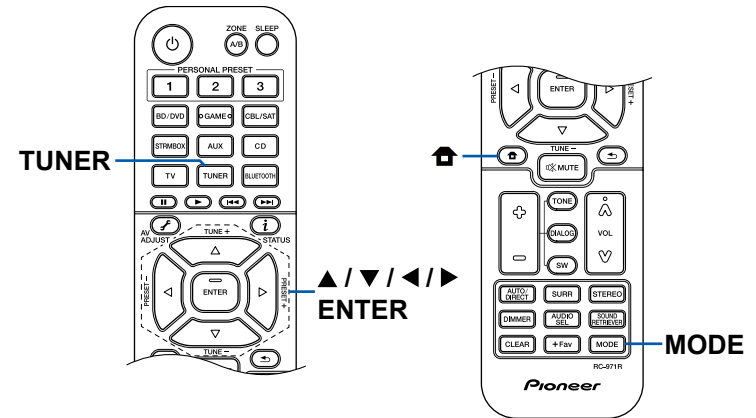
Perform the following procedure when this unit is on.

Tuning Automatically

1. Press TUNER repeatedly to select either "AM" or "FM".
2. Press MODE repeatedly to display "TunMode: Auto" on the display.

TunMode: Auto

3. When you press the cursors ▲ / ▼, automatic tuning starts, and searching stops when a station is found. When tuned in to a radio station, the "TUNED" indicator on the display lights up. When tuned in to an FM radio station, the "STEREO" indicator lights up.



When FM broadcasts reception is poor: Perform the procedure for "Tuning Manually" (→p38). 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 repeatedly to select either "AM" or "FM".
2. Press MODE repeatedly to display "TunMode: Manual" on the display.

TunMode:Manual

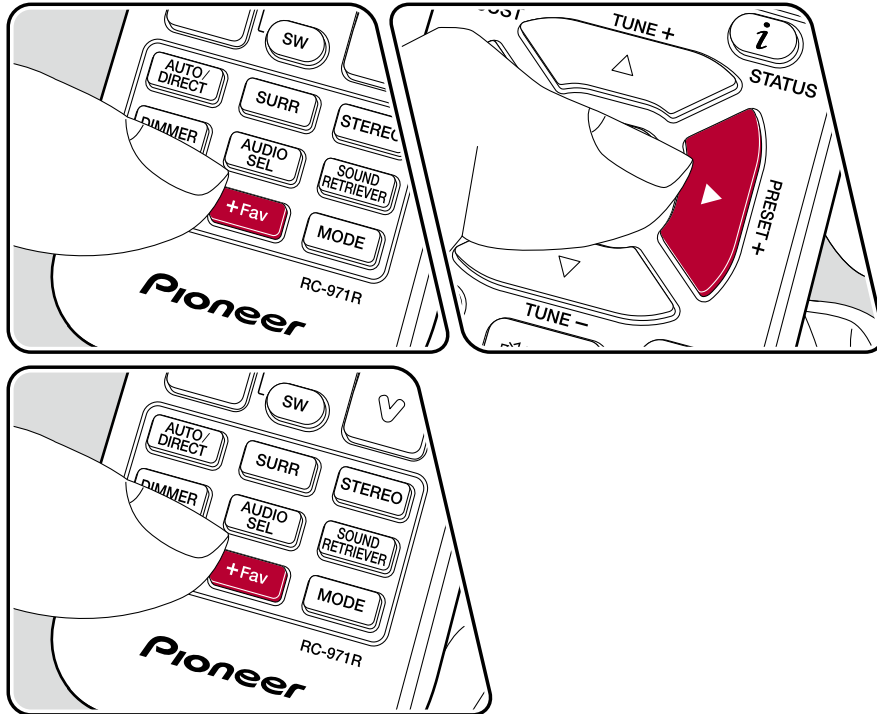
3. While pressing the cursors ▲ / ▼, select the desired radio station.
 - Each time you press the cursors ▲ / ▼, the frequency changes by 1 step. If the button is held down, the frequency changes continuously, and if the button is released, the frequency stops changing.

Frequency step setting

Press , and using the cursors and ENTER, select "7. Miscellaneous" - "Tuner" - "AM/FM Frequency Step" or "AM Frequency Step", and then select the frequency step for your area. For Taiwanese models, the default value is "10 kHz / 0.2 MHz" at the time of purchase. Please change it to "9 kHz / 0.05 MHz". Note that when this setting is changed, all radio presets are deleted.

❑ Presetting a Radio Station (→p39)

Presetting a Radio Station



Registration Procedure

You can preset up to 40 of your favorite AM/FM radio stations.

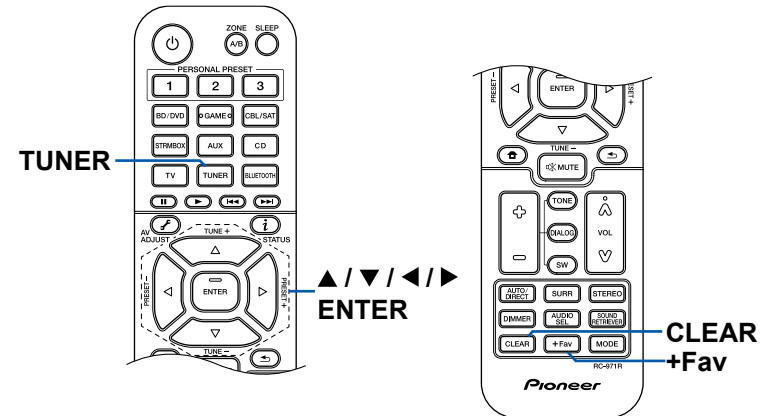
After tuning in to the AM/FM radio station you want to register, perform the following procedure.

1. Press +Fav so that the preset number on the display blinks.

FM 87.5 MHz 1

2. While the preset number is blinking (approx. 8 seconds), repeatedly press the cursors ◀/▶ to select a number between 1 and 40.
3. Press +Fav again to register the station.

When the station is registered, the preset number stops blinking. Repeat this steps to register your favorite AM/FM radio stations.



Selecting a Preset Radio Station

1. Press TUNER.
2. Press the cursors ◀/▶ to select a preset number.

Deleting a Preset Radio Station

1. Press TUNER.
2. Press the cursors ◀/▶ to select the preset number to delete.
3. After pressing +Fav, press CLEAR while the preset number is blinking, and delete the preset number. When deleted, the number on the display disappears.

❑ **Using RDS (European, Australian and Asian models) (→[p41](#))**

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 where RDS can be used, when you tune in to a radio station broadcasting program information, the radio station name is displayed on the display. 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.
The Radio Text (RT), which is text information delivered by the station, is displayed scrolling across the display. "No Text Data" is displayed when no text information is delivered.

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.
 - If none of the Program Types are set for the radio station under reception, "None" is displayed.
2. Press the cursors **◀** / **▶** on the remote controller to select the Program Type you want to search for, and then press the ENTER button 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 not match the content delivered by the station.
3. When a station is found, the station blinks on the display. Pressing the ENTER button in this state will receive that station. If you don't press the ENTER button, the unit starts to search for another station.

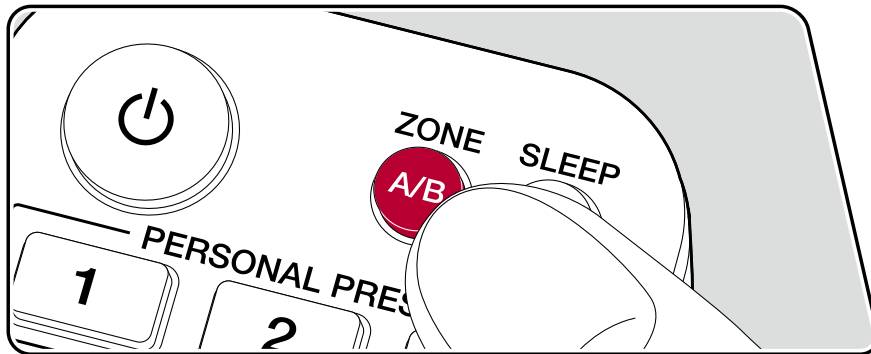
- If no stations are found, the message "Not Found" is displayed.
- Unusual characters may be displayed when the unit receives unsupported characters. This is not a malfunction. Also, if the signal from a station is weak, information may not be displayed.



ZONE B Playback

While performing playback in the main room (ZONE A), you can enjoy the audio of the same source in the separate room (ZONE B) at the same time.

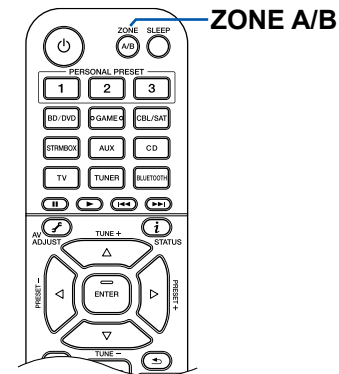
Playing Back



1. Press ZONE A/B to select an audio output destination.
 - ZONE A: Outputs audio only to the main room (ZONE A). "A" on the display of the main unit lights up.
 - ZONE B: Outputs audio only to the separate room (ZONE B). "B" on the display of the main unit lights up.
 - ZONE A+B: Outputs audio to both the main room (ZONE A) and separate room (ZONE B). "A" and "B" on the display of the main unit light up.

A B

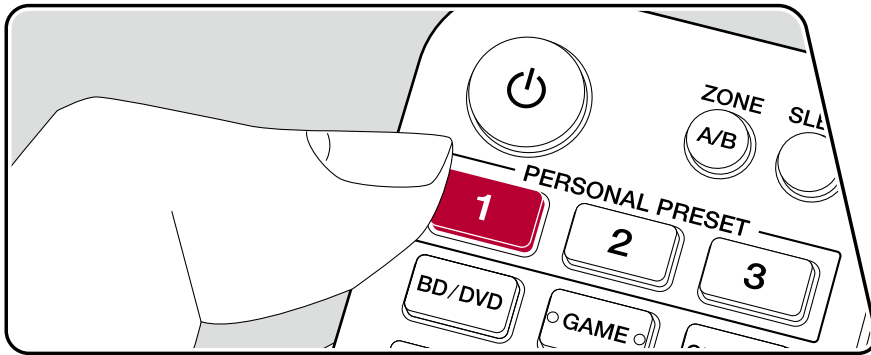
2. Start play on the AV component.
3. If the unit is connected to the pre-main amplifier in the separate room, adjust the volume on the pre-main amplifier.



- If "ZONE A+B" is selected as an audio output destination, you can select only the "Stereo" listening mode for the main room (ZONE A) when using the 2.1ch speaker layout. When using a speaker layout of 3.1ch or more, you can select only the "Ext.Stereo" listening mode.

Convenience functions

Using PERSONAL PRESET



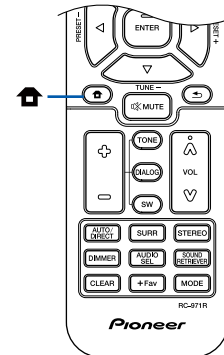
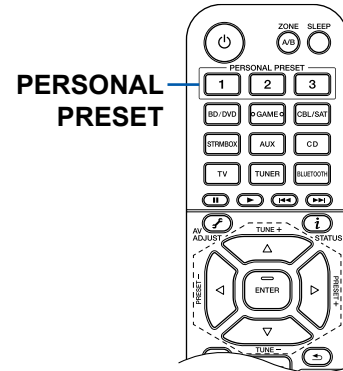
Registration

You can register settings (→p45) such as the current input selector and listening mode with the three PERSONAL PRESET buttons, and call a registered setting in a single operation.

e.g.) Pressing the PERSONAL PRESET button will automatically switch the input selector to "TUNER" to receive the registered station. Also, the listening mode and volume level are switched as registered.

Perform the following steps in the state of the setting to register.

1. Press and hold any of the 1 to 3 buttons of PERSONAL PRESET.
2. "Preset Written" appears on the display, and the setting is registered. If registration has already been made, the registered setting is overwritten.



Settings that can be registered

The following settings can be registered with PERSONAL PRESET.

- Input selector (AM/FM radio stations can also be registered.)
- Listening mode
- Volume level (Upper limit "-32 dB")
- Output destination (Zone)
- Sound Retriever function's "On" and "Off"
- TREBLE/BASS/DIALOG, etc.

* When AM/FM radio stations are registered, TUNER's preset numbers "38", "39" and "40" (→[p39](#)) are overwritten.

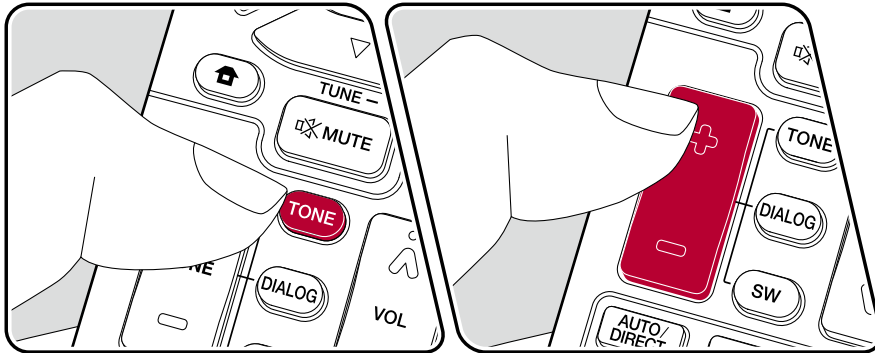
Using the registered settings

1. Press any of the 1 to 3 buttons of PERSONAL PRESET with which settings have been registered.
 - Pressing PERSONAL PRESET buttons turns the power on even if the main unit is in standby mode.

Checking the registered settings

1. Press , select "1. Input/Output Assign" - "PERSONAL PRESET Information" on the Setup menu (→[p69](#)), and press ENTER.
2. The registered settings are displayed in the list.
 - Some of the items such as the Sound Retriever function are not displayed in the list.

Adjusting the tone



Adjusting TREBLE/BASS

You can adjust the sound quality of the speakers.

