

Network

Proxy URL (Default Value: -)

Displays/Sets the proxy server URL.

Proxy Port (Default Value: 8080)

Displays/Sets the proxy server port number when you input "Proxy URL".

Friendly Name (Default Value: Pioneer VSX-935 XXXXXX)

Change the device name for this unit which is shown on other devices connected to the network to an easily recognized name.

1. Press ENTER to display the Edit screen.
2. Select a character or symbol with the cursors, and press ENTER.
Repeat it to input 31 or less characters.
"A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases)
"←" "→": Moves the cursor in the arrow direction.
"⊞": Removes a character on the left of the cursor.
"␣": Enters a space.
 - Pressing CLEAR on the remote controller will remove all the input characters.
3. After inputting, select "OK" with the cursors, and press ENTER.
The input name will be saved.

AirPlay (Default Value: On)

Select whether or not to use the AirPlay function.

On	When this function is used
Off	When this function is not used

AirPlay Device Name (Default Value: Pioneer VSX-935 XXXXXX)

Change the model name of this unit which is displayed on the AirPlay-connected device to an easily recognized name.

1. Press ENTER to display the Edit screen.
2. Select a character or symbol with the cursors, and press ENTER.
Repeat it to input 31 or less characters.
"A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases)
"←" "→": Moves the cursor in the arrow direction.
"⊞": Removes a character on the left of the cursor.
"␣": Enters a space.
 - Pressing CLEAR on the remote controller will remove all the input characters.
3. After inputting, select "OK" with the cursors, and press ENTER.
The input name will be saved.
 - This function cannot be used when registering this unit to Home App.



Network

❑ AirPlay Password (Default Value: -)

You can set a password of up to 31 characters so that only registered users can use AirPlay.

1. Press ENTER to display the Edit screen.
2. Select a character or symbol with the cursors, and press ENTER. Repeat it to input 31 or less characters.
 - "A/a": Switches between upper and lower cases. (Pressing MODE on the remote controller also toggles between upper and lower cases)
 - "←" "→": Moves the cursor in the arrow direction.
 - "⌫": Removes a character on the left of the cursor.
 - "␣": Enters a space.
 - To select whether to mask the password with "*" or display it in plain text, press +Fav on the remote controller.
 - Pressing CLEAR on the remote controller will remove all the input characters.
3. After inputting, select "OK" with the cursors, and press ENTER. The input password will be saved.
 - This function cannot be used when registering this unit to Home App.

❑ Privacy Statement (Default Value: Not Accepted)

When using a network service that requires a login name, email address, password, etc., you need to agree to the Privacy Statement of our company.

- This setting can be made after confirming the Privacy Statement. When you select "Privacy Statement" and press ENTER, the Privacy Statement is displayed.
- When "Not Accepted" is selected, you will log out from the network service you have logged in.

❑ Network Check (Default Value: -)

You can check the network connection. Press ENTER when "Start" is displayed.

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



Bluetooth

Change the settings for the BLUETOOTH function.

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

■ Bluetooth Receiver

□ Bluetooth Receiver (Default Value: On)

Select whether or not to use the function that receives audio from BLUETOOTH wireless technology enabled devices.

On	When this function is used
Off	When this function is not used

□ Auto Input Change (Default Value: 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 will automatically become "BLUETOOTH" when a BLUETOOTH enabled device is connected.
Off	The function is disabled. <ul style="list-style-type: none"> • If the input is not switched automatically, set to "Off" and change the input manually.

□ Auto Reconnect (Default Value: On)

This function automatically reconnects to the BLUETOOTH wireless technology enabled device connected last when you change the input to "BLUETOOTH".

- This may not work with some BLUETOOTH wireless technology enabled devices.

On	When this function is used
Off	When this function is not used

□ Pairing Information (Default Value: -)

You can initialize the pairing information stored on this unit. If you are no longer able to connect with a device you have paired, try doing this. (→[p154](#))

Pressing ENTER when "Clear" is displayed initializes the pairing information stored on 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 (Default Value: -)

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 (Default Value: -)

Displays the status of the BLUETOOTH wireless technology enabled device connected to the unit.

Ready	Not paired
Pairing	Paired
Connected	Successfully connected



Bluetooth

■ Bluetooth Transmitter

□ Bluetooth Transmitter (Default Value: Off)

Select whether or not to use the function that transmits audio from this unit to BLUETOOTH wireless technology enabled devices.

On (Tx)	When this function is to be used (played back only on BLUETOOTH wireless technology enabled devices)
On (Main + Tx)	When this function is to be used (played back both on this unit and on BLUETOOTH wireless technology enabled devices)
Off	When this function is not used

□ Search Devices (Default Value: -)

Search for a BLUETOOTH wireless technology enabled device that is able to receive the audio from this unit. Select "Start" then press ENTER. A list of the names of BLUETOOTH wireless technology enabled devices that are able to receive is displayed. Select the device to be connected with the cursors ▲ / ▼, then pairing begins when you press ENTER.

□ Output Level (Default Value: Variable)

You can select whether to adjust the volume on this unit or to adjust it on the BLUETOOTH wireless technology enabled device.

