

Home Theatre System

Operating Instructions

Getting Started

Operations and Features

BLUETOOTH Function

Surround Function

Advanced Settings

Additional Information

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.

For the Sound Bar (SA-CT660)

The nameplate and the date of manufacture marking are located on the rear oblique down-facing surface.

Recommended cables

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

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/>



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.



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.

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 Sound Bar or the subwoofer, 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 Sound Bar.
- 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 the 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 a large volume, the system temperature of the back 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 Sound Bar 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 this case, place the system away from the TV, VCR, or tape deck.
- Use caution when placing the system on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.
- Take care to avoid any possible injury on the corners of the Sound Bar or the subwoofer.

On operation

Before connecting other equipment, 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.

Copyrights

This system incorporates Dolby* Digital and the DTS** Digital Surround System.

- * Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are trademarks of Dolby Laboratories.
- ** Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

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

This system incorporates High-Definition Multimedia Interface (HDMI™) technology.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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BLUETOOTH wireless technology

Supported BLUETOOTH version and profiles

Profile refers to a standard set of capabilities for various BLUETOOTH product capabilities. See “Specifications” (page 33) on the BLUETOOTH version and profiles supported by this system.

Notes

- For you to use the BLUETOOTH function, the BLUETOOTH device to be connected must support the same profile as this system. Even if the device supports the same profile, the functions may differ because of the specifications of the BLUETOOTH device.
- The audio playback on this system may be delayed from that on the BLUETOOTH device because of the characteristics of the BLUETOOTH wireless technology.

Effective communication range

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

Effects of other devices

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:

- Try connecting this system and BLUETOOTH mobile phone or BLUETOOTH device when you are at least 10 meters away from the wireless LAN equipment.
- Turn off the power to the wireless LAN equipment when using your BLUETOOTH device within 10 meters.

Effects on other devices

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, BLUETOOTH mobile phone 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

Notes

- This system supports security functions that comply with the BLUETOOTH specification as a means of ensuring security during communication using BLUETOOTH technology. However, this security may be insufficient depending on the setting contents 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.

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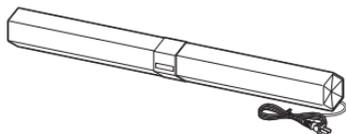
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Unpacking

- Subwoofer (SA-WCT660) (1)



- Sound Bar (SA-CT660) (1)



- Digital optical cable for a TV (1)
- Side stand (for front-facing installation) (2)



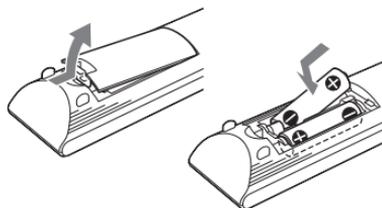
- Side stand (for upward-tilting installation) (2)



- Remote control (RM-ANP106) (1)
- R6 (size AA) batteries (2)
- Operating Instructions (1)

Inserting batteries into the remote control

Insert two R6 (size AA) batteries (supplied) by matching the \oplus and \ominus ends on the batteries to the diagram inside the battery compartment of the remote control. To use the remote control, point it at the remote control sensor **R** at the front of the Sound Bar.



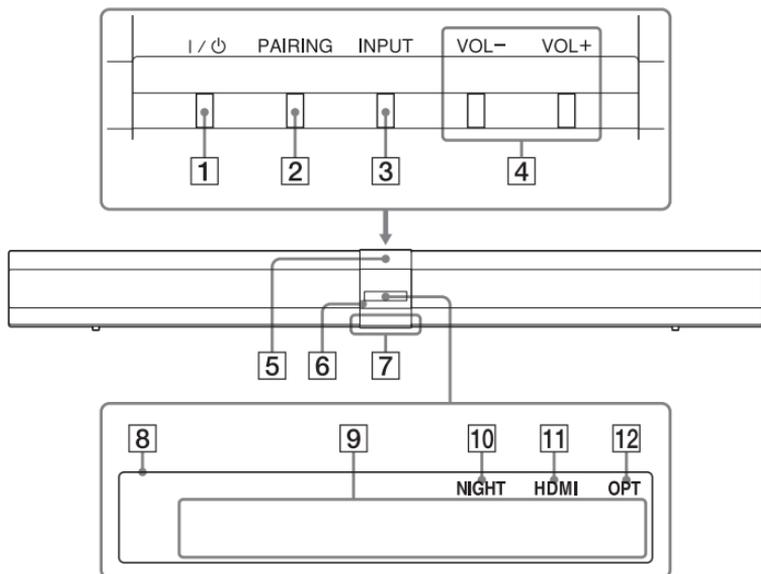
Notes

- Do not leave the remote control in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not drop any foreign object into the remote control casing, particularly when replacing the batteries.
- Do not expose the remote control sensor to direct sunlight or lighting apparatus. Doing so may cause a malfunction.
- If you do not intend to use the remote control for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Index to parts and controls

For more information, see the pages indicated in parentheses.

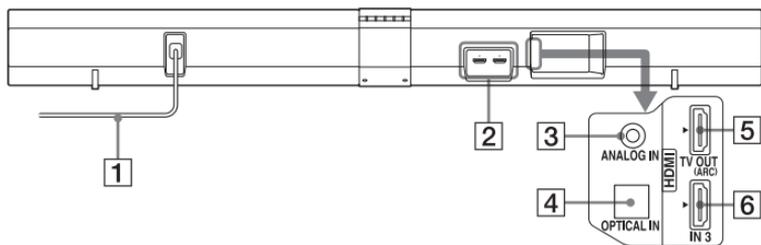
Sound Bar



- 1 I/⏻ (on/standby) button**
- 2 PAIRING button (page 22)**
- 3 INPUT button**
Press to select the input source to play back.
- 4 VOL (volume) +/- buttons**
- 5 N mark**
- 6  (remote control sensor)**
- 7 Illumination LED**
Lights up in white when the system is on.
Lights up in blue in BLUETOOTH mode.
- 8 Front panel display**
- 9 Message display area**
Displays volume, selected input source, etc.
- 10 NIGHT (page 27)**
Lights up in NIGHT mode.
- 11 HDMI**
Lights up when an HDMI signal is selected as the input source.
- 12 OPT**
Lights up when the signal from the OPTICAL IN jack is selected.