1. Press TONE repeatedly to select Treble or Bass and adjust the content.
Treble: Enhances or moderates the high-tone range of the speakers.
Bass: Enhances or moderates the low-tone range of the speakers.
2. Press + or - for adjustment.

Adjusting DIALOG

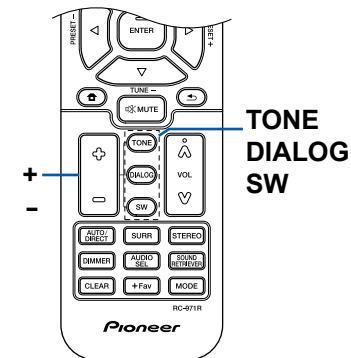
Emphasizes movie lines and music vocals to listen to them more easily. It is effective to movie lines in particular. Also, it exerts the effect even if the center speaker is not used. Select a desired level from "1" (low) to "5" (high).

1. Press DIALOG.
2. Press + or - for adjustment.
 - Depending on the input source or listening mode setting, selection is not possible, or the desired effect may not be achieved.

Adjusting SUBWOOFER

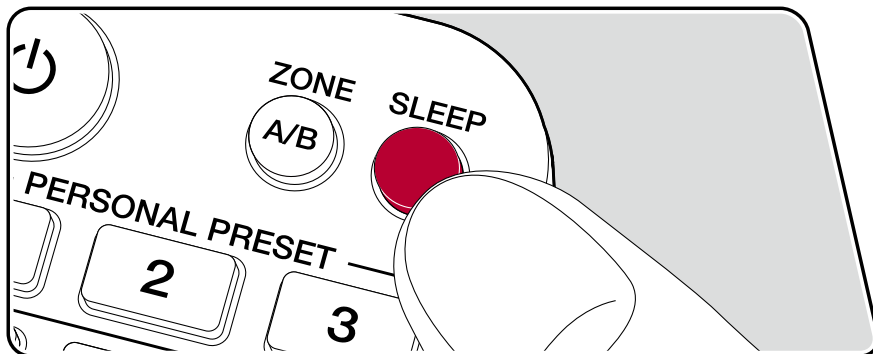
Adjust the speaker level of the subwoofer while listening to the sound.

1. Press SW.



2. Press + or - to adjust the level between "-15.0 dB" and "+12.0 dB".
 - If you set the unit to the standby mode, the adjustments you made will be restored to the previous statuses.

Sleep Timer



You can allow the unit to enter standby automatically when the specified time has elapsed.

Press SLEEP button on the remote controller to select the time from "30 min", "60 min" and "90 min".

"Off": The unit does not automatically enter standby mode.

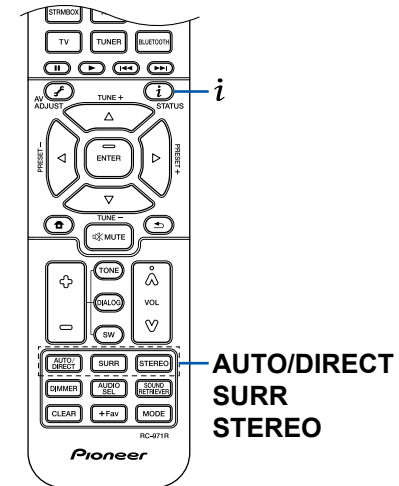
You can also set this by pressing the  button on the remote controller and selecting "6. Hardware" - "Power Management" - "Sleep Timer" (→ [p79](#)) on the Setup menu.

Listening Mode

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

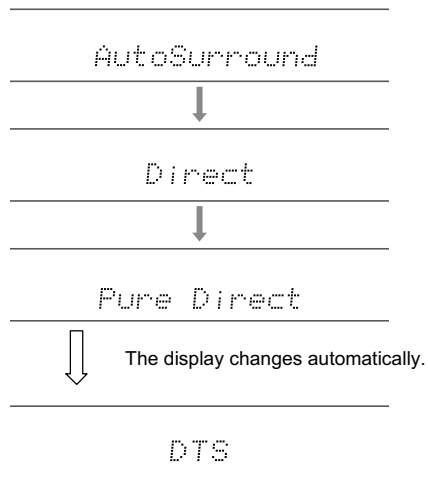
Selecting a Listening mode

- Each of AUTO/DIRECT, SURR, and STEREO buttons stores the listening mode that was selected last. If content incompatible of the listening mode selected last is played, the most standard listening mode for the content is automatically selected.
- For details of the effects of each listening mode, refer to "Listening Mode Effects" (→[p54](#)).
- For listening modes selectable for each audio format of input signals, refer to "Input Formats and Selectable Listening Modes" (→[p58](#)).



■ AUTO/DIRECT button

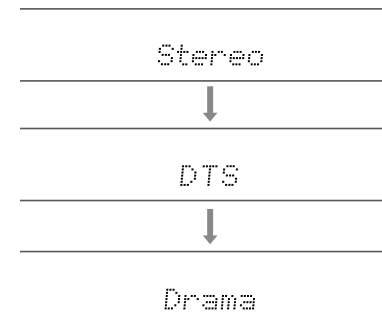
Press repeatedly and the listening modes suited to the input signal are switched between "Auto Surround", "Direct", and "Pure Direct". After selecting one of them, "Auto Surround" (or "Direct" or "Pure Direct") is displayed, then the most suitable listening mode for the audio format is selected automatically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

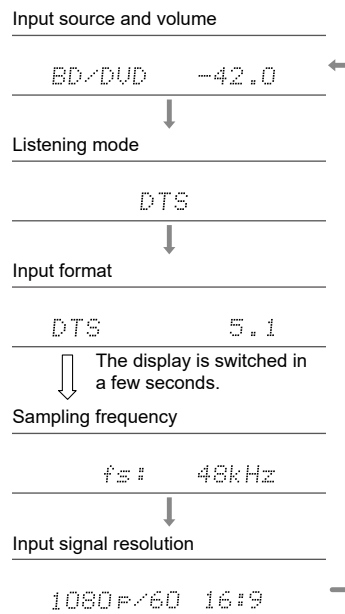
You can select the "Stereo" mode to playback only from the front speakers and subwoofer.

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 "Input Formats and Selectable Listening Modes".

Checking the input format and listening mode

Pressing **i** button on the remote controller or STATUS button on the main unit repeatedly will switch the display of the main unit in the following order.

- When using a BLUETOOTH connection, press the STATUS button on the main unit.
- Not all the information is necessarily displayed.



Speaker Layouts and Selectable Listening Modes

See the following table for selectable listening modes for each speaker layout.

Listening mode	Speaker layout					
	2.1 ch	3.1 ch	4.1 ch	5.1 ch	2.1.2 ch	3.1.2 ch
DD (Dolby Audio - DD)		✓(*1)	✓(*1)	✓(*1)		✓(*2)
DD+ (Dolby Audio - DD+)		✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
DTHD (Dolby Audio - TrueHD)		✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
Atmos					✓	✓
Atmos 2.0/2.1	✓					
Atmos 3.0/3.1		✓				
Atmos 4.0/4.1			✓			
Atmos 5.0/5.1				✓		
Atmos 2.0.2/2.1.2					✓	
Atmos 3.0.2/3.1.2						✓
Dsur (Dolby Audio - Surr)	✓	✓	✓	✓	✓	✓
Dsur 2.0/2.1 (Dolby Audio - Surr)	✓					
Dsur 3.0/3.1 (Dolby Audio - Surr)		✓				
Dsur 4.0/4.1 (Dolby Audio - Surr)			✓			
Dsur 5.0/5.1 (Dolby Audio - Surr)				✓		
Dsur 2.0.2/2.1.2 (Dolby Audio - Surr)					✓	
Dsur 3.0.2/3.1.2 (Dolby Audio - Surr)						✓

Listening mode	Speaker layout					
	2.1 ch	3.1 ch	4.1 ch	5.1 ch	2.1.2 ch	3.1.2 ch
DTS		✓	✓	✓		✓(*2)
DTS 96/24		✓	✓	✓		✓(*2)
DTS-HD HR (DTS-HD High Resolution)		✓	✓	✓		✓
DTS-HD Master (DTS-HD Master Audio)		✓	✓	✓		✓
DTS Express		✓	✓	✓		✓
DTS:X		✓	✓	✓	✓	✓
DTS Neural:X	✓	✓	✓	✓	✓	✓
DTS Virtual:X	✓	✓	✓	✓		
PCM	✓	✓(*1)	✓(*1)	✓(*1)	✓(*2)	✓(*2)
DSD		✓(*1)	✓(*1)	✓(*1)		✓(*2)
Direct	✓	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
Pure Direct	✓	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
Stereo	✓	✓(*3)	✓(*3)	✓(*3)	✓(*3)	✓(*3)
Mono	✓	✓(*4)	✓(*3)	✓(*4)	✓(*3)	✓(*4)
Ext.Mono		✓	✓	✓	✓	✓
Ext.Stereo		✓	✓	✓	✓	✓
Classical			✓	✓	✓	✓
Ent.Show (Entertainment Show)			✓	✓	✓	✓
Drama			✓	✓	✓	✓
Unplugged			✓	✓	✓	✓
F.S.Surround (Front Stage Surround)	✓	✓	✓(*3)	✓(*5)	✓(*3)	✓(*5)
Surround Enhancer	✓	✓	✓	✓	✓	✓

*1: Reproduced with the sound field according to the number of channels of input signals.

*2: Not output from height speakers.

*3: Output only from front speakers.

*4: Output only from center speaker.

*5: Output only from front speakers and center speaker.



Listening Mode Effects

Updating of listening modes

Listening modes such as  Atmos 2.0 and  DSur 2.0 are added when the firmware is updated after purchase or the firmware is switched in the product production process. For details of firmware update, see "Additional Function (Firmware Update)" (→[p5](#)).

In alphabetical order

■ 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.

■ Atmos

(Firmware version before supporting  Atmos 2.0, etc.)

Selectable at the time of inputting Dolby Atmos audio format when height speakers are connected. This mode faithfully reproduces the stereophonic sound design recorded in the Dolby Atmos audio format.

Unlike existing surround systems, Dolby Atmos does not rely on channels, but rather enables the accurate placement of sound objects that have independent motion in a 3D space with even greater clarity. Dolby Atmos is an optional audio format for Blu-ray Discs and achieves a more stereophonic sound field by introducing a sound field above the listener.

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

■ Atmos

(Firmware version supporting  Atmos 2.0, etc.)

Since this mode calculates the positional data of audio recorded in Dolby Atmos audio in real-time and outputs it from appropriate speakers, you can enjoy the natural and stereophonic sound field of Dolby Atmos with any speaker layout including connection of only front speakers. Also, the Dolby Atmos sound design can be reproduced more faithfully by connecting height speakers. You can select this mode when inputting the Dolby Atmos audio format.

Unlike existing surround systems, Dolby Atmos does not rely on channels, but rather enables the accurate placement of sound objects that have independent motion in a 3D space with even greater clarity. Dolby Atmos is an optional audio format for Blu-ray Discs and achieves a more stereophonic sound field by introducing a sound field above the listener.

According to the speaker layout, the following listening modes are displayed.

-  Atmos 2.0/2.1: When only front speakers are installed
-  Atmos 3.0/3.1: When front speakers and center speaker are installed
-  Atmos 4.0/4.1: When front speakers and surround speakers are installed
-  Atmos 5.0/5.1: When front speakers, center speaker and surround speakers are installed
-  Atmos 2.0.2/2.1.2: When front speakers and height speakers are installed
-  Atmos 3.0.2/3.1.2: When front speakers, center speaker and height speakers are installed

- To enable transfer of this audio format, connect via an HDMI cable and set the audio output on the player to Bitstream output.
- When "Speaker Virtualizer" (→[p72](#)) is set to "Off" (Default: On), modes other than  Atmos cannot be selected.

■ DD (Dolby Audio - DD)

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. and is widely adopted for use in movie production. It is also a standard audio format for 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, one 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 a digital cable and set audio output on the player to Bitstream output.

■ **DD+ (Dolby Audio - DD+)**

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

The Dolby Digital Plus format has been improved 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 an optional audio format based on 5.1 ch for Blu-ray Discs. It is possible to record a maximum of 7.1 channels with additional channels such as the surround back channel.

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

■ **DSur (Dolby Audio - DSur)**

(Firmware version before supporting  DSur 2.0, etc.)

This listening mode expands actual channels to more channels for playback according to the configuration of the connected speakers by expanding the input signals from 2 ch to 5.1 ch.

- This mode cannot be selected when DTS signal is input.

■ **DSur (Dolby Audio - Surr)**

(Firmware version supporting  DSur 2.0, etc.)

This listening mode expands 2 ch input signals to 5.1 ch. This mode expands actual channels to more channels for playback according to the configuration of the connected speakers. Also, even if there is no speaker for expansion, for example when only front speakers are connected, audio of surround channel or height channel is virtually created for expansion playback.

- This mode cannot be selected when DTS signal is input.

According to the speaker layout, the following listening modes are displayed.

-  **DSur 2.0/2.1**: When only front speakers are installed
-  **DSur 3.0/3.1**: When front speakers and center speaker are installed
-  **DSur 4.0/4.1**: When front speakers and surround speakers are installed
-  **DSur 5.0/5.1**: When front speakers, center speaker and surround speakers are installed
-  **DSur 2.0.2/2.1.2**: When front speakers and height speakers are installed
-  **DSur 3.0.2/3.1.2**: When front speakers, center speaker and height speakers are installed

- When "Speaker Virtualizer" (→p72) is set to "Off" (Default: On), modes other than  DSur cannot be selected.

■ **DTHD (Dolby Audio - TrueHD)**

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

The Dolby TrueHD audio format is a "lossless" format expanded based on the lossless compression technology referred to as MLP, and it faithfully reproduces the master audio recorded in the studio. Dolby TrueHD is an optional audio format based on 5.1 ch for Blu-ray Discs. It is possible to record a maximum of 7.1 channels with additional channels such as the surround back channel. 7.1 ch is recorded at 96 kHz/24 bit, and 5.1 ch is recorded at 192 kHz/24 bit.

- To enable transfer of this audio format, connect via an 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**

This mode is suitable for playing sources recorded in DSD.

