

Blu-ray Disc/DVD 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 apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

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

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

Indoor use only.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Blu-ray Disc / DVD Home Theatre System is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.

CAUTION CLASS 3R VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EYE EXPOSURE.
VORSICHT KLASSE 3R SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET.
UMMITTELBARER AUGENKONTAKT VERMEIDEN.
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING AF KLASSE 3R VED ÅBNING. UNDGÅ AT SE DIREKTE PÅ STRÅLEN.
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING I KLASSE 3R NÅR DEKSEL ÅPNES. UNNGÅ DIREKTE EKSPONERING AV ØYENNE.
WARNING KLASSE 3R SYNLIG OCH USYNLIG LASERSTRÅLNING NÄR ÖPPNINGSDEL ÅR ÖPPNAD. UNDVIK ATT DIREKT EXPONERA ÖGONEN FÖR STRÅLNINGEN.
VARO! AVATTUNA LUOKAN 3R NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ. VÄLTÄ KATSEEN SUORAAN AILISTAMISTA.
警告 打开时有3类可见和不可见激光辐射。避免眼睛受到直射的照射。
注意 打開時有第3類可視及不可見雷射輻射。避免眼睛直接暴露。

This appliance is classified as a **CLASS 3R LASER** product. Visible and invisible laser radiation is emitted when the laser protective housing is opened, so be sure to avoid direct eye exposure.

This marking is located on the laser protective housing inside the enclosure.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
1类激光产品

This appliance is classified as a **CLASS 1 LASER** product. This marking is located on the rear exterior.

For the customers in Europe



**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.



**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.

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

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Precautions

This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection cable shorter than 3 meters. (European and Russian models only)

On power sources

- 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.

On watching 3D video images

Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images. Sony recommends that all viewers take regular breaks while watching 3D video images. The length and frequency of necessary breaks will vary from person to person. You must decide what works best. If you

experience any discomfort, you should stop watching the 3D video images until the discomfort ends; consult a doctor if you believe necessary. You should also review (i) the instruction manual and/or the caution message of any other device used with, or Blu-ray Disc contents played with this product and (ii) our website (<http://esupport.sony.com/>) for the latest information. The vision of young children (especially those under six years old) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images. Adults should supervise young children to ensure they follow the recommendations listed above.

Copy Protection

Please be advised of the advanced content protection systems used in both Blu-ray Disc™ and DVD media. These systems, called AACS (Advanced Access Content System) and CSS (Content Scramble System), may contain some restrictions on playback, analog output, and other similar features. The operation of this product and the restrictions placed may vary depending on the date of purchase, as the governing board of the AACS may adopt or change its restriction rules after the time of purchase.

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- This system incorporates with Dolby® Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS® Digital Surround System.
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 - ** Manufactured under license under U.S. Patent #’s:

5,451,942; 5,956,674; 5,974,380; 5,978,762; 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, DTS-HD and the Symbol are registered trademarks, & DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

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access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device’s ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

- All other trademarks are trademarks of their respective owners.
- Other system and product names are generally trademarks or registered trademarks of the manufacturers. ™ and ® marks are not indicated in this document.

About These Operating Instructions

- The instructions in these Operating Instructions describe the controls on the remote. You can also use the controls on the unit if they have the same or similar names as those on the remote.
- In this manual, “disc” is used as a general reference for BDs, DVDs, Super Audio CDs, or CDs unless otherwise specified by the text or illustrations.
- 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.

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Settings and Adjustments

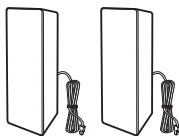
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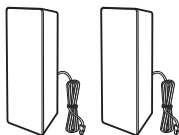
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Unpacking

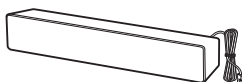
- Front speakers (2)



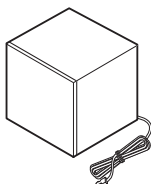
- Surround speakers (2)



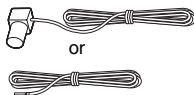
- Center speaker (1)



- Subwoofer (1)



- FM wire antenna (aerial) (1)



- Video cord (1)



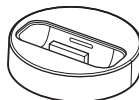
- Remote commander (remote) (1)



- R6 (size AA) batteries (2)



- Dock for iPod/iPhone (TDM-iP30) (1) (European and Australian models only)



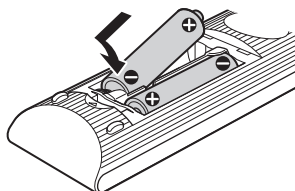
- USB cable (1) (European and Australian models only)



- Operating Instructions
- Quick Setup Guide
- Speaker Installation Guide
- Software License Information

