# SONY

# Home Theatre System

Operating Instructions

# WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To reduce the risk of fire, do not cover the ventilation opening of the appliance with newspapers, tablecloths, curtains, etc. Do not expose the appliance to naked flame sources (for example, lighted candles).

To reduce the risk of fire or electric shock, do not expose this appliance to dripping or splashing, and do not place objects filled with liquids, such as vases, on the appliance.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or appliances with battery-installed to excessive heat, such as sunshine and fire.

Indoor use only.

## Recommended cables

Properly shielded and grounded cables and connectors must be used for connection to host computers and/or peripherals.

## For the Bar Speaker

The nameplate is located on the bottom of the Bar Speaker.

## For the customers in Europe

**Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.**

This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative, Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.



Hereby, Sony Corp., declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL:
http://www.compliance.sony.de/

This product is intended to be used in the following countries.
AT, BE, BG, HR, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IS, IE, IT, LV, LI, LT, LU, MT, NL, NO, PL, PT, RO, SK, SI, ES, SE, CH, GB, AL, BA, MK, MD, RS, ME, Kosovo

5150-5350 MHz band is restricted to indoor operations only.

This equipment has been tested and found to comply with the limits set out in the EMC regulation using a connection cable shorter than 3 meters.

**Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Europe Only

**Pb**

**Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)**

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

# About These Operating Instructions

- The instructions in these Operating Instructions describe the controls on the remote control. You can also use the controls on the Bar Speaker if they have the same or similar names as those on the remote control.
- Some illustrations are presented as conceptual drawings, and may be different from the actual products.
- The items displayed on the TV screen may vary depending on the area.
- The default setting is underlined.
- The text enclosed in brackets ([--]) appears on the TV screen, and the text enclosed in double quotation marks ("-") appears on the front panel display.

# Table of contents

## Additional Information

## Listening/Viewing

# Listening to Sound from a TV, Blu-ray Disc™ Player, Cable/Satellite Box, etc.

**1** **Press HOME.**

The home menu appears on the TV screen.

**2** **Press ♦/♦/♦/♦ to select the desired input, and then press ⊕.**

You can also use INPUT on the remote control.

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**TV display: [TV]**
**Bar Speaker display: "TV"**
Device (TV, etc.) that is connected to the TV (DIGITAL IN (TV)) jack, or a TV that is compatible with the Audio Return Channel function and connected to the HDMI OUT (ARC) jack

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**TV display: [HDMI1]/[HDMI2]/[HDMI3]**
**Bar Speaker display: "HDMI 1"/"HDMI 2"/ "HDMI 3"**
Device that is connected to HDMI IN 1, HDMI IN 2 or HDMI IN 3

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**TV display: [Bluetooth Audio]**
**Bar Speaker display: "BT"**
BLUETOOTH device that supports A2DP (page 11)

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**TV display: [Analog]**
**Bar Speaker display: "ANALOG"**
Device that is connected to the ANALOG IN jack

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**TV display: [USB]**
**Bar Speaker display: "USB"**
USB device that is connected to the ⍦ (USB) port (page 8)

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**TV display: [Screen mirroring]**
**Bar Speaker display: "SCR M"**
Screen mirroring-compatible device (page 18)

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**TV display: [Home Network]**
**Bar Speaker display: "H. NET"**
Content stored on a server (page 17)

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**TV display: [Music Services]**
**Bar Speaker display: "M. SERV"**
Content of music services offered on the Internet (page 19)

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Tip

- You can also press PAIRING and MIRRORING on the remote control to select [Bluetooth Audio] and [Screen mirroring] respectively.

# Playing Music/Photo from a USB Device

You can play music/photo files stored on a connected USB device.
For playable types of files, see "Playable Types of Files" (page 59).

## 1 Connect the USB device to the ⋃ (USB) port.

Refer to the operating instructions of the USB device before connecting.
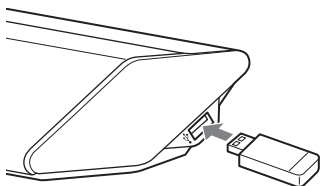
## 2 Press HOME.

The home menu appears on the TV screen.

## 3 Press ♦/♦/♦/♦ to select [USB], and then press ⊕.

## 4 Press ♦/♦ to select ♫ [Music] or 📷 [Photo].

## 5 Select the desired content using ♦/♦/♦/♦ and ⊕.

**Note**

• Do not remove the USB device during operation. To avoid data corruption or damage to the USB device, turn the system off before connecting or removing the USB device.

# Listening to Music from a BLUETOOTH Device

Refer to "BLUETOOTH Functions" (page 11).

# Playing Music/Photo from Other Devices via the Network Function

Refer to "Network Functions" (page 15).

## Sound Adjustment

# Enjoying Sound Effects (Football mode, etc.)

You can easily enjoy pre-programmed sound fields that are tailored to different kinds of sound sources.

## Selecting the Sound Field

**Press SOUND FIELD repeatedly during playback.**

**[ClearAudio+] (Recommended)**
The sound setting is switched automatically according to the sound input.
Select this mode when you want to output 2-channel sound from the surround speakers. Multi-channel sound is output from the speakers as it was recorded.

**[Movie]**
Provides sounds with suitable effects for movies.
This mode allows you to enjoy the recreated density and rich spread of the sound.
The sound output from the speakers is the same as the input sound. A 2-channel sound is not output from the surround speakers.

**[Music]**
Sound effects are optimized for music.
The sound output from the speakers is the same as the input sound. A 2-channel sound is not output from the surround speakers.

**[Game]**
Sound effects are optimized for game play.
The sound output from the speakers is the same as the input sound. A 2-channel sound is not output from the surround speakers.

**[Music Arena]**
Sound effects allow you to enjoy live music concerts filled with great excitement created by Sony's unique Audio DSP technology.

**[Cinema Studio 9.1ch]**
Sound effects allow you to enjoy realistic surround sound as though you were in a cinema.

**[Standard]**
Sound effects are optimized for the individual source.

**Tips**
• You can also press CLEARAUDIO+ to select [ClearAudio+].
• You can not select the sound field when [Sound Effect] is not set to on (page 26).

**To select the sound field from the options menu**

**1** Press OPTIONS and ♠/♣ to select [Sound Field], and then press ⊕.

**2** Press ♠/♣ to select the desired sound field, and then press ⊕.

## Using the Football Mode Function

Sound effects are produced to give you a genuine in-stadium feeling when watching live football broadcasts.

**Press FOOTBALL repeatedly while watching a football match broadcast.**
• [Narration On]: Creates an immersive feeling of being in a football stadium through enhanced stadium cheers.
• [Narration Off]: Creates a more immersive feeling of being in a football stadium by minimizing the volume level of narration in addition to enhancing cheers.
• [Off]: The football mode is turned off.

**Notes**
• We recommend that you select the football mode when watching a football match broadcast.
• If you hear unnatural sound in the content when [Narration Off] is selected, you should use [Narration On].
• The football mode is automatically set to [Off] when you perform the following.
  – Turn off the system.
  – Press any of the sound field buttons (page 58).
• This feature does not support monaural sound.

- You can also select [Football] from the options menu (page 30).
- If 5.1 channel audio stream is available, we recommend that you select it on your TV or cable/satellite box.
- You can not select football mode when [Sound Effect] is not set to on (page 26).

## Using the Night Mode Function

Sound is output at low volume with minimum loss of fidelity and clarity of dialogue.

### Press NIGHT repeatedly.
- [On]: Activates the night mode function.
- [Off]: Deactivates the night mode function.

- You can also select [Night] from the options menu (page 30).

## Using the Voice Function

This helps make dialogues clearer.

### Press VOICE repeatedly.
- [Type 1]: Standard
- [Type 2]: Dialogue range is enhanced.
- [Type 3]: Dialogue range is enhanced, and the parts of range difficult to be discerned by the elderly are boosted.

- You can also select [Voice] from the options menu (page 30).

# Using the DSEE Function (Reproducing Audio Codec Files with Natural Sound Quality)

This function enhances the sound quality of compressed audio files by restoring high-range sound removed by the compression process. You can enjoy listening to something close to its original, natural and spatial sound. This function is only available when [Music] is selected as the sound field.

- Only the fine sound restoration feature of the DSEE function will be applied to PCM audio sources with lossless compression. The DSEE function does not work for DSD (DSDIFF, DSF) format files. The file is expanded to a maximum 96 kHz/24 bit equivalent.
- This function works with 2-channel digital input signals of 44.1 kHz or 48 kHz.
- This function does not work when [Analog] is selected.
- This function does not work when [Transmitter] in [Bluetooth Mode] is selected (page 26).

**1** **Press HOME.**
The home menu appears on the TV screen.

**2** **Select** 🧰 **[Setup] -** 🔊 **[Audio Settings] from the home menu.**

**3** **Select [DSEE].**

**4** **Select [On].**

## BLUETOOTH Functions

# Listening to Music from a BLUETOOTH Device

## Pairing this System with a BLUETOOTH Device



### To pair the system with the device (Pairing)

**1** Press PAIRING.
The indicator (blue) of the Bar Speaker flashes quickly during BLUETOOTH pairing.

**2** Turn on the BLUETOOTH function, and then select "HT-RT5" after searching for it on the BLUETOOTH device.
If a Passkey is requested, enter "0000."

**3** Make sure that the indicator (blue) of the Bar Speaker lights up. (This indicates that a connection has been established.)

### To cancel pairing operation

Press HOME or INPUT.

**Tip**

• Once the BLUETOOTH connection is established, an indication recommending which application to download will be displayed according to what device you have connected.
Following the instructions displayed, an application called SongPal, which will enable you to operate this system, can be downloaded.
Refer to "Controlling the System Using a

Smartphone or Tablet (SongPal)" (page 32) for details on SongPal.

### To listen to sound from the paired device

**1** Press HOME.
The home menu appears on the TV screen.

**2** Select [Bluetooth Audio].
The Bar Speaker is automatically connected with the latest established BLUETOOTH device.

**3** Make sure that the indicator (blue) of the Bar Speaker lights up. (This indicates that a connection has been established.)
If the connection has not been established on the BLUETOOTH device, select "HT-RT5."

**4** Start audio playback with the music software on the connected BLUETOOTH device.

**Note**

• If your BLUETOOTH device is compatible with AVRCP, when this system and the BLUETOOTH device are connected, you can control playback by pressing ►, II, ■, ◄◄/►► and I◄◄/►►I.

## Connecting to a BLUETOOTH Device by One-touch Function (NFC)

By holding an NFC-compatible BLUETOOTH device near to the N mark on the Bar Speaker, the system and BLUETOOTH device will pair and make a BLUETOOTH connection automatically.
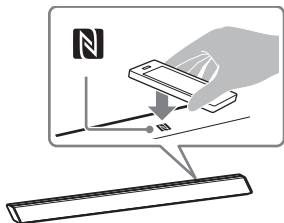


**Compatible devices**
Smartphones, tablets, and music players with the NFC function built-in (OS: Android™ 2.3.3 or later, excluding Android 3.x)

**Notes**

• Depending on your device, you may need to perform the following items on your remote device in advance.
  – Turn on the NFC function.
  – Download the "NFC Easy Connect" application from Google Play™ and start the application. (The application may not be available in some countries/regions.) For details, refer to the operating instructions of your device.
• This feature does not work with BLUETOOTH-compatible receivers (such as headphones). To listen to sound using a BLUETOOTH-compatible receiver, see "Listening to Sound by Transmitting to a BLUETOOTH-compatible Receiver" (page 13).

**1** **Touch the N mark of the Bar Speaker with the BLUETOOTH device.**

**2** **Make sure that the indicator (blue) of the Bar Speaker lights up. (This indicates that a connection has been established.)**

**3** **Start playback of an audio source on the BLUETOOTH device.**

# Listening to Sound by Transmitting to a BLUETOOTH-compatible Receiver

You can listen to sound of the source playing via this system by using a BLUETOOTH-compatible receiver (such as headphones).

## 1 Press HOME.

The home menu appears on the TV screen.

## 2 Select 🧰 [Setup] - 🔵 [Bluetooth Settings] from the home menu.

## 3 Select [Bluetooth Mode].

## 4 Select [Transmitter].

## 5 Turn on BLUETOOTH function on the BLUETOOTH receiver.

## 6 Select the BLUETOOTH receiver's name from the [Device List] in [Bluetooth Settings] (page 26).

When the BLUETOOTH connection is established, the indicator (blue) lights up.
If you cannot find your BLUETOOTH receiver's name in the [Device List], select [Scan].

**Note**

- The [Device List] screen appears after a confirmation dialog when you change [Bluetooth Mode] to [Transmitter] from other modes.

## 7 Return to the home menu and select the desired input.

"BT TX" appears in the front panel display, and the sound is output from the BLUETOOTH receiver.
No sound is output from speakers of the system.

## 8 Adjust the volume.

Adjust the volume level of the BLUETOOTH receiver first. When connected with a BLUETOOTH receiver, volume level of the BLUETOOTH receiver can be controlled with VOLUME +/− on the Bar Speaker and ∠ +/− on the remote control.