- This unit supports the DSD signal input from the HDMI input terminal. However, depending on the connected player, better sound may be obtained by setting the output on the player side to the PCM output.
- 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 for DVD-Video and a standard format for Blu-ray Discs. It enables recording of 5.1 channels; two front channels, one 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 a 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 a 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 for DVD-Video and Blu-ray Discs. It enables recording of 5.1 channels; two front channels, one 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 and at a resolution of 24 bits.

- To enable transfer of this audio format, connect via a 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 an optional audio format based on 5.1 ch for Blu-ray Discs. It is possible to record a maximum of 7.1 channels with additional channels such as the surround back channel. It also supports low bit rates.

- To enable transfer of this audio format, connect via an 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 an optional audio format based on 5.1 ch for Blu-ray Discs. It is possible to record a maximum of 7.1 channels with additional channels such as the surround back channel at a sampling rate of 96 kHz and at a resolution of 24 bits.

- To enable transfer of this audio format, connect via an 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 an optional audio format based on 5.1 ch for Blu-ray Discs. It is possible to record a maximum of 7.1 channels with additional channels such as the surround back channel using the lossless audio reproduction technology. 96 kHz/24 bit is supported for 7.1 ch, and 192 kHz/24 bit is supported for 5.1 ch.

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

■ DTS Neural:X

This listening mode expands actual channels to more channels for playback to suit the configuration of the connected speakers by expanding the input signals from 2 channels to 5.1 channels.

- This mode cannot be selected when Dolby signal is input.

■ DTS Virtual:X

DTS Virtual:X listening mode uses the proprietary audio processing technology to create spacious 3D sound including audio from up above without connecting height speakers.

This mode can be selected in any speaker layout such as front speakers-only connection. You can enjoy your favorite movies or TV programs with a more immersive audio experience.

- This mode cannot be selected when Dolby signal is input or height speakers are connected.
- This mode cannot be selected when "Speaker Virtualizer" (→[p72](#)) is set to "Off" (Default: On).

■ 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 method based on traditional channel based formats (5.1 ch and 7.1 ch) and object based dynamic audio mixing, and it is characterized by the precise positioning of sounds and the ability to express sound movement.

- To enable transfer of this audio format, connect via an HDMI 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)

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.

- This mode cannot be selected when "Speaker Virtualizer" (→p72) is set to "Off" (Default: On).

■ Mono

In this mode, monaural audio is played from the center speaker at the time of inputting an analog signal or PCM signal. If there is no center speaker connected, monaural audio is played from the front speakers.

■ PCM

Mode suitable for playing sources recorded in multichannel PCM.

■ Stereo

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

■ Surround Enhancer*

This mode allows you to enjoy sound with a rich sound field, enveloping you naturally without relying on reflections from walls. A virtual surround channel is created to give you a broader sound field.

- This mode cannot be selected when DTS signal is input.
- This mode cannot be selected when "Speaker Virtualizer" (→p72) is set to "Off" (Default: On).
- * This function will become unavailable for selection if the firmware is updated after purchase or the firmware is switched in the product production process. For details of firmware update, see "Additional Function (Firmware Update)" (→p5).

■ Unplugged

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

Input Formats and Selectable Listening Modes

You can select a variety of listening modes according to the audio format of the signal to be 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).
- Listening modes available when headphones are connected are Pure Direct and Stereo only.

Selectable listening modes

Input Format	Listening Mode
Analog	Stereo
	Mono
	 DSur
	DTS Neural:X
	DTS Virtual:X ^{*1} ^{*2}
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
	F.S.Surround ^{*1}
	Surround Enhancer ^{*1}

^{*1} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*2} Cannot be selected when height speakers are 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
PCM Music files (except DSD/ Dolby TrueHD)	Stereo
	Mono
	 DSur
	DTS Neural:X ^{*1}
	DTS Virtual:X ^{*2} ^{*3}
	Classical ^{*4}
	Unplugged ^{*4}
	Ent.Show ^{*4}
	Drama ^{*4}
	Ext.Stereo ^{*5}
	Ext.Mono ^{*5}
	F.S.Surround ^{*2}
	Surround Enhancer ^{*2}

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

^{*2} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*3} Cannot be selected when height speakers are installed.

^{*4} Surround speakers or height speakers need to be installed.

^{*5} A center speaker, surround speakers, or height speakers need to be installed.

 **Speaker Layouts and
Selectable Listening Modes**
(→ [p52](#))

Input Format	Listening Mode
Multich PCM	Stereo
	PCM ^{*1}
	 DSur
	DTS Neural:X
	DTS Virtual:X ^{*2 *3}
	Classical ^{*4}
	Unplugged ^{*4}
	Ent.Show ^{*4}
	Drama ^{*4}
	Ext.Stereo ^{*5}
	Ext.Mono ^{*5}
	F.S.Surround ^{*2}
	Surround Enhancer ^{*2}

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

^{*2} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*3} Cannot be selected when height speakers are installed.

^{*4} Surround speakers or height speakers need to be installed.

^{*5} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DSD	Stereo
	DSD ^{*1 *2}
	 DSur
	DTS Neural:X
	DTS Virtual:X ^{*3 *4}
	Classical ^{*5}
	Unplugged ^{*5}
	Ent.Show ^{*5}
	Drama ^{*5}
	Ext.Stereo ^{*6}
	Ext.Mono ^{*6}
	F.S.Surround ^{*3}
	Surround Enhancer ^{*3}

^{*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} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*4} Cannot be selected when height speakers are installed.

^{*5} Surround speakers or height speakers need to be installed.

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

Input Format	Listening Mode
 Atmos ^{*1}	Stereo
	 Atmos
	Classical
	Unplugged
	Ent.Show
	Drama
	Ext.Stereo
	Ext.Mono
	F.S.Surround ^{*2}
	Surround Enhancer ^{*2}

^{*1} With the firmware version before supporting  Atmos 2.0, etc., you can select the  DD+ or  DTHD listening mode when height speakers are not connected.

^{*2} Cannot be selected if "Speaker Virtualizer" is set to "Off".

 **Speaker Layouts and Selectable Listening Modes**
(→ [p52](#))

Input Format	Listening Mode
DD	Stereo
	DD ^{*1 *2}
	DSur
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
	F.S.Surround ^{*5}
	Surround Enhancer ^{*5}

^{*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.

^{*5} Cannot be selected if "Speaker Virtualizer" is set to "Off".

Input Format	Listening Mode
DD+	Stereo
	DD+ ^{*1 *2 *3}
	DSur
	Classical ^{*4}
	Unplugged ^{*4}
	Ent.Show ^{*4}
	Drama ^{*4}
	Ext.Stereo ^{*5}
	Ext.Mono ^{*5}
	F.S.Surround ^{*6}
	Surround Enhancer ^{*6}

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

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

^{*3} DD+ cannot be selected if the input source is Blu-ray Disc. You can select the DD listening mode instead.

^{*4} Surround speakers or height speakers need to be installed.

^{*5} A center speaker, surround speakers, or height speakers need to be installed.

^{*6} Cannot be selected if "Speaker Virtualizer" is set to "Off".

Input Format	Listening Mode
DTHD	Stereo
	DTHD ^{*1 *2}
	DSur
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
	F.S.Surround ^{*5}
	Surround Enhancer ^{*5}

^{*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.

^{*5} Cannot be selected if "Speaker Virtualizer" is set to "Off".

Speaker Layouts and Selectable Listening Modes
(→ [p52](#))

Input Format	Listening Mode
DTS	Stereo
	DTS ^{*1 *2}
	DTS Neural:X ^{*3}
	DTS Virtual:X ^{*4 *5}
	Classical ^{*6}
	Unplugged ^{*6}
	Ent.Show ^{*6}
	Drama ^{*6}
	Ext.Stereo ^{*7}
	Ext.Mono ^{*7}
	F.S.Surround ^{*4}

^{*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 input format is monaural.

^{*4} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*5} Cannot be selected when height speakers are installed.

^{*6} Surround speakers or height speakers need to be installed.

^{*7} 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 ^{*3}
	DTS Virtual:X ^{*4 *5}
	Classical ^{*6}
	Unplugged ^{*6}
	Ent.Show ^{*6}
	Drama ^{*6}
	Ext.Stereo ^{*7}
	Ext.Mono ^{*7}
	F.S.Surround ^{*4}

^{*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 input format is monaural.

^{*4} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*5} Cannot be selected when height speakers are installed.

^{*6} Surround speakers or height speakers need to be installed.

^{*7} 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 ^{*3}
	DTS Virtual:X ^{*4 *5}
	Classical ^{*6}
	Unplugged ^{*6}
	Ent.Show ^{*6}
	Drama ^{*6}
	Ext.Stereo ^{*7}
	Ext.Mono ^{*7}
	F.S.Surround ^{*4}

^{*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 input format is monaural.

^{*4} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*5} Cannot be selected when height speakers are installed.

^{*6} Surround speakers or height speakers need to be installed.

^{*7} A center speaker, surround speakers, or height speakers need to be installed.

❑ **Speaker Layouts and
Selectable Listening Modes**
(→p52)

Input Format	Listening Mode
DTS-HD HR	Stereo
	DTS-HD HR ^{*1 *2}
	DTS Neural:X ^{*3}
	DTS Virtual:X ^{*4 *5}
	Classical ^{*6}
	Unplugged ^{*6}
	Ent.Show ^{*6}
	Drama ^{*6}
	Ext.Stereo ^{*7}
	Ext.Mono ^{*7}
	F.S.Surround ^{*4}

^{*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 input format is monaural.

^{*4} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*5} Cannot be selected when height speakers are installed.

^{*6} Surround speakers or height speakers need to be installed.

^{*7} 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}
	DTS Virtual:X ^{*4 *5}
	Classical ^{*6}
	Unplugged ^{*6}
	Ent.Show ^{*6}
	Drama ^{*6}
	Ext.Stereo ^{*7}
	Ext.Mono ^{*7}
	F.S.Surround ^{*4}

^{*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 input format is monaural.

^{*4} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*5} Cannot be selected when height speakers are installed.

^{*6} Surround speakers or height speakers need to be installed.

^{*7} A center speaker, surround speakers, or height speakers need to be installed.

Input Format	Listening Mode
DTS-ES	Stereo
	DTS
	DTS Neural:X
	DTS Virtual:X ^{*1 *2}
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
	F.S.Surround ^{*1}

^{*1} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*2} Cannot be selected when height speakers are installed.

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

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

❑ **Speaker Layouts and Selectable Listening Modes**
(→ [p52](#))

Input Format	Listening Mode
DTS:X	Stereo
	DTS:X
	DTS Virtual:X ^{*1 *2}
	Classical ^{*3}
	Unplugged ^{*3}
	Ent.Show ^{*3}
	Drama ^{*3}
	Ext.Stereo ^{*4}
	Ext.Mono ^{*4}
	F.S.Surround ^{*1}

^{*1} Cannot be selected if "Speaker Virtualizer" is set to "Off".

^{*2} Cannot be selected when height speakers are installed.

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

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

❑ **Speaker Layouts and
Selectable Listening Modes**
(→ [p52](#))



Setup Menu

Menu list

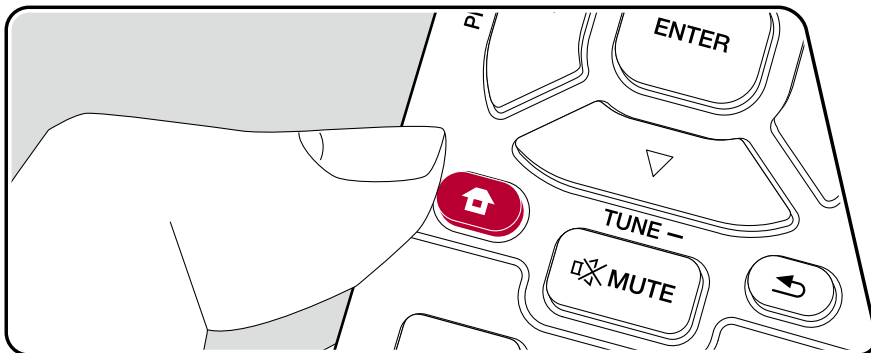
You can configure advanced settings to have a more enjoyable experience with this unit. For operation details, refer to "Menu operations" (→[p66](#)).

1. Input/Output Assign	1. TV Out / OSD	Make settings for TV output and On-Screen Displays (OSD) that appear on the TV.	p67
	2. HDMI Input	Change input assignment between the input selectors and HDMI IN jacks.	p67
	3. Digital Audio Input	Change input assignment between the input selectors and DIGITAL IN COAXIAL/OPTICAL jacks.	p68
	4. Analog Audio Input	Change input assignment between the input selectors and AUDIO IN jacks.	p68
	5. 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.	p69
	6. PERSONAL PRESET Information	Confirm the registered contents of PERSONAL PRESET.	p69
2. Speaker	1. Configuration	Change the settings of connection environment of the speakers.	p70
	2. Crossover	Change the settings of crossover frequencies.	p70
	3. Distance	Set the distance from each speaker to the listening position.	p71
	4. Channel Level	Adjust the volume level of each speaker.	p72
	5. Dolby Enabled Speaker	Change the settings of Dolby Enabled Speakers.	p72
	6. Speaker Virtualizer	The Speaker Virtualizer function can be switched between On and Off.	p72
3. MCACC	1. Full Auto MCACC	Measure the test tone of each speaker and automatically set the optimal volume level and crossover frequency.	p73
	2. MCACC Data Check	Confirm the number of channels of the connected speakers and the contents and values of setting items of each speaker.	p73
4. Audio Adjust	1. Dual Mono / Mono	Change the settings of multiplex audio playback.	p74
	2. Dolby	Change the setting of when Dolby signals are input.	p74
	3. DTS	Change the setting of when DTS signals are input.	p74
	4. Volume	Change the Volume settings.	p74

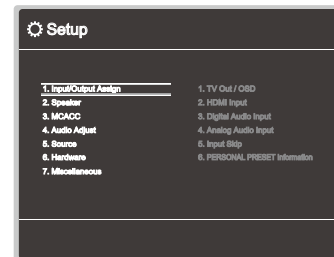


5. Source	1. Input Volume Absorber	Adjust the volume level when there are differences in volume level among multiple devices connected to this unit.	p75
	2. Name Edit	Set an easy name for each input.	p75
	3. Audio Select	Select the priority for input selection when multiple audio sources are connected to one input selector.	p76
6. Hardware	1. HDMI	Change the settings for the HDMI functions.	p77
	2. Bluetooth	Change the settings for the Bluetooth function.	p78
	3. Power Management	Change the settings for the power-save function.	p79
7. Miscellaneous	1. Tuner	Change the frequency step for the tuner.	p80
	2. Firmware Update	Change the settings for Firmware Update.	p80
	3. Initial Setup	Make the initial setup from the setup menu.	p80
	4. Lock	Lock the Setup menu so that the settings cannot be changed.	p80

Menu operations



Use the on-screen displays (OSD) that appear on the TV to make the settings. Press  on the remote controller to display the Setup menu.