Preparing the remote

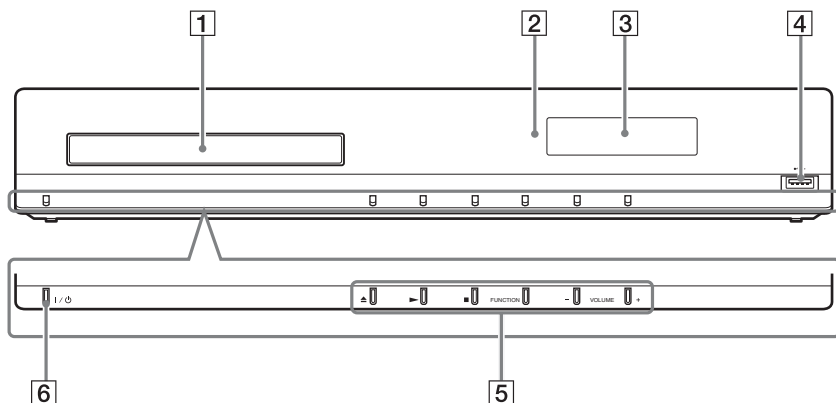
Insert two R6 (size AA) batteries (supplied) by matching the $\oplus$ and $\ominus$ ends on the batteries to the markings inside the compartment.



Index to Parts and Controls

For more information, refer to the pages indicated in parentheses.

Front panel



1 Disc tray (page 26)

2 Remote sensor

3 Front panel display

4  (USB) port (page 27)
Used for connecting a USB device.

5 Play operation buttons

 (open/close) (page 26)

Opens or closes the disc tray.

 (play)

Starts or re-starts playback (resume play).

Plays a slideshow when a disc containing JPEG image files is inserted.

 (stop)

Stops playback and remembers the stop point (resume point).

The resume point for a title/track is the last point you played or the last photo for a photo folder.

FUNCTION

Selects the playback source.

VOLUME +/-

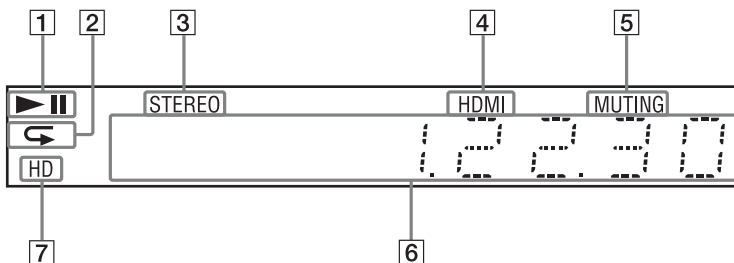
Adjusts the system's volume.

6  (on/standby)

Turns on the unit, or sets it to standby mode.

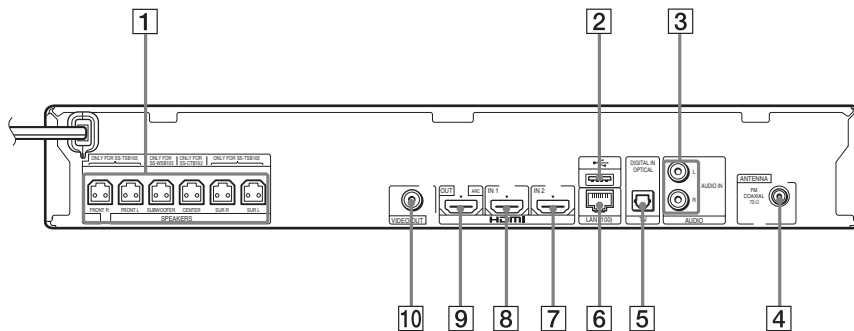
Front panel display

About the indications in the front panel display



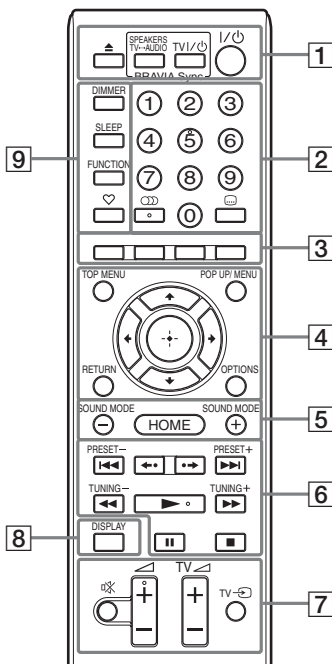
- 1** Displays the system's playing status.
- 2** Lights up when repeat play is activated.
- 3** Lights up when stereo sound is received. (Radio only)
- 4** Lights up when the HDMI (OUT) jack is correctly connected to an HDCP (High-bandwidth Digital Content Protection)-compliant device with HDMI or DVI (Digital Visual Interface) input.
- 5** Lights up when muting is on.
- 6** Displays the system's status, such as radio frequency, etc.
- 7** Lights up when outputting 720p/1080i/1080p video signals from the HDMI (OUT) jack.