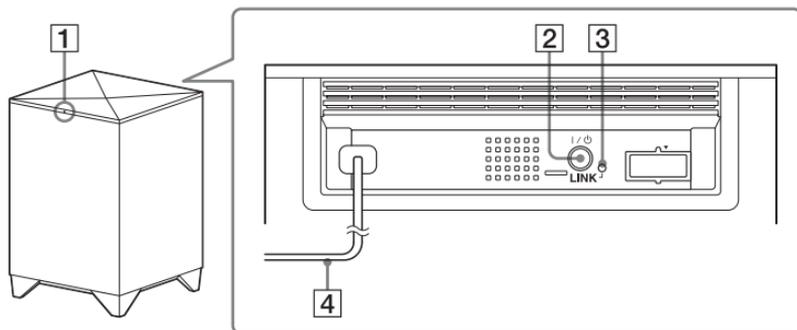
continued

Jacks (on the rear of Sound Bar)



- 1 AC power cord (mains lead) (page 13)
- 2 HDMI IN 1/IN 2 jacks (page 13)
- 3 ANALOG IN jack (page 14)
- 4 OPTICAL IN jack (page 13, 14)
- 5 HDMI TV OUT (ARC) jack (page 13)
- 6 HDMI IN 3 jack (page 13)

Subwoofer



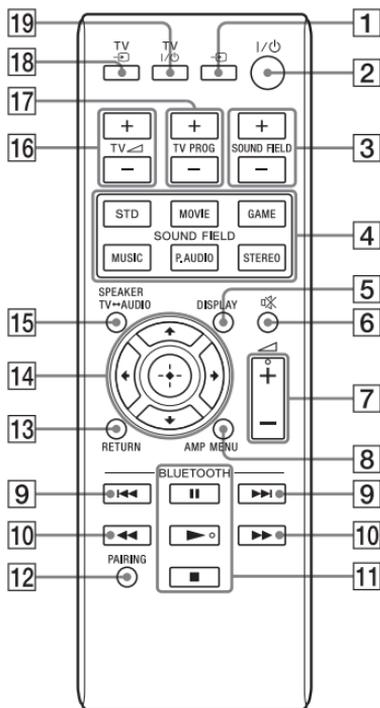
- 1 I/⏻ (on/standby) indicator
- 2 I/⏻ (on/standby) button
- 3 LINK button (page 29)
- 4 AC power cord (mains lead) (page 13)

Remote control

This section describes how to operate the subwoofer, Sound Bar, and connected equipment using the remote control supplied. If you cannot operate the connected equipment, use the remote control of the equipment.

Note

- Point the remote control towards the remote control sensor (📡) of the Sound Bar.



- * The **▶** and **◀** + buttons have a tactile dot. Use it as a guide during operation.

To control the system

- 1 **📡 (input) (page 18)**
Press to select the equipment you want to use.
- 2 **I/O (on/standby)**
- 3 **SOUND FIELD +/- (page 25)**
- 4 **SOUND FIELD (page 25)**
- 5 **DISPLAY**
Each time you press the button, the display turns on or off. When the system is operated, the display is lit for several seconds.
- 6 **🔇 (muting)**
- 7 **◀ (volume) +/-**
- 8 **AMP MENU (page 26)**
- 12 **PAIRING (page 22)**
- 13 **RETURN button**
Returns to the previous screen of any displayed menu.
- 14 **← (return)/↑ ↓ (select)/ → (proceed) or ⊕ (enter)**
Press **←**, **↑**, **↓** or **→** to select the menu items. Then press **⊕** to enter the selection.
- 15 **SPEAKER TV ↔ AUDIO**
Press to switch the output sound (TV or this system) from the speakers.

To control a TV

- 16 **TV ◀ (volume) +/-**
Adjusts the volume.
- 17 **TV PROG (program) +/-**
Selects the next (+) or previous (-) channel.
- 18 **TV INPUT**
Selects input.
- 19 **TV I/O (on/standby)**
Turns on or off the TV that the remote control is assigned to operate.

continued

To control a BLUETOOTH device

9

To go to the beginning of the previous or next music.

10

To fast reverse or to fast forward the music when pressed during playback.

11 Playback operation

* (playback)/ (pause)/
 (stop)

Starts/pauses/stops playback. To resume normal playback during pause, press  (pause) again.

Note

The above explanations are intended to serve as an example only. Depending on the equipment, the above operations may not be possible, or may operate differently than described.

Setting manufacturer of controllable TVs

- 1 While holding down the TV I/⏻ button, press the button corresponding to the manufacturer.

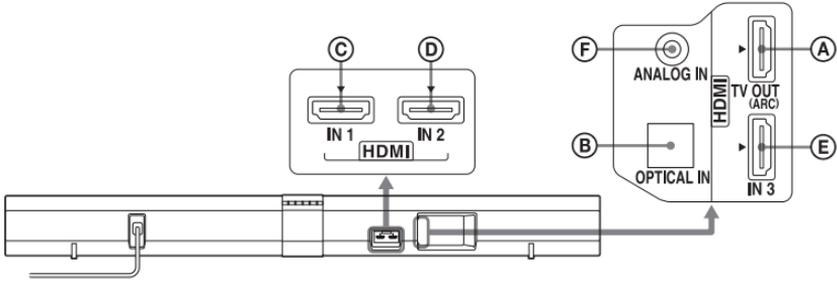
Manufacturer	Button
SONY	 TV  +
Samsung	 TV PROG +
	 SOUND FIELD +
	 GAME
LG	 SOUND FIELD +
Panasonic	 TV  -
Philips	 TV PROG -
	 MOVIE
	 GAME
Sharp	 SOUND FIELD -
Toshiba	 STD

- 2 While keeping TV I/⏻ held down, press .

- 3 Release TV I/⏻.

Connecting a TV, player, etc.