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 .

1. Input/Output Assign

■ 1. TV Out / OSD

Make settings for TV output and On-Screen Displays (OSD) that appear on the TV.

Setting Item	Default Value	Setting Details
1080p -> 4K Upscaling	Auto	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 • Select "Off" if your TV does not support 4K.
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).
OSD Language	English	Select the on-screen display language from the following. (North American models) English, German, French, Spanish, Italian, Dutch, Swedish (European, Australian, Asian and Taiwanese models) English, German, French, Spanish, Italian, Dutch, Swedish, Russian, Chinese
Impose OSD	On	Set whether or not to display information such as volume adjustment or switching of input on the TV screen. "On": OSD is displayed on the TV. "Off": OSD is not displayed on the TV. • OSD may not be displayed depending on the input signal even if "On" is selected. In this case, 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".

■ 2. HDMI Input

Change input assignment between the input selectors and HDMI IN jacks.

Setting Item	Default Value	Setting Details
BD/DVD	HDMI 1	"HDMI 1" to "HDMI 4": 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.
GAME	HDMI 2	"HDMI 1" to "HDMI 4": 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.
CBL/SAT	HDMI 3	"HDMI 1" to "HDMI 4": 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.
STRM BOX	HDMI 4	"HDMI 1" to "HDMI 4": 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.

■ 3. Digital Audio Input

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

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

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

■ 4. Analog Audio Input

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" to "AUDIO 3": Assign a desired AUDIO IN jack to the BD/DVD input selector.
GAME	---	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the GAME input selector.
CBL/SAT	AUDIO 3	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the CBL/SAT input selector.
STRM BOX	---	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the STRM BOX input selector.
AUX	---	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the AUX button.
CD	AUDIO 1	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the CD input selector.
TV	AUDIO 2	"AUDIO 1" to "AUDIO 3": Assign a desired AUDIO IN jack to the TV input selector.

■ 5. Input Skip

You can skip inputs to which nothing is connected when selecting them with the INPUT SELECTOR dial on the main unit.

Setting Item	Default Value	Setting Details
BD/DVD	Use	Set whether to skip the BD/DVD input selector. Select "Skip" to skip this input.
GAME	Use	Set whether to skip the GAME 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.
STRM BOX	Use	Set whether to skip the STRM BOX 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.
TUNER	Use	Set whether to skip the TUNER input selector. Select "Skip" to skip this input.
BLUETOOTH	Use	Set whether to skip the BLUETOOTH input selector. Select "Skip" to skip this input.

■ 6. PERSONAL PRESET Information

Confirm the registered contents of 1 to 3 buttons of PERSONAL PRESET. The registered settings are displayed in the list.

Setting Item	Default Value	Setting Details
Preset	Preset 1	Selects a preset number from among "Preset 1", "Preset 2" and "Preset 3".
Input Selector	---	Displays the input selector that has been set.
Band	---	Displays the band, "AM" or "FM" that has been set.
Station	---	Displays the Preset Name of the radio station that has been set.
Listening Mode	---	Displays the listening mode that has been set.
Volume	---	Displays the volume level that has been set. (Upper limit "-32 dB")
Zone	---	Displays the output destination (Zone) from among "A", "B" or "A+B" that has been set.

- "Band" and "Station" are displayed only when the input selector is set to "TUNER".
- Preset Name of "Station" is displayed with the name set by "5. Source" - "Name Edit". If the name is not set, the frequency of the radio station is displayed instead.

2. Speaker

■ 1. Configuration

Change the settings of connection environment of the speakers.

Setting Item	Default Value	Setting Details
Speaker Channels	5.1 ch	Select "2.1 ch", "3.1 ch", "4.1 ch", "5.1 ch", "2.1.2 ch" or "3.1.2 ch" to suit the number of speaker channels connected.
Subwoofer	Yes	Set whether a subwoofer is connected or not. "Yes": When a subwoofer is connected "No": When a subwoofer is not connected
Height Speaker	Top Middle	Set the speaker type if height speakers are connected to the SURROUND or HEIGHT terminals. Select "Top Middle", "Dolby Speaker (Front)" or "Front High" according to the type and layout of the connected speakers. • If the item cannot be selected even though connection is correct, check if the setting in "Speaker Channels" matches the number of connected channels.
Speaker Impedance	6 ohms or above	Set the impedance (Ω) of the connected speakers. "4 ohms": When any of the connected speakers have 4 Ω or more to less than 6 Ω impedance "6 ohms or above": When the connected speakers all have 6 Ω or more impedance • For impedance, check the indications on the back of the speakers or their instruction manual.

■ 2. Crossover

Change the settings of crossover frequencies.

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 • 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.
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 • 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 • 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	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 - 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.
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	On	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 The setting will not automatically be configured even if you performed Full Auto MCACC.

■ 3. Distance

Set the distance from each speaker to the listening position.

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

- Default values vary depending on the regions.
- The unit of distance can be changed by pressing the MODE button on the remote controller. When using the unit "feet", the setting is available in increments of 0.1 ft from 0.1 ft to 30.0 ft. When using the unit "meter", the setting is available in increments of 0.03 m from 0.03 m to 9.00 m.

■ 4. Channel Level

Adjust the volume level of each speaker.

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.
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.
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.
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.

■ 5. Dolby Enabled Speaker

Change the settings of Dolby Enabled Speakers.

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" and "15.0 ft/4.50 m" (0.1 ft/0.03 m units). • The unit of distance (ft/m) is displayed using the unit selected for the "Distance" setting.
Reflex Optimizer	Off	You can enhance the reflection effect of Dolby Enabled Speakers from the ceiling. "Off": When this function is not used "On": When this function is used • 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".

■ 6. Speaker Virtualizer

The Speaker Virtualizer function can be switched between On and Off.

Setting Item	Default Value	Setting Details
Speaker Virtualizer	On	When this is set to "On", a virtual speaker can be set. "On": When this function is used "Off": When this function is not used • When this is set to "Off", some of the listening modes cannot be selected. (→ p54)

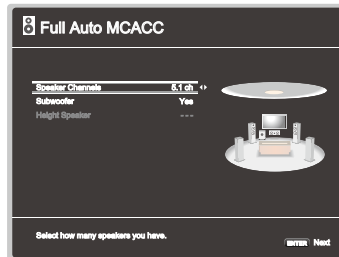
3. MCACC

■ 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. This also automatically adjusts the equalizers for the speakers and enables correction of distortion caused by the acoustic environment of the room.

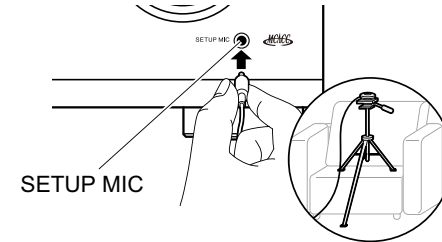
- Calibration takes between 3 and 12 minutes to be completed. The speakers emit the test tone at high volume during measurement, so be careful of your surroundings. Keep the room as quiet as possible during measurement.
- If you have connected a subwoofer, check the power and volume of the subwoofer. 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 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. 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.

2. Place the supplied speaker setup microphone in the listening position, and connect to the 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.

3. Confirm a test tone is output from the subwoofer and press ENTER.
4. Test tones are emitted by the speakers, and firstly the unit detects the speakers connected and the noise in the environment.
5. After the results of the 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.
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.

■ 2. 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.

4. Audio Adjust

■ 1. Dual Mono / Mono

Change the settings of multiplex audio playback.

Setting Item	Default Value	Setting Details
Dual Mono	Main	Set the audio channel or language to be output when playing multiplex audio or multilingual broadcasts, etc. "Main": Main channel only "Sub": Sub channel only "Main/Sub": Main and sub channels are output at the same time. • For multiplex audio broadcasts, pressing the i button on the remote controller will display "1+1" on the main unit's display.
Mono Input Channel	Left + Right	Set the input channel to play 2-ch digital sources such as Dolby Digital, or 2-ch analog/PCM sources in the Mono listening mode. "Left": Left channel only "Right": Right channel only "Left + Right": Left and right channels

■ 2. Dolby

Change the setting of when Dolby signals are input.

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 Midnight 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 used "Off": When this function is not used

■ 3. DTS

Change the setting of when DTS signals are input.

Setting Item	Default Value	Setting Details
Dialog Control	0 dB	You can increase the volume of dialog portion of the audio up to 6 dB by 1 dB step so that you can hear the dialog easily in noisy atmosphere. • This cannot be set for content other than DTS:X. • Depending on the content, this function may not be selected.

■ 4. Volume

Change the Volume settings.

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", "-40 dB" and "-20 dB".
Volume Limit	Off	Set the maximum value to prevent the volume from becoming too loud. Select a value from "Off", "-32 dB" to "+17 dB".
Power On Volume	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 headphones. Select a value between "-12.0 dB" and "+12.0 dB".



5. Source

■ 1. Input Volume Absorber

Adjust the volume level when there are differences in volume level among multiple devices connected to this unit. Select the input selector to make the setting.

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, play back the connected device. • This function does not work in Zone B.

■ 2. Name Edit

Set an easy name for each input. The set name appears on the main unit's display. Select the input selector to make the setting.

Setting Item	Default Value	Setting Details
Name Edit	Input name	1. Select a character or symbol with the cursors, and press ENTER. Repeat this operation to input up to 10 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 in the arrow direction. "⌫": Removes a character on the left of the cursor. "Space": Enters a space. • Pressing CLEAR on the remote controller will remove all the input characters. 2. After inputting, select "OK" with the cursors, and press ENTER. The input name will be saved. To restore the name to the default value, press CLEAR on the remote controller on the input screen. Then while nothing is entered, select "OK", and press ENTER.

- 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 "BLUETOOTH" input is selected.



■ 3. Audio Select

Select the priority for input selection when multiple audio sources are connected to one input selector, for example, 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 make the setting. Note that some of the default values cannot be changed.

Setting Item	Default Value	Setting Details
Audio Select	BD/DVD: HDMI GAME: HDMI CBL/SAT: HDMI STRM BOX: HDMI AUX: --- CD: COAXIAL TV: OPTICAL	"ARC": When giving priority to the input signal from ARC-compatible TV. - This item can be selected only when "6. Hardware" - "HDMI" - "Audio Return Channel" is set to "On" and also the "TV" input is selected. "HDMI": When giving priority to the input signal from HDMI IN jacks - This item can be selected only when the input to be set is assigned to the HDMI jack in the "1. Input/Output Assign" - "HDMI Input" setting. "COAXIAL": When giving priority to the input signal from DIGITAL IN COAXIAL jacks - This item can be selected only when the input to be set is assigned to the COAXIAL jack in the "1. Input/Output Assign" - "Digital Audio Input" setting. "OPTICAL": When giving priority to the input signal from DIGITAL IN OPTICAL jacks - This item can be selected only when the input to be set is assigned to the OPTICAL jack in the "1. Input/Output Assign" - "Digital Audio Input" setting. "Analog": When giving priority to the input signal from AUDIO IN jacks - This item can be selected only when the input to be set is assigned to the AUDIO IN jack in the "1. 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 select "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. Each time the "Audio Select" setting is changed, the setting is restored to "Off".

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



6. Hardware

■ 1. HDMI

Change the settings of the HDMI function.

Setting Item	Default Value	Setting Details
HDMI CEC	Off	Setting this to "On" enables the input selection link and other link functions with HDMI-connected CEC-compatible device. "On": When this function is used "Off": When this function is not used When this setting is changed, turn off and then on again the power of all connected devices. - Depending on the TV to use, a link setting may be required on the TV. - Setting this to "On" and closing the operation screen will display the name of the connected CEC-compatible device and "CEC On" on the main unit's display. - When this is set to "On", the power consumption in standby mode may increase. (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 this unit. To output audio from only either of them, change the setting of this unit or TV, or reduce the volume of this unit. - If abnormal behavior is observed when this is set to "On", set it to "Off". - If a connected device is not CEC-compatible, or if you are not sure whether it is compatible, set it to "Off".

Setting Item	Default Value	Setting Details
HDMI Standby Through	Off	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. Also, 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". - The power consumption in standby mode will increase if it is set to anything other than "Off". "BD/DVD", "GAME", "CBL/SAT", "STRM BOX": For example, if you select "BD/DVD", you can play the device 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. "Last": You can play on the TV the video and audio of the input selected immediately before the unit is switched to standby. "Auto", "Auto (Eco)": Select either of the settings if the connected player conforms to the CEC standard. You can play the video and audio of the player on the TV using the CEC link function, irrespective of what input is selected immediately before the unit is switched to standby. - To play a non-CEC compliant player on the TV, turn the unit on and switch the input. - When using a CEC-compliant TV, you can reduce the power consumption in standby mode by selecting "Auto (Eco)".