Rear panel



- 1** SPEAKERS jacks (page 13)
- 2** USB port (page 27)
- 3** AUDIO (AUDIO IN L/R) jacks (page 16)
- 4** ANTENNA (FM COAXIAL 75Ω) jack (page 18)
- 5** TV (DIGITAL IN OPTICAL) jack (page 14)
- 6** LAN (100) terminal (page 19)
- 7** HDMI (IN 2) jack (page 16)
- 8** HDMI (IN 1) jack (page 16)
- 9** HDMI (OUT) jack (page 14)
- 10** VIDEO OUT jack (page 14)

Remote control



Number 5, **000**, **△** +, and **▶** buttons have a tactile dot. Use the tactile dot as a reference when operating the remote.

- **TV** : For TV operations
(For details, see “Controlling Your TV with the Supplied Remote” (page 40).)

1 **△ (open/close)**

Opens or closes the disc tray.

SPEAKERS TV↔AUDIO

Selects whether TV sound is output from the system’s speakers or the TV’s speaker(s). This function works only when you set [Control for HDMI] to [On] (page 50).

TV I/⏻ (on/standby) (page 40) **TV**

Turns on the TV or sets it to standby mode.

I/⏻ (on/standby) (pages 21, 35)

Turns on the system or sets it to standby mode.

2 **Number buttons (pages 36, 40)**

Enters the title/chapter numbers, preset station number, etc.

000 (audio) (pages 33, 34)

Selects the audio format/track.

⋮ (subtitle) (page 49)

Selects the subtitle language when multilingual subtitles are recorded on a BD-ROM/DVD VIDEO.

3 **Color buttons (red/green/yellow/blue)**

Short cut keys for selecting items on some BD menus (can also be used for Java interactive operations on BDs).

4 **TOP MENU**

Opens or closes the BD’s or DVD’s Top Menu.

POP UP/MENU

Opens or closes the BD-ROM’s Pop-up Menu, or the DVD’s menu.

OPTIONS (pages 23, 30, 41)

Displays the options menu on the TV screen or in the front panel display. (The location differs based on the selected function.)

RETURN

Returns to the previous display.

←/↑/↓/→

Moves the highlight to a displayed item.

⊕ (enter)

Enters the selected item.

5 **SOUND MODE +/- (page 33)**

Selects the sound mode.

HOME (pages 21, 35, 38, 41, 42, 46)

Enters or exits the system’s home menu.

[6] Playback operation buttons

See “Playback” (page 26).

◀◀/▶▶ (previous/next)

Skip to the previous/next chapter, track, or file.

◀•/•▶ (replay/advance)

Briefly replay the current scenes for 10 seconds./Briefly fast forwards the current scenes for 15 seconds.

◀◀/▶▶ (fast/slow/freeze frame)

Fast reverse/fast forward the disc during playback. Each time you press the button, the search speed changes.

Activates slow-motion play when pressed for more than one second in pause mode. Plays one frame at a time when pressed in pause mode.

Slow-motion and single-frame playback are not available for Blu-ray 3D Discs.

▶ (play)

Starts or re-starts playback (resume play). Activates One-Touch Play (page 37) when the system is on and set to the “BD/DVD” function.

⏸ (pause)

Pauses or re-starts playback.

■ (stop)

Stops playback and remembers the stop point (resume point). The resume point for a title/track is the last point you played or the last photo for a photo folder.

Radio operation buttons

See “Tuner” (page 35).

PRESET +/-

TUNING +/-

[7] 🚫 (muting)

Turns off the sound temporarily.

◀ (volume) +/- (page 35)

Adjusts the volume.

TV ◀ (volume) +/- TV

Adjusts the TV volume.

TV ⇄ (TV input) TV

Switches the TV’s input source between the TV and other input sources.

[8] DISPLAY (pages 26, 30, 41)

Displays playback and web browsing information on the TV screen.

Displays the preset radio station, frequency, etc., in the front panel display.

Displays the stream information/decoding status in the front panel display when the function is set to other than “BD/DVD.” When the system is set to the “HDMI1,” “HDMI2,” or “TV” function, the stream information/decoding status appears only when a digital signal is input.

The stream information/decoding status may not appear depending on the stream or item being decoded.

[9] DIMMER (page 40)

Changes the brightness of the front panel display.

SLEEP (page 39)

Sets the sleep timer.

FUNCTION (pages 22, 35)

Selects the playback source.