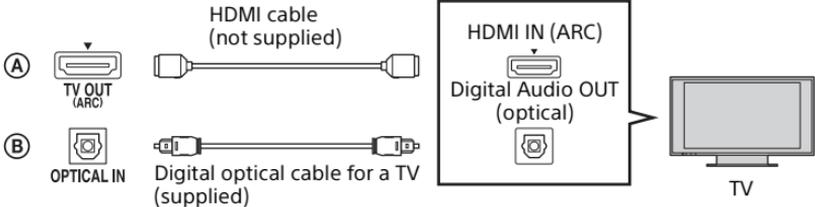
Before connecting the AC power cord (mains lead) to a wall outlet (mains), connect all other equipment and a TV to the system. No cable connection is required between the Sound Bar and the subwoofer because they can be connected wirelessly.



Connecting a TV

If you connect the system to a TV compatible with the Audio Return Channel (ARC) technology via an HDMI input jack with "ARC" indicated, you do not need to connect a digital optical cable.

If the digital optical cable has a cap, remove it before connecting the cable.



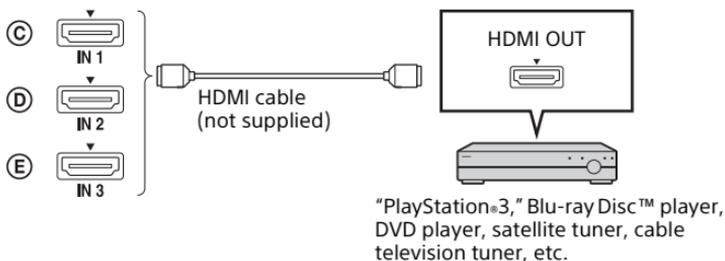
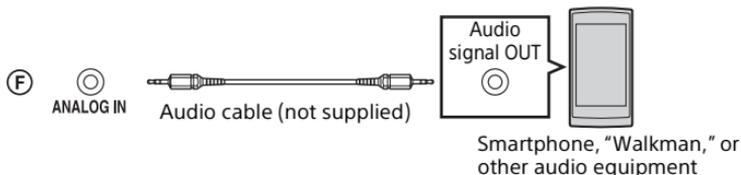
Notes

- You can see the letters "ARC" beside the TV's HDMI jack if it is compatible with the Audio Return Channel (ARC) technology. Even if you connect an HDMI cable to the jack, if the HDMI input jack is not compatible with the Audio Return Channel (ARC) technology, you cannot use the Audio Return Channel (ARC) technology.
- The Audio Return Channel (ARC) technology is available only when the Control for HDMI function is set to on. If the Control for HDMI function is set to off, use a digital optical cable.
- The HDMI jack connections have priority as the default setting when you connect different equipment to the system using the OPTICAL IN and HDMI IN jacks.

continued

Tip

- Even if the system is turned off (active standby mode), the HDMI signal will be sent from the connected equipment to the TV via the HDMI connection. You can enjoy image and sound from the equipment on the TV.

Connecting equipment with an HDMI jack**Connecting audio equipment****Note**

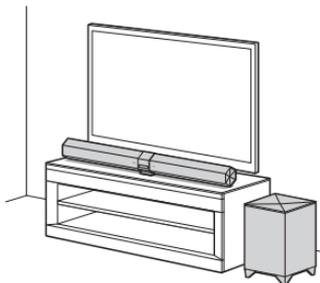
- When you connect a portable music player, etc. via its headphone jack to the ANALOG IN jack of the system, adjust the volume on the portable music player to eliminate the volume difference when you switch between the portable music player and other input sources.

Positioning the system

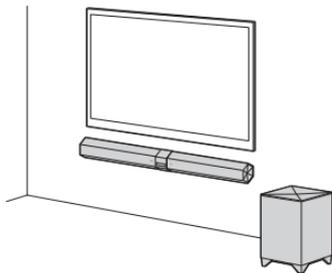
The illustrations below are examples of how to install the Sound Bar.

Installing the Sound Bar

- Installing the Sound Bar on a rack (page 16)



- Installing the Sound Bar on a wall (page 16)



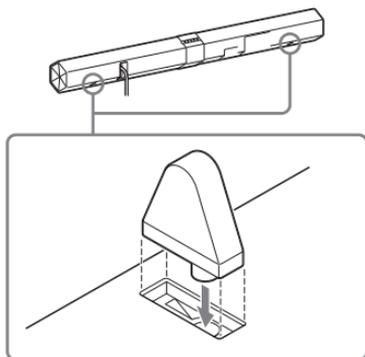
Notes

- Take following precautions when installing the Sound Bar and the subwoofer.
 - Do not block the ventilation holes on the rear panel.
 - Do not place the Sound Bar and the subwoofer in a metal cabinet.
 - Do not place an object such as an aquarium between the Sound Bar and the subwoofer.
 - Place the subwoofer close to the Sound Bar in a same room.
- When the Sound Bar is placed in front of a TV, the TV may not be controlled with the remote control of the TV. In that case, place the Sound Bar away from the TV. If the remote control of the TV still cannot control the TV, set "IR REP" of the AMP menu to "ON" (page 28).
- Make sure that the remote control of the TV cannot control the TV, then set "IR REP" to "ON". 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 Sound Bar.

Installing the Sound Bar on a rack

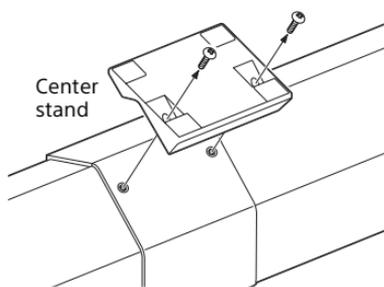
To install the Sound Bar facing front

- 1 Attach a side stand (for front-facing installation) to each side.

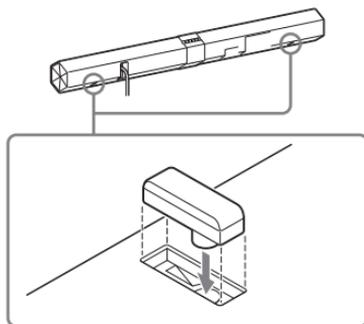


To install the Sound Bar tilting upward

- 1 Remove the center stand.