**Notes**

- You may not be able to adjust the volume level depending on the BLUETOOTH receiver.
- [Screen mirroring], [Bluetooth Audio] and Home Theatre Control function are disabled when the system is in transmitter mode.
- When input of [Bluetooth Audio] or [Screen mirroring] is selected, you cannot set [Bluetooth Mode] to [Transmitter]. You cannot switch it with RX/TX on the remote control neither.
- You can register up to 9 BLUETOOTH receivers. If a 10th BLUETOOTH receiver is registered, the least recently connected BLUETOOTH receiver will be replaced by the new one.
- The system can display up to 15 detected BLUETOOTH receivers in the [Device List].
- You cannot change the sound effect or settings in the options menu while transmitting sound.
- Some content cannot be output due to content protection.
- Playback on the BLUETOOTH receiver may be delayed compared to playback on the system according to the characteristics of BLUETOOTH wireless technology.
- No sound is output from speakers and HDMI OUT (ARC) jack when a BLUETOOTH receiver is successfully connected to the system.

**BLUETOOTH Functions**

- You can enable or disable the reception of AAC or LDAC audio from the BLUETOOTH device (page 27).
- You can also switch the [Bluetooth Mode] using RX/TX on the remote control. When the BLUETOOTH device in step 5 has finished pairing and that is the most recently connected device, you can connect it to the system automatically by simply pressing RX/TX on the remote control. In this case, you do not need to perform step 6.

## To disconnect the BLUETOOTH receiver

Perform any of the following items.
– Disable the BLUETOOTH function on the BLUETOOTH receiver.
– Set [Bluetooth Mode] to [Receiver] or [Off] (page 26).
– Turn off the system or the BLUETOOTH receiver.
– Select the device name of the connected BLUETOOTH receiver from the [Device List] in [Bluetooth Settings].

## To delete a registered BLUETOOTH receiver from the device list

**1** Follow steps 1 to 6 of "Listening to Sound by Transmitting to a BLUETOOTH-compatible Receiver."

**2** Select the device name, and then press OPTIONS.

**3** Select [Remove], and then press ⊕.

**4** Follow the on-screen instructions to delete the desired BLUETOOTH device from the device list.

# Connecting to a Wired Network

## Connecting the System to the Network Using a LAN Cable

The following illustration is an example configuration of the network.
We recommend a wired connection for stable network functioning.



LAN (100)

Internet

LAN cable (not supplied)

Modem

LAN

LAN cable (not supplied)

Router

LAN

Server
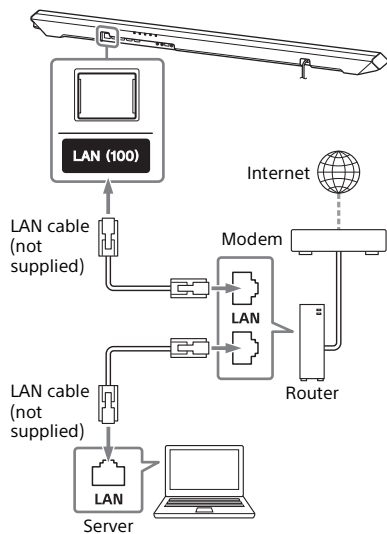
**Tip**

• We recommend that you use a shielded straight interface cable (LAN cable).

## Setting up a Wired Network Connection

You can set up a wired network connection by the following procedure.

**1  Press HOME.**
The home menu appears on the TV screen.

**2  Select 🗄 [Setup] - 🌐 [Network Settings] from the home menu.**

**3  Select [Internet Settings].**

**4  Select [Wired Setup].**
The screen for selecting the IP address acquisition method appears on the TV screen.

**5  Select [Auto].**
The system starts connecting to the network.
The confirmation screen appears.

**6  Press ✦/✦ to browse information, and then press ➡.**

**7  Select [Save & Connect].**
The system starts connecting to the network. For details, refer to the messages that appear on the TV screen.

**If using a fixed IP address**
Select [Custom] in step 5 and follow the on-screen instructions.

**Tip**

• See [Network Connection Status] when checking the network connection status (page 29).

# Connecting to a Wireless Network

## Setting up a Wireless LAN Connection

### Before performing network settings

When your wireless LAN router (access point) is Wi-Fi Protected Setup (WPS)-compatible, you can easily set the network settings with the WPS button. If not, you will be required to select or enter the following information. Check the following information in advance.
• The network name (SSID)* of the wireless LAN router/access point
• The security key (password)** for the network

\* SSID (Service Set Identifier) is a name that identifies a particular access point.

\*\* This information should be available from a label on your wireless LAN router/access point, from the operating instructions, from the person who set up your wireless network, or from the information provided by your Internet service provider.

## 1 Press HOME.
The home menu appears on the TV screen.

## 2 Select 🧳 [Setup] - ⊕ [Network Settings] from the home menu.

## 3 Select [Internet Settings].

## 4 Select [Wireless Setup(built-in)].

## 5 Select [Wi-Fi Protected Setup (WPS)].

## 6 Select [Start].

## 7 Press the WPS button on the access point.
The system starts connecting to the network.

### If selecting the network name (SSID) you want
Select the network name (SSID) you want in step 5, enter the security key (or passphrase) using the software keyboard, and then select [Enter] to confirm the security key. The system starts connecting to the network. For details, refer to the messages that appear on the TV screen.

### If using a fixed IP address
Select [New connection registration] in step 5 and follow the on-screen instructions.

### If using a (WPS) PIN code
Select [New connection registration] in step 5, and then select [(WPS) PIN method].

**Tip**
• See [Network Connection Status] when checking the network connection status (page 29).

# Playing Music/Photo Files on a Home Network

You can play music/photo files on other home network-compatible devices by connecting them to your home network. This system can be used as a player and renderer.
- Server: Stores and shares digital media content
- Player: Finds and plays digital media content from the server
- Renderer: Receives and plays digital media content from the server and can be operated by another device (controller)
- Controller: Operates the renderer device

**Prepare to use the Home Network function.**
- Connect the system to a network.
- Prepare another home network-compatible device. For details, refer to the operating instructions of the device.

## Playing Files Stored on a Server via the System (Player)



Server

Player
(This system)
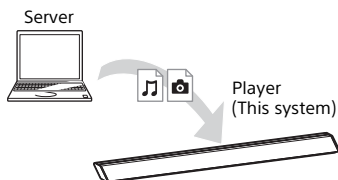
**1** **Press HOME.**
The home menu appears on the TV screen.

**2** **Select [Home Network].**

**3** **Select the desired device.**

**4** **Press ♦/♦ to select ♫ [Music] or 📷 [Photo] and then press ⊕.**

**5** **Select the desired content using ♦/♦/♦/♦ and ⊕.**

## Playing Remote Files by Operating the System (Renderer) via a Home Network Controller

You can operate the system with a home network controller-compatible device (a mobile phone app, etc), when playing files stored on a server.



Server

Renderer
(This system)
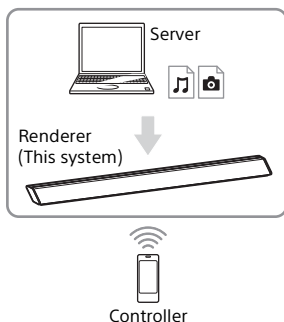
Controller

For details on operation, refer to the operating instructions of the home network controller-compatible device.

**Note**
- Do not operate the system with the supplied remote control and a controller at the same time.

**Tip**
- The system is compatible with the "Play To" function of Windows Media® Player 12, which comes standard with Windows 7.

# Displaying the Screen of the Mobile Device on a TV (Screen mirroring)

[Screen mirroring] is a function to display the screen of a mobile device on the TV by Miracast technology.
The system can be connected directly with a Screen mirroring-compatible device (e.g. smartphone, tablet). You can enjoy using the display screen of the device on your large TV screen. No wireless router (or access point) is required to use this feature.

**1** **Press MIRRORING.**

**2** **Follow the on-screen instructions.**
Activate the Screen mirroring function from your mobile device. For details on how to activate the function, refer to the operating instructions supplied with your mobile device.

## To connect to an Xperia smartphone, etc., using One-touch mirroring function (NFC)

Press MIRRORING, then hold the device, such as an Xperia smartphone, near to the N-Mark on the Bar Speaker.

## To exit mirroring

Press HOME or INPUT.

**Notes**

• When using Screen mirroring, the quality of picture and sound may sometimes be deteriorated due to interference from other networks.
• Depending on the usage environment, the quality of the picture and sound may be deteriorated.
• Some network functions may not be available during Screen mirroring.

• Make sure that your device is compatible with Miracast. Connectivity with all Miracast compatible devices is not guaranteed.

**Tip**

• If you see that the quality of picture and sound is often deteriorated, try setting the [Screen mirroring RF Setting] (page 29).

# Enjoying Various Online Services (Music Services)

You can listen to music services offered on the Internet with this system. To use this function, the system must be connected to the Internet.
The operation below will display a guide to invite you to music services. Follow the guide to enjoy the music services.

## 1 Press HOME.
The home menu appears on the TV screen.

## 2 Select [Music Services].
The music services list appears on the TV screen.

**Tip**

• You can update the service provider list by pressing OPTIONS, followed by select [Update List].

## 3 Select the desired music service.

# Using Google Cast™

Google Cast allows you to select music content from the Google Cast-enabled app and play back on the system.
Google Cast requires the initial setup using SongPal.

## 1 Download free SongPal app to the mobile device such as smartphone.

## 2 Connect the device by Wi-Fi to the same network as that of the system (page 16).

## 3 Start SongPal, select [HT-RT5], and tap [Settings]-[Google Cast]-[Learn how to Cast].

## 4 Check the operation and Google Cast-enabled apps, and download the app.

## 5 Start the Google Cast-enabled app, tap the cast button, and select [HT-RT5].



## 6 Select and play music on the Google Cast-enabled app.
The music is played on the system.

**Note**

• You cannot use Google Cast while "Google Cast Updating" is shown on the front panel display of the Bar Speaker. Wait until the update is complete, and then try again.

# Connecting a 4K TV

To view copyright-protected 4K content and listen to sound from the Bar Speaker, connect the Bar Speaker and the TV via an HDCP 2.2-compatible HDMI jack.
You can only view copyright-protected 4K content through the HDCP 2.2-compatible HDMI jack connection. For details on whether the TV is equipped with HDCP 2.2-compatible HDMI jack, refer to the operating instructions supplied with the TV.

## When the TV's HDMI jack is labeled with ARC* and compatible with HDCP 2.2

HDCP 2.2-compatible HDMI jack

High Speed HDMI cable (not supplied)
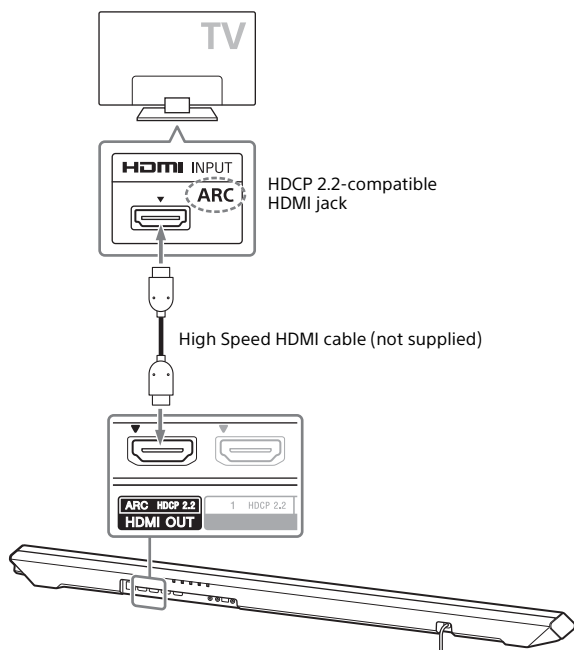
*   ARC (Audio Return Channel)
    The ARC function sends digital sound from a TV to this system, using just an High Speed HDMI cable.

## When the TV's HDMI jack is labeled with ARC and not compatible with HDCP 2.2

If your TV's HDMI jack is labeled with ARC and not compatible with HDCP 2.2, connect the Bar Speaker to your TV's HDMI jack that is compatible with HDCP 2.2 using an High Speed HDMI cable. Then, connect an optical digital cable to the optical output jack of the TV to listen to digital sound.
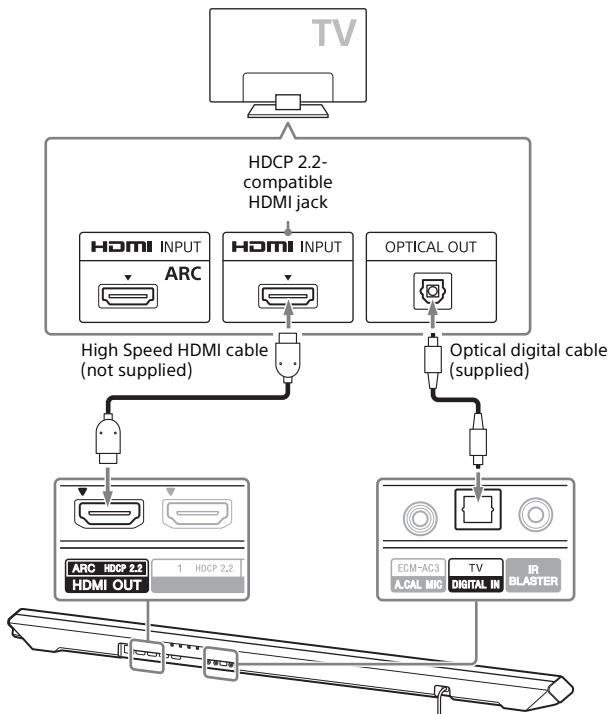
# Connecting 4K Devices

Connect a 4K device to the HDMI IN 1 jack of the Bar Speaker.
For details on whether the device is HDCP 2.2-compatible, refer to the operating instructions supplied with the device.