♡ (favorites)

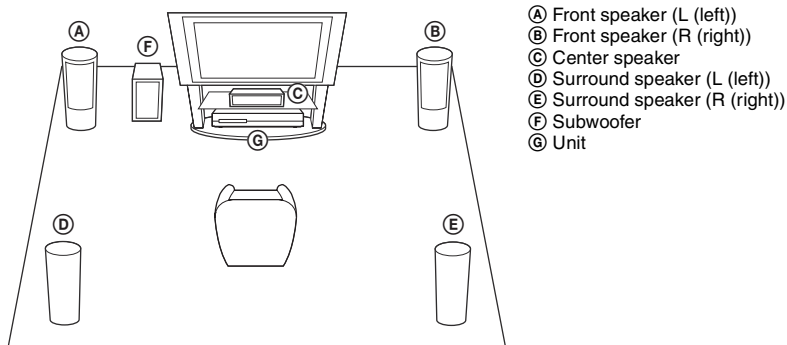
Displays the Internet contents added to the Favorites List. You can save 18 favorite Internet contents.

Getting Started

Step 1: Installing the System

How to position the system

Install the system by referring to the illustration below.


Note

- Use caution when placing the speakers and/or speaker stands attached to the speakers on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.
- Do not lean or hang on a speaker, as it may fall down.

Tip

- You can install the speakers on a wall. For details, refer to the supplied "Speaker Installation Guide."

Step 2: Connecting the System

For connecting the system, read the information on the following pages.

Do not connect the AC power cord (mains lead) of the unit to a wall outlet (mains) until all the other connections are made.

Note

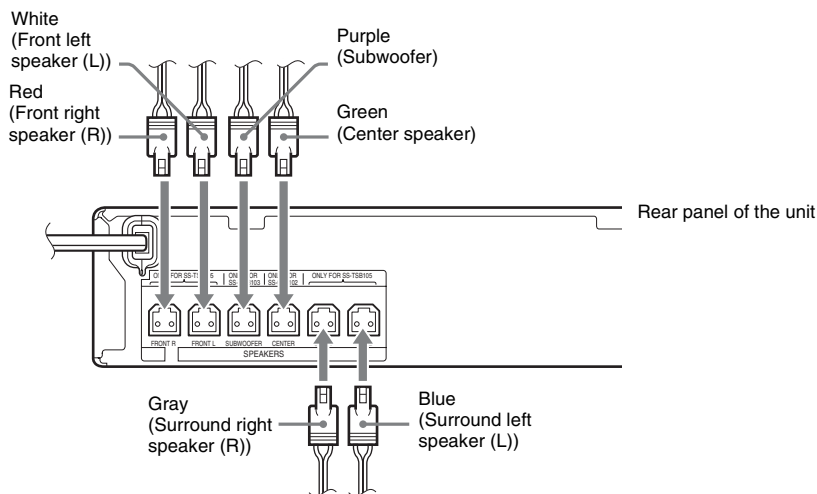
- When you connect another component with a volume control, turn down the volume of the other components to a level where sound is not distorted.

Connecting the speakers

To connect speaker cords to the unit

Connect the speaker cords to match the color of the SPEAKERS jacks of the unit.

When connecting to the unit, insert the connector until it clicks.



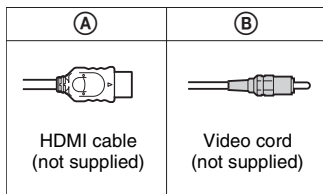
Connecting the TV

Connect the system to your TV to display the image of the system on your TV, and listen to TV sound via the system's speakers.

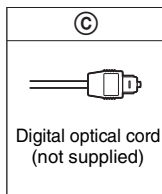
Depending on the jacks and functions on your TV, select the connection method.

- When your TV has an HDMI jack that is marked “ARC**”: Connection (A)
- When your TV has an HDMI jack: Connections (A) and (C)
- When your TV does not have HDMI jacks: Connections (B) and (C)