- 2 Attach a side stand (for upward-tilting installation) to each side.



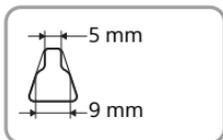
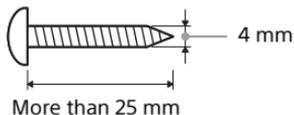
Installing the Sound Bar on a wall

You can install the Sound Bar on the wall.

Notes

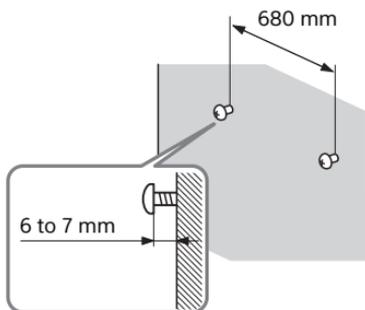
- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a wall beam. Install the Sound Bar on a vertical and flat reinforced area of the wall.
- Be sure to subcontract the installation to Sony dealers or licensed contractors and pay special attention to safety during the installation.
- Sony is not responsible for accidents or damage caused by improper installation, insufficient wall strength, improper screw installation or natural calamity, etc.

- 1 Prepare screws (not supplied) that are suitable for the holes on the back of the Sound Bar.**



Hole on the back of the Sound Bar

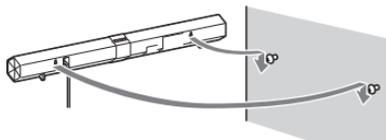
- 2 Fasten the screws to the wall.**
The screws should protrude 6 to 7 mm.



- 3 Remove the center stand.**

- 4 Hang the Sound Bar onto the screws.**

Align the holes on the back of the Sound Bar to the screws, then hang the Sound Bar onto the 2 screws.



Setting up the Wireless System

The Sound Bar transmits sound from the equipment to the subwoofer by wireless communication.

- 1 Connect the AC power cord (mains lead) of the Sound Bar to a wall outlet (mains).**
- 2 Connect the AC power cord (mains lead) of the subwoofer to a wall outlet (mains).**

The **I/⏻** indicator of the subwoofer lights up in red. If it does not light up, press the **I/⏻** button of the subwoofer and wait for the indicator to light up in red.

- 3 Press the **I/⏻** button of the Sound Bar.**

When the wireless connection is made, the **I/⏻** indicator of the subwoofer turns green. If it does not turn green, perform the operations of "Linking the system (LINK)" (page 29).

Operating the system using the supplied remote control

- 1 Turn on the system.
- 2 Press  to display the input source on the front panel display of the Sound Bar.

Input source	Playable equipment
TV	TV connected to the HDMI TV OUT (ARC) or OPTICAL IN jack
HDMI 1	Equipment connected to the HDMI IN 1 jack
HDMI 2	Equipment connected to the HDMI IN 2 jack
HDMI 3	Equipment connected to the HDMI IN 3 jack
ANALOG	Equipment connected to the ANALOG IN jack
BT AU	BLUETOOTH device connected

- 3 Adjust the volume by pressing .

Tip

- The sound may be output from the TV's speaker. In this case, turn the volume of the TV's speaker down to minimum.

Using the Control for HDMI function

By enabling the Control for HDMI function (CTRL, page 27), and connecting equipment that is compatible with the Control for HDMI function via an HDMI cable, operation is simplified with the features below.

System Power Off

When you turn off the TV using the power button on the TV's remote control, the system and the connected equipment turn off automatically.

System Audio Control

If you turn on the system while you are watching the TV, the TV sound is output from the speakers of the system automatically. The volume of the system is adjusted when you adjust the TV volume.

If the TV sound was output from the speakers of the system the last time you turned off the TV, the system is turned on automatically when you turn on the TV again, and the TV sound is output from the speakers of the system automatically.

Audio Return Channel (ARC)

If the TV is compatible with the Audio Return Channel (ARC) technology, an HDMI cable connection also sends a digital audio signal from the TV to the system. You do not need to make a separate audio connection for listening to TV sound from the system (ARC, page 27).

One-Touch Play

When you play the equipment connected to the system with an HDMI cable, the connected TV is turned on automatically and the input signal of the system is switched to the appropriate HDMI input.

Notes

- The above features may not operate with certain equipment.
- Depending on the settings of the connected equipment, the Control for HDMI function may not work correctly. Refer to the operating instructions of the equipment.

Using "BRAVIA" Sync features

The original Sony functions listed below can also be used with products that are compatible with "BRAVIA" Sync.

Power save

If a "BRAVIA" Sync-compatible TV is connected to the system, the power consumption is reduced in standby mode by stopping HDMI signal transmission when TV is turned off (P. THRU, page 27).

Scene Select

If a "Scene Select"-compatible TV is connected to the system, the sound field changes automatically, optimized according to the program currently playing on the connected TV.

Notes on HDMI connections

- Use a High Speed HDMI cable. If you use a Standard HDMI cable, 1080p, Deep Color, or 3D/4K images may not be displayed properly.
- We recommend that you use an HDMI authorized cable or a Sony HDMI cable.
- We do not recommend using an HDMI-DVI conversion cable.
- Check the setup of the connected equipment if an image is poor or the sound does not come out of the equipment connected via the HDMI cable.
- Audio signals (sampling frequency, bit length, etc.) transmitted from an

continued

HDMI jack may be suppressed by the connected equipment.

- Sound may be interrupted when the sampling frequency or the number of channels of audio output signals from the playback equipment is switched.
- When the connected equipment is not compatible with copyright protection technology (HDCP), the image and/or the sound from the HDMI TV OUT (ARC) jack may be distorted or may not be output. In this case, check the specification of the connected equipment.
- When "TV" is selected for the input source of the system, video signals via one of the HDMI IN jacks that was selected last time are output from the HDMI TV OUT (ARC) jack.
- This system supports Deep Color, "x.v.Colour," 3D, and 4K transmission.
- To enjoy 3D images, connect a 3D-compatible TV and video equipment (Blu-ray Disc player, "PlayStation®3," etc.) to the system using High Speed HDMI cables, put on 3D glasses, and then play back 3D compatible Blu-ray Disc.
- To enjoy 4K images, the TV and players that are connected to the system must be compatible with the 4K images.