Blu-ray Disc Player, cable box or satellite box, etc.

HDCP 2.2-compatible HDMI jack

High Speed HDMI cable (not supplied)
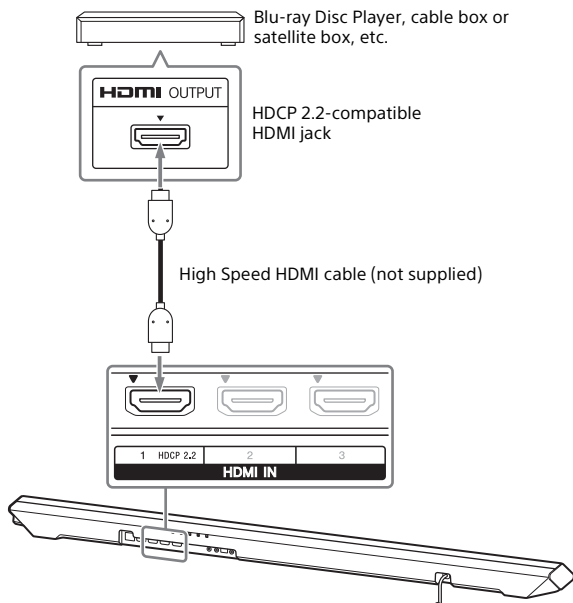
# Using the Setup Display

You can make various adjustments to items such as picture and sound.
The default settings are underlined.

## 1 Press HOME.

The home menu appears on the TV screen.

## 2 Press ↟ to select 🧰 [Setup].

## 3 Press ↟/↡ to select the setup category icon, and then press ⊕.

| Icon | Explanation |
|------|-------------|
| | **[Software Update] (page 24)**<br>Updates the software of the system. |
| | **[Screen Settings] (page 24)**<br>Makes the screen settings according to the type of TV. |
| | **[Audio Settings] (page 25)**<br>Makes the audio settings according to the type of connection jacks. |
| | **[Bluetooth Settings] (page 26)**<br>Makes detailed settings for the BLUETOOTH function. |
| | **[System Settings] (page 27)**<br>Makes the system-related settings. |
| | **[Network Settings] (page 29)**<br>Makes detailed settings for Internet and home network. |
| | **[Input Skip Setting] (page 29)**<br>Sets the input skip setting for each input. |
| | **[Easy Setup] (page 29)**<br>Re-runs the [Easy Setup] to make the basic settings. |
| | **[Easy Network Settings] (page 30)**<br>Runs [Easy Network Settings] to make the basic network settings. |
| | **[Resetting] (page 30)**<br>Resets the system to the factory default settings. |

## ↻ [Software Update]

By updating your software to the latest version, you can take advantage of the newest functions.
During a software update, "UPDT" appears in the front panel display. After the update is complete, the system automatically reboots.
While the updating operation is in progress, do not turn on or off the system or operate the system or TV. Wait for the software update to complete.

**Notes**

- For information about update functions, visit the following website: www.sony.eu/support
- To perform the software update automatically, set the [Auto Update] to [On] (page 28). Depending on the content of the software update, even though [Auto Update] is set to [Off], updating may be performed (page 28).

### ■ [Update via Internet]
Updates the system's software using the available network. Make sure network is connected to the Internet.

### ■ [Update via USB Memory]
Updates software using USB memory. Make sure that the software update folder is correctly named "UPDATE."

## ⚏ [Screen Settings]

### ■ [TV Type]
[16:9]: Select this when connecting to a wide-screen TV or a TV with a wide-mode function.
[4:3]: Select this when connecting to a 4:3 screen TV without a wide-mode function.

### ■ [Output Video Resolution]
[Auto]: Outputs video signal according to the resolution of the TV or connected device.
[480i/576i]*, [480p/576p]*, [720p], [1080i], [1080p]: Outputs video signal according to the selected resolution setting.

* If the color system of the playback content is NTSC, the video signals resolution can be converted to [480i] and [480p] only.

### ■ [24p Output]
[Network content 24p Output]
This function sets the signals output from the HDMI OUT (ARC) jack on the system when using the Screen mirroring function.
[Auto]: Outputs 24p video signals only when you connect a 1080/24p-compatible TV via an HDMI connection and the [Output Video Resolution] is set to [Auto] or [1080p].
[Off]: Select this when your TV is not compatible with 1080/24p video signals.

### ■ [4K Output]
[Auto1]: Outputs 2K (1920 × 1080) video signals during video playback and 4K video signals during photo playback when connected to a 4K-compatible device manufactured by Sony.
Outputs 4K video signals during playback of 24p video content or playback of photos when connected to a device other than 4K-compatible device manufactured by Sony.
This setting does not work for 3D video image playback.
[Auto2]: Automatically outputs 4K/24p video signals when you connect a 4K/24p-compatible device and make the appropriate settings for [Network content 24p Output] in [24p Output], and also outputs 4K/24p photo images when you play 2D photo files.
[Off]: Turns off the function.

• If your device manufactured by Sony is not detected when [Auto1] is selected, the setting will have the same effect as [Auto2] setting.

### ■ [YCbCr/RGB (HDMI)]

[Auto]: Automatically detects the type of external device, and then switches to the matching color setting.
[YCbCr (4:2:2)]: Outputs YCbCr 4:2:2 video signals.
[YCbCr (4:4:4)]: Outputs YCbCr 4:4:4 video signals.
[RGB]: Select this when connecting to a device with an HDCP compliant DVI jack.

### ■ [HDMI Deep Colour Output]

[Auto]: Normally select this.
[12bit], [10bit]: Outputs 12bit/10bit video signals when the connected TV is compatible with Deep Colour.
[Off]: Select this when the picture is unstable or colors appear unnatural.

### ■ [Video Direct]

You can disable the On-Screen Display (OSD) of the Bar Speaker when [HDMI1], [HDMI2] or [HDMI3] input is selected. This function is useful when playing a game, you can fully enjoy the game's screen.
[On]: Disables the OSD. Information will not display on the TV screen and the OPTIONS and DISPLAY buttons will not work.
[Off]: Displays information on the TV screen only when you change the settings, such as when selecting the sound field.

### ■ [SBM] (Super Bit Mapping)

[On]: Smooths the gradation of video signals output from the HDMI OUT (ARC) jack.
[Off]: Select this if video signals are distorted or color is unnatural.

## 🔊 [Audio Settings]

### ■ [DSEE]

This function is only available when [Music] is selected as the sound field.
[On]: Enhance sound quality by restoring high-range sound (page 10).
[Off]: Off

### ■ [Audio DRC]

You can compress the dynamic range of the sound track.
[Auto]: Automatically compresses sound encoded in Dolby TrueHD.
[On]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.
[Off]: No compression of dynamic range.

### ■ [Attenuation settings - Analog]

Distortion may occur when you listen to a device connected to the ANALOG IN jack. You can prevent distortion by attenuating the input level on the system.
[On]: Attenuates the input level. The output level will decrease at this setting.
[Off]: Normal input level.

### ■ [Audio Output]

You can select the output method used for audio signal output.
[Speaker]: Outputs multi-channel sound from the system's speakers only.
[Speaker+HDMI]: Outputs multi-channel sound from the system's speakers and 2-channel linear PCM signals from the HDMI OUT (ARC) jack.
[HDMI]: Outputs sound from the HDMI OUT (ARC) jack only. Sound format depends on the connected device.

**Notes**

• When [Control for HDMI] is set to [On] (page 27), [Audio Output] is set to [Speaker+HDMI] automatically and this setting cannot be changed.

• Audio signals are not output from the HDMI OUT (ARC) jack when [Audio Output] is set to [Speaker+HDMI] and [HDMI1 Audio Input Mode] (page 28) is set to [TV]. (Europe models only)

## ■ [Sound Effect]

You can turn on or off the system's sound effects (SOUND FIELD setting (page 9)). For a 2-channel source, you can select [Dolby Pro Logic], [DTS Neo:6 Cinema], or [DTS Neo:6 Music] to simulate surround sound.

[Sound Field On]: Enables the surround effect of the sound field (page 9) and the football mode (page 9).

[Dolby Pro Logic]: The systems simulates surround sound from 2-channel sources and outputs sound from all speakers (5.1 channel) (Dolby Pro Logic decoding).

[DTS Neo:6 Cinema]/[DTS Neo:6 Music]: The system simulates surround sound from 2-channel sources and produces multi-channel sound (DTS Neo:6 Cinema/ DTS Neo:6 Music mode decoding).

[2ch Stereo]: This system outputs the sound from the front left/right speakers and subwoofer only.

Multi-channel surround formats are downmixed to 2-channel.

[Off]: The sound effects are disabled. You can hear sound as it is recorded.

## ■ [Speaker Settings]

To obtain optimum surround sound, set the speakers' distance from your listening position. For details, see "Setting the Speakers" (page 40).

## ■ [Auto Calibration]

You can calibrate the appropriate settings automatically. For details, see "Calibrating the Appropriate Speaker Settings Automatically" (page 39).

# ✳ [Bluetooth Settings]

## ■ [Bluetooth Mode]

You can enjoy content from a BLUETOOTH device by using this system or listen to sound from this system by using BLUETOOTH receiver such as headphones.

[Receiver]: This system is in receiver mode, which enables it to receive and output audio from the BLUETOOTH device.

[Transmitter]: This system is in transmitter mode, which enables it to send audio to the BLUETOOTH receiver. If you switch the input of the system, "BT TX" appears on the front panel display.

[Off]: BLUETOOTH function is turned off and you cannot select the [Bluetooth Audio] input.

### Note

• You can connect to a BLUETOOTH device by using the One-touch function even if you have set [Bluetooth Mode] to [Off].

## ■ [Device List]

Displays a list of paired and detected BLUETOOTH devices (SNK device) when [Bluetooth Mode] is set to [Transmitter].

## ■ [Bluetooth Standby]

You can set the [Bluetooth Standby] so that the system can be turned on by a BLUETOOTH device even when the system is in standby mode. This function is only available when you set [Bluetooth Mode] to [Receiver] or [Transmitter].

[On]: The system turns on automatically when you establish a BLUETOOTH connection from a paired BLUETOOTH device.

[Off]: Off

## ■ [Bluetooth Codec - AAC]

This function is only available when you set [Bluetooth Mode] to [Receiver] or [Transmitter].
[On]: Enable AAC codec.
[Off]: Disable AAC codec.

**Note**

• You can enjoy high-quality sound if AAC is enabled and your device supports AAC. If you cannot listen to AAC sound with your device, select [Off].

## ■ [Bluetooth Codec - LDAC]

This function is only available when you set [Bluetooth Mode] to [Receiver] or [Transmitter].
[On]: Enable LDAC codec.
[Off]: Disable LDAC codec.

**Note**

• You can enjoy more high-quality sound if LDAC is enabled and your device supports LDAC. If you cannot listen to LDAC sound with your device, select [Off].

## ■ [Wireless Playback Quality]

You can set the transmission data rate of LDAC playback. This function is only available when you set [Bluetooth Mode] to [Transmitter] and [Bluetooth Codec - LDAC] to [On].
[Auto]: The transmission rate is automatically changed depending on the environment. If audio playback is unstable in this mode, use the other three modes.
[Sound Quality]: The highest bit rate is used. Sound is sent in a higher quality; however, audio playback sometimes may become unstable when the link quality is not good enough.
[Standard]: The middle bit rate is used. It balances both sound quality and playback stability.

[Connection]: Stability is prioritized. Sound quality may be reasonable and connection status will most likely be stable. If the connection is unstable, this setting is recommended.

# ⚙ [System Settings]

## ■ [OSD Language]

You can select the language you want for the system on-screen display.

## ■ [Wireless Sound Connection]

You can make further settings for the wireless system. For details, see "Further Setting for the Wireless System (Subwoofer/Surround speakers)" (page 38).

## ■ [IR-Repeater]

[On]: Remote signals for the TV are sent via an IR blaster (page 37).
[Off]: Turns off the function.

## ■ [HDMI Settings]

[Control for HDMI]
[On]: Turns on the [Control for HDMI] function. You can operate mutually between devices that are connected with an HDMI cable.
[Off]: Off
[Audio Return Channel]
This function is available when you connect the system to a TV's HDMI IN jack that is compatible with the Audio Return Channel function and [Control for HDMI] is set to [On].
[Auto]: The system can receive the digital audio signal of the TV automatically via an HDMI cable.
[Off]: Off

[Standby Through]
You can output HDMI signals to the TV even when the system is in standby mode. This function is available when you set [Control for HDMI] to [On].
[Auto]: Outputs signals from the HDMI OUT (ARC) jack when the TV is turned on while the system is in the standby mode. This setting saves power in the standby mode compared to the [On] setting.
[On]: Always output signals from the HDMI OUT (ARC) jack when the system is in standby mode. If you connect a TV other than "BRAVIA," we recommend you to select this setting.
[Off]: No signals are output when system is in standby mode. This setting saves power in the standby mode compared to the [On] setting.
[HDMI1 Audio Input Mode] (Europe models only)
You can select the audio input of the device that is connected to the HDMI IN 1 jack.
[HDMI1]: The sound of the device that is connected to the HDMI IN 1 jack is input from the HDMI IN 1 jack.
[TV]: The sound of the device that is connected to the HDMI IN 1 jack is input from the DIGITAL IN (TV) jack.