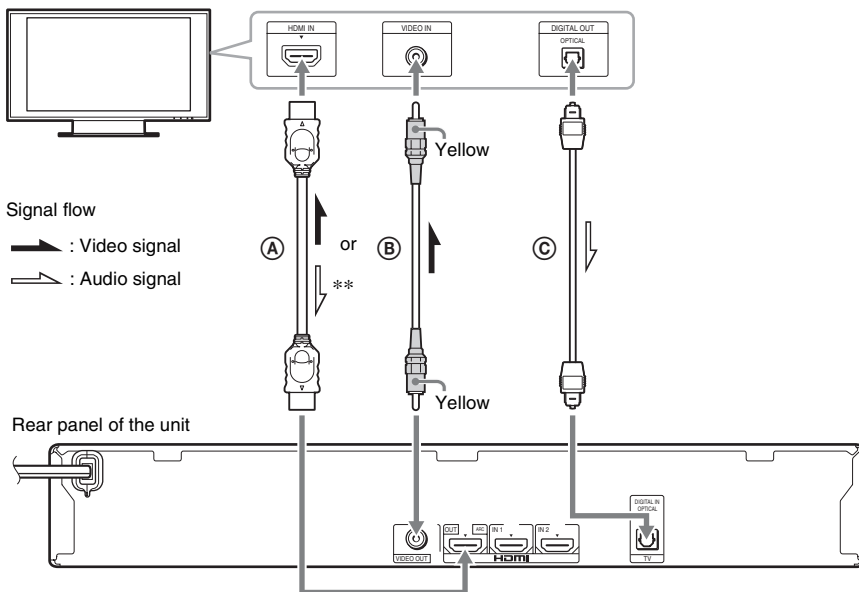
Video connections



Audio connection



TV



* Audio Return Channel. For details, see “About Audio Return Channel” (page 15).

** Available only when your TV is compatible with the Audio Return Channel function.

Ⓐ **HDMI cable connection**

If your TV has an HDMI jack, connect to the TV with an HDMI cable. This will provide better image quality compared to other types of connections.

When connecting with an HDMI cable, you need to select the type of output signal when performing the Easy Setup (page 21).

For further HDMI settings, see “[HDMI Settings]” (page 50).

About Audio Return Channel

If your TV is compatible with the Audio Return Channel function, an HDMI cable connection also sends a digital audio signal from the TV. You do not need to make a separate audio connection for listening to TV sound. For setting the Audio Return Channel function, see [Audio Return Channel] (page 50).

Ⓑ **Video cord connection**

If your TV does not have an HDMI jack, make this connection.

Ⓒ **Digital optical cord connection**

This connection sends an audio signal to the system from the TV. To listen to TV sound via the system, perform this connection. With this connection, the system receives a Dolby Digital multiplex broadcast signal and you can enjoy multiplex broadcast sound.

Note

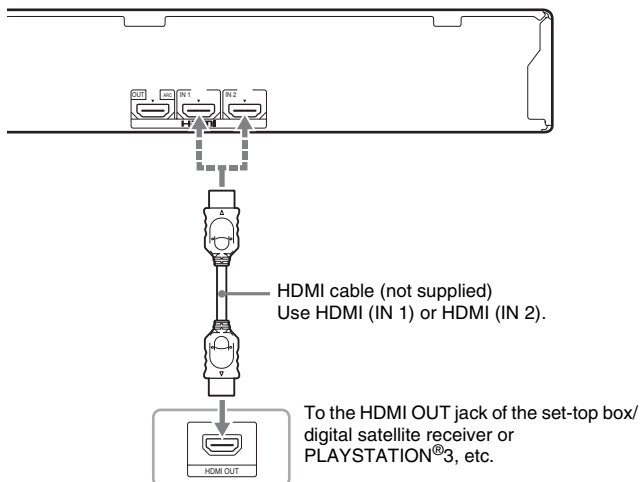
- You can enjoy the TV sound by selecting the “TV” function (page 22).
- If your TV does not have a digital optical output jack, you can connect the unit and your TV with an audio cord for listening to TV sound via the system. For connection details, see “Connecting the other components” (page 16).

Connecting the other components

When a component you wish to connect to the system has an HDMI (OUT) jack

You can connect a component that has an HDMI (OUT) jack such as a set-top box/digital satellite receiver or PLAYSTATION®3, etc., with an HDMI cable. An HDMI cable connection can send both video and audio signals. By connecting the system and the component using an HDMI cable, you can enjoy high-quality digital picture and sound via the HDMI (IN 1) or HDMI (IN 2) jack.

Rear panel of the unit

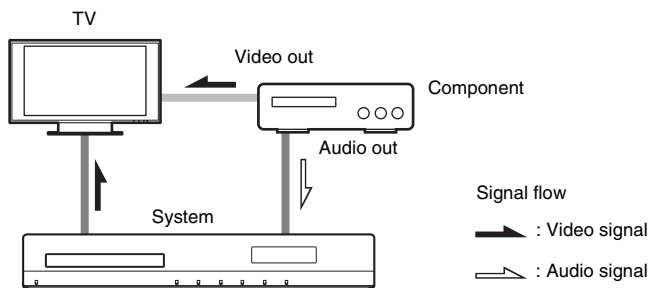


Note

- Video signals from the HDMI (IN 1/2) jacks are sent to the HDMI (OUT) jack only when the “HDMI1” or “HDMI2” function is selected.
- To send an audio signal from the HDMI (IN 1/2) jacks to the HDMI (OUT) jack, you may need to change the audio output setting. For details, see [Audio Output] in [Audio Settings] (page 48).
- You can change the audio input of a component that is connected to the HDMI (IN 1) jack to the TV (DIGITAL IN OPTICAL) jack. For details, see [HDMI1 Audio Input mode] in [HDMI Settings] (page 50). (European models only.)