Setting up the sound output of the connected equipment

To output multi-channel digital audio, check the digital audio output setting on the connected equipment.

For details, refer to the operating instructions supplied with the connected equipment.

BLUETOOTH Function

Using the BLUETOOTH function

Pairing automatically

If the system is not paired with any equipment, you must pair the system with the equipment to be connected. Select "BT AU" with the  button on the remote control to enter pairing mode.

- 1 Place the system and a BLUETOOTH device within 1 meter.**
- 2 Press  to select "BT AU."**
- 3 Set the BLUETOOTH device in pairing mode.**

For details on setting the BLUETOOTH device in pairing mode, refer to the operating instructions supplied with the device.

- 4 When the detected devices are listed on the BLUETOOTH device, check that "HT-CT660" is listed.**

On some BLUETOOTH devices, the list may not be displayed.

- 5 Select "HT-CT660" on the list.**

If entering a Passkey is requested, enter "0000."

- 6 Make the BLUETOOTH connection on the BLUETOOTH device.**

When the BLUETOOTH connection is made correctly, the illumination LED lights up in blue and the pairing information is stored in the system.

About the LED for BLUETOOTH

The illumination LED lights up or flashes in blue to indicate the BLUETOOTH status.

System status	LED status
During BLUETOOTH pairing	Flashes quickly in blue.
The system is attempting to connect with a BLUETOOTH device	Flashes in blue.
The system has established in connection with a BLUETOOTH device	Lights up in blue.
The system is in BLUETOOTH standby mode (when the system is off)	Flashes slowly in blue.

Notes

- For details on operation of the connected devices, refer to the operating instructions supplied with the devices.
- The BLUETOOTH devices to be connected must support A2DP (Advanced Audio Distribution Profile).
- Use a BLUETOOTH device such as BLUETOOTH mobile phone in an easily visible place in the same room where the Sound Bar is placed.
- If Wi-Fi equipment is used, BLUETOOTH communication may become unstable. In that case, use the BLUETOOTH device as close as possible to the Sound Bar.
- Sound may be interrupted because of a problem with the BLUETOOTH device.

- Once a pairing operation is performed, it does not have to be performed again. However, you must repeat pairing in the cases listed below.

- Pairing information is deleted by repairing the system.
- Pairing for 10 or more devices is to be set.

This system can set pairing with up to 9 devices. If pairing is to be set on a device after pairing has been set on 9 devices, the pairing information on a device whose connection date is the oldest is overwritten with new information.

- The connection history with this system is deleted on the connected device.
- The system is reset to default.

Pairing manually

If you intend to pair the system with 2 or more BLUETOOTH, manual pairing is necessary.

- 1 Place the BLUETOOTH device to be connected to this system within 1 meter of the system.**

- 2 Press PAIRING on the remote control.**

You may press PAIRING on the Sound Bar, instead.

- 3 Perform steps 3 to 6 in "Pairing automatically" (page 21).**

Notes

- "Passkey" may be called "Passcode," "PIN code," "PIN number" or "Password," etc., depending on the device.
- The pairing standby status of the system is canceled after about 5 minutes. If pairing is not successful, redo the procedure from step 1.

- If you wish to pair with several BLUETOOTH devices, perform the procedure from steps 1 to 3 individually for each BLUETOOTH device.

- If no pairing information is stored in the system, the system automatically enters pairing mode when "BT AU" is selected as input. In this case, pairing mode is not released automatically.

One-touch connection with a smartphone (NFC)

By touching the system with a smartphone, the system is paired and connected with the smartphone via BLUETOOTH, and turns on automatically.

NFC

NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

Compatible smartphones

Smartphones with the NFC function built-in
(OS: Android 2.3.3 or later, excluding Android 3.x)

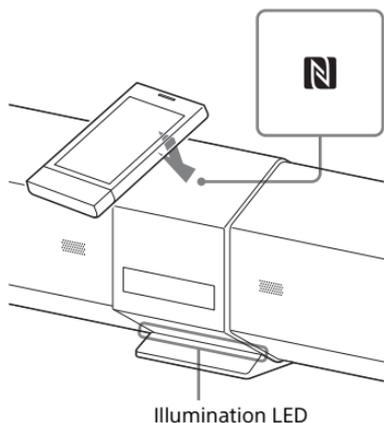
- 1 Download and install the app "NFC Easy Connect."**

"NFC Easy Connect" is a free Android app you can download from Google Play. Download the app by searching for "NFC Easy Connect" or access it by using the following two-dimensional code.

Fees may be charged for downloading the app. Use a two-dimensional code reader app.



- 2 Turn on the system.**
- 3 Start the app “NFC Easy Connect” on the smartphone.**
Make sure that the application screen is displayed.
- 4 Touch the N mark on the Sound Bar with the smartphone.**
Keep touching the Sound Bar with the smartphone until the smartphone vibrates.



Complete the connection by following the instructions on the screen.
When the Illumination LED (blue) stops flashing and remains lit, the system is connected with the device.

To disconnect the system, touch it with the smartphone again.

Tips

- If you cannot connect the system, try the following.
 - Start the app on the smartphone, and move the smartphone slowly over the N mark of the Sound Bar.
 - If the smartphone is in a case, remove it from the case.
- Depending on your smartphone, you may not need to download “NFC Easy Connect” to connect the system with your smartphone by one touch. In that case, the operation and specifications may be different from the description here. For details, refer to the operating instructions supplied with your smartphone.

Note

The App may not be available in some countries and/or regions.

Listening to music with the BLUETOOTH connection

You can listen to a music that supports SCMS-T content protection. Before starting music playback, check the following:

- The BLUETOOTH function on the BLUETOOTH device is on.
- The pairing procedure is completed on both this system and the BLUETOOTH device.