Setting Item	Default Value	Setting Details
Audio TV Out	Off	You can enjoy audio through the speakers of the TV while this unit is on. "On": When this function is used "Off": When this function is not used • Listening mode cannot be changed while "Audio TV Out" is set to "On" and audio is being output from the TV. • Depending on your TV or input signal of the connected device, audio may not be output from the TV even if this is set to "On". In such a case, audio is output from the speakers of the unit. • Audio is output from this unit if you operate the MASTER VOLUME dial on this unit when audio that is input to this unit is output from your TV speakers. If you do not want to output audio, change the setting of this unit or TV, or reduce the volume of this unit.
Audio Return Channel	Off	You can enjoy the sound of the HDMI-connected ARC-compatible TV through the speakers connected to the unit. "On": When enjoying the TV sound through the speakers of this unit "Off": When not using the ARC function
Auto Delay	On	This setting automatically corrects desynchronization between the video and audio signals based on the information from the HDMI Lip Sync-compatible TV. "On": When enabling the automatic correction function "Off": When not using the automatic correction function

■ 2. Bluetooth

Change the settings for the Bluetooth function.

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	When a BLUETOOTH-enabled device is played while it is connected to the unit, the input of the unit can be automatically switched to "BLUETOOTH". "On": The input is automatically set to "BLUETOOTH" responding to the playback operation of the BLUETOOTH-enabled device. "Off": The function is disabled. • 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 • 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. 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. 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.

■ 3. Power Management

Change the settings for the power-save function.

Setting Item	Default Value	Setting Details
Sleep Timer	Off	You can allow the unit to enter standby automatically when the specified time elapses. Select a value from "30 minutes", "60 minutes" and "90 minutes". "Off": The unit does not automatically enter standby mode.
Auto Standby	On/Off	This setting allows the unit to enter standby mode automatically after 20 minutes of inactivity without any video or audio input. (When "USB Power Out at Standby" is enabled, the unit enters the HYBRID STANDBY mode which minimizes the increase in power consumption.) "On": The unit automatically enters standby mode ("AUTO STBY" lights up). "Off": The unit does not automatically enter standby mode. "Auto Standby" is displayed on the main unit's display and TV screen 30 seconds before entering standby mode. - 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 is enabled. "Off": The setting is disabled. This setting cannot be set to "On" if "Auto Standby" and "HDMI Standby Through" are set to "Off".
USB Power Out at Standby	Off	When this function is set to "On", electricity can be supplied to the device connected to the POWER OUT port even if this unit is in standby mode. While using this function, power consumption increases in standby mode, however, the increase in power consumption is minimized by automatically entering the HYBRID STANDBY mode where only the essential circuits are operating.



7. Miscellaneous

■ 1. Tuner

Change the frequency step for the tuner.

Setting Item	Default Value	Setting Details
AM/FM Frequency Step (North American and Taiwanese models)	10 kHz/0.2 MHz	Select a frequency step to suit your residential area. Select "10 kHz/0.2 MHz" or "9 kHz/0.05 MHz". • When this setting is changed, all radio presets are deleted.
AM Frequency Step (European, Australian and Asian models)	9 kHz	Select a frequency step to suit your residential area. Select "10 kHz" or "9 kHz". • When this setting is changed, all radio presets are deleted.

■ 2. Firmware Update

Change the settings for Firmware Update.

Setting Item	Default Value	Setting Details
Version	-	The current firmware version is displayed.
Update via USB	-	Press ENTER to select when updating the firmware via USB.

■ 3. Initial Setup

Make the initial setup from the setup menu.

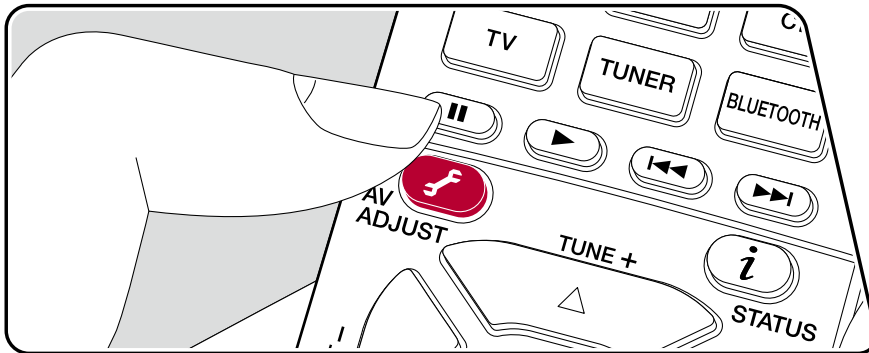
■ 4. Lock

Lock the Setup menu so that the settings cannot be changed.

Setting Item	Default Value	Setting Details
Setup Parameter	Unlocked	Lock the Setup menu so that the settings cannot be changed. "Locked": The menu is locked. "Unlocked": The menu is unlocked.

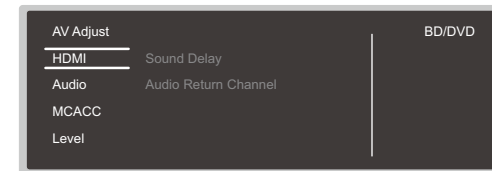
AV Adjust

Menu operations



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

You can make the settings on the TV screen while playing something. Press  on the remote controller to display the AV Adjust menu.



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 .

■ HDMI

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.

Audio Return Channel: You can enjoy the sound of the HDMI-connected ARC-compatible TV through the speakers connected to the unit. Select "On" when listening to the audio of TV using the speakers of this unit. Select "Off" when the ARC function is not used.

■ Audio

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.

Midnight: 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
- If you set the unit to the standby mode, the adjustments you made will be restored to the previous statuses.

■ MCACC

MCACC EQ: Enable or disable the equalizer function that corrects for distortion caused by the acoustic environment of the room.

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

Phase Control: Correct phase disturbance in the low range to enhance the bass. This enables you to achieve 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.

■ Level

Front: Adjust the speaker level of the front speaker while listening to the sound.

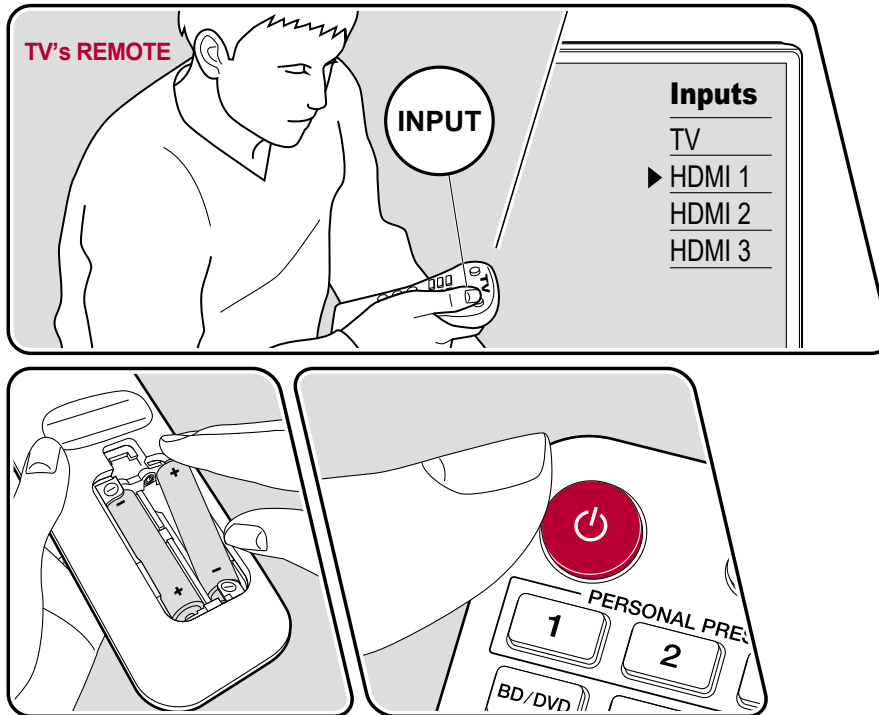
Center: Adjust the speaker level of the center speaker while listening to the sound.

Subwoofer: Adjust the speaker level of the subwoofer while listening to the sound.

- If you set the unit to the standby mode, the adjustments you made will be restored to the previous statuses.

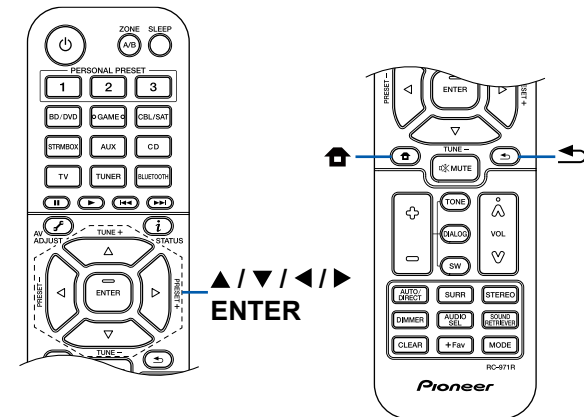
Initial Setup with Auto Start-up Wizard

Operations



When you turn the unit on for the first time after purchase, the Initial Setup screen is automatically displayed on the TV to allow you to make settings required for startup using simple operations following on-screen guidance.

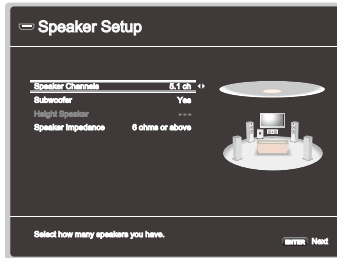
1. Switch the input of the TV to the input connected to the unit.
2. Put batteries into the remote controller of this unit.
3. Press **⏻** on the remote controller to turn the unit on.
4. When the language selection screen is displayed on TV, select the language with the cursors **▲** / **▼** and press **ENTER**.
 - Select the item with the cursors of the remote controller, and press **ENTER** to confirm your selection. To return to the previous screen, press **⏮**.
 - If you have terminated the Initial Setup halfway, turn this unit to standby mode. Then turning the power on again can display the Initial Setup again. The Initial Setup appears on the screen each time the power is turned on unless the Initial Set up is completed or "Never Show Again" is selected on the first screen.



- To perform the Initial Setup again after the setting is completed, press , select "7. Miscellaneous" - "Initial Setup", and press ENTER.

■ 1. Speaker Setup

1. Select the connected speaker configuration, and press ENTER.
Note that the image on the screen changes each time you select the number of channels in "Speaker Channels".



2. The speaker combination selected in step 1 is displayed. "Yes" is displayed for the selected speakers. If the setting is correct, press ENTER.
3. Select "Next" and press ENTER. Then a test tone is output from each speaker to confirm the connection. Selecting each speaker with the cursors ▲ / ▼ will output the test tone. Press ENTER after confirmation.
4. If there is no problem with the speaker connection, select "Next" and press ENTER. To return to "Speaker Setup", select "Back to Speaker Setup" and press ENTER.

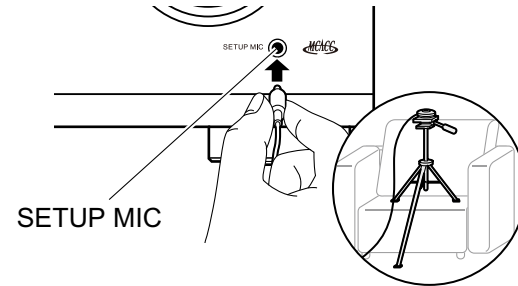
■ 2. Full Auto MCACC

Place the supplied speaker setup microphone at the listening position. The unit automatically measures the test tones output from each speaker, and sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. This also automatically adjusts the equalizers for the speakers, and enables correction of sound distortion caused by the acoustic environment of the room.

- It takes between 3 and 12 minutes for calibration to be completed. Each speaker outputs the test tone at high volume during measurement, so be careful of your surroundings. Also, keep the room as quiet as possible during measurement.

- If you connect a subwoofer, check the power and volume of the subwoofer. Set the subwoofer volume to more than half.
- If the power of this unit suddenly turns off, the wires in the speaker cables have touched the rear panel or other wires, and the protection circuit is working. Twist the wires again securely, and make sure they do not stick out of the speaker terminals when connecting.

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



When placing the speaker setup microphone on a tripod, refer to the illustration.

2. Confirm a test tone is output from the subwoofer and press ENTER.
3. Press ENTER. Then, test tones are output from each speaker, and the connected speakers and the noise in the surrounding environment are automatically measured.
4. The measurement results in step 3 are displayed. Select "Next", and press ENTER. The test tones are output again. Then, the unit automatically sets the optimum volume level, crossover frequency, etc.
5. When the measurement is completed, the measurement results are displayed. You can check each setting using the cursors ◀ / ▶. Select "Save" and press ENTER to save the settings.
6. Disconnect the speaker setup microphone.

■ 3. ARC Setup

To connect with an ARC-compatible TV, select "Yes". The ARC setting on this unit 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.

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.

- The AV receiver 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 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.

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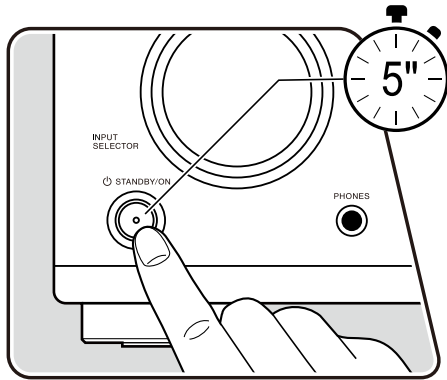
■ Display 93

■ Others 93

When the unit is operating erratically

❑ Try restarting the unit

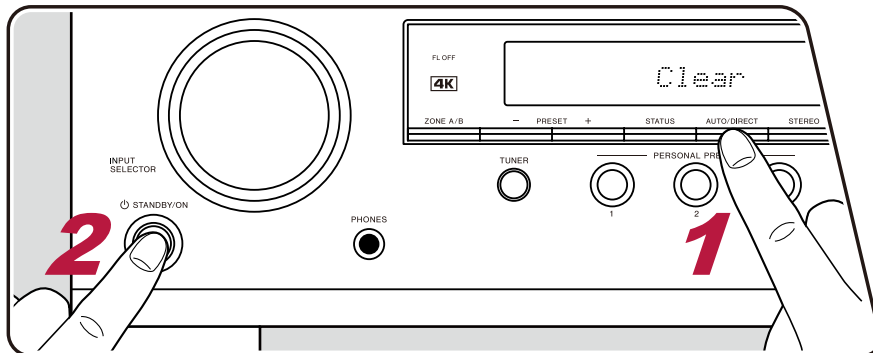
Restarting this unit may solve the problem. After turning the unit to standby mode, press and hold the  STANDBY/ON button of the main unit for at least 5 seconds, and then restart the unit. (The settings on this unit are kept.) If the problem persists after restarting the unit, unplug and plug the power cords or HDMI cable of this unit and connected devices.