Variable	To use the volume controls on this unit
Fixed	To use the volume controls on the BLUETOOTH wireless technology enabled device

□ aptX HD (Default Value: Off)

It is possible to use aptX HD to connect a BLUETOOTH wireless technology enabled device and this unit.

- The codec of the receiving device must be compatible with aptX HD.

On	When this function is used
Off	When this function is not used

□ Low Latency Mode (Default Value: Off)

If the audio from a device connected via BLUETOOTH is delayed compared to the video on the TV when watching a gaming screen, etc., you can reduce the audio delay.

On	When this function is used
Off	When this function is not used

□ Pairing Information (Default Value: -)

You can initialize the pairing information stored on this unit. If you are no longer able to connect with a device you have paired, try doing this. (→ [p154](#))

Pressing ENTER when "Clear" is displayed initializes the pairing information stored on this unit.

- This function does not initialize the pairing information on the BLUETOOTH enabled device. When pairing the unit again with the device, be sure to clear the pairing information on the BLUETOOTH enabled device in advance. For information on how to clear the pairing information, refer to the BLUETOOTH enabled device's instruction manual.

□ Device (Default Value: -)

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".



Bluetooth

❑ Status (Default Value: -)

Displays the status of the BLUETOOTH wireless technology enabled device connected to the unit.


Ready	Not paired
Pairing	Paired
Connected	Successfully connected
Connected (aptX)	Successfully connected with aptX compatible device
Connected (aptX HD)	Successfully connected with aptX HD compatible device



Web Setup

Menu operations

You can make the settings for the network function of this unit using an Internet browser on a PC, smartphone, etc.

1. Press  on the remote controller to display the Home screen.
2. Select "Network/Bluetooth" - "Network" with the cursors, then take a note of the IP address displayed in "IP Address".
3. Start the internet browser on your PC or smartphone and enter the IP address of the unit in the URL field.
4. The screen for entering the user name and password is displayed. Enter the following then click "OK".
User name: admin (fixed)
Password: admin (default value)
 - You can change the password after logging in.
 - Input is required again if you close the browser.
 - Take a note of the password so that you do not forget it. If you do forget it, reset the unit (→ [p148](#)) then log in again with the initial settings (admin).
5. Information for the unit (Web Setup screen) is displayed in the internet browser.



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

Device Information

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

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

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

Network Setting

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

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

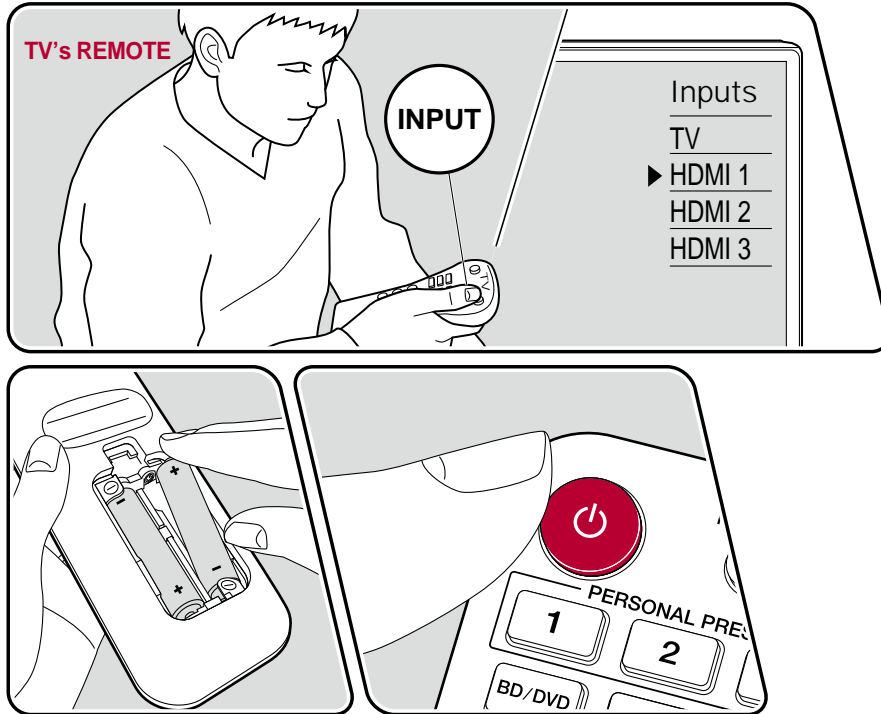
DHCP: You can change DHCP settings. If you select "Off", set "IP Address", "Subnet Mask", "Gateway" and "DNS Server" manually.

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



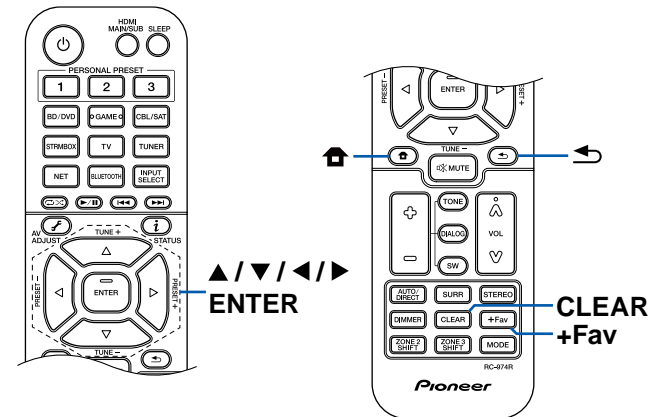
Initial Setup with Auto Start-up Wizard

Operations



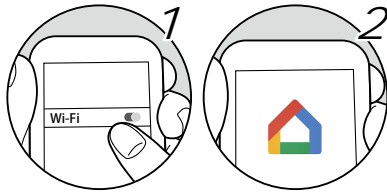
When you turn the unit on for the first time after purchase, the Initial Setup screen is automatically displayed on the TV to allow you to make settings required for startup using simple operations following on-screen guidance.