■ **[Quick Start/Network Standby]**
[On]: Shortens the startup time from standby mode. You can operate the system quickly after turning it on.
[Off]: Off

■ **[Auto Standby]**
[On]: Turns on the [Auto Standby] function. When you do not operate the system for about 20 minutes, the system enters standby mode automatically.
[Off]: Off

■ **[Auto Display]**
[On]: Automatically displays information on the TV screen when changing the audio signals, picture mode, etc.

[Off]: Displays information only when you press DISPLAY.

■ **[Software Update Notification]**
[On]: Sets the system to inform you of latest software version information (page 24).
[Off]: Off

■ **[Auto Update Settings]**
[Auto Update]
[On]: Software update is executed during 2-5 a.m. local time following the set [Time Zone], and is performed when this system is not in use. If the [Quick Start/Network Standby] setting is set to [Off], updating is performed immediately after the system is turned off.
[Off]: Off
[Time Zone]
Select your region/city.

**Note**

• Depending on the content of the software update, even though [Auto Update] is set to [Off], updating may be performed.
• Software update is performed automatically within 11 days of a new software release.

■ **[Device Name]**
You can change the name of this system according to your preference so that it is more recognizable when using the [Bluetooth Audio] or [Screen mirroring] function. The name is also used with other networks, such as the home network. Follow on-screen instructions and use the software keyboard to enter the name.

■ **[System Information]**
You can display the system's software version information and the MAC address.

■ **[Software License Information]**
You can display the Software License Information.

## ⊕ [Network Settings]

### ■ [Internet Settings]
Connect the system to the network beforehand.
[Wired Setup]: Select this when you connect to a broadband router using a LAN cable.
[Wireless Setup(built-in)]: Select this when you use the built-in Wi-Fi function of the system to connect to a wireless network.

**Tip**
• For further details, visit the following website and check the FAQ:
www.sony.eu/support

### ■ [Network Connection Status]
Displays the current network connection status.

### ■ [Network Connection Diagnostics]
You can run the network diagnostic to check if the network connection has been made properly.

### ■ [Screen mirroring RF Setting]
If you use multiple wireless systems, such as a wireless LAN, the wireless signals may be unstable. In this case, playback stability may be improved by setting the priority radio frequency channel for Screen mirroring.
[Auto]: Normally select this. The system automatically selects the best channel for Screen mirroring.
[CH 1]/[CH 6]/[CH 11]: The selected channel is prioritized for Screen mirroring connection.

### ■ [Connection Server Settings]
Sets whether or not to display the connected home network server.

### ■ [Auto Renderer Access Permission]
[On]: Allows automatic access from a newly detected home network controller.
[Off]: Off

### ■ [Renderer Access Control]
Displays a list of home network controller-compatible products and sets whether or not to accept commands from the controllers in the list.

### ■ [External Control]
[On]: Allows the home automation controller to operate this system.
[Off]: Off

### ■ [Remote Start]
[On]: Allows you to turn on the system by a device linked via a network when the system is in standby mode.
[Off]: The system cannot be turned on by a device linked via a network.

## ⊠ [Input Skip Setting]

The skip setting is a convenient feature that allows you to skip unused inputs when selecting a function by pressing INPUT.
[Do not skip]: The system does not skip the selected input.
[Skip]: The system skips the selected input.

**Note**
• When you press INPUT during the home menu is displayed, input icon appears dimmed if it has been set to [Skip].

## ₁·₂·₃ [Easy Setup]

Run [Easy Setup] to make the basic initial settings and the basic network settings for the system. Follow the on-screen instructions.

## [Easy Network Settings]

Runs [Easy Network Settings] to make the basic network settings. Follow the on-screen instructions.

## [Resetting]

### ◼ [Reset to Factory Default Settings]
You can reset the system settings to the factory default by selecting the group of settings. All the settings within the group will be reset.

### ◼ [Initialise Personal Information]
You can erase your personal information stored on the system.

**Note**

• If you dispose, transfer or resell this system, please delete all Personal Information for security purposes. Please take appropriate measures such as logging out after using a network service.

# Using the Options Menu

Various settings and playback operations are available by pressing OPTIONS. The available items differ depending on the situation.

## Common options

**[A/V SYNC]**
Adjusts the time gap between picture and sound (page 31).

**[Sound Field]**
Changes the sound field setting (page 9).

**[Football]**
Selects the football mode (page 9).

**[Night]**
Selects the night mode (page 10).

**[Voice]**
Selects the voice mode (page 10).

**[Repeat Setting]**
Sets repeat playback.

**[Play/Stop]**
Starts or stops playback.

**[Play from start]**
Plays the item from the beginning.

**[Change Category]**
Switches between the ♫ [Music] and 📷 [Photo] category in [USB] or [Home Network] input. This item only available when the display list is available for the category.

## ♫ [Music] only

**[Shuffle Setting]**
Sets shuffle playback.

**[Add Slideshow BGM]**
Registers music files on the USB memory as slideshow background music (BGM).

## 📷 [Photo] only

**[Slideshow]**
Starts a slideshow.

**[Slideshow Speed]**
Changes the slideshow speed.

**[Slideshow Effect]**
Sets the effect when playing a slideshow.

**[Slideshow BGM]**
• [Off]: Turns off the function.
• [My Music from USB]: Sets the music files registered in [Add Slideshow BGM].

**[Change Display]**
Switches between [Grid View] and [List View].

**[Rotate Left]**
Rotates the photo counterclockwise by 90 degrees.

**[Rotate Right]**
Rotates the photo clockwise by 90 degrees.

**[View Image]**
Displays the selected picture.

## Adjusting the Delay Between the Picture and Sound (A/V SYNC)

When the sound does not match the pictures on the TV screen, you can adjust the delay between the picture and sound for the following inputs.
The setting method differs depending on the input.

### When the [HDMI1], [HDMI2] or [HDMI3] input is selected

**1 Press OPTIONS.**
The options menu appears on the TV screen.

**2 Select [A/V SYNC].**

**3 Adjust the delay using ←/→ and ⊕.**
You can adjust from 0 ms to 300 ms in 25 ms increments.

### When the [TV] input is selected

**1 Press OPTIONS.**
"SYNC" appears in the front panel display.

**2 Press ⊕ or →.**

**3 Adjust the delay using ↑/↓ and ⊕.**
You can adjust from 0 ms to 300 ms in 25 ms increments.

**4 Press OPTIONS.**
The options menu in the front panel display turns off.

Settings and Adjustments

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# Controlling the System Using a Smartphone or Tablet (SongPal)

SongPal is a dedicated app for operating SongPal-compatible audio devices manufactured by Sony using an smartphone or tablet.
Search for SongPal on Google Play or the App Store and download using your smartphone or tablet.

SongPal allows you to...
– change commonly used settings, selecting the input of the system and adjusting the volume.
– enjoy with the system music content stored on a home network server or smartphone.
– enjoy music visually with your smartphone display.
– configure Wi-Fi connection settings easily using SongPal if your Wi-Fi router does not have a WPS function.
– use the SongPal Link function (page 33).

**Notes**

• Before you start to perform the operations below, be sure to set the [Bluetooth Mode] to [Receiver] (page 26).
• This system is compatible with SongPal version 3.0 or later.
• SongPal uses the network function (page 15) and BLUETOOTH function (page 11) of the system.
• Specifications and display design of SongPal change without notice.

## When using an Android Device

**1** **Press I/**⏻ **(on/standby).**
The display of the Bar Speaker lights.

**2** **Search for SongPal with the Android device and download that application.**

**3** **Launch SongPal.**

**4** **Connect the system and the Android device by the BLUETOOTH connection (page 11) or network connection (page 15).**

**Tip**

• You can connect the Android device with the NFC function (page 12).

**5** **Follow the instructions on SongPal.**

## When using an iPhone/iPod touch

**1** **Press I/**⏻ **(on/standby).**
The display of the Bar Speaker lights.

**2** **Search for SongPal with the iPhone/iPod touch and download that application.**

**3** **Launch SongPal.**

**4** **Connect the system and an iPhone/iPod touch by BLUETOOTH connection (page 11) or network connection (page 15).**

**5** **Follow the instructions on SongPal.**

## Listening to the Same Music on Multiple Devices/Listening to Different Music in a Different Location (SongPal Link)

You can enjoy music stored on your computer or smartphone or from music services in multiple rooms at the same time.
Refer to the following for details of SongPal
http://www.sony.net/nasite

# Using the Control for HDMI Function for "BRAVIA" Sync

This function is available on TVs with the "BRAVIA" Sync function.
Operation is simplified with the features below by connecting via an HDMI cable products manufactured by Sony that are compatible with the Control for HDMI function.
You can enable the Control for HDMI function by setting [Control for HDMI] to [On] (page 27).

**Notes**

• To use the "BRAVIA" Sync function, be sure to turn on the system and all connected devices after making the HDMI connection.
• Depending on the settings of the connected device, the Control for HDMI function may not work correctly. Refer to the operating instructions of the device.

### System Power Off

When you turn off the TV, the system and the connected device will turn off automatically.

**Notes**

• The system does not turn off automatically while playing music on this system.
• The interlocking function of system power off may activate with devices of other companies, but it is not guaranteed to operate.

### One-Touch Play

When you play content on a device (Blu-ray Disc Player, "PlayStation®4," etc.) connected to the system with an HDMI cable, the system and TV are turned on automatically and the input of the system is switched to the appropriate HDMI 1/2/3 input.

**Other Functions**

- This feature may not operate with certain devices.
- If you set [Standby Through] to [Auto] or [On] (page 28), and then play back the content on a connected device when the system is in standby mode, sound and image can only be output from the TV while the system remains in standby mode.
- The One-Touch Play function may activate with devices of other companies, but it is not guaranteed to operate.

### System Audio Control

If you turn on the system while you are watching the TV, the TV sound will be output from the speakers of the system automatically.
The volume of the system will be adjusted when you adjust the volume using the TV's remote control.
If the TV sound was output from the speakers of the system the last time you watched the TV, the system will be turned on automatically when you turn on the TV again.
You can also enjoy this feature when using the Twin Picture function (Picture and Picture (P&P)) on your TV.
- If the [TV], [HDMI1], [HDMI2] or [HDMI3] input is selected, the sound can be output from the system.
- If other than [TV], [HDMI1], [HDMI2] or [HDMI3] input is selected, the sound is only output from the TV when using the Twin Picture function. When you turn off the Twin Picture function, the sound is output from the system.

**Notes**

- Depending on the TV, the numbers that indicate the volume is displayed on the TV display. The displayed numbers on the TV display may be different from the numbers on the display window of the Bar Speaker.
- The system audio control function may activate with devices of other companies, but it is not guaranteed to operate.

### Audio Return Channel (ARC)

You can enjoy TV sound via the system by using just one HDMI cable. For details of the setting, see "[Audio Return Channel]" (page 27).

**Note**

- The Audio Return Channel (ARC) function may activate with devices of other companies, but it is not guaranteed to operate.

### Control for HDMI sync function

If you enable the TV function Control for HDMI ("BRAVIA link"), the system's [Control for HDMI] function is enabled automatically.
"DONE" appears in the front panel display when the Easy Setting is completed.

**Notes**

- You can set the [Control for HDMI] function manually if the above setting is not working. For details, see "[HDMI Settings]" (page 27).
- The control for HDMI sync function is a proprietary function of Sony. This function cannot operate with devices other than those manufactured by Sony.

### Echo Canceling Sync

You can reduce the echo when you use the Social Viewing function while watching TV programs. Conversation becomes clearer.
- If the current selected input is [TV], [HDMI1], [HDMI2] or [HDMI3], the input is automatically changed to [TV] input. Sound of the Social Viewing and TV program is output from the system.
- If the current selected input is other than [TV], [HDMI1], [HDMI2] or [HDMI3], the sound of the Social Viewing and the playback content is output from the TV.

**Notes**

- This feature only works for a TV that supports Social Viewing function. For details, refer to the operating instructions of your TV.

- Be sure to set the audio output setting on your TV so that the sound can be output through this system.
- The Echo Canceling Sync function is a proprietary function of Sony. This function cannot operate with devices other than those manufactured by Sony.

### Home Theatre Control

An audio device control application icon is displayed on the TV display.
You can change the settings of the system (such as change an input or sound field) by using the remote control of your TV.

**Notes**

- Your TV must be connected to Internet to use the Home Theatre Control function.
- The Home Theatre Control function is a proprietary function of Sony. This function cannot operate with devices other than those manufactured by Sony.

### Language Follow

When you change the language for the on-screen display of the TV, the system's on-screen display language is also changed after turning off and on the system.