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

If the restart of the unit does not solve the problem, reset the unit, and restore all the settings to the factory default at the time of purchase. This may solve the problem. If the unit is reset, your settings are restored to the default values. Be sure to note down your setting contents before performing the following operations.

1. While pressing and holding AUTO/DIRECT of the input selector on the main unit with the unit turned on, press the  STANDBY/ON button.
2. "Clear" is displayed on the display, and the unit returns to the standby state. Do not remove the power cord until "Clear" disappears from the display.



Troubleshooting

■ Power

❑ When the power is turned on, "AMP Diag Mode" appears on the display of the main unit.

- The protection circuit function may have operated. If the unit suddenly enters the standby state and "AMP Diag Mode" appears on the display of the main unit when the power is turned on again, this function is diagnosing whether or not the main unit is malfunctioning or there is an abnormality with the speaker cable connection. When the diagnosis is complete, the following messages are displayed.

CH SP WIRE	If the unit returns to the normal ON state after "CH SP WIRE" appears on the display, the speaker cable may have been short-circuited. After setting the power of this unit to standby state, connect the speaker cable again. Twist the wires exposed from the tip of the speaker cable so that the wires do not stick out of the speaker terminal.
NG: *****	If the operation has stopped with "NG" displayed on the display, set the power of this unit to standby state immediately and remove the power plug from the outlet. The unit may be malfunctioning. Consult a dealer.

❑ The unit turns off unexpectedly

- If "6. Hardware" - "Power Management" - "Auto Standby" on the Setup menu is activated, the unit automatically enters the standby mode. (→p79)
- The protection circuit function may have operated due to an abnormal rise in temperature of the unit. In such a case, the power turns off repeatedly even if the power is turned on each time. Secure sufficient ventilation space around the unit, wait for a while until the temperature of the unit decreases. Then, turn the power on again.

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

■ Audio

- Make sure that the speaker setup microphone is no longer connected.
- Confirm that the connection between the output jack on the connected 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 blinks, press  on the remote controller to cancel muting.
- While headphones are connected to the PHONES jack, no sound is output from the speakers.
- When "5. Source" - "Audio Select" - "Fixed PCM" in the Setup menu is set to "On", no sound is played if signals other than PCM are input.

Change the setting to Off.

Check the following if the problem persists after you have confirmed the above.

❑ No sound from the TV

- Change the input selector on this unit to the position of the terminal to which the TV is connected.
- If the TV does not support the ARC function, along with the connection by an HDMI cable, connect the TV with this unit using a digital optical cable or analog audio cable. (→p28)

❑ 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 device. On some game consoles, such as those supporting DVD, the default setting may be off.
- For 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. (→p21)
- Make sure that the speaker cables are not shorting out.
- Check "Connect the Speaker Cables" (→p21) to see if the speaker connections have been made correctly. Settings for the speaker connection environment need to be made in "Speaker Setup" in Initial Setup. Check "Initial Setup with Auto Start-up Wizard" (→p83).
- Depending on the input signal and listening mode, not much sound may be output from speakers. Select another listening mode to see if sound is output.

❑ The subwoofer produces no sound

If the setting of the front speakers is "Large", the low range elements will be output from the front speakers instead of from the subwoofer during 2 ch audio input of TV or music. To output the sound 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 of the front speakers will be output from both the front speakers and the subwoofer. Due to this, the bass sound may be emphasized too much. In such a case, do not change the setting, or make the setting with the above option 1.
- For the setting details, refer to "2. Speaker" - "Crossover" in the Setup menu. (→p70)
 - If the input signals do not contain subwoofer audio elements (LFE), the subwoofer may produce no sound.

❑ Noise can be heard

- Using cable ties to bundle audio pin cables, power cords, speaker cables, etc. may degrade the audio performance. Do not bundle the cords.
- An audio cable may be picking up interference. Change the position of the 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 using the unit for extended periods with the temperature inside the unit exceeding a certain temperature, the volume may be reduced automatically to protect the circuits.

■ Listening Modes

- To enjoy digital surround playback in formats such as Dolby Digital, you need to make a connection for audio signals with an HDMI cable, digital coaxial cable or digital optical cable. Also, audio output need to be set to Bitstream output on the connected Blu-ray Disc player, etc.
- Press **i** on the remote controller several times to switch the display of the main unit, and you can check the input format.

Check the following if the problem persists after you have confirmed the above.

❑ Cannot select a desired listening mode

- Depending on the connection status of the speaker, some listening modes may not be selected. Refer to "Speaker Layouts and Selectable Listening Modes" (→[p52](#)) or "Input Formats and Selectable Listening Modes" (→[p58](#)) in "Listening Mode".

❑ Cannot listen to the sound in Dolby TrueHD, Dolby Atmos or DTS-HD Master Audio format

- If the audio in Dolby TrueHD, Dolby Atmos or DTS-HD Master Audio format cannot be output correctly in the source format, set "BD video supplementary sound" (or reencode, secondary sound, video additional audio, etc.) to "Off" in the setting of a connected Blu-ray Disc player, etc. After changing the setting, switch the listening mode to that for each source, and confirm.

❑ About DTS signals

- With media that switches suddenly from DTS to PCM, PCM playback may not start immediately. In such a case, stop playback on the player side for approx. 3 seconds or more. Then, resume playback. The playback will be performed normally.
- DTS playback may not be performed normally on some CD and LD players even if the player and this unit are digitally connected. If some processing (e.g., output level adjustment, sampling frequency conversion, or frequency characteristic conversion) has been executed for the DTS signal being output, this unit cannot recognize it as a genuine DTS signal, and noise may occur.
- While playing a DTS-compatible disc, if a pause or skip operation is performed on your player, noise may occur for a short period. This is not a malfunction.



■ Video

- Confirm that the connection between the output jack on the connected 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, the power cord or connection cables of the unit may have interfered. In such a case, keep distance between TV antenna cable and cables of the unit.
- Check the switching of the input screen on the monitor side such as a TV.

Check the following if the problem persists after you have confirmed the above.

❑ No image appears

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

❑ No image from a device connected to HDMI IN jack

- To display video from the connected player on the TV while the unit is in standby, you need to enable "6. Hardware" - "HDMI" - "HDMI Standby Through" in the Setup menu. For details of the HDMI Standby Through function, refer to "6. Hardware" - "HDMI" in the Setup menu. (→p77)
- 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.
- Normal operation with an HDMI-DVI adapter is not guaranteed. In addition, video signals output from a PC are not guaranteed.

❑ Images flicker

- The output resolution of the player may not be compatible with the resolution of the TV. If the player is connected to this unit with an HDMI cable, change the output resolution on the player. Also this may be solved by changing the screen mode on the TV.

❑ Video and audio are out of synch

- Depending on the settings on your TV and connection environment, the video may be behind the audio. 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 "HDMI" - "Sound Delay" in the "AV Adjust". (→p81)

■ Linked operation

❑ HDMI linked operation does not work with CEC-compliant devices, such as a TV

- In the Setup menu of the unit, set "6. Hardware" - "HDMI" - "HDMI CEC" to "On". (→p77)
- 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 "6. Hardware" - "HDMI" - "HDMI Standby Through" to "Auto" in the Setup menu.

■ Tuner

❑ Poor reception or much noise

- Recheck the antenna connection.
- Move the antenna away from the speaker cord or power cord.
- Move the unit away from your TV or PC.
- Passing cars or airplanes in the vicinity can cause interference.
- If radio waves are blocked by concrete walls, etc., radio reception may be poor.
- Change the reception mode to mono (→p38).
- Operating the remote controller during AM reception may cause noise.
- FM reception may be clearer if you use the antenna jack on the wall used for the TV.

(→p32)

■ BLUETOOTH function

- Unplug and plug the power cord of the unit, or turn off and on the BLUETOOTH-enabled device. Restart of the BLUETOOTH-enabled device may be effective.
- BLUETOOTH-enabled devices must support the A2DP profile.
- Because a radio wave interference will occur, this unit may not be used near devices such as a microwave oven or cordless phone which use the radio wave in the 2.4 GHz range.
- A metallic object near the unit can affect on the radio wave, and BLUETOOTH connection may not be possible.

Check the following if the problem persists after you have confirmed the above.

❑ Cannot connect with this unit

- Check if the BLUETOOTH function of the BLUETOOTH-enabled device is enabled.

(→p78)

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

- When the audio volume of your BLUETOOTH-enabled device is set low, the audio may not be played back. Turn up the volume of the BLUETOOTH-enabled device.
- Depending on the BLUETOOTH-enabled device, the Send/Receive selector switch may be equipped. Select Send mode.
- Depending on the characteristics or specifications of the BLUETOOTH-enabled device, music may not be played back on this unit.

❑ Sound is interrupted

- There may a problem with the BLUETOOTH-enabled device. Check the information on a web page.

❑ The audio quality is poor after connection with a BLUETOOTH-enabled device

- The BLUETOOTH reception is poor. Move the BLUETOOTH-enabled device closer to the unit, or remove any obstacle between the BLUETOOTH-enabled device and this unit.

■ ZONE B function

❑ Cannot ZONE B-output the audio of externally connected AV components

- To output audio to ZONE B, set the audio output destination to "ZONE A+B" or "ZONE B".

(→p42)

■ Remote Controller

- Make sure that the batteries are inserted with the correct polarity.
- Insert new batteries. Do not mix different types of batteries, or old and new batteries.
- Make sure that the sensor of the main unit is not subjected to direct sunlight or inverter-type fluorescent lights. Relocate it if necessary.
- If the main unit is installed in a rack or cabinet with colored-glass doors, or if the doors are closed, the remote controller may not work normally.

■ Display

❑ The display does not light up

- When the Dimmer function is working, the display may go dim or turn off. Press the DIMMER button, and change the brightness level of the display.

(→p13)

■ Others

❑ Strange noise can be heard from the unit

- If you have connected another device to the same outlet as this unit, strange noise may occur under the influence of the device. If the symptom is remedied by removing the power plug of the other device from the outlet, use different outlets for this unit and the device.

❑ The message "Noise Error" appears during Full Auto MCACC

- This can be caused by a malfunction in your speaker unit. Check the speaker output, etc.

❑ The measurement results of Full Auto MCACC show different distances to the speakers from the actual ones

- Depending on the speakers you are using, some errors may occur in the measurement results. If this is the case, make the settings in "2. Speaker" - "Distance" in the Setup menu.

(→p71)

❑ Midnight function does not work

- Make sure the source material is Dolby Atmos, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution, DTS-HD Master Audio, or DTS:X.

About HDMI

Compatible functions

HDMI (High Definition Multimedia Interface) is a digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, digital tuners, and other video components. Several separate video and audio cables have been required to connect AV components so far. With HDMI, a single cable can transmit control signals, digital video and digital audio (2-channel PCM, multichannel digital audio, and multichannel PCM).

HDMI CEC function:

By connecting a device that complies with CEC (Consumer Electronics Control) of the HDMI standard using an HDMI cable, a variety of linked operations between devices are possible. This function enables various linking operations with players, such as switching input selectors interlocking with a player, adjusting the volume of this unit using the remote controller of a 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, however, linked operation is not always guaranteed with all CEC devices. For linked functions to work properly, do not connect CEC-compliant devices exceeding the connectable number to the HDMI jack as shown below.

- 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 January 2019)
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 connecting an ARC-compliant TV with a single HDMI cable, you can output the audio and video from this unit to the TV, and also input the audio from the TV to this unit.

HDMI Standby Through:

Even if this unit is in standby mode, the input signals from AV components can be

transmitted to the TV.

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.

Lip Sync:

This setting automatically corrects desynchronization between the video and audio signals based on the information from the HDMI Lip Sync-compatible TV.

Copyright Protection:

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



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, DTS 96/24, DTS-ES, DTS Express

DSD:

Supported sampling rates: 2.8 MHz

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

Supported resolutions

HDMI IN1 to IN4:

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

General Specifications

■ Amplifier Section

Rated Output Power (FTC) (North American)

With 8 ohm loads, both channels driven, from 20-20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Rated Output Power (IEC) (European, Australian and Asian)

5 ch × 135 W at 6 ohms, 1 kHz, 1 ch driven of 1% THD

Maximum Effective Output Power (North American)

150 W at 6 ohms, 1 kHz, 1 ch driven of 10% THD

Maximum Effective Output Power (IEC)

5 ch × 150 W at 6 ohms, 1 kHz, 1 ch driven of 10% THD (European)

Maximum Effective Output Power (JEITA)

5 ch × 150 W at 6 ohms, 1 kHz, 1 ch driven of 10% THD (Australian, Asian and Taiwanese)

Dynamic Power (*)

* IEC60268-Short-term maximum output power

160 W (3 Ω, Front)

125 W (4 Ω, Front)

85 W (8 Ω, Front)

THD+N (Total Harmonic Distortion+Noise)

0.08% (20 Hz - 20,000 Hz, half power)

Input Sensitivity and Impedance

200 mV/47 kΩ (LINE (RCA))

Rated RCA Output Level and Impedance

1 V/470 Ω (SUBWOOFER PRE OUT)

1 V/2.3 kΩ (ZONE B LINE OUT)

Frequency Response

10 Hz - 100 kHz/+1 dB, -3 dB (Pure Direct)

Tone Control Characteristics

±10 dB, 90 Hz (BASS)

±10 dB, 7.5 kHz (TREBLE)

Signal to Noise Ratio

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

Speaker Impedance

4 Ω - 16 Ω

Headphone Rated Output

80 mW + 80 mW (32 Ω, 1 kHz, 10% THD)

Supported impedance of Headphones

8 Ω - 600 Ω

Headphones Frequency Response

10 Hz - 100 kHz

■ Tuner Section

FM Tuning Frequency Range

87.5 MHz - 107.9 MHz (North American and Taiwanese)

87.5 MHz - 108.0 MHz, RDS (Others)

50 dB quieting sensitivity (FM MONO)

1.0 μV, 11.2 dBf (IHF, 1 kHz, 100% MOD)

AM Tuning Frequency Range

530 kHz - 1710 kHz (North American and Taiwanese)

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

Preset Channel

40

■ BLUETOOTH Section

Communication system

BLUETOOTH Specification version 4.2

Frequency band

2.4 GHz band

Modulation method

FHSS (Freq Hopping Spread Spectrum)

Compatible BLUETOOTH profiles

A2DP 1.3

AVRCP 1.5

HFP (Hands-Free Profile) 1.6

HSP (Headset Profile) 1.2

SPP (Serial Port Profile) 1.2

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.