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 \blacktriangle / \blacktriangledown and press ENTER.
5. To make the network connection settings, select "Yes" 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. Unless you do the Initial Setup to the end or select "Never Show Again" in the screen shown after setting the Network Connection, the wizard screen is shown every time the power is turned on.
 - To perform the Initial Setup again after the setting is completed, press ⏻ , select "System Setup" - "Miscellaneous" - "Initial Setup", and press ENTER.



Network Connection

1. A confirmation screen asking you whether to agree to the privacy statement is displayed during network setting. If you agree, select "Accept" and press ENTER.
2. Select the type of connection to the network. To use the Chromecast built-in function to connect, select "Yes" and press ENTER. The Google Home app is required to use the Chromecast built-in function. Download the Google Home app from Google Play or the App Store to your smart phone or tablet.
 - Google Home app can be used on the following operating systems. (As of February 2021)
Android™: Android 6.0 or later.
iOS: iOS 12.0 or later. Compatible with iPhone®, iPad®, and iPod touch®.



If you select "No", you can connect using either wired LAN or Wi-Fi.

"Wired": Use a wired LAN to connect to a network.

"Wireless": Wi-Fi connection using an access point such as a wireless LAN router.

- There are two methods for Wi-Fi connection.
 - "Scan Networks"**: Search for an access point from this unit. Find out the SSID of the access point beforehand.
 - "Use iOS Device (iOS7 or later)"**: Share the Wi-Fi settings of your iOS device with this unit.
- If you select "Scan Networks", there are another two types of connection methods. Check the following.
 - "Enter Password"**: Enter the password (or key) of the access point to connect.
 - "Push Button"**: If the access point is equipped with an automatic setting button, you can connect without entering the password.
- If the SSID of the access point is not displayed, select "Other..." with the cursor ► on the SSID list screen, press ENTER, and then follow the on-screen instructions.



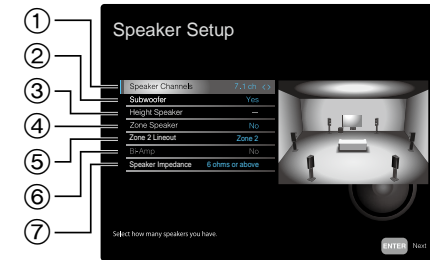
Keyboard Input

To switch between upper and lower cases, select "A/a" on the screen, and press ENTER on the remote controller.

Press +Fav on the remote controller to select whether to mask the password with "*" or display it in plain text. Pressing CLEAR on the remote controller will remove all the input characters.

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".



- ① Select to suit the number of speaker channels connected.
 - ② Set whether a subwoofer is connected or not.
 - ③ Set the speaker type if height speakers are connected to the HEIGHT terminals.
 - ④ Set the connection of speakers to Zone 2 speaker terminals.
 - ⑤ Set an output destination of the audio output from ZONE 2 LINE OUT/ZONE B LINE OUT jack.
 - ⑥ Set whether the front speakers are bi-amp connected.
 - ⑦ Set the impedance of the connected speakers.
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. Multi Zone Sound Check

Output test tones to ZONE 2 to enjoy audio in a separate room (ZONE 2) in addition to the main room.

3. ARC Setup

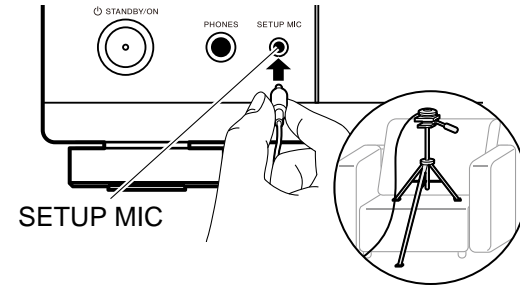
If you have connected a TV that supports ARC, select "Yes" and press ENTER.

4. 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.

- 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 to output test tones 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. If there is no problem in the detection result of the speaker, select "Next" and press ENTER to output the test tone again to automatically set the settings such as volume level, crossover frequency, etc., to their optimum. (The test tone is automatically output when 10 seconds has elapsed without any operation.)
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.



Pioneer Remote App



Pioneer Remote App (available on iOS and Android™ handsets) is a dedicated app available for free which allows you to use your handset as a remote controller. Along with basic operations such as switching input and adjusting the volume, you can also select a radio station or network service (internet radio or play of a music file) without looking at the TV.