## Notes on HDMI connections

- Use an High Speed HDMI cable (not supplied). If you use a standard HDMI cable, 1080p, Deep Colour, 3D, and 4K content may not be displayed properly.
- Use an HDMI-authorized cable. Use an High Speed HDMI cable (not supplied) manufactured by Sony bearing the logo indicating the cable type.
- We do not recommend using an HDMI-DVI conversion cable.
- Audio signals (sampling frequency, bit length, etc.) transmitted from an HDMI jack may be suppressed by the connected device.
- Sound may be interrupted when the sampling frequency or the number of

channels of audio output signals from the playback device is switched.
- When [TV] input is selected, video signals via one of the HDMI IN 1/2/3 jacks selected last time are output from the HDMI OUT (ARC) jack.
- This system supports Deep Colour, "x.v.Colour," 3D, and 4K transmission.
- To enjoy 3D content, connect a 3D-compatible TV and video device (Blu-ray Disc Player, "PlayStation®4" etc.) to the system using High Speed HDMI cable (not supplied), put on 3D glasses, and then play back a 3D-compatible Blu-ray Disc, etc.
- To enjoy 4K content, the TV and players that are connected to the system must be compatible with 4K content.

# Enjoying multiplex broadcast sound (Dual Mono)

You can enjoy multiplex broadcast sound when the system receives a Dolby Digital multiplex broadcast signal.

**Note**

- To receive a Dolby Digital signal, you need to connect a TV or other devices to the TV (DIGITAL IN) jack with a optical digital cable. If your TV's HDMI IN jack is compatible with the Audio Return Channel function (page 27), you can receive a Dolby Digital signal via an HDMI cable.

**Press AUDIO repeatedly until the signal you want appears in the front panel display.**
- "MAIN": Sound of the main language will be output.
- "SUB": Sound of the sub language will be output.
- "MN/SB": Mixed sound of both the main and sub languages will be output.

# Deactivating Buttons on the Bar Speaker (Child Lock)

You can deactivate buttons on the Bar Speaker (except for I/⏻) for preventing misoperation, such as child mischief.
Be sure to use buttons on the Bar Speaker to perform this operation.

**Press and hold INPUT followed by VOLUME −, VOLUME +, VOLUME − on the Bar Speaker.**
"LOCK" appears in the front panel display.
You can only operate the system by using the remote control.
To cancel, press and hold INPUT followed by VOLUME −, VOLUME +, VOLUME − on the Bar Speaker.
"UNLCK" appears in the front panel display.

# Changing the brightness

You can change the brightness of the front panel display and blue LED indicator.

**Press DIMMER repeatedly.**
You can adjust the brightness in 3 levels.*

* The brightness for "DIM1" and "DIM2" settings are the same.

**Note**

• The front panel display is turned off when "DIM2" is selected. It turns on automatically when you press any buttons/touch keys, then turns off again if you do not operate the system for about 10 seconds. However, in some cases, the front panel display may not turn off.

# Saving Power in Standby Mode

Check that you have made the following settings:
– [Bluetooth Standby] is set to [Off] (page 26).
– [Standby Through] is set to [Off] (page 28).
– [Quick Start/Network Standby] is set to [Off] (page 28).
– [Remote Start] is set to [Off] (page 29).

# Enabling the IR Repeater Function (when you cannot control the TV)

When the Bar Speaker obstructs the remote control sensor of the TV, the TV remote control may not work. In that case, enable the IR repeater function of the system.
You can control the TV with the remote together with the supplied IR blaster.

**Note**

• Be sure to check that the remote control of the TV cannot control the TV, and then set [IR-Repeater] to [On] (page 27). If it is set to [On] when the remote control can control the TV, appropriate operation may not be obtained because of the interference between the direct command from the remote control and the command via the system.

**1** **Connect the supplied IR blaster to the IR BLASTER jack of the Bar Speaker.**
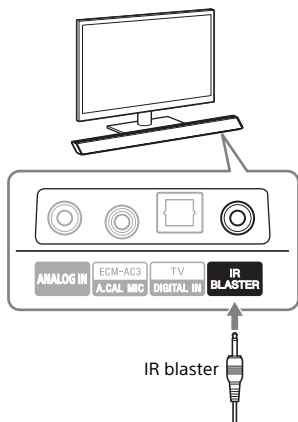
IR blaster

**2** **Place the IR blaster close to the remote control sensor of the TV, aiming the IR emitter of the IR blaster at the remote control sensor of the TV.**

Make sure that the IR repeater function is working before securing the IR blaster on the Bar Speaker with the double-faced adhesive tape supplied.
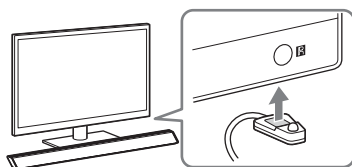
**3** **Press HOME.**

The home menu appears on the TV screen.

**4** **Select 🧰 [Setup] - 📇 [System Settings] from the home menu.**

**5** **Select [IR-Repeater].**

**6** **Select [On].**

**Notes**

• Refer to the operating instructions of your TV for the location of the remote control sensor.
• Connect the IR blaster before connecting the AC power cord (mains lead) of the Bar Speaker.
• Do not connect the IR blaster to a headphone jack, etc. of the TV.
• Do not use the IR blaster for any other purposes.
• On some TVs, this function may not work correctly. In this case, place the Bar Speaker slightly further away from the TV.

Other Functions

**37**GB

# Further Setting for the Wireless System (Subwoofer/Surround speakers)

### For the subwoofer

On/standby indicator



SECURE LINK
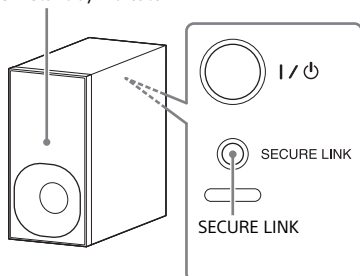
SECURE LINK

### For the surround speakers

On/standby indicator
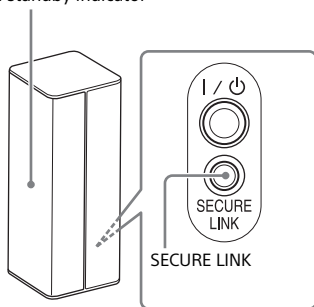


SECURE LINK

## 1 Press HOME.
The home menu appears on the TV screen.

## 2 Select 🛠 [Setup] - 🗒 [System Settings] from the home menu.

## 3 Select [Wireless Sound Connection].
The [Wireless Sound Connection] display appears.

- •[Secure Link]
- •[RF Band]

## Activating Wireless Transmission Between Specific Devices [Secure Link]

You can specify the wireless connection to link the Bar Speaker to the subwoofer and surround speakers using the Secure Link function.
This function can help prevent interference if you use multiple wireless products or your neighbors use wireless products.

## 1 Select [Wireless Sound Connection] in 🗒 [System Settings] (page 38).

## 2 Select [Secure Link].

## 3 Select [On].

## 4 Press SECURE LINK on the rear of the subwoofer and the surround speakers until the indicator turns orange.
Proceed to the next step within a few minutes.

## 5 Select [Start].
To return to the previous display, select [Cancel].

## 6 After the message [Secure Link setting is complete.] appears, press ⊕.
If the message [Cannot set Secure Link.] appears, follow the on-screen instructions.

## To cancel the Secure Link function

**For the Bar Speaker**
Select [Off] on Step 3 above.

**For the subwoofer or the surround speakers**
Press and hold SECURE LINK on the rear of the subwoofer or the surround speakers for several seconds until the on/standby indicator on the subwoofer or the surround speakers turns green or flashes in green.
Be sure to press SECURE LINK with the point of a pen, etc.

## Selecting the Frequency Band [RF Band]

You can select the frequency band.

**1** Select [Wireless Sound Connection] in ⌨ [System Settings] (page 38).

**2** Select [RF Band].

**3** Select the setting you want.
- [Auto]: Normally select this. The system automatically selects the strongest frequency band for transmission.
- [5.2GHz], [5.8GHz]: The system transmits sound according to the selected frequency band.

**Tip**
- We recommend you to set [RF Band] to [Auto].

# Calibrating the Appropriate Speaker Settings Automatically (Auto Calibration)

D.C.A.C. DX (Digital Cinema Auto Calibration DX) brings you the ideal sound experience by automatically adjusting the setting of the speakers' distance, location, and acoustic.

**Notes**
- The system outputs a loud test sound when [Auto Calibration] starts. You cannot turn the volume down. Give consideration to children and neighbors.
- Before [Auto Calibration], make sure that
  – the Bar Speaker, subwoofer and surround speakers are turned on

**1** Press HOME.
The home menu appears on the TV screen.

**2** Press ♦/♦ to select ⭐ [Setup].

**3** Press ♦/♦ to select [Audio Settings], then press ⊕.

**4** Press ♦/♦ to select [Auto Calibration], then press ⊕.
The speaker layout display appears.

**5** Connect the calibration mic to the A.CAL MIC (ECM-AC3) jack on the rear of the Bar Speaker.
Set up the calibration mic at ear level using a tripod, etc. (not supplied). The calibration mic should aim the TV screen. The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.

**6** Press ♦/♦ to select [OK], then press ⊕.
To cancel, select [Cancel].

## 7 Press ⊕.

[Auto Calibration] starts.
The system adjusts the speaker settings automatically.
Be quiet during the measurement.

**Notes**

- Before measurement, make sure that the speaker power is on, and confirm the position of the wireless speakers.
- While [Auto Calibration] is in progress, do not operate the system.

## 8 Confirm the result of [Auto Calibration].

The distance and level for each speaker appear on the TV screen.

**Note**

- If measurement fails, follow the message then retry [Auto Calibration].

## 9 Press ✦/✦ to select [OK] or [Cancel], then press ⊕.

**The measurement is OK.**

Disconnect the calibration mic, then select [OK]. The result is implemented.

**The measurement is not OK.**

Follow the message, then select [OK] to retry.

# Setting the Speakers (Speaker Settings)

To obtain optimum surround sound, set the speakers' distance from your listening position.

## 1 Press HOME.

The home menu appears on the TV screen.

## 2 Press ✦/✦ to select 🧰 [Setup].

## 3 Press ✦/✦ to select [Audio Settings], then press ⊕.

## 4 Press ✦/✦ to select [Speaker Settings], then press ⊕.

## 5 Press ✦/➡/✦/✦ to select the item, then press ⊕.

## 6 Press ✦/✦ to adjust the parameter.

Check the following settings.

### ■ [Distance]

When you move the speakers, be sure to set the parameters of the distance from the listening position to the speakers. You can set the parameters from 0.0 to 7.0 meters.

[Front Left/Right] 3.0 m: Set the front speaker distance.
[Center] 3.0 m: Set the center speaker distance.
[Surround Left/Right] 3.0 m: Set the surround speaker distance.
[Subwoofer] 3.0 m: Set the subwoofer distance.

### ■ [Level]

You can adjust the sound level of the speakers after setting [Auto Calibration]. You can set the parameters from −6.0 dB to +6.0 dB. Be sure to set [Test Tone] to [On] for easy adjustment.

[Front Left/Right] 0.0 dB: Set the front speaker level.

[Center] <u>0.0 dB</u>: Set the center speaker level.
[Surround Left/Right] <u>0.0 dB</u>: Set the surround speaker level.
[Subwoofer] <u>0.0 dB</u>: Set the subwoofer level.
Adjust the sound level based on the default subwoofer volume VOL 10 (page 58).

### x [Relocation]

You can correct the speaker position virtually to improve the surround effect.

[On]: You can hear sound from a virtually relocated speaker position determined by [Auto Calibration].
[<u>Off</u>]: You can hear sound from the actual speaker position.

**Note**

• This setting is only reflected after performing [Auto Calibration].

### x [Test Tone]

The speakers will emit a test tone to adjust [Level].

[<u>Off</u>]: The test tone is not emitted from the speakers.
[On]: The test tone is emitted from each speaker in sequence while adjusting level. When you select one of the [Speaker Settings] items, the test tone is emitted from each speaker in sequence. Adjust the sound level as follows.

**1** Set [Test Tone] to [On].

**2** Press ✦/✦ to select [Level], then press ⊕.

**3** Press ✦/✦ to select the speaker type you want, then press ⊕.

**4** Press ✦/➡ to select the left or right speaker, then press ✦/✦ to adjust the level.

**5** Press ⊕.

**6** Repeat Steps 3 to 5.

**7** Press BACK.
The system returns to the previous display.

**8** Press ✦/✦ to select [Test Tone], then press ⊕.

**9** Press ✦/✦ to select [Off], then press ⊕.

**Notes**

• The test tone signals are not output from the HDMI OUT (ARC) jack.
• If no sound is output from the subwoofer, please check whether the subwoofer volume is not VOL 0.

# Mounting the Bar Speaker and the Surround Speakers on a Wall

You can mount the Bar Speaker and surround speakers on a wall.

**Notes**

- Prepare screws (not supplied) that are suitable for the wall material and strength. As a plasterboard wall is especially fragile, attach the screws securely in the wall beam. Install the speakers horizontally, hung by screws in studs in a continuous flat section of the wall.
- Have the installation done by a Sony dealer or licensed contractor and pay special attention to safety during the installation.
- Sony shall not be held responsible for accidents or damage caused by improper installation, insufficient wall strength, improper screw installation or natural disaster, etc.

**1** **Fix the supplied wall mounting brackets to the bracket fixing holes on the bottom of the Bar Speaker with the supplied screws so that the surface of each wall mounting bracket is as shown in the illustration.**

Fix the two wall mounting brackets to the left and right fixing holes on the bottom of the Bar Speaker.