■ General

Power Supply

AC 120 V, 60 Hz (North American and Taiwanese)

AC 220 - 240 V, 50/60 Hz (Others)

Power Consumption

445 W (North American and Taiwanese)

465 W (Others)

0.1 W (Full Standby mode) (North American and Taiwanese)

0.2 W (Full Standby mode) (Others)

0.1 W (HDMI CEC) (North American and Taiwanese)

0.2 W (HDMI CEC) (Others)

38.6 W (No-sound) (North American and Taiwanese)

34.2 W (No-sound) (Others)

25.7 W (HDMI Standby Through) (North American and Taiwanese)

24.4 W (HDMI Standby Through) (Others)

Dimensions (W × H × D)

435 mm × 148 mm × 321 mm

17-1/8" × 5-13/16" × 12-5/8"

Weight

8 kg (17.6 lbs.)

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

2402 MHz - 2480 MHz (4 dBm (e.i.r.p))

■ HDMI

Input

IN1 (BD/DVD), IN2 (GAME), IN3 (CBL/SAT), IN4 (STRM BOX)

Output

OUT

Supported

Audio Return Channel, 3D, 4K 60 Hz, 6G, HDR10, BT.2020, HLG, Dolby Vision, Auto Delay, CEC

Audio Format

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

HDCP version

2.2

Maximum Video Resolution

4K 60 Hz (YCbCr 4:4:4)

■ Supported input resolutions

HDMI input

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

- 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 (TV)

COAXIAL (CD)

Analog

CD, TV, CBL/SAT

■ Audio Outputs

Analog

ZONE B LINE OUT

2 SUBWOOFER PRE OUT

Speaker Outputs

FRONT L/R (North American models support banana plugs.), CENTER,
SURROUND L/R

Phones

PHONES (Front, ø6.3 mm, 1/4")

■ Others

Setup Mic: 1 (Front)

USB: 1 (Power supply only, 1.0 A)

Specifications and features are subject to change without notice.

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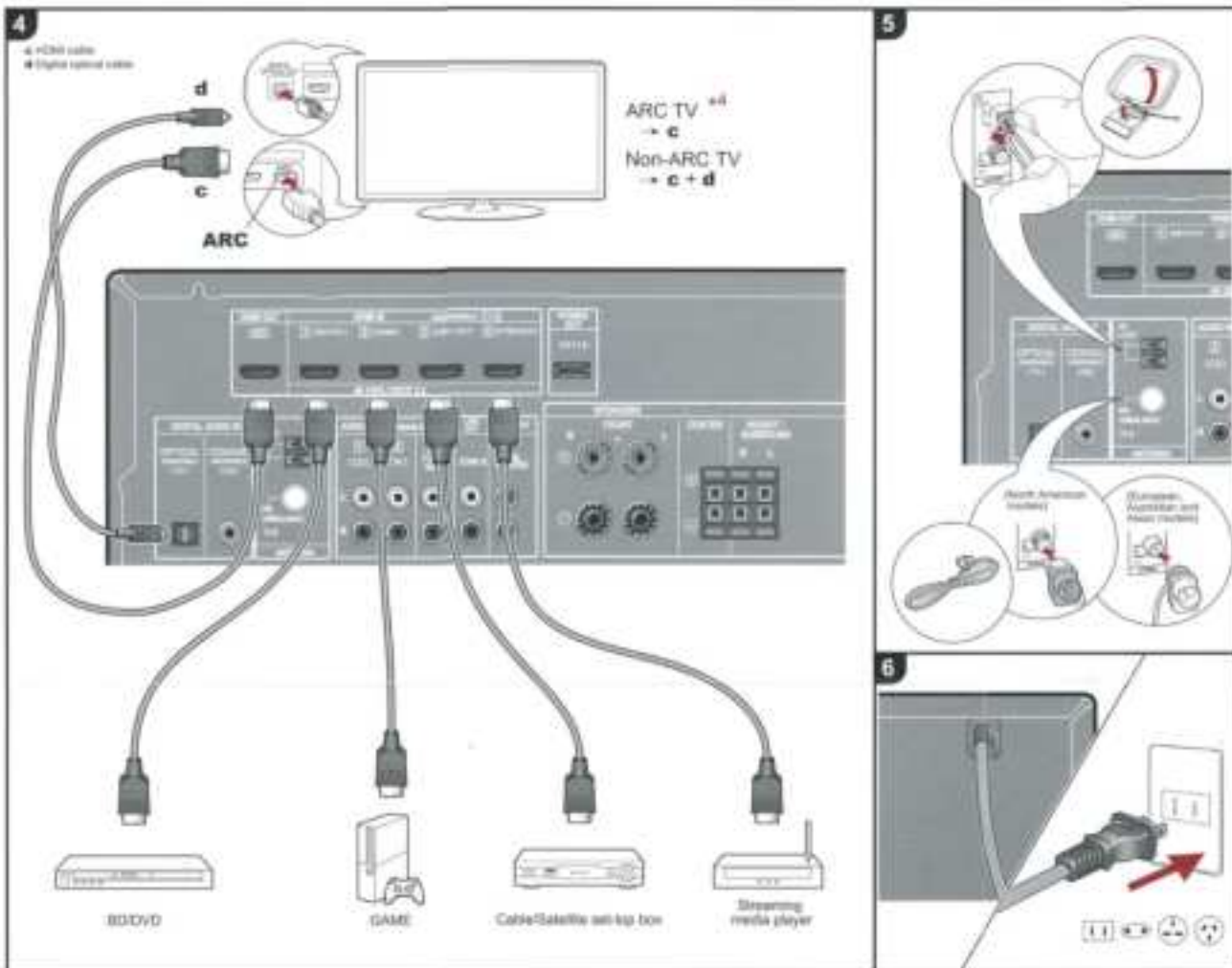


SN 29403609_EN

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H1901-0



2. Initial Setup with Auto Start-up Wizard

Configure with the Auto Start-up Wizard / Configure avec le wizard automatique / Setup van Inhoudsleutel wizard / Einrichtung mit dem automatisierten Start-up-Assistenten / Inbetriebnahme mit dem Automatischen Content Wizard / Einrichtungsanleitung mit dem automatisierten Start-up-Wizard



To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche)

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- 3** Press the white to start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche)
- 4** Press the white to start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche)
- 5** Press the white to start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche)
- 6** Press the white to start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche) / To start the initial setup (Press white to configure) button / Pour lancer la configuration (Appuyez sur la touche blanche)
- Tips**
- When the unit is operating erratically
- Resetting the unit (This resets the unit and settings to the default)



The VSX-534 comes in a user-friendly new design, with **12 % slimmer size than the previous model** for easy installation, **4K indicator**, and **Personal Preset and Bluetooth® Input buttons** on the front panel. Immerse in enveloping sound with Dolby Atmos® and DTS:X® audio formats. Or even without height or surround speakers, you can still enjoy virtual 3D surround effect with **Dolby Atmos Height Virtualizer*** and **DTS Virtual:X**. The AV receiver is compatible with Ultra HD, HDR10, HLG, and **Dolby Vision™** with support for HDCP 2.2, so you can fully appreciate premium content such as 4K videos.

Amplification

- › Channels: 5
- › Amplification Type: Direct Energy
- › 150 W/ch (6 ohms, 1 kHz, THD 10 %, 1ch Driven)
- › 80 W/ch (8 ohms, 20 Hz-20 kHz, THD 0.08 %, 2ch Driven FTC)

Audio Features

- › Dolby Atmos®, Dolby Surround Upmixer
- › DTS:X®, DTS Neural:X® Upmixer
- › **Reflex Optimizer**
- › **Dolby Atmos Height Virtualizer***
- › **DTS Virtual:X**
- › Dolby® TrueHD, Dolby Digital Plus
- › DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS 96/24, DTS-ES, DTS-HD Express
- › DSD Disc (SACD) Playback via HDMI (2.8 MHz/2ch, 5.1ch)
- › Digital Quad-Core 32-bit DSP (Cirrus Logic)
- › 384 kHz/32-bit D/A Conversion with AK4438 (AKM)
- › Audio Return Channel (ARC) on HDMI
- › MCACC Auto Room Tuning
 - Phase Control
 - **Subwoofer EQ**
- › Advanced Sound Retriever (2ch)
- › Advanced Surround Modes
 - Classical, Unplugged, Entertainment Show, Drama, Extended Stereo, Extended Mono, Front Stage Surround Advance

Video Features

- › Ultra HD Pass-through with HDCP 2.2 (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:0/36-bit)
- › HDR10, HLG and BT.2020 Wide Color Gamut Signal Pass-through
- › **Dolby Vision Compatible**
- › Ultra HD Upscaling (1080p to 4K)
- › 3D Ready (Blu-ray Disc™, Broadcast, and Games)
- › Deep Color (36-bit), "x.v. Color"

Convenience Features

- › **Personal Preset**
- › **Dialog Enhancement**
- › **Bluetooth®** Wireless Technology (Version: 4.2 + LE, Profile: A2DP 1.2/ AVRCP 1.3, Codec: SBC/AAC) Built-in
- › **User-Friendly GUI with System Setup Menu**
- › **On-Screen Information for Audio/Video Status**
- › Auto Power Off in HDMI Standby Through
- › AM/FM Tuner 40 Presets
- › Sleep Timer
- › User-Friendly Simple Remote Control

Front Terminals

- › MCACC Setup MIC In
- › Phones 1 Out

Rear Terminals

- › HDMI 4 In (4 Assignable)
- › HDMI 1 Out
- › USB 1 In for Streaming Dongles
- › Audio 3 In (Assignable)
- › Digital Coaxial 1 In (Assignable)
- › Digital Optical 1 In (Assignable)
- › Subwoofer 2 Pre Out
- › **ZONE B Line Out for Wireless Headphones**
- › Speaker 5 ch Out (FRONT, CENTER, SURROUND/HEIGHT)
- › FM/AM Antenna

Specifications

- › Power Requirements: AC 120 V, 60 Hz
- › Power Consumption/Standby: 445 W/0.1 W
- › Dimensions (W x H x D): 17-1/8 x 5-13/16 x 12-5/8 inches (435 x 148 x 321 mm)
- › Weight: 17.6 lbs. (8 kg)
- › Carton Dimensions: 20-11/16 x 9-1/16 x 15-3/8 inches (525 x 230 x 390 mm)
- › Carton Included Weight: 23.1 lbs. (10.5 kg)



VSX-534(B) UPC: 889951001447

Dolby Atmos®/Dolby Surround Upmixing

The VSX-534 is compatible with 3.1.2ch configuration of the latest theater sound platform, Dolby Atmos®. You can reproduce object-oriented sound in smooth, curving movements, or the realistic three-dimensional movement overhead by the top speakers. Other audio codecs such as PCM and DSD can be upmixed using Dolby Surround for enjoying 3D surround sound.



Dolby Atmos 3.1.2ch Speaker System



DTS:X®/DTS Neural:X Upmixing

DTS:X is the next-generation audio codec from DTS that leverages object-based audio to enable new immersive and interactive audio experiences. Since DTS:X can automatically adapt the audio to the existing channels and speaker system, no specific speaker layout is required. Experience an immersive soundscape with incredibly rich and life-like audio. Other audio codecs such as PCM and DSD can be upmixed using DTS Neural:X for enjoying 3D surround sound.



Dolby Atmos Height Virtualization*

When playing any Dolby format, engaging the Dolby Atmos Height Virtualizer enables a more immersive listening experience, creating a virtual surround and height effect from traditional speaker layouts without employing additional surround or height speakers.

* Function available with future firmware update

DTS Virtual:X

With DTS Virtual:X, you can enjoy a three-dimensional immersive sound similar to DTS:X, without the need of height or rear speakers. The technology supports 2 to 7.1.4-channel input source, for delivery on 2 to 5.1-channel speaker layout. DTS Virtual:X works with all DTS codecs, including DTS:X.



Next Generation Video Standard Ready

The VSX-534 supports pass-through for HDR10, HLG (Hybrid Log-Gamma), and Dolby Vision signals. By connecting a compatible source device, you can enjoy these latest video standards on a compatible display. What's more, all HDMI terminals support 4K (60p/4:4:4/24-bit), Wide Color Gamut (BT.2020), and HDCP 2.2, so you will have no problem when upgrading to new devices, and can also enjoy premium content such as 4K videos with digital copy protection.



HDR Dynamic Range Expansion Image



No HDR

With HDR

For illustration purpose only

Integrated Technologies



MCACC Auto Room Tuning

Create the optimum acoustic environment with Pioneer's MCACC (Multi-Channel Acoustic Calibration System), developed with the expertise of professional recording studios. With the custom microphone, the system automatically compensates for differences in speaker size, level and distance, and equalizes response.



Zone B Output for Wireless Headphones

The VSX-534 is equipped with Zone B audio output terminals for expanding the Main Zone sound by connecting your wireless headphone dock. You can listen to the sound playing in the living room via wireless headphones.



Built-in Bluetooth® Wireless Technology

Stream songs from compatible devices with the built-in Bluetooth® Wireless Technology (ver. 4.2 + LE). The VSX-534 features A2DP/AVRCP profiles, with support for SBC/AAC codecs. By pressing the Bluetooth button on the front panel, you can directly start up the BT function, even when the unit is in standby.