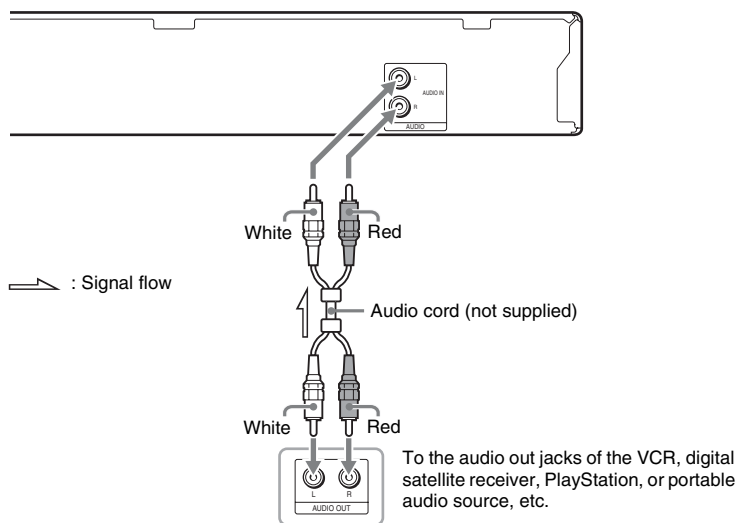
When the component does not have an HDMI OUT jack

Connect the system so that video signals from the system and other component are sent to the TV, and audio signals from the component are sent to the system as follows.



If the component plays sound only, connect the audio output of the component to the system.

Rear panel of the unit

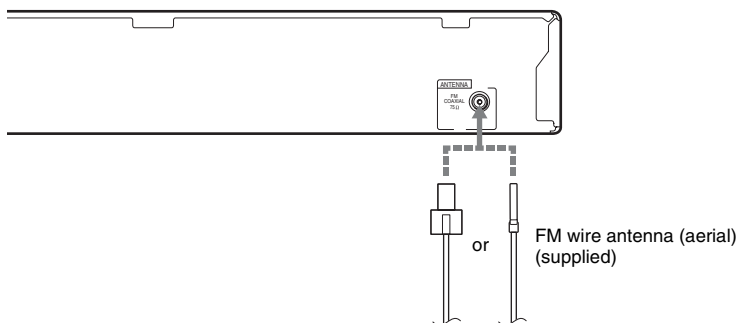


Note

- If you make connection above, set [Control for HDMI] in [HDMI Settings] of [System Settings] to [Off] (page 50).
- You can enjoy component sound by selecting the “AUDIO” function (page 22).

Connecting the antenna (aerial)

Rear panel of the unit



Note

- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

Tip

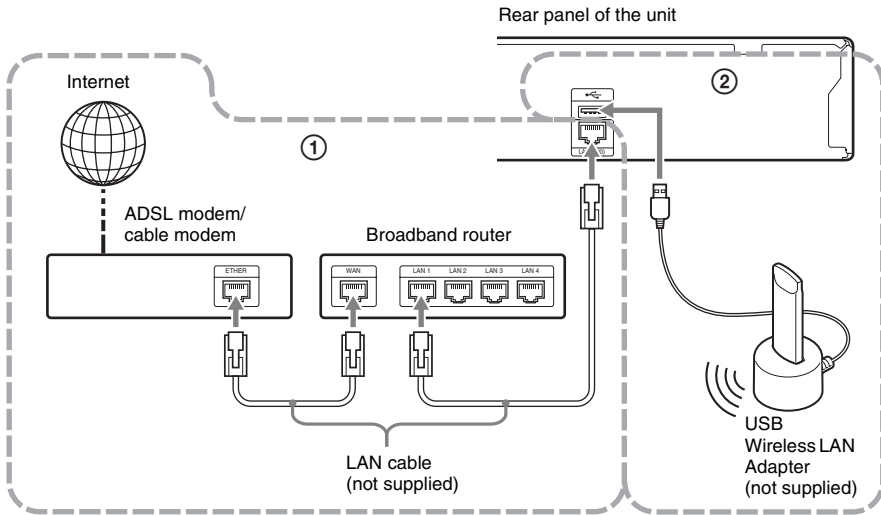
- If you have poor FM reception, use a 75-ohm coaxial cable (not supplied) to connect the unit to an outdoor FM antenna (aerial).

Step 3: Connecting to the Network

Note

- To connect the system to your network, you need to make network settings that suit your usage environment and components. For details, see “Setting up the Network” (page 42) and “[Network Settings]” (page 51).