Screw (supplied)

Wall mounting brackets (supplied)
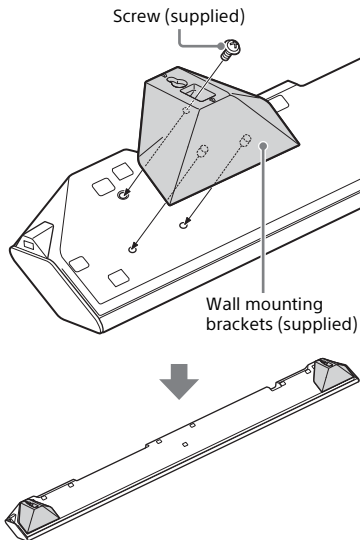
**2** **Prepare screws (not supplied) that are suitable for the holes on the rear of the Bar Speaker or surround speakers.**

4 mm

More than 30 mm

Bar Speaker: 4.6 mm
Surround speakers: 5 mm

10 mm
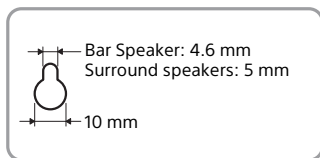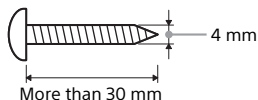
Hole on the rear of the speakers

**3** **Fasten the screws in the wall.**
The screw should protrude as illustration.

**For the Bar Speaker**



940 mm

5 mm to
7 mm

**For the surround speakers**



10 mm to
12 mm
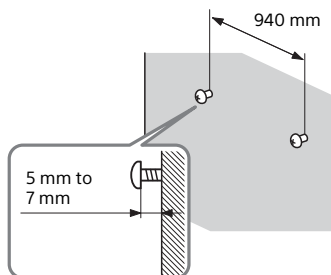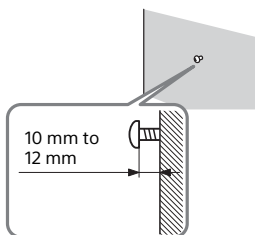
**4** **Hang the Bar Speaker or surround speakers the screws.**
Align the holes at the rear of the speaker with the screws.

**For the Bar Speaker**
Hang the Bar Speaker on the two screws.
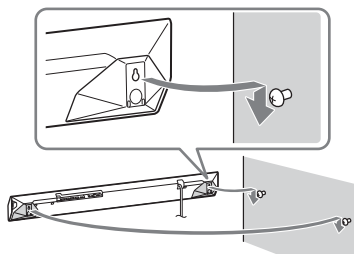


**For the surround speakers**
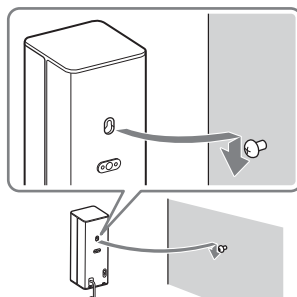
# Precautions

## On safety

• Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
• Do not climb on the Bar Speaker, subwoofer and surround speakers as you may fall down and injure yourself, or system damage may result.

## On power sources

• Before operating the system, check that the operating voltage is identical to your local power supply. The operating voltage is indicated on the nameplate at the rear of the Bar Speaker.
• If you are not going to use the system for a long time, be sure to disconnect the system from the wall outlet (mains). To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
• One blade of the plug is wider than the other for the purpose of safety and will fit into the wall outlet (mains) only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
• AC power cord (mains lead) must be changed only at a qualified service shop.

## On heat buildup

Although the system heats up during operation, this is not a malfunction. If you continuously use this system at high volume, the system temperature at the rear and bottom rises considerably. To avoid burning yourself, do not touch the system.

## On placement

• Place the system in a location with adequate ventilation to prevent heat buildup and prolong the life of the system.
• Do not place the system near heat sources or in a place subject to direct sunlight, excessive dust, or mechanical shock.

• Do not place anything at the rear of the Bar Speaker, subwoofer and surround speakers that might block the ventilation holes and cause malfunctions.
• If the system is being used in combination with a TV, VCR, or tape deck, noise may result and picture quality may suffer. In such a case, place the system away from the TV, VCR, or tape deck.
• Use caution when placing the system on a surface that has been specially treated (with wax, oil, polish, etc.), as staining or discoloration of the surface may result.
• Take care to avoid any possible injury from the corners of the Bar Speaker, subwoofer and surround speakers.
• Keep 3 cm or more space under the Bar Speaker when you hang it on a wall.

## On operation

Before connecting other devices, be sure to turn off and unplug the system.

## If you encounter color irregularity on a nearby TV screen

Color irregularities may be observed on certain types of TV sets.

## If color irregularity is observed...

Turn off the TV set, then turn it on again after 15 to 30 minutes.

## If color irregularity is observed again...

Place the system further away from the TV set.

## On cleaning

Clean the system with a soft, dry cloth. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.
If you have any question or problem concerning your system, please consult your nearest Sony dealer.

## Disclaimer regarding services offered by third parties

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## Notes on updating

This system allows you to update the software automatically when connected to the Internet via a wired or wireless network. You can add new features and use the system with more convenience and safety by updating the system.
If you do not want to update automatically, you can disable the function by using SongPal installed on your smartphone or tablet. However, the system may update the software automatically for reasons such as safety, even if this function is disabled. You can also update the software using the settings menu when this function is disabled. Refer to "Using the Setup Display" (page 23) for details.
You may not use the system while the software is being updated.

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\* excluding DSD format contents

\** in comparison with SBC (Subband Coding) when the bitrate of 990 kbps (96/48 kHz) or 909 kbps (88.2/44.1 kHz) is selected

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# Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.
Be sure to bring both your Bar Speaker and subwoofer, even if it seems as though only one has a problem, when you request to repair.

## Power

**The system does not power up.**
→ Check that the AC power cord (mains lead) is connected securely.
→ Disconnect the AC power cord (mains lead) from the wall outlet (mains), and then reconnect after several minutes.

## Picture

**There is no picture or the picture is not output correctly.**
→ Select the appropriate input (page 7).
→ Press and hold INPUT followed by VOLUME +, VOLUME –, VOLUME + on the Bar Speaker to set the output video resolution to the lowest resolution.

**There is no picture when you make an HDMI cable connection.**
→ If you connect a device supporting HDCP 2.2 be sure to connect the device to the HDMI IN 1 jack and the TV to the HDMI OUT (ARC) jack of the system.
→ The system is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant. In this case, check the specifications of the connected device.

→ Disconnect the HDMI cable, then connect it again. Make sure that the cable is firmly inserted.

**3D content from the HDMI IN 1/2/3 jack do not appear on the TV screen.**
→ Depending on the TV or video device, 3D content may not appear. Check the supported HDMI video format (page 63).

**4K content from the HDMI IN 1/2/3 jack do not appear on the TV screen.**
→ Depending on the TV or the video device, 4K content may not appear. Check the video capability and settings of your TV and video device.
→ Use an High Speed HDMI cable (not supplied).

**No image is output from the TV when the system is in standby mode.**
→ When the system enters standby mode, the image from the last selected HDMI device before you turned off the system is displayed. If you are enjoying content from another device, play the content on the device and perform the One-Touch Play operation, or turn on the system to select the HDMI device from which you want to enjoy content.
→ Set [Standby Through] to [On] in [HDMI Settings] (page 28).

**An image is not displayed on the entire TV screen.**
→ Check the setting of [TV Type] in [Screen Settings] (page 24).
→ The aspect ratio on the media is fixed.

**Color irregularity occurs on the TV screen.**
→ If the color irregularity persists, turn off the TV set, and then turn it on again after 15 to 30 minutes.
→ Make sure that no magnetic object (magnetic latch on a TV stand, health care device, toy, etc.) is placed near the system.

**Images from the HDMI jack is distorted.**
→ Video from the device connected to the HDMI jack may be distorted. If this happens, set [Video Direct] to [On] (page 25).

## Sound

**No TV sound is output from the system.**
→ Select [TV] on the home menu (page 7).
→ Depending on the order of turning on the TV and the system, the system may enter muting mode and "Muting" may appear in the front panel display. In this case, turn on the TV first, then the system.
→ Set the speakers setting of the TV (BRAVIA) to Audio System. Refer to the operating instructions of the TV for the TV setting.
→ Check the connection of the HDMI cable, optical digital cable, or audio cable that is connected to the Bar Speaker and the TV (refer to the supplied Startup Guide).
→ Increase the volume on the TV or cancel muting.
→ When a TV compatible with Audio Return Channel (ARC) technology is connected with an HDMI cable, make sure the cable is connected to the HDMI input (ARC) terminal of the TV (refer to the supplied Startup Guide).
→ If the TV is not compatible with Audio Return Channel (ARC) technology, connect the optical digital cable in addition to the HDMI cable in order to output sound (refer to the supplied Startup Guide).
→ Set [Control for HDMI] in the [HDMI Settings] to [On] and set [Audio Return Channel] to [Auto] (page 27).

**The sound is output from both the system and the TV.**
→ Turn off the sound of the system or the TV.

**The TV sound from this system lags behind the image.**
→ Set [A/V SYNC] to [0msec] if it is set to the range between [25msec] and [300msec] (page 31).

**No sound or only very low-level sound of the device connected to the system is heard.**
→ Press ⊿ + on the remote control and check the volume level (page 58).
→ Press 🔇 or ⊿ + on the remote control to cancel the muting function (page 58).
→ Make sure the input source is selected correctly. You should try other input sources by pressing INPUT on the remote control several times (page 7).
→ Check that all the cables and cords of the system and the connected device are firmly inserted.
→ Depending on the audio format, sound may not be output. Make sure that the audio format is compatible with the system (page 60).

**No sound or only very low-level sound is heard from the surround speakers.**
→ Make sure the AC power cord (mains lead) of the surround speakers is connected properly (refer to the supplied Startup Guide).
→ Multi-channel sound which has not been recorded as surround sound is not output from the surround speakers.
→ If you want to output 2-channel sound from the surround speakers, press the CLEARAUDIO+ button of the remote control and set the sound field setting to [ClearAudio+].
→ Depending on the sound source, the sound from the surround speakers may have been recorded with a soft sound effect.

→ Make sure that the on/standby indicator on the surround speakers is lit in green. If not, refer to "No sound is heard from the subwoofer/surround speakers." in "Wireless sound Subwoofer/Surround Speakers" (page 51).

**No sound or only very low-level sound is heard from the subwoofer.**
→ Make sure the AC power cord (mains lead) of the subwoofer is connected properly (refer to the supplied Startup Guide).
→ Press SW ⊿ + on the remote control to increase the subwoofer volume (page 58).
→ Make sure that the on/standby indicator on the subwoofer is lit in green. If not, refer to "No sound is heard from the subwoofer/surround speakers." in "Wireless sound Subwoofer/Surround Speakers" (page 51).
→ The subwoofer is for reproducing bass sound. In the case of input sources that contain very little bass sound components (i.e., a TV broadcast), the sound from the subwoofer may be difficult to hear.

**The surround effect cannot be obtained.**
→ Depending on the input signal and the sound field setting, surround sound processing may not work effectively. The surround effect may be subtle, depending on the program or disc.
→ To play multi-channel audio, check the digital audio output setting on the device connected to the system. For details, refer to the operating instructions supplied with the connected device.

## USB device

**The USB device is not recognized.**
→ Try the following:
① Turn the system off.
② Remove and reconnect the USB device.
③ Turn the system on.
→ Make sure that the USB device is securely connected to the ψ (USB) port (page 8).
→ Check to see if the USB device or a cable is damaged.
→ Make sure that the USB device is on.
→ If the USB device is connected via a USB hub, disconnect it and connect the USB device directly to the Bar Speaker.

## BLUETOOTH

**BLUETOOTH connection cannot be completed.**
→ Make sure that the indicator (blue) of the Bar Speaker is lit (page 11).

| System status | Indicator (blue) status |
|---|---|
| During BLUETOOTH pairing | Flashes quickly |
| The system is attempting to connect with a BLUETOOTH device | Flashes |
| The system has established a connection with a BLUETOOTH device | Lit |
| The system is in BLUETOOTH standby mode (when the system is off) | Unlit |

→ Make sure the BLUETOOTH device to be connected with is turned on and the BLUETOOTH function is enabled.
→ Bring this system and the BLUETOOTH device closer together.
→ Pair this system and the BLUETOOTH device again. You may need to cancel the pairing with this system using your BLUETOOTH device first.

**Connecting cannot be done.**
→ The pairing registration information has been erased. Perform the pairing operation again (page 11).

**Pairing cannot be achieved.**
→ Bring this system and the BLUETOOTH device closer together.
→ Make sure this system is not receiving interference from a wireless LAN device, other 2.4 GHz wireless devices, or a microwave oven. If a device that generates electromagnetic radiation is nearby, move the device away from this system.

**You cannot use the NFC function.**
→ The NFC function does not work with BLUETOOTH-compatible receivers (such as headphones). To listen to sound using a BLUETOOTH-compatible receiver, see "Listening to Sound by Transmitting to a BLUETOOTH-compatible Receiver" (page 13).