Personal Preset

Just press the Personal Preset button on the front panel for three seconds, and your current settings such as volume level and listening mode can be saved. Up to three presets can be registered and easily called up from the front panel button or the remote control.

Dialog Enhancement

With this unique mid-range sound control feature, you can make independent volume adjustments to the range including dialogs in films, with the up/down key on the remote control.

On-Screen Information for Audio/Video Status

The screen display now shows detailed input and output information for the playing content. So you can see whether your video is being output by Dolby Vision, or if the movie is processing Dolby Atmos or DTS:X sound.

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NOTE

(En) NOTE: The addresses of product support of this product have been changed as below. / (De) Bitte beachten: Sie erreichen unseren Support unter den folgenden neuen Adressen. / (Fr) NB: Les adresses du support technique de ce produit ont été modifiées comme suit. / (Es) NOTA: Las direcciones de soporte de producto de este producto se han cambiado como se muestra a continuación.

Product Support

<U.S.A.>

11 Trading Company
Tel: 844-679-5350 (For USA customers)
<https://www.pioneerhomeusa.com/>
Tel: 905-513-7733 (For Canadian customers)
<https://ca.pioneer-av.com/>

<EU>

Aqipa GmbH (EU importer)
Moeslbichl 78, 6250 Kundl, Austria
eu.pioneer-av.com

Manufacturer

Onkyo Home Entertainment Corporation
1-1-41 Kawamata, Higashiosaka-shi, Osaka 577-0063 Japan

The above-mentioned information is subject to change without prior notice.



1-10-5 Yokoami, Sumida-ku, Tokyo 130-0015 JAPAN

<U.S.A.>

18 PARK WAY, UPPER SADDLE RIVER, NEW JERSEY
07458, U.S.A.

Tel: 1-201-785-2600 Tel: 1-844-679-5350

<Germany>

Gutenbergstrasse 3, 82178 Puchheim, Germany
Tel: +49 (0)89 2170 497 97 (For Product Support only)
<https://www.pioneer-audiovisual.eu/de>

<UK>

Meridian House, Ground Floor, 69-71 Clarendon Road,
Watford, Hertfordshire WD17 1DS, United Kingdom
Tel: +44 (0)20 3936 8086 (For Product Support only)
<https://www.pioneer-audiovisual.eu/uk>

<France>

6, Avenue de Marais F - 95816 Argenteuil Cedex France
Tel: +33 (0)1 82 88 15 06 (For Product Support only)
<https://www.pioneer-audiovisual.eu/fr>

EU Official Web Site

<https://www.pioneer-audiovisual.eu/eu>



Safety Information

	WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRI	
	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.		
	The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.		
CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.			

Important safety instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, input bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the portaportable combination to avoid injury from tip-over.

PORTABLE CART WARNING



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

Store small parts out of the reach of children and infants. If accidentally swallowed, contact a doctor immediately.

Sides and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, bedclothes, curtains) or by operating the equipment on thick carpet or a bed.

Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Risk of explosion if battery is replaced by an incorrect type. Risk of explosion if disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery.

Precautions

If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a fan-like gap for warm air to escape.

Operating Environment

Operating environment temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F), less than 85 %RH (condensing water not blocked).

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light).

Important Notice

The model number and serial number of this equipment are on the rear or bottom. Record these numbers on your enclosed warranty card and keep in a safe place for future reference.

CAUTION

The power switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure this unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

Register your product on / Enregistrez votre produit sur /
Registre su producto en
<http://www.pioneerelectronics.com> (US)
<http://www.pioneerelectronics.ca> (Canada)

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SN29403528

F1811-0



* 2 9 4 0 3 5 2 8 *

The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level – a level that lets the sound come through clearly without annoying ringing or distortion and, most importantly, without affecting your sensitive hearing. Sound can be damaging. Over time, your hearing "comfort level" adapts to higher volumes of sound, so what sounds "normal" can actually be bad and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

Be Sure To Observe The Following Guidelines:

- Do not turn up the volume so high that you can't hear what's around you.
- Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle; the use of headphones may create a traffic hazard and is illegal in many areas.

Establish a Safe Level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
- Once you have established a comfortable sound level, set the dial and leave it there.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

Power-Cord Caution

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest authorized service center or your dealer for a replacement.

Radio Wave Caution

This product uses radio waves in the 2.4 GHz frequency bands. 2.4 GHz radio waves are used by other wireless systems (Microwave ovens and Cordless phones, etc.). In this event, noise appears in your television image; there is the possibility the unit (including products supported by this unit) is causing signal interference with the antenna input connector of your television, video, satellite tuner, etc. In this event, increase the distance between the antenna input connector and the unit (including products supported by this unit).

When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.



AVERTISSEMENT

Cet appareil n'est pas destiné. Pour éviter les risques d'incendie et de décharge électrique, ne placez près de lui un récipient rempli d'eau, ni d'un vase ou un pot de fleurs, et ne l'exposez pas à des gouttes d'eau, des solébeuses, de la pluie ou de l'humidité.

Pour éviter les risques d'incendie, ne placez autour de l'appareil rien (salle qu'une bougie allumée) sur l'appareil.

Gardez les pièces du petit bébé hors de la portée des bébés et des enfants. En cas d'ingestion accidentelle, veuillez contacter immédiatement un médecin.

Les fentes et ouvertures du coffret sont prévues pour la ventilation, pour assurer un fonctionnement stable de l'appareil et pour éviter la surchauffe. Pour éviter les risques d'incendie, ne bouchent jamais les ouvertures et ne les recouvrez pas d'objets, tels que journaux, papier ou tissu, et n'utilisez pas l'appareil posé sur un tapis épais ou un lit.

N'utilisez, ni ne conservez vos piles à la lumière directe du soleil ou dans un endroit fortement exposé à la chaleur, comme une voiture ou à proximité d'un appareil de chauffage. Les piles risquent de brûler, surchauffer, exploser ou s'enflammer. La durée de vie et la performance des piles peuvent également être réduites.

Il y a un risque d'explosion si la batterie est remplacée par une autre de type incorrect. Il existe un risque d'explosion en cas de dépôt de la batterie dans un feu ou un feu ouvert ou encore en cas d'écrasement ou de découpe mécanique de la batterie.

Précautions

Veuillez à n'installer cet appareil que dans un rack ou un meuble qui n'entrave pas la ventilation.

Laissez un espace libre de 20 cm au-dessus et à côté de l'appareil ainsi que 10 cm en face arrière. La face arrière du rack ou du meuble doit se trouver à 10 cm ou plus du mur pour assurer une aération adéquate en vue de dissiper la chaleur.

Niveau de fonctionnement

Température et humidité du milieu de fonctionnement : De +5 °C à +35 °C (de +41 °F à +95 °F) ; Humidité relative inférieure à 95 % (critère de ventilation non obstruée).

N'installez pas l'appareil dans un endroit mal ventilé ou un lieu soumis à une forte humidité ou en plein soleil (ou à une forte lumière artificielle).

Avis important

Le numéro de modèle et le numéro de série de cet équipement sont situés à l'arrière ou en dessous. Tenez ces numéros sur votre carte de garantie jointe et conservez-les dans un endroit sûr pour une future consultation.

ATTENTION

La touche interrupteur de cet appareil ne coupe pas totalement le courant provenant de la prise secteur. Comme le cordon d'alimentation fait office de dispositif de déconnexion du secteur, il devra être débranché au niveau de la prise secteur pour que l'appareil soit complètement hors tension. Par conséquent, veillez à brancher l'appareil de telle manière que son cordon d'alimentation puisse être facilement débranché de la prise secteur en cas d'urgence. Pour éviter tout risque d'incendie, le cordon d'alimentation sera débranché au niveau de la prise secteur si vous prévoyez une période prolongée de non utilisation (par exemple avant un départ en vacances).

La protection de vos oreilles est entre vos mains

Tenez le niveau de votre équipement en l'absence d'un niveau sonore élevé - un niveau qui permet de percevoir un son clair, sans bégaiement ou distorsion gênante et, plus important, sans affecter la sensibilité de votre ouïe. Le son peut être trompeur. Au fil du temps, le "niveau de confort" de votre audition s'adapte à des volumes plus élevés, de sorte que les sons qui vous étaient "normaux" paraissent, en réalité, être très forts et dangereux pour votre ouïe. Vous devez vous méfier contre cela en réglant votre équipement à un niveau sans danger POINT que votre audition s'adapte.

Assurez-vous de suivre les consignes suivantes :

- N'augmentez pas le volume au point de ne pas pouvoir entendre ce qu'il se passe autour de vous.
- Agissez avec précaution ou arrêtez l'utilisation dans des situations potentiellement dangereuses.
- Multitâche par les écouteurs en conduisant un véhicule motorisé ; l'utilisation des écouteurs peut causer un danger pour la circulation et est illégale dans de nombreuses régions.

Déterminez un niveau sans danger :

- Réglez le commandé de volume à un faible niveau.
- Augmentez légèrement le son jusqu'à ce que vous le trouvez clair et confortable, sans distorsion.
- Une fois que vous avez déterminé un niveau sonore confortable, réglez le bouton et ne le touchez plus.

Ce produit est destiné à une utilisation domestique générale. Toute panne due à une utilisation autre qu'à des fins privées (comme une utilisation à des fins commerciales dans un restaurant, dans un autocar ou sur un bateau) et qui nécessite une réparation sera aux frais du client, même pendant la période de garantie.

Attention concernant le cordon d'alimentation

Tenez le cordon d'alimentation par la prise. Ne jamais débrancher la fiche en tirant sur le cordon et ne jamais toucher le cordon d'alimentation avec les mains mouillées car cela pourrait causer un court-circuit ou une électrocution. Ne pas placer l'appareil, un meuble, etc. sur le cordon d'alimentation ou couvrir le cordon. Ne jamais faire de feu ou utiliser le cordon ou le couteau avec d'autres cordons. Les cordons d'alimentation endommagés peuvent causer des incendies ou des électrocutions. Contrôlez le cordon d'alimentation régulièrement. S'il est endommagé, demandez au service après-vente autorisé le plus proche ou au revendeur de le remplacer.

Précaution concernant les ondes radio

Cet appareil utilise les ondes radio des bandes de fréquence 2.4 GHz. Les ondes radio de 2.4 GHz sont utilisées par d'autres systèmes sans fil (four à microondes et téléphones sans fil, etc.). Si des interférences apparaissent sur les images télévisées, il est possible que cet appareil (y compris tout ce qu'il prend en charge) provoque des interférences sur le connecteur d'antenne de votre téléviseur, les images vidéo, le tuner satellite, etc. Dans ce cas, augmentez la distance entre la prise d'antenne d'antenne et cet appareil (y compris les produits pris en charge par cet appareil).

Lorsque vous éliminez des piles / batteries usées, veuillez vous conformer aux normes gouvernementales ou aux règles des institutions publiques environnementales en vigueur dans votre pays ou région.

Informations sur la sécurité

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR

Un symbole d'avertissement dans un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur le fait que certains organes internes non-étiquetés de l'appareil sont traversés par un courant électrique assez dangereux pour constituer un risque d'électrocution.

Un point d'exclamation dans un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur des instructions importantes relatives à l'entretien et à l'utilisation du produit.

ATTENTION:
POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS ENLEVER LE COUVERCLE (OU LE PANNAU ARRIÈRE). AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR NE SE TROUVE À L'INTÉRIEUR. CONFIER TOUT ENTRETIEN À UN PERSONNEL QUALIFIÉ UNIQUEMENT.

Remarques importantes pour votre sécurité

- 1) Veuillez lire ces instructions.
- 2) Veuillez conserver ces instructions.
- 3) Respectez tous les avertissements.
- 4) Suivez toutes les instructions.
- 5) Ne vous servez pas de cet appareil à proximité d'eau.
- 6) Essayez le bouton avec un chiffon sec uniquement.
- 7) Ne bloquez pas les orifices d'aération. Installez cet appareil en suivant les instructions du fabricant.
- 8) Ne le placez pas à proximité de sources de chaleur telles que radiateurs, chauffage, poêle ou autre dispositif (y compris les amplificateurs) générant de la chaleur.
- 9) N'exposez pas de composants de sécurité qui représentent une fiche polarisée ou une fiche avec mise à la terre. Une fiche polarisée dispose de deux lames dont l'une est plus large que l'autre. Une fiche avec terre est munie de deux lames ainsi qu'une broche de mise à la terre. La lame la plus large ou la broche assurent votre sécurité. Si la fiche fournie ne peut être insérée dans la prise murale, demandez à un électricien de la remplacer par la bonne.
- 10) Protégez le cordon d'alimentation en évitant qu'il ne marche pas dessus et qu'il ne soit plié (notamment au niveau des fiches, des cache-fiches et de la sortie de l'appareil).
- 11) Servez-vous exclusivement des fonctionnalités prévues par le fabricant.
- 12) Utilisez exclusivement le chariot, le support, le trépied, la fixation ou la table spécifiée(s) par le fabricant ou vendeur de l'appareil. Un chariot contenant l'appareil doit toujours être déplacé avec précaution pour éviter qu'il ne se renverse et blesse quelqu'un.

AVERTISSEMENT POUR SUPPORTS À ROULETTES



- 13) Débranchez l'appareil durant un usage ou lorsqu'il reste inutilisé longtemps.
- 14) Veuillez faire appel à un technicien qualifié pour l'entretien. Un entretien est indispensable si l'appareil a été endommagé d'une façon ou d'une autre : cordon d'alimentation ou fiche endommagés, liquide renversé ou chute de petits objets dans l'appareil, exposition à la pluie ou à une humidité excessive, fonctionnement anormal ou chute de l'appareil.

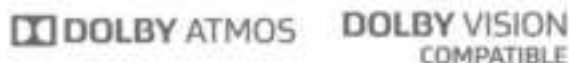
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET-65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Cet équipement est conforme aux limites d'exposition aux rayonnements électromagnétiques pour un environnement non contrôlé et respecte les règles des radioélectriques (RF) de la FCC, lignes directrices d'exposition dans le Supplément C à OET-65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

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