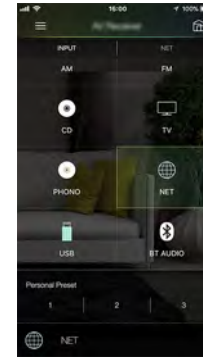
- To use Pioneer Remote App, this unit needs to be connected to the same network as the mobile device.

Main features

- Turning the power On/Off, switching input, adjusting the volume, and other such basic remote controller operations.
- When using Multi-zone (→ [p92](#)), you can not only control with the app in the main room (where this unit is located), but also in the separate room (ZONE 2).
- Playing internet radio services (TuneIn Radio, etc.) and selecting stations. Control in the palm of your hands without looking at the TV.
- Play the music files saved on the mobile device via Wi-Fi.
- Play Amazon Music (compatible models only) (→ [p85](#))

Initial Setup

1. Download the Pioneer Remote App from the App Store or Google Play™ Store.
2. Connect the mobile device to the same network as the unit.
3. Start the Pioneer Remote App. This unit is displayed automatically when the app is started, so tap the unit when displayed to select it.



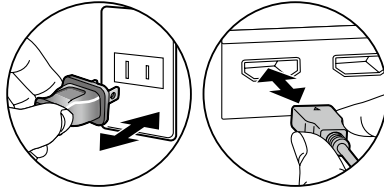
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Before starting the procedure

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.



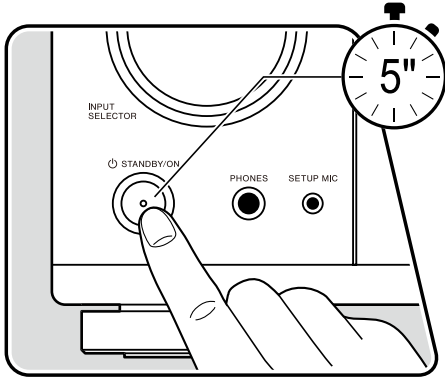
- The AV receiver contains a microPC for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least 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.



When the unit is operating erratically

❑ Try restarting the unit

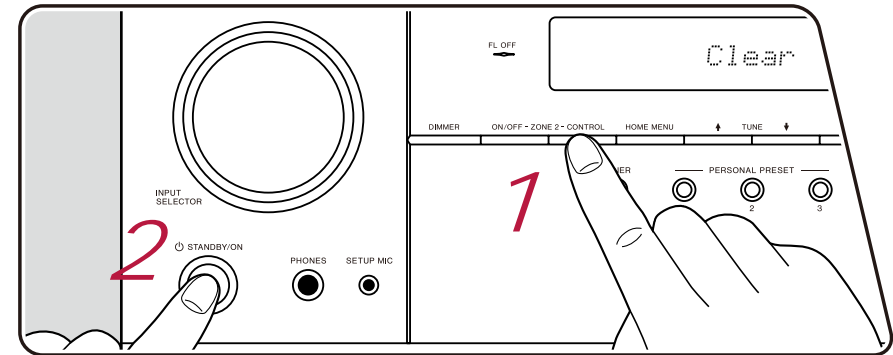
Restarting this unit may solve the problem. Set the main unit to standby, then after waiting for 5 seconds or more, press and hold the **⏻** STANDBY/ON button of the main unit for at least 5 seconds, and then restart the unit. (The settings on this unit are kept.) If the problem persists after restarting 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. Note that it is not possible to reset the unit during the Initial Setup process. Before doing the following procedures, press **↩** to exit Initial Setup.

1. While pressing and holding ZONE 2-CONTROL 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.
To reset the remote controller, while pressing and holding MODE, press the CLEAR button at least 3 seconds.



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

- The unit automatically switches to standby when the "System Setup" - "Hardware" - "Power Management" - "Auto Standby" setting in the Home screen functions. (→p124)
- 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 "MUTING" is displayed on the display and  is blinking, press  on the remote controller to cancel muting.
- While headphones are connected to the PHONES jack, no sound is output from the speakers.
- When "System Setup" - "Source" - "Audio Select" - "Fixed PCM" in the Home Menu is set to "On", no sound is played when signals other than PCM are input. Change the setting to "Off".

Check the following if the 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 doesn't support the ARC function, along with connection by HDMI, connect the TV and this unit using a digital optical cable.

(→[p54](#))

❑ No sound from a connected player

- Change the input selector on this unit to the position of the jack 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.
- Make sure that the speaker cables are not shorting out.
- Check "Connect the Speaker Cables" (→[p34](#)) 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" (→[p142](#)).
- 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.
- If surround back speakers are installed, be sure to install surround speakers as well.
- A maximum of 5.1 ch playback is possible when Bi-Amping connection is used. Be sure to remove the jumper bar on the speakers when using Bi-Amping connection.

(→[p34](#))

❑ 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 "System Setup" - "Speaker" - "Crossover".
- If the input signals do not contain subwoofer audio elements (LFE), the subwoofer may produce no sound.

(→[p116](#))



❑ 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. Check "Speaker Layouts and Selectable Listening Modes" (→[p160](#)) or "Input Formats and Selectable Listening Modes" (→[p163](#)).

❑ 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 Dolby signals

- When surround back speakers are included in the speaker layout, and software that is recorded with the 5.1 channel Dolby audio format is played, the surround channel audio may be output from the surround back speakers.
- Some Dolby Atmos audio format that is used on games, etc., may be recognized as "Multichannel PCM". If this occurs, check the firmware updates for the game console.