- 1 Press  to select “BT AU.”**
- 2 Start the BLUETOOTH connection from the BLUETOOTH device.**

The illumination LED lights up in blue when the BLUETOOTH connection is established.

3 Start playback on the BLUETOOTH device.

For details on operation, see “To control a BLUETOOTH device” (page 12).

4 Adjust the volume.

Set the volume of the BLUETOOTH device to a moderate level and press \triangleleft +/-.

Tips

- You can adjust the volume of the system via a BLUETOOTH device supporting AVRCP (Audio Video Remote Control Profile) VOLUME UP/DOWN. For details, refer to the operating instructions supplied with the device.
- You may not be able to adjust the volume, depending on the device.

Notes

- If the source device has a bass boost function or equalizer function, turn them off. If these functions are on, sound may be distorted.
- In the following cases, you will have to make the BLUETOOTH connection again.
 - The power of the system is not on.
 - The power of the BLUETOOTH device is not on, or the BLUETOOTH function is off.
 - The BLUETOOTH connection is not established.
- If more than one devices paired with the system are playing, sound will be heard from just one of those devices.

Finishing the BLUETOOTH connection

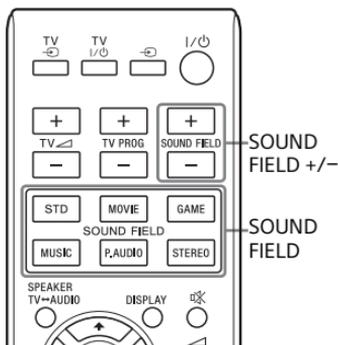
Terminate the BLUETOOTH connection by any of the operations listed below.

- Operate the BLUETOOTH device to terminate the connection. For details, refer to the operating instructions supplied with the device.
- Turn off the BLUETOOTH device.
- Turn off the system.

Surround Function

Enjoying the surround effect

This system can create multi-channel surround sound. You can select one of system's optimized pre-programmed sound fields.



Select a sound field by pressing **SOUND FIELD +/-** buttons or the **SOUND FIELD** button of your desired sound field.

The selected sound field appears on the display of the Sound Bar. The default setting of the sound field function of the system is "P.AUDIO" when "ANALOG" or "BT AU" is selected, and "STD" when any other type of input is selected.

Available sound fields

Sound field	Effect
STD (Standard)	Suits various sources.
MOVIE	Recreates powerful and realistic sound, along with clear dialog.
DRAMA	Recreates the clear dialog of TV dramas.
NEWS	Recreates the clear speech of newscasts.
SPORTS	Recreates clear narration, cheering with an exciting surround-sound effect, and produces powerful and realistic sound.
GAME	Produces powerful and realistic sound, suited for playing video games.
MUSIC	Suits for music programs or music videos on Blu-ray Discs/DVDs.
P.AUDIO (Portable audio)	Suits for music programs of a portable music player.
STEREO	Suits for music CDs.

Tip

- You can set a different sound field for each input source.

Settings and adjustments using the AMP menu

Using the AMP menu

You can set the following items with AMP MENU on the remote control.

The default settings are underlined.

Your settings are retained even if you disconnect the AC power cord (mains lead).

- 1 Press AMP MENU to turn on the AMP menu.**
- 2 Press ← (return)/↑ ↓ (select)/→ (proceed) repeatedly to select the item and press ⊕ to decide the setting.**
- 3 Press AMP MENU to turn off the AMP menu.**

Menu list

Menu items	Function
LEVEL	
VOICE	Adjusts the voice level. <ul style="list-style-type: none">• The parameters range from “-6” to “+6” in 1-step increments.
SW LVL	Adjusts the subwoofer level. <ul style="list-style-type: none">• The parameters range from “-6” to “+6” in 1-step increments.
DRC (DYNAMIC RANGE CONTROL)	Useful for enjoying movies at low sound volume. DRC applies to Dolby Digital sources. <ul style="list-style-type: none">• <u>ON</u>: Compresses sound in accordance with the information contained in the content.• <u>AUTO</u>: Compresses sound encoded in Dolby TrueHD automatically.• <u>OFF</u>: Sound is not compressed.
TONE	
BASS	Adjusts the bass level. <ul style="list-style-type: none">• The parameters range from “-6” to “+6” in 1-step increments.
TREBLE	Adjusts the treble level. <ul style="list-style-type: none">• The parameters range from “-6” to “+6” in 1-step increments.

Menu items		Function
AUDIO	SYNC (AV SYNC)	You can delay the sound using this function when the image is slower than the sound. <ul style="list-style-type: none"> • ON: Adjusts the difference between picture and sound. • OFF: No adjustment.
	DUAL (DUAL MONO)	You can enjoy multiplex broadcast sound when the system receives a Dolby Digital multiplex broadcast signal. <ul style="list-style-type: none"> • M/S: Main sound is output from the left speaker and sub sound is output from the right speaker. • MAIN: Plays back only the main channel. • SUB: Plays back only the sub channel.
	NIGHT	You can enjoy sound effects and hear the dialog clearly even at a low volume level using this function. <ul style="list-style-type: none"> • ON: Turns on the "NIGHT" function. • OFF: Turns off the function.
	AAV (ADVANCED AUTO VOLUME)	Useful when there are sudden changes in the sound volume, such as when the volume used in commercials is louder than that of the program. <ul style="list-style-type: none"> • ON: Turns on the "AAV" function. • OFF: Turns off the function.
HDMI	CTRL (CONTROL FOR HDMI)	<ul style="list-style-type: none"> • ON: Turns on the Control for HDMI function. • OFF: Turns off the function. Select this setting when you want to connect equipment not compatible with "BRAVIA" Sync, or that do not have HDMI jacks, etc.
	P. THRU* (PASS THROUGH)	<ul style="list-style-type: none"> • AUTO: When the TV is turned on while the system is in standby mode, the system outputs HDMI signals from the HDMI OUT TV (ARC) jack. This setting saves power in standby mode compared with the "ON" setting. • ON: When the system is in standby mode, it always passes HDMI signals through.
	ARC* (AUDIO RETURN CHANNEL)	<ul style="list-style-type: none"> • ON: Select this setting when you connect the system to a TV compatible with the Audio Return Channel (ARC) technology and listen to digital sound via an HDMI cable. • OFF: Select this setting when you connect the system to a TV and listen to digital sound via a digital optical cable.
* Items displayed when "CTRL (CONTROL FOR HDMI)" is set to "ON" only.		