**No sound is output from the connected BLUETOOTH device.**
→ Make sure that the indicator (blue) of the Bar Speaker is lit (page 11).
→ Bring this system and the BLUETOOTH device closer together.
→ If a device that generates electromagnetic radiation, such as a wireless LAN device, other BLUETOOTH devices, or a microwave oven is nearby, move the device away from this system.
→ Remove any obstacle between this system and the BLUETOOTH device or move this system away from the obstacle.
→ Reposition the connected BLUETOOTH device.
→ Switch the wireless LAN frequency of any nearby Wi-Fi router or PC to 5 GHz range.
→ Increase the volume on the connected BLUETOOTH device.

## Network connection

**The system cannot connect to the network.**
→ Check the network connection (page 15) and the network settings (page 29).

## Wireless LAN connection

**You cannot connect your PC to the Internet after [Wi-Fi Protected Setup (WPS)] is performed.**
→ The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly.

**The system cannot connect to the network or the network connection is unstable.**
→ Make sure the wireless LAN router is on.
→ Check the network connection (page 15) and the network settings (page 29).
→ Depending on the usage environment (including the wall material), radio wave reception conditions, or obstacles between the system and the wireless LAN router, the possible communication distance may be shortened. Move the system and the wireless LAN router closer to each other.
→ Devices that use a 2.4 GHz frequency band, such as a microwave, BLUETOOTH, or digital cordless device, may interrupt communication. Move the system away from such devices, or turn off such devices.

→ The wireless LAN connection may be unstable depending on the usage environment, especially while using the BLUETOOTH function of the system. In this case, adjust the usage environment.

**The wireless router you want is not shown in the wireless network list.**
→ Press BACK to return to the previous screen, and try [Wireless Setup(built-in)] again (page 16). If the wireless router you want is still not detected, select [New connection registration] from the network list, then select [Manual registration] to input a network name (SSID) manually.

## Wireless sound (Subwoofer/ Surround speakers)

**No sound is heard from the subwoofer/ surround speakers.**
→ Make sure the AC power cord (mains lead) of the subwoofer/surround speakers is connected properly (refer to the supplied Startup Guide).
→ The on/standby indicator on the subwoofer/surround speakers does not light.
  – Make sure the AC power cord (mains lead) of the subwoofer/ surround speakers is connected properly.
  – Press I/⏻ (on/standby) of the subwoofer/surround speakers to turn on the power.
→ The on/standby indicator on the subwoofer/surround speakers flashes slowly in green or lights in red.
  – Move the subwoofer/surround speakers to a location near the Bar Speaker so that the on/standby indicator on the subwoofer/ surround speakers lights in green.
  – Follow the steps in "Further Setting for the Wireless System (Subwoofer/Surround speakers)" (page 38).

  – Check the connection status of the wireless sound system (page 38).
→ The on/standby indicator on the subwoofer/surround speakers flashes quickly in green.
  – Consult your nearest Sony dealer.
→ The on/standby indicator on the subwoofer/surround speakers flashes in red.
  – Press I/⏻ (on/standby) of the subwoofer/surround speakers to turn off the power and check whether the ventilation opening of the subwoofer/surround speakers is blocked or not.
→ The subwoofer is designed for playback of bass sound. When the input source does not contain much of bass sound, as is the case with most TV programs, the bass sound may not be audible.
→ Press SW ∠ + on the remote control to increase the volume of the subwoofer (page 58).

**Sound skips or has noise.**
→ If there is a device nearby that generates electromagnetic waves, such as a wireless LAN or a microwave oven in use, locate the system apart from it.
→ If there is an obstacle between the Bar Speaker and the subwoofer/ surround speakers, move or remove it.
→ Locate the Bar Speaker and the subwoofer/surround speakers as close as possible.
→ Switch the wireless LAN frequency of any nearby Wi-Fi router or PC to 2.4 GHz range.
→ Switch the network connection of the TV or Blu-ray Disc Player from wireless to wired.

## Remote control

**The remote control of this system does not function.**

→ Point the remote control at the remote control sensor on the Bar Speaker (page 54).

→ Remove any obstacles in the path between the remote control and the system.

→ Replace both batteries in the remote control with new ones, if they are weak.

→ Make sure you are pressing the correct button on the remote control.

**TV remote control does not work.**

→ This problem might be solved by enabling the IR repeater function (page 37).

## Others

**The Control for HDMI function does not work properly.**

→ Check the HDMI connection (refer to the supplied Startup Guide).

→ Set up the Control for HDMI function on the TV. Refer to the operating instructions supplied with the TV regarding how to set the TV.

→ Make sure that any device connected is compatible with "BRAVIA" Sync.

→ Check the Control for HDMI settings on the connected device. Refer to the operating instructions supplied with the connected device.

→ If you connect/disconnect the AC power cord (mains lead), wait more than 15 seconds before operating the system.

→ If you connect the audio output of video device with the system using a cable other than an HDMI cable, no sound may be output because of "BRAVIA" Sync. In such a case, set [Control for HDMI] to [Off] (page 27) or connect the cable from the audio output jack of the video device directly to the TV.

→ The type and number of devices that can be controlled by the "BRAVIA" Sync feature is restricted by HDMI CEC standard as follows:
 – Recording devices (Blu-ray Disc recorder, DVD recorder, etc.): up to 3 devices
 – Playback devices (Blu-ray Disc Player, DVD player, etc.): up to 3 devices (including this system)
 – Tuner-related devices: up to 4 devices
 – Audio system (receiver/ headphone): up to 1 device (including this system)

**"PRTCT," "PUSH" and "POWER" flash alternately in the front panel display.**

→ Press I/⏻ (on/standby) to turn off the system. After the indicator disappears, disconnect the AC power cord (mains lead) and make sure nothing is obstructing the ventilation holes of the system.

**"BT TX" appears in the front panel display.**

→ Press RX/TX on the remote control to switch [Bluetooth Mode] to [Receiver]. "BT TX" appears if [Bluetooth Mode] is set to [Transmitter] (page 13). When you press RX/TX on the remote control, [Bluetooth Mode] is switched to [Receiver] and the selected input appears in the front panel display (page 26).

**Sensors of the TV do not work properly.**

→ The Bar Speaker may block some sensors (such as the brightness sensor), the remote control receiver of your TV, the emitter for 3D glasses (infrared transmission) of a 3D TV that supports the infrared 3D glass system, or wireless communication. Move the Bar Speaker away from the TV within a range that allow those parts to operate properly. For the locations of the sensors and remote control receiver, refer to the operating instructions supplied with the TV.

**Buttons of the Bar Speaker do not operate.**

→ Cancel the child lock setting (page 36).

## Reset

If the system still does not operate properly, reset the system as follows:

**1 Press I/⏻ (on/standby) to turn the system on.**

**2 Press HOME.**
The home menu appears on the TV screen.

**3 Select  [Setup] -  [Resetting] from the home menu (page 30).**

**4 Select [Reset to Factory Default Settings].**

**5 Select the menu item you want to reset.**

**6 Select [Start].**

**To cancel resetting**

Select [Cancel] in step 6.

Additional Information

# Guide to Parts and Controls

## Bar Speaker

**Front**
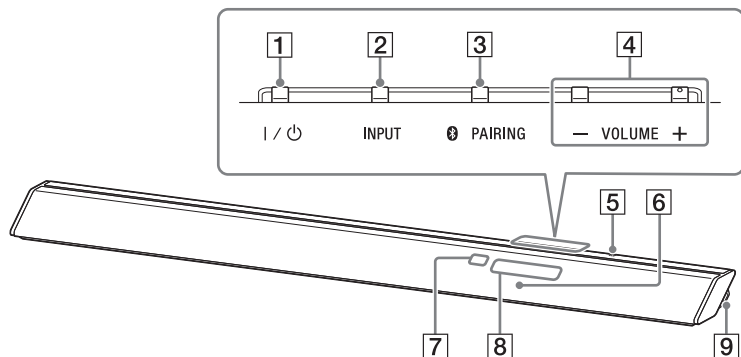


1 **I/⏻ (on/standby) button**
2 **INPUT button**
3 **PAIRING button**
4 **VOLUME +/− buttons**
5 **N mark**
When using the NFC function, touch your NFC device to the mark.

6 **Indicator**
- Flashes quickly (blue): BLUETOOTH pairing in progress.
- Flashes (blue): Attempting to connect with a BLUETOOTH device.
- Lit (blue): BLUETOOTH connection established.

7 **Remote control sensor**
8 **Display**
9 **(USB) port**

**Rear**
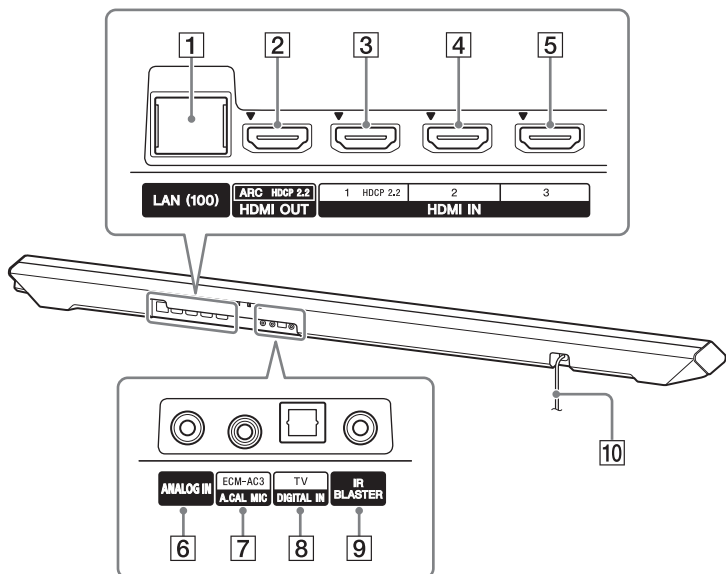


A  **LAN (100) port**
B  **HDMI OUT (ARC) jack**
   This jack supports HDCP 2.2.
C  **HDMI IN 1 jacks**
   This jack supports HDCP 2.2.
D  **HDMI IN 2 jack**
E  **HDMI IN 3 jack**

F  **ANALOG IN jack**
G  **A.CAL MIC (ECM-AC3) jack**
H  **DIGITAL IN (TV) jack**
I  **IR BLASTER jack**
J  **AC power cord (mains lead)**

## Subwoofer
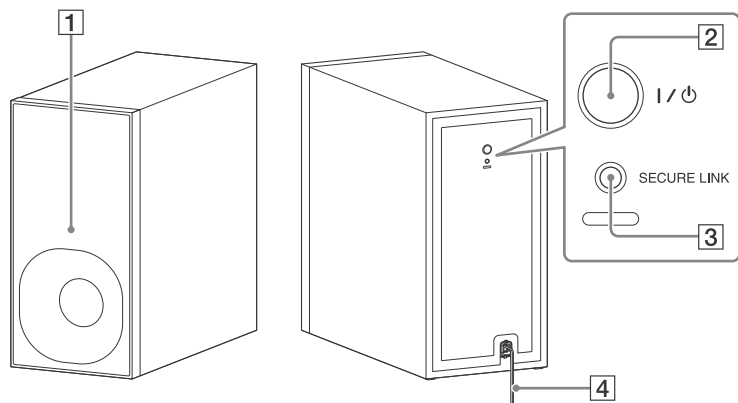


1 On/standby indicator
2 I/⏻ (on/standby) button
3 SECURE LINK button
4 AC power cord (mains lead)

## Surround speaker



A On/standby indicator

B I/ᏸ (on/standby) button

C SECURE LINK button

D AC power cord (mains lead)

## Remote Control
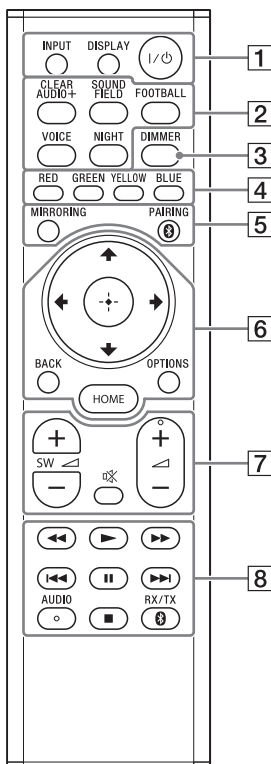


AUDIO, ► and ∠ + buttons have a tactile dot. Use the tactile dot as a reference when operating the remote control.

A **INPUT (page 7)**
Selects the device you want to use.

**DISPLAY**
Displays playback and web browsing information on the TV screen.

**I/⏻ (on/standby)**
Turns on the system or sets it to standby mode.

B **Sound field buttons (page 9)**
Selects sound effect.

**ClearAudio+, Movie, Music, Game, Music Arena, Cinema Studio 9.1ch, Standard**

C **DIMMER (page 36)**
Adjusts the brightness of the front panel display and LED indicator.

D **Color buttons**
Shortcut keys for selecting items on some menus.

E **MIRRORING (page 18)**
Selects [Screen mirroring].

**PAIRING (page 11)**
The system goes into the pairing state.

F **OPTIONS (page 30)**
Displays the options menu on the TV screen or in the front panel display. (The location differs depending on the selected function.)

**BACK**
Returns to the previous display.

**♠/♣/♦/♣**
Moves the highlight to a displayed item.

**⊕ (enter)**
Enters the selected item.

**HOME (page 23)**
Enters or exits the home menu.

G **⊠ (mute)**
Turns off the sound temporarily.