□ 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 jack 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 "System Setup" - "Hardware" - "HDMI" - "HDMI Standby Through" on the Home screen. For details of the HDMI Standby Through function, refer to "System Setup" - "Hardware" - "HDMI".
- To output video to a TV connected to the HDMI OUT SUB jack, press the  button on the remote controller to display "AV Adjust" and select "HDMI" - "HDMI Out", or press the HDMI MAIN/SUB button on the remote controller. Then, select the HDMI OUT jack for output.
- 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.
- Try switching off the Deep Color function. To turn off the Deep Color function, simultaneously press the PERSONAL PRESET 2 and  STANDBY/ON buttons on the main unit.

While holding down PERSONAL PRESET 2, press  STANDBY/ON repeatedly until "Deep Color:Off" appears on the display. To reactivate the Deep Color function, repeat the above described step until "Deep Color:On" is appeared on the display.


(→p123)



❑ 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. To adjust, press  on the remote controller, and adjust in "HDMI" - "Sound Delay" in the "AV Adjust".

(→p77)

■ Linked operation

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

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

(→p123)

■ 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 (→p70).
- When listening to an AM station, operating the remote controller may cause noise. (North American, Australian and Asian models)
- FM reception may be clearer if you use the antenna jack on the wall used for the TV.

(→p60)

■ 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 transmit from a BLUETOOTH wireless technology enabled device (PC, smartphone, etc.) to this unit

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

❑ Cannot connect a BLUETOOTH wireless technology enabled device (PC, smartphone, etc.) to this unit

- Initialize the pairing information and perform pairing again.

(→[p138](#))

Firstly delete all the pairing information saved on this unit. In the Home screen, select "Network/Bluetooth" - "Bluetooth" - "Bluetooth Receiver" - "Pairing Information", then press ENTER while "Clear" is displayed.

Next, delete the pairing information of this unit that is saved on the BLUETOOTH wireless technology enabled device. For information on how to clear the pairing information, refer to the BLUETOOTH enabled device's instruction manual.

Finally, perform pairing again. Refer to "Playing audio from BLUETOOTH wireless technology enabled devices with this unit" (→[p65](#)) for pairing instructions.

❑ Cannot transmit from this unit to a BLUETOOTH wireless technology enabled device (wireless headphones, etc.)

- Check that the "Bluetooth Transmitter" setting on this unit is set to either "On(Tx)" or "On(Main + Tx)".

(→[p139](#))

❑ Cannot connect this unit to a BLUETOOTH wireless technology enabled device (wireless headphones, etc.)

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

(→[p139](#))

- Initialize the pairing information and perform pairing again.

Firstly delete all the pairing information saved on this unit. In the Home screen, select "Network/Bluetooth" - "Bluetooth" - "Bluetooth Transmitter" - "Pairing Information", then press ENTER while "Clear" is displayed.

Next, delete the pairing information of this unit that is saved on the BLUETOOTH wireless technology enabled device. For information on how to clear the pairing information, refer to the BLUETOOTH enabled device's instruction manual.

Finally, perform pairing again. Refer to "Transmitting audio from this unit to BLUETOOTH wireless technology enabled devices" (→[p67](#)) for pairing instructions.

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

- If the volume setting on this unit or the BLUETOOTH wireless technology enabled device is low, audio may not be played. Check the volume setting on this unit or the BLUETOOTH wireless technology enabled device.
- Some BLUETOOTH enabled devices may be equipped with a Send/Receive selector switch. Try switching the setting to suit the application the device is being used for.
- Depending on the characteristics or specifications of the BLUETOOTH enabled device, music may not be played back on this unit.



❑ Sound is interrupted

- There maybe 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.

■ Network function

- If you cannot select a network service, start up the network function to select it. It may take approx. one minute to start it up.
- When the NET indicator is blinking, this unit is not properly connected to the home network.
- Unplug and plug the power cords of this unit and the router, or restart the router.
- If the desired router is not displayed in the access point list, it may be set to hide SSID, or the ANY connection may be off. Change the setting and try again.

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

❑ Cannot access the Internet radio

- In the case the service provider has terminated the service, the network service or contents may not be used on this unit.
- Check if your modem and router are properly connected, and they are both turned on.
- Check if the LAN side port on the router is properly connected to this unit.
- Check if connecting to Internet from other devices is possible. If it is not possible, turn off all devices connected to the network, wait for a while, and then turn on the devices again.
- Depending on ISP, setting the proxy server is required.
- Check if the router and modem you are using are supported by your ISP.

❑ Cannot access the network server

- This unit needs to be connected to the same router as the network server.
- This unit supports the Windows Media® Player 12 network servers, or NASes that support the home network function.
- Windows Media® Player may require some settings. Refer to "Music Server".
- When using a PC, only the music files registered in the library of Windows Media® Player can be played.

(→p100)

❑ Sound is interrupted when playing music files on the network server

- Check if the network server meets the requirements for operation.
- When the PC is serving as the network server, quit application software other than the server software (Windows Media® Player 12, etc.).
- If the PC is downloading or copying large files, the playback sound may be interrupted.