Select the method based on your LAN (Local Area Network) environment.



① Wired Setup

Use a LAN cable to connect to the LAN (100) terminal on the unit.

② USB Wireless Setup

Use a wireless LAN via the USB Wireless LAN Adapter (Sony UWA-BR100* only).

The USB Wireless LAN Adapter may not be available in some regions/countries.

* As of November 2010.

Turn the unit off before connecting the extension cable or inserting the USB Wireless LAN Adapter. After inserting the USB Wireless LAN Adapter to the base and connecting the extension cable to the  (USB) port (front or rear), turn the unit on again.

Note

- The placement distance between the USB Wireless LAN Adapter and your wireless LAN router differs based on your usage environment. If the system cannot connect to the network or the network connection is unstable, move the USB Wireless LAN Adapter to a different position or place the USB Wireless LAN Adapter and the wireless LAN router closer to each other.
- You can also get the information for network settings from the following Sony support page:

For customers in Europe:

<http://support.sony-europe.com>

For customers in Taiwan:

<http://www.sony-asia.com/support/tw>

For customers in other countries/regions:

<http://www.sony-asia.com/support>

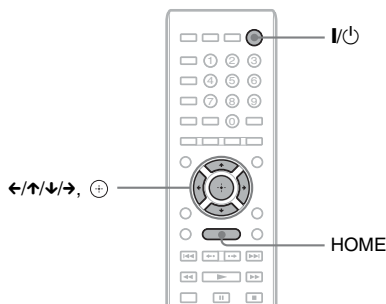
Step 4: Performing the Easy Setup

Before performing Step 4

Make sure all connections are secure, and then connect the AC power cord (mains lead).

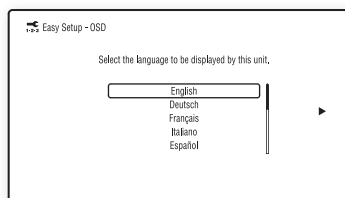
Follow the Steps below to make the basic adjustments for using the system.

Displayed items vary depending on the country model.



- 1** Turn on the TV.
- 2** Press I/Power.
- 3** Switch the input selector on your TV so that the signal from the system appears on the TV screen.

The Easy Setup Display for OSD language selection appears.



- 4** Perform the [Easy Setup]. Follow the on-screen instructions to make the basic settings using ←/↑/↓/→, and ⊕.

Depending on the connection method (page 14), perform the following setting.

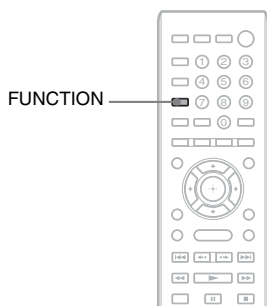
- HDMI cable connection: Follow the instructions that are displayed on the TV screen.
- Video cord connection: Select [16:9] or [4:3] so that the picture is displayed correctly.

To recall the Easy Setup Display

- 1** Press HOME.
The home menu appears on the TV screen.
- 2** Press ←/→ to select [Setup].
- 3** Press ↑/↓ to select [Easy Setup], then press ⊕.
- 4** Press ←/→ to select [Start], then press ⊕.
The Easy Setup Display appears.

Step 5: Selecting the Source

You can select the playback source.



Press FUNCTION repeatedly until the desired function appears in the front panel display.

Each time you press FUNCTION, the function changes as follows.

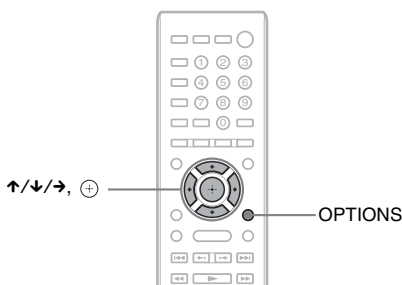
“BD/DVD” → “FM” → “HDMI1” →
 “HDMI2” → “TV” → “AUDIO” → “BD/
 DVD” → ...

Function	Source
“BD/DVD”	Disc, USB device, iPod/iPhone*, or network device to be played by the system
“FM”	FM radio (page 35)
“HDMI1”/ “HDMI2”	Component that is connected to the HDMI (IN 1) or HDMI (IN 2) jack on the rear panel (page 16)
“TV”	Component (TV, etc.) that is connected to the TV (DIGITAL IN OPTICAL) jack on the rear panel, or a TV compatible with the Audio Return Channel function that is connected to the HDMI (OUT) jack on the rear panel (page 14)
“AUDIO”	Component that is connected to the AUDIO (AUDIO IN L/R) jacks on the rear panel (page 16)

* Except for Russian models.