**∠ (volume) +/−**
Adjusts the volume.

**SW ∠ (subwoofer volume) +/−**
Adjusts the volume of the bass sound.

H **Playback operation buttons**
See "Listening/Viewing" (page 7).

**◄◄/►► (rewind/fast forward)**
Searches backward or forward.

**◄◄ /►►I (previous/next)**

Selects the previous/next track or file.

**► (play)**

Starts or re-starts playback (resume play).

**II (pause)**

Pauses or re-starts playback.

**■ (stop)**

Stops playback.

**AUDIO (page 35)**

Selects the audio format.

**RX/TX (receiver/transmitter)**

Switches [Receiver] and [Transmitter] of [Bluetooth Mode] (page 26).

# Playable Types of Files

## Music

| Codec | Extension |
|---|---|
| MP3 (MPEG-1 Audio Layer III)[1] | .mp3 |
| AAC/HE-AAC[1,2] | .m4a, .aac[3] |
| WMA9 Standard[2] | .wma |
| WMA10 Pro[3] | .wma |
| LPCM[1] | .wav |
| FLAC[2] | .flac, .fla |
| Dolby Digital[1,3] | .ac3 |
| DSF[2] | .dsf |
| DSDIFF[2,4] | .dff |
| AIFF[2] | .aiff, .aif |
| ALAC[2] | .m4a |
| Vorbis[3] | .ogg |
| Monkey's Audio[3] | .ape |

## Photo

| Format | Extension |
|---|---|
| JPEG | .jpeg, .jpg, .jpe |
| PNG | .png[5] |
| GIF | .gif[5] |

[1] The system can play ".mka" files. These files cannot be played on a home network server.

[2] The system may not play this file format on a home network server.

[3] The system does not play this file format on a home network server.

[4] The system does not play DST encoded files.

[5] The system does not play animated PNG or animated GIF files.

- Some files may not play depending on the file format, the file encoding, the recording condition, or the home network server condition.
- Some files edited on a PC may not play.
- Fast forward or fast reverse may not be available with some files.
- The system does not play coded files such as DRM and Lossless.
- The system can recognize the following files or folders in USB devices:
  – up to folders in the 9th layer (including the root folder)
  – up to 500 files/folders in a single layer
- The system can recognize the following files or folders stored in the home network server:
  – up to folders in the 19th layer
  – up to 999 files/folders in a single layer
- Some USB devices may not work with this system.
- The system can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Devices (SICDs), and 101-key keyboards.

# Supported Audio Formats

Audio formats supported by this system are as follows.

| Format | Function | |
|---|---|---|
| | **"HDMI1" "HDMI2" "HDMI3"** | **"TV" (DIGITAL IN)** |
| **LPCM 2ch** | ○ | ○ |
| **LPCM 5.1ch** | ○ | – |
| **LPCM 7.1ch** | ○ | – |
| **Dolby Digital** | ○ | ○ |
| **Dolby Digital Plus** | ○ | – |
| **Dolby TrueHD** | ○ | – |
| **DSD** | ○ | – |
| **DTS** | ○ | ○ |
| **DTS-ES Discrete 6.1, DTS-ES Matrix 6.1** | ○ | ○ |
| **DTS96/24** | ○ | ○ |
| **DTS-HD High Resolution Audio** | ○ | – |
| **DTS-HD Master Audio** | ○ | – |
| **DTS-HD LBR** | ○ | – |

○: Supported format.

–: Unsupported format.

Note

- The HDMI IN 1/2/3 jacks do not input sound in the case of an audio format that contains copy protections, such as Super Audio CD or DVD-Audio.

# Specifications

## Bar Speaker (SA-RT5)

### Amplifier section

POWER OUTPUT (rated)
    Front L + Front R: 50 W + 50 W
    (at 4 ohms, 1 kHz, 1% THD)
POWER OUTPUT (reference)
    Front L/Front R speaker blocks: 90 W
    (per channel at 4 ohms, 1 kHz)
    Center speaker block: 90 W
    (at 4 ohms, 1 kHz)

Inputs
    HDMI IN 1*/2/3
    DIGITAL IN (TV)
    ANALOG IN
Output
    HDMI OUT* (ARC)

*   HDMI IN 1 and HDMI OUT (ARC) jacks
    support HDCP 2.2 protocol. HDCP 2.2 is
    newly enhanced copyright protection
    technology that is used to protect content
    such as 4K movies.

### HDMI section

Connector
    Type A (19pin)

### USB section

 (USB) port:
    Type A (For connecting USB memory,
    memory card reader, digital still camera)

### LAN section

LAN (100) terminal
    100BASE-TX Terminal

### Wireless LAN section

Standards Compliance
    IEEE 802.11 a/b/g/n
Frequency band
    2.4 GHz, 5 GHz

### BLUETOOTH section

Communication system
    BLUETOOTH Specification version 3.0
Output
    BLUETOOTH Specification Power Class 1

Maximum communication range
    Line of sight approx. 30 m[1]
Maximum number of devices to be
    registered
    9 devices
Frequency band
    2.4 GHz band (2.4 GHz - 2.4835 GHz)
Modulation method
    FHSS (Freq Hopping Spread Spectrum)
Compatible BLUETOOTH profiles[2]
    A2DP 1.2 (Advanced Audio Distribution
    Profile)
    AVRCP 1.5 (Audio Video Remote Control
    Profile)
Supported Codecs[3]
    SBC[4], AAC[5], LDAC
Transmission range (A2DP)
    20 Hz - 20,000 Hz (Sampling frequency
    44.1 kHz)

[1] The actual range will vary depending on
    factors such as obstacles between devices,
    magnetic fields around a microwave oven,
    static electricity, cordless phone use,
    reception sensitivity, the operating system,
    software applications, etc.
[2] BLUETOOTH standard profiles indicate the
    purpose of BLUETOOTH communication
    between devices.
[3] Codec: Audio signal compression and
    conversion format
[4] Subband Codec
[5] Advanced Audio Coding

Additional Information

### Front L/Front R speaker blocks

Speaker system
　　2-way speaker system, Acoustic
　　suspension
Speaker
　　Woofer: 60 mm cone type
　　Tweeter: 19 mm soft dome type

### Center speaker block

Speaker system
　　Full range speaker system, Acoustic
　　suspension
Speaker
　　Woofer: 60 mm cone type

### General

Power requirements
　　220 V - 240 V AC, 50 Hz/60 Hz
Power consumption
　　On: 50 W
　　Standby mode: 0.5 W or less (For details
　　on the setting see page 36)
　　5.6 W (When [Bluetooth Standby],
　　[Remote Start], [Quick Start/Network
　　Standby] and [Control for HDMI] are set
　　to [On], and [Standby Through] is set to
　　[Auto] when TV is not connected.)
Dimensions (approx.) (w/h/d)
　　1,080 mm × 56 mm × 128 mm (without
　　wall mounting brackets)
　　1,080 mm × 127 mm × 91 mm (with wall
　　mounting brackets)
Mass (approx.)
　　3.8 kg

## Subwoofer (SA-WRT5)

POWER OUTPUT (reference)
　　140 W (at 4 ohms, 80 Hz)
Speaker system
　　Subwoofer system, Bass reflex
Speaker
　　160 mm cone type
Power requirements
　　220 V - 240 V AC, 50 Hz/60 Hz
Power consumption
　　On: 20 W
　　Standby mode: 0.5 W or less
Dimensions (approx.) (w/h/d)
　　191 mm × 383 mm × 386 mm
Mass (approx.)
　　8.5 kg

## Surround speakers SA-SLRT5 (L)/SA-SRRT5 (R)

POWER OUTPUT (reference)
　　70 W (at 4 ohms, 1 kHz)
Speaker system
　　Full range speaker system, Bass reflex
Speaker
　　65 mm cone type, Full range speaker
Power requirements
　　220 V - 240 V AC, 50 Hz/60 Hz
Power consumption
　　On: 15 W
　　Standby mode: 0.5 W or less
Dimensions (w/h/d) (approx.)
　　97 mm × 252 mm × 97 mm (projecting
　　parts not included)
Mass (approx.)
　　1.5 kg

## Wireless transmitter/receiver section

Communication system
　　Wireless Sound Specification version 3.0
Frequency band
　　5.2 GHz (5.180 GHz - 5.240 GHz)
　　5.8 GHz (5.736 GHz - 5.814 GHz)
Modulation method
　　DSSS

## Compatible iPod/iPhone models

The compatible iPod/iPhone models are
as follows. Update your iPod/iPhone with
the latest software before using with the
system.

BLUETOOTH technology works with:
iPhone 6 Plus/iPhone 6/iPhone 5s/
iPhone 5c/iPhone 5/iPhone 4s/iPhone 4/
iPhone 3GS
iPod touch (5th generation)/iPod touch
(4th generation)

## Video formats supported by the system Input/Output (HDMI Repeater block)

| Format | 2D | 3D | | |
|---|---|---|---|---|
| | | Frame packing | Side-by-Side (Half) | Over-Under (Top-and-Bottom) |
| 4096 × 2160p @ 59.94/60 Hz[1] | ○ | – | – | – |
| 4096 × 2160p @ 50 Hz[1] | ○ | – | – | – |
| 4096 × 2160p @ 23.98/24 Hz[2] | ○ | – | – | – |
| 3840 × 2160p @ 59.94/60 Hz[1] | ○ | – | – | – |
| 3840 × 2160p @ 50 Hz[1] | ○ | – | – | – |
| 3840 × 2160p @ 29.97/30 Hz[2] | ○ | – | – | – |
| 3840 × 2160p @ 25 Hz[2] | ○ | – | – | – |
| 3840 × 2160p @ 23.98/24 Hz[2] | ○ | – | – | – |
| 1920 × 1080p @ 59.94/60 Hz | ○ | – | ○ | ○ |
| 1920 × 1080p @ 50 Hz | ○ | – | ○ | ○ |
| 1920 × 1080p @ 29.97/30 Hz | ○ | ○ | ○ | ○ |
| 1920 × 1080p @ 25 Hz | ○ | ○ | ○ | ○ |
| 1920 × 1080p @ 23.98/24 Hz | ○ | ○ | ○ | ○ |
| 1920 × 1080i @ 59.94/60 Hz | ○ | ○ | ○ | ○ |
| 1920 × 1080i @ 50 Hz | ○ | ○ | ○ | ○ |
| 1280 × 720p @ 59.94/60 Hz | ○ | ○ | ○ | ○ |
| 1280 × 720p @ 50 Hz | ○ | ○ | ○ | ○ |
| 1280 × 720p @ 29.97/30 Hz | ○ | ○ | ○ | ○ |
| 1280 × 720p @ 23.98/24 Hz | ○ | ○ | ○ | ○ |
| 720 × 480p @ 59.94/60 Hz | ○ | – | – | – |
| 720 × 576p @ 50 Hz | ○ | – | – | – |
| 640 × 480p @ 59.94/60 Hz | ○ | – | – | – |

[1] YCbCr 4:2:0/Supports 8-bit only
[2] Supports 8-bit only

Design and specifications are subject to change without notice.

# On BLUETOOTH Communication

- BLUETOOTH devices should be used within approximately 10 meters (unobstructed distance) of each other. The effective communication range may become shorter under the following conditions.
  - When a person, metal object, wall or other obstruction is between the devices with a BLUETOOTH connection
  - Locations where a wireless LAN is installed
  - Around microwave ovens that are in use
  - Locations where other electromagnetic waves occur
- BLUETOOTH devices and wireless LAN (IEEE 802.11b/g) use the same frequency band (2.4 GHz). When using your BLUETOOTH device near a device with wireless LAN capability, electromagnetic interference may occur. This could result in lower data transfer rates, noise, or inability to connect. If this happens, try the following remedies:
  - Use this system at least 10 meters away from the wireless LAN device.
  - Turn off the power to the wireless LAN device when using your BLUETOOTH device within 30 meters.
  - Install this system and BLUETOOTH device as closer to each other as possible.
- The radio waves broadcast by this system may interfere with the operation of some medical devices. Since this interference may result in malfunction, always turn off the power on this system and BLUETOOTH device in the following locations:
  - In hospitals, on trains, in airplanes, at gas stations, and any place where flammable gasses may be present
  - Near automatic doors or fire alarms
- This system supports security functions that comply with the BLUETOOTH specification to ensure secure connection during communication using BLUETOOTH technology. However, this security may be insufficient depending on the setting content and other factors, so always be careful when performing communication using BLUETOOTH technology.
- Sony cannot be held liable in any way for damages or other loss resulting from information leaks during communication using BLUETOOTH technology.
- BLUETOOTH communication is not necessarily guaranteed with all BLUETOOTH devices that have the same profile as this system.
- BLUETOOTH devices connected with this system must comply with the BLUETOOTH specification prescribed by the Bluetooth SIG, Inc., and must be certified to comply. However, even when a device complies with the BLUETOOTH specification, there may be cases where the characteristics or specifications of the BLUETOOTH device make it impossible to connect, or may result in different control methods, display or operation.
- Noise may occur or the audio may cut off depending on the BLUETOOTH device connected with this system, the communications environment, or surrounding conditions.

If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

# Index

## Numerics

## A

## B

## C

## D

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## F

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## H

## I

**Additional Information**

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