■ USB storage device

❑ USB storage device is not displayed

- Check if the USB storage device or USB cable is securely inserted to the USB port of the unit.
- Disconnect the USB storage device once from the unit, and then reconnect it.
- Performance of the hard disk that receive power from the USB port of the unit is not guaranteed.
- Depending on the type of content, the playback may not be performed normally. Check the types of supported file formats.
- Operations of USB storage devices equipped with security functions are not guaranteed.

(→p97)

■ Wireless LAN Network

- Unplug and plug the power cords of this unit and the wireless LAN router, check the power-on status of the wireless LAN router, or restart the wireless LAN router.

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

❑ Cannot access wireless LAN network

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

❑ Connected to an SSID different from the selected SSID

- Some wireless LAN routers allow you to set multiple SSIDs for one unit. If connecting to such a router using the automatic setting button, you may end up connecting to an SSID different from the SSID you want to connect to. If this occurs, use the connection method requiring you to enter a password.

❑ Playback sound is interrupted, or communication is not possible

- You may not receive radio waves due to poor radio wave conditions. Shorten the distance from the wireless LAN router, or remove obstacles to improve visibility, and connect again. Install the unit away from microwave ovens or other access points. It is recommended to install the wireless LAN router and the unit in the same room.
- If there is a metallic object near the unit, wireless LAN connection may not be possible because the metal affects the radio wave.
- When other wireless LAN devices are used near the unit, other symptoms may occur, such as interrupted playback and impossible communication. You can avoid those problems by changing the channel of your wireless LAN router. For instructions on changing channels, refer to the instruction manual supplied with your wireless LAN router.
- There may not be enough bandwidth available in wireless LAN. Use a wired LAN for connection.



■ ZONE B function

❑ Cannot output audio to ZONE B

- To output audio to ZONE B, set the audio output destination for "Audio" - "Zone B" on AV Adjust to "On (A+B)" or "On (B)" and also set "Speaker" - "Configuration" - "Zone 2 Lineout" on the System Setup menu to "Zone B". (→p105)

■ Multi-zone function

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

- To output audio from an externally connected AV component to ZONE 2, connect it to any of HDMI IN1 to IN3 jacks. If the AV component is not equipped with an HDMI jack, use a digital coaxial cable, digital optical cable or analog audio cable. Also, the audio from externally connected AV components can be output to ZONE 2 only when the audio is analog or 2 ch PCM signal. When the AV component is connected to this unit with an HDMI cable, digital coaxial cable or digital optical cable, change the audio output of the AV component to the PCM output.
- When video and audio via HDMI input are output to ZONE 2, set "Input/Output Assign" - "TV Out / OSD" - "Zone 2 HDMI" (→p111) to "Use" on the System Setup menu.

❑ Others

- If the audio signal is from the NET or USB input selector, zone output is not possible for DSD audio signals.

■ 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. (→p11)



■ **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 "System Setup" - "Speaker" - "Distance".

(→p117)

❑ **The measurement results of Full Auto MCACC show that the volume level of the subwoofer has been corrected to the lower limit**

- The volume level correction of the subwoofer may not have been completed. Lower the volume of the subwoofer before Full Auto MCACC measurement.

❑ **Cannot operate the Full Auto MCACC screen with the Pioneer Remote App (available on iOS and Android™)**

- Start the Pioneer Remote App before connecting the speaker setup microphone.



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Appendix



Speaker Layouts and Selectable Listening Modes

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

Listening mode	Speaker layout (ch)									
	2.1	3.1	4.1	5.1	6.1	7.1	2.1.2	3.1.2	4.1.2	5.1.2
<input checked="" type="checkbox"/> DD (Dolby Audio - DD)		✓(*1)	✓(*1)	✓(*1)	✓(*2)	✓(*2)		✓(*2)	✓(*2)	✓(*2)
<input checked="" type="checkbox"/> DD+ (Dolby Audio - DD+)		✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
<input checked="" type="checkbox"/> DTHD (Dolby Audio - TrueHD)		✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)
<input checked="" type="checkbox"/> Atmos					✓	✓	✓	✓	✓	✓
<input checked="" type="checkbox"/> Atmos 2.0/2.1	✓									
<input checked="" type="checkbox"/> Atmos 3.0/3.1		✓								
<input checked="" type="checkbox"/> Atmos 4.0/4.1			✓							
<input checked="" type="checkbox"/> Atmos 5.0/5.1				✓						
<input checked="" type="checkbox"/> Atmos 6.0/6.1					✓					
<input checked="" type="checkbox"/> Atmos 7.0/7.1						✓				
<input checked="" type="checkbox"/> Atmos 2.0.2/2.1.2							✓			
<input checked="" type="checkbox"/> Atmos 3.0.2/3.1.2								✓		
<input checked="" type="checkbox"/> DSurr (Dolby Audio - Surr)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<input checked="" type="checkbox"/> DSurr 2.0/2.1 (Dolby Audio - Surr)	✓									
<input checked="" type="checkbox"/> DSurr 3.0/3.1 (Dolby Audio - Surr)		✓								
<input checked="" type="checkbox"/> DSurr 4.0/4.1 (Dolby Audio - Surr)			✓							
<input checked="" type="checkbox"/> DSurr 5.0/5.1 (Dolby Audio - Surr)				✓						
<input checked="" type="checkbox"/> DSurr 6.0/6.1 (Dolby Audio - Surr)					✓					
<input checked="" type="checkbox"/> DSurr 7.0/7.1 (Dolby Audio - Surr)						✓				
<input checked="" type="checkbox"/> DSurr 2.0.2/2.1.2 (Dolby Audio - Surr)							✓			
<input checked="" type="checkbox"/> DSurr 3.0.2/3.1.2 (Dolby Audio - Surr)								✓		