Menu items		Function
SET BT	BT.STBY (BT STANDBY)	<p>When the system has pairing information, the system is in BLUETOOTH standby mode even when it is turned off.</p> <ul style="list-style-type: none"> • ON: BLUETOOTH standby mode is enabled. The illumination LED flashes in blue slowly when the system is turned off. • OFF: BLUETOOTH standby mode is disabled.
	<p>Notes</p> <ul style="list-style-type: none"> • If the system does not have pairing information, BLUETOOTH standby mode cannot be set. • During BLUETOOTH standby mode, standby power consumption increases. 	
	AAC	<p>Sets whether or not the system will use AAC via BLUETOOTH.</p> <ul style="list-style-type: none"> • ON: Uses AAC. • OFF: Does not use AAC.
<p>Note</p> <p>If you change the setting when the system is connected with a BLUETOOTH device, the system will be disconnected from the device.</p>		
SYSTEM	A.STBY (AUTO STANDBY)	<p>You can reduce power consumption. The Sound Bar enters standby mode automatically when you do not operate the Sound Bar for about 30 minutes and the Sound Bar is not receiving an input signal.</p> <ul style="list-style-type: none"> • ON: Turns on the "A. STBY" function. • OFF: Turns off the function.
	IR REP	<p>If the remote control of a TV cannot control the TV, the Sound Bar can relay the remote control signal to the TV to control the TV.</p> <ul style="list-style-type: none"> • ON: The relay function is enabled. • OFF: The relay function is disabled.
	VER	<p>The current firmware version information appears on the front panel display.</p>
WS	LINK	<p>Use this item when you want to enable the wireless transmission (page 29).</p>
	RF CHK	<p>Indicates whether or not the wireless transmission is activated on the system.</p> <ul style="list-style-type: none"> • RF OK: Wireless transmission is possible. • RF NG: Wireless transmission is not possible.

Linking the system (LINK)

You can link the Sound Bar and the subwoofer again to enable wireless transmission between them.

- 1 Press AMP MENU.**
- 2 Select "WS" with ↑ ↓ (select), then press ⊕ or → (proceed).**
- 3 Select "LINK," then press ⊕ or → (proceed).**
- 4 "START" appears, then press ⊕.**
"SEARCH" appears, and the Sound Bar searches for equipment that can be used with Link. Proceed to the next step within 1 minute.
To quit the Link function during a search for equipment, press ←.
- 5 Press LINK on the rear of the subwoofer with the point of a pen, etc.**
The I/⏻ indicator on the subwoofer lights up in green. "OK" appears on the front panel display. If "FAILED" appears, check to ensure the subwoofer is turned on, and perform the process again from step 1.
- 6 Press AMP MENU.**
The AMP menu turns off.

Additional Information

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.

POWER

The system is not turned on.

- Check that the AC power cord (mains lead) is connected securely.

The system is turned off automatically.

- The "A. STBY" function is working (page 28).

SOUND

Dolby Digital or DTS multi-channel sound is not reproduced.

- Check the audio setting of Dolby Digital or DTS format on the Blu-ray Disc player, DVD player, etc., connected to the system.

The surround effect cannot be obtained.

- Depending on the input signal and the setting for the sound field, surround sound processing may not work effectively (page 25). The surround effect may be subtle depending on the program or disc.
- If you connect a Blu-ray Disc player or a DVD player compatible with the surround effect function, the surround effect of the system may not work. In this case, set the surround effect function of the connected equipment to off. For details, refer to the operating

instructions supplied with the connected equipment.

No TV sound is output from the system.

- Check the connection of the digital optical cable or audio cable that is connected to the system and the TV (page 13).
- Check the sound output of the TV.
- If the TV is not compatible with the Audio Return Channel (ARC) technology, connect the digital optical cable in addition to the HDMI cable (page 13) in order to output sound.

The sound is output from both the system and the TV.

- Turn off the sound of the system or the TV.

Sound lags behind the TV image.

- Set the "SYNC" to "OFF" if "SYNC" is set to "ON" (page 27).

No sound or only a very low-level sound of the connected equipment is heard from the system.

- Press  + and check the volume level.
- Press  or  + to cancel the muting function.
- Check that the input source is correctly selected.
- Check that all the cables and cords of the system and the connected equipment are fully inserted.

BLUETOOTH

There is no sound.

- Make sure this system is not too far from the BLUETOOTH device, or this system is not receiving interference from a Wi-Fi network, other 2.4 GHz wireless device, or microwave oven.

- Check that the BLUETOOTH connection is made properly between this system and the BLUETOOTH device.
- Pair this system and the BLUETOOTH device again.

Sound skips or the correspondence distance is short.

- If a device that generates electromagnetic radiation, such as a Wi-Fi network, other BLUETOOTH device(s), or a microwave oven is nearby, move this system away from such sources.
- Remove any obstacle between this system and the BLUETOOTH device, or move this system away from the obstacle.
- Locate this system and the BLUETOOTH device as near as possible.
- Re-position this system.
- Re-position the BLUETOOTH device.
- Change the Wi-Fi frequency of the Wi-Fi router, computer, etc., to 5 GHz band.

Pairing cannot be done.

- Bring this system and the BLUETOOTH device closer together.

The sound is not in sync with the image.

- When you are watching movies, you may hear the sound with a slight delay from the image.

The BLUETOOTH connection cannot be completed.

- Make sure the BLUETOOTH device to be connected is turned on and the BLUETOOTH function is enabled.
- The BLUETOOTH connection has become disconnected. Make the BLUETOOTH connection again.

BLUETOOTH devices cannot be operated on the remote control of the system.

- Operate the BLUETOOTH device on itself.