Listening mode	Speaker layout (ch)									
	2.1	3.1	4.1	5.1	6.1	7.1	2.1.2	3.1.2	4.1.2	5.1.2
DTS		✓	✓	✓	✓	✓		✓(*3)	✓(*3)	✓(*3)
ES Discrete (DTS-ES Discrete)					✓	✓				
ES Matrix (DTS-ES Matrix)					✓	✓				
DTS 96/24		✓	✓	✓	✓	✓		✓(*3)	✓(*3)	✓(*3)
DTS-HD HR (DTS-HD High Resolution)		✓	✓	✓	✓	✓		✓	✓	✓
DTS-HD Master (DTS-HD Master Audio)		✓	✓	✓	✓	✓		✓	✓	✓
DTS Express		✓	✓	✓	✓	✓		✓	✓	✓
DTS:X		✓	✓	✓	✓	✓	✓	✓	✓	✓
DTS Neural:X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DTS Virtual:X	✓	✓	✓	✓	✓	✓				



Listening mode	Speaker layout (ch)									
	2.1	3.1	4.1	5.1	6.1	7.1	2.1.2	3.1.2	4.1.2	5.1.2
PCM	✓	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*1)	✓(*3)	✓(*3)	✓(*3)	✓(*3)
DSD		✓(*1)	✓(*1)	✓(*1)	✓(*2)	✓(*2)		✓(*2)	✓(*2)	✓(*2)
Stereo	✓	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)
Mono	✓	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)	✓(*4)
Mono Music		✓	✓	✓	✓	✓	✓	✓	✓	✓
Ext.Stereo		✓	✓	✓	✓	✓	✓	✓	✓	✓
Classical			✓	✓	✓	✓	✓	✓	✓	✓
Ent.Show (Entertainment Show)			✓	✓	✓	✓	✓	✓	✓	✓
Drama			✓	✓	✓	✓	✓	✓	✓	✓
Unplugged			✓	✓	✓	✓	✓	✓	✓	✓
Action			✓	✓	✓	✓	✓	✓	✓	✓
AdvancedGame			✓	✓	✓	✓	✓	✓	✓	✓
Rock/Pop			✓	✓	✓	✓	✓	✓	✓	✓
Sports			✓	✓	✓	✓	✓	✓	✓	✓
F.S.Surround (Front Stage Surround)	✓	✓	✓(*4)	✓(*5)	✓(*4)	✓(*5)	✓(*4)	✓(*5)	✓(*4)	✓(*5)

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

*2: Not output from surround back speakers or height speakers.

*3: Not output from height speakers.

*4: Output only from front speakers.

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



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.

Listening mode	Pure Direct Direct Stereo	DD (Dolby Audio - DD) (*2)	DD+ (Dolby Audio - DD+ (*2)(*3))	DTHD (Dolby Audio - TrueHD) (*2)	Atmos (*13)	DSur (Dolby Audio - Surr) (*13)
Input format						
2-channel signal input						
Analog / PCM	✓					✓
Music files / DSD (*1)	✓					✓
DD / DD+ / DTHD	✓					✓
DTS / DTS 96/24 / DTS Express / DTS-HD HR / DTS-HD MSTR	✓					✓(*11)
Multi-channel signal input						
Multich PCM	✓					✓
DSD (*1)	✓					✓
DD	✓	✓				✓
DD+	✓		✓			✓
DTHD	✓			✓		✓
ATMOS	✓				✓	
DTS	✓					✓
DTS 96/24	✓					✓
DTS Express	✓					
DTS-HD HR	✓					✓
DTS-HD MSTR	✓					✓
DTS-ES Discrete	✓					✓
DTS-ES Matrix	✓					✓
DTS:X	✓					





Listening mode Input format	DTS (*2)	DTS 96/24 (*2)	DTS Express (*2)	DTS-HD HR (DTS-HD High Resolution) (*2)	DTS-HD Master (DTS-HD Master Audio) (*2)	ES Discrete (DTS-ES Discrete) (*5)	ES Matrix (DTS-ES Matrix) (*5)	DTS:X	DTS Neural:X (*6)	DTS Virtual:X (*9) (*10)
2-channel signal input										
Analog / PCM									✓	✓
Music files / DSD (*1)									✓	✓
DD / DD+ / DTHD									✓	✓
DTS / DTS 96/24 / DTS Express / DTS-HD HR / DTS-HD MSTR									✓	✓
Multi-channel signal input										
Multich PCM									✓	✓
DSD (*1)									✓	✓
DD									✓	✓
DD+									✓	✓
DTHD									✓	✓
ATMOS										
DTS	✓								✓	✓
DTS 96/24		✓							✓	✓
DTS Express			✓						✓	✓
DTS-HD HR				✓					✓	✓
DTS-HD MSTR					✓				✓	✓
DTS-ES Discrete	✓(*4)					✓			✓	✓
DTS-ES Matrix	✓(*4)						✓		✓	✓
DTS:X								✓		✓



Listening mode Input format	PCM (Multich PCM) (*2)	DSD (*2)(*12)	Mono	Classical / Unplugged / Ent.Show (Entertainment Show) / Drama / AdvancedGame / Action / Rock/Pop / Sports (*7)	Ext.Stereo / Mono Music (*8)	F.S.Surround (Front Stage Surround) (*9)
	2-channel signal input					
Analog / PCM			✓	✓	✓	✓
Music files / DSD (*1)				✓	✓	✓
DD / DD+ / DTHD				✓	✓	✓
DTS / DTS 96/24 / DTS Express / DTS-HD HR / DTS-HD MSTR				✓	✓	✓
Multi-channel signal input						
Multich PCM	✓			✓	✓	✓
DSD (*1)		✓		✓	✓	✓
DD				✓	✓	✓
DD+				✓	✓	✓
DTHD				✓	✓	✓
ATMOS				✓	✓	✓
DTS				✓	✓	✓
DTS 96/24				✓	✓	✓
DTS Express				✓	✓	✓
DTS-HD HR				✓	✓	✓
DTS-HD MSTR				✓	✓	✓
DTS-ES Discrete				✓	✓	✓
DTS-ES Matrix				✓	✓	✓
DTS:X				✓	✓	✓



- (*1) You cannot select any mode other than Pure Direct, Stereo, Ext.Stereo and Mono Music if the sampling rate is 5.6/11.2 MHz.
- (*2) A center speaker or surround speakers need to be installed.
- (*3) If the input source is Blu-ray Disc and the speaker layout is 5.1 ch or less, DD+ cannot be selected. Instead, the listening mode for DD can be selected.
- (*4) This can only be selected when no surround back speaker is connected.
- (*5) Surround back speakers need to be installed.
- (*6) If the input format is any of the following and the number of channels is monaural, this listening mode becomes unavailable.
 - DTS, DTS 96/24, DTS Express, DTS-HD HR, DTS-HD MSTR, PCM, music file
- (*7) Surround speakers or height speakers need to be installed.
- (*8) A center speaker, surround speakers, or height speakers need to be installed.
- (*9) Cannot be selected if "Speaker Virtualizer" (→[p118](#)) is set to "Off".
- (*10) This cannot be selected when height speakers are connected.
- (*11) This cannot be selected when the input format is DTS Express.
- (*12) Cannot be selected when the input format is monaural.
- (*13) The listening mode displayed depends on the speaker layout (→[p160](#)). Furthermore, when the setting for "Speaker Virtualizer" (→[p118](#)) is "Off" (the default value is On), then modes other than  Atmos and  DSur cannot be selected.

Speaker Layouts and Selectable Listening Modes (→[p160](#))



Listening Mode Effects

In alphabetical order

■ Action

Mode suitable for movies with a lot of action scenes.

■ AdvancedGame

Mode suitable for game content.

■ Classical

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

■ Direct/Pure Direct


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.









■ Atmos


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 surround back speakers or 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 6.0/6.1: When front speakers, surround speakers and surround back speakers are installed
-  Atmos 7.0/7.1: When front speakers, center speaker, surround speakers and surround back 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
-  Atmos: Selectable in the "4.1.2 ch" or "5.1.2 ch" setting with surround speakers and height speakers 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" (→ [p118](#)) 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 the 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 the audio output on the player to Bitstream output.

■ DSurr (Dolby Audio - Surr)

This listening mode expands 2 ch or 5.1 ch input signals to 5.1 ch, 7.1 ch or 5.1.2 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.

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

-  DSurr 2.0/2.1: When only front speakers are installed
 -  DSurr 3.0/3.1: When front speakers and center speaker are installed
 -  DSurr 4.0/4.1: When front speakers and surround speakers are installed
 -  DSurr 5.0/5.1: When front speakers, center speaker and surround speakers are installed
 -  DSurr 6.0/6.1: When front speakers, surround speakers and surround back speakers are installed
 -  DSurr 7.0/7.1: When front speakers, center speaker, surround speakers and surround back speakers are installed
 -  DSurr 2.0.2/2.1.2: When front speakers and height speakers are installed
 -  DSurr 3.0.2/3.1.2: When front speakers, center speaker and height speakers are installed
 -  DSurr: Selectable in the "4.1.2 ch" or "5.1.2 ch" setting with surround speakers and height speakers installed.
- When "Speaker Virtualizer" (→ [p118](#)) is set to "Off" (Default: On), modes other than  DSurr 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 the 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 the 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 the 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 the audio output on the player to Bitstream output.

■ DTS-HD HR (DTS-HD High Resolution)

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 the 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 the 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 or 5.1 channels to 5.1 channels or 7.1 channels respectively.

■ 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 height speakers are connected.
- This mode cannot be selected when "Speaker Virtualizer" (→[p118](#)) is set to "Off" (Default: On).