WIRELESS SOUND

Wireless transmission is not activated or there is no sound from the subwoofer.

- Check the status of the I/⏻ indicator on the subwoofer.
 - Is off:
 - Check that the AC power cord (mains lead) of the subwoofer is connected securely.
 - Turn on the subwoofer by pressing I/⏻ on the subwoofer.
 - Flashes in red:
 - Press I/⏻ to turn off the subwoofer, and check that nothing is blocking the ventilation holes of the subwoofer.
 - Flashes in green slowly or is lit in red:
 - Move the subwoofer so that the I/⏻ indicator lights up in green.
 - Check the wireless transmission status (page 28).
 - Set the wireless transmission (page 29).
 - Flashes in green quickly:
 - Consult your nearest Sony dealer.

Sound skips or has noise.

- If a device that generates electromagnetic radiation, such as a Wi-Fi network, or a microwave oven is nearby, move this system away from such sources.
- Remove any obstacle between the Sound Bar and the subwoofer, or move this system away from the obstacle.
- Locate the Sound Bar and the subwoofer as near as possible.

- Change the Wi-Fi frequency of the Wi-Fi router, computer, etc., to 5 GHz band.

OTHERS

The remote control does not function.

- Point the remote control at the remote control sensor  on the system.
- 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 select the correct input on the remote control.

The Control for HDMI function does not work properly.

- Check the HDMI connection (page 13).
- Set up the Control for HDMI function on the TV.
- Make sure the connected equipment is compatible with "BRAVIA" Sync.
- Check the Control for HDMI settings on the connected equipment. Refer to the operating instructions supplied with the connected equipment.
- If you connect/disconnect the AC power cord (mains lead), wait for more than 15 seconds and operate the system.
- If you connect the audio output of the video equipment and the system using other than an HDMI cable, no sound may be output because of "BRAVIA" Sync. In this case, set the "CTRL" to "OFF" (page 27) or connect the audio output jack directly to the TV instead of the system.

"PROTECT" appears on the front panel display.

- Press I/⏻ to turn off the system. After "STBY" disappears, disconnect the AC power cord (mains lead), then check that nothing is blocking the ventilation holes of the system.

RESET

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

- 1 Press I/⏻ to turn on the Sound Bar.**
- 2 Press I/⏻ while pressing INPUT and VOL – on the Sound Bar.**
- 3 When "RESET" appears on the front panel display, release the buttons.**
- 4 Disconnect the AC power cord (mains lead).**
AMP menu, sound field, etc., return to the default settings.

Specifications

Formats supported by this system

Dolby Digital	DTS-HD Master Audio*
Dolby Digital Plus*	DTS-HD High Resolution Audio*
Dolby TrueHD*	DTS-HD Low Bit Rate*
DTS	Linear PCM 2ch 48 kHz or less
DTS 96/24	Linear PCM Maximum 7.1ch 192 kHz or less*

* It is possible to input these formats only with HDMI connection.

HDMI Input/Output (HDMI Repeater block)

File	2D	3D		
		Frame packing	Side-by-Side (Half)	Over-Under (Top-and-Bottom)
4096 × 2160p @ 23.98/24 Hz	○	-	-	-
3840 × 2160p @ 29.97/30 Hz	○	-	-	-
3840 × 2160p @ 25 Hz	○	-	-	-
3840 × 2160p @ 23.98/24 Hz	○	-	-	-
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	○	-	-	-

Sound Bar (SA-CT660)

Amplifier section

POWER OUTPUT (rated)

Front L + Front R: 50 W + 50 W
(at 3 ohms, 1 kHz, 1 % THD)

POWER OUTPUT (reference)

Front L/Front R: 100 W (per channel
at 3 ohms, 1 kHz)

Inputs

HDMI IN 1/2/3
ANALOG IN
OPTICAL IN

Output

HDMI TV OUT (ARC)

BLUETOOTH section

Communication system

BLUETOOTH Specification version
3.0

Output

BLUETOOTH Specification Power
Class 2

Maximum communication range

Line of sight approx. 10 m¹⁾

Frequency band

2.4 GHz band (2.4000 GHz -
2.4835 GHz)

Modulation method

FHSS (Freq Hopping Spread
Spectrum)

Compatible BLUETOOTH profiles²⁾

A2DP (Advanced Audio Distribution
Profile)
AVRCP 1.3 (Audio Video Remote
Control Profile)

Supported Codecs³⁾

SBC⁴⁾, AAC⁵⁾

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, reception sensitivity, operating system, software application, 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

Front speaker unit

Speaker system

2-way speaker system, Acoustic
suspension

Speaker unit

Woofer: 50 mm × 90 mm cone type
Tweeter: 20 mm balance drive type

Rated impedance

3 ohms

General

Power requirements

220 V - 240 V AC, 50/60 Hz

Power consumption

On: 34 W

"Control for HDMI" is off (Standby
mode): 0.3 W or less

BLUETOOTH Standby mode: 0.5 W
or less

Dimensions (approx.)

1,030 mm × 109 mm × 94 mm
(with stands)

1,030 mm × 95 mm × 107 mm
(without stands)

Mass (approx.)

3.5 kg

Subwoofer (SA-WCT660)

POWER OUTPUT (reference)

130 W (per channel at 4 ohms,
100 Hz)

Speaker system

Subwoofer, Bass reflex

Speaker unit

160 mm cone type

Rated impedance

4 ohms

Power requirements

220 V - 240 V AC, 50/60 Hz

Power consumption

On: 30 W

Standby mode: 0.5 W or less

Dimensions (approx.)
271 mm × 404 mm × 271 mm
(w/h/d)
Mass (approx.)
8.6 kg

Wireless transmitter/receiver

Communication system
Wireless Sound Specification
version 2.0
Frequency band
2.4 GHz band (2.4000 GHz -
2.4835 GHz)
Modulation method
Pi/4 DQPSK

Design and specifications are subject to
change without notice.

- Standby power consumption: 0.3 W or less (Sound Bar), 0.5 W or less (Subwoofer)
- Over 85% power efficiency of amplifier block is achieved with the full digital amplifier, S-Master.

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