Step 6: Enjoying Surround Sound

After performing the previous Steps and starting playback, you can easily enjoy surround sound. You can also select pre-programmed surround settings that are tailored to different kinds of sound sources. They bring the exciting and powerful sound of movie theaters into your home.



Selecting surround settings based on your listening preference

The setting method differs depending on the function.

When playing via the “BD/DVD”* or “FM” function

- 1 Press OPTIONS.**
The option menu appears on the TV screen.
- 2 Press ↑/↓ to select [Surround Setting], then press ⊕.**
- 3 Press ↑/↓ repeatedly until the surround setting you want appears on the TV screen.**
See the table below for surround sound setting descriptions.
- 4 Press ⊕.**
The setting is made.

* Surround sound settings do not apply to Internet content.

When playing via the “HDMI1,” “HDMI2,” “TV,” or “AUDIO” function

- 1 Press OPTIONS.**
The option menu appears in the front panel display.
- 2 Press ↑/↓ repeatedly until “SUR. SET” appears in the front panel display, then press ⊕ or →.**
- 3 Press ↑/↓ repeatedly until the surround setting you want appears in the front panel display.**
See the table below for surround sound setting descriptions.
- 4 Press ⊕.**
The setting is made.
- 5 Press OPTIONS.**
The option menu in the front panel display turns off.

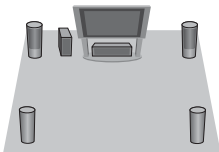
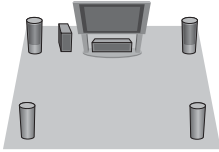
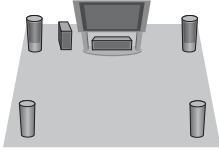
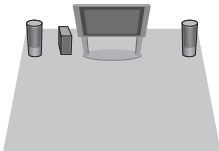
Note

- When the home menu is displayed on the TV screen, this setting can be changed by selecting the surround setting via [Surround Setting] in [Audio Settings] of [Setup] (page 48).

About speaker output of each surround setting

The table below describes the options when you connect all the speakers to the unit.

The default setting is [A.F.D. Multi] (“A.F.D. MULTI”).

Sound from	Surround setting	Effect
Depending on the source.	[A.F.D. Standard] “A.F.D. STD” (AUTO FORMAT DIRECT STANDARD)	The system discriminates the sound format of the source and presents sound as it was recorded/encoded.
	[A.F.D. Multi] “A.F.D. MULTI” (AUTO FORMAT DIRECT MULTI)	2 channel source: The system simulates surround sound from 2 channel sources and outputs sound from the 5.1 channel speakers by duplicating 2 channel source sound across each speaker. - Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source.
	[Dolby Pro Logic] “PRO LOGIC” [Dolby PL II Movie] “PLII MOVIE”	2 channel source: The system simulates surround sound from 2 channel sources and outputs sound from the 5.1 channel speakers. [Dolby Pro Logic] (“PRO LOGIC”) performs Dolby Pro Logic decoding. [Dolby PL II Movie] (“PLII MOVIE”) performs Dolby Pro Logic II movie mode decoding. - Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source.
	[DTS Neo:6 Cinema] “NEO6 CIN” [DTS Neo:6 Music] “NEO6 MUS”	2 channel source: The system simulates surround sound from 2 channel sources and produces 6.1 channel sound. [DTS Neo:6 Cinema] (“NEO6 CIN”) performs DTS Neo:6 Cinema mode decoding. [DTS Neo:6 Music] (“NEO6 MUS”) performs DTS Neo:6 Music mode decoding. - Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source.
	[2ch Stereo] “2CH ST.”	The system outputs the sound from the front speakers and subwoofer regardless of sound format or number of channels. Multi-channel surround formats are downmixed to 2 channels.

Note

- When you select [A.F.D. Multi] (“A.F.D. MULTI”), depending on the disc or source, the beginning of the sound may be cut off while the optimum mode is automatically selected. To avoid cutting the sound, select [A.F.D. Standard] (“A.F.D. STD”).
- When bilingual broadcast sound is input, [Dolby Pro Logic] (“PRO LOGIC”) and [Dolby PL II Movie] (“PLII MOVIE”) are not effective.
- Depending on the input stream, the surround settings may not be effective.
- When you play a Super Audio CD, surround settings are not activated.

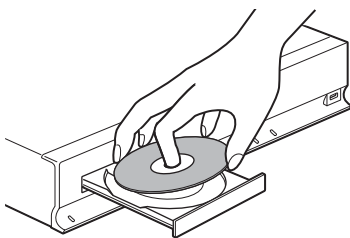
Tip

- You can also select the surround setting in [Surround Setting] of [Audio Settings] (page 48).
- For functions other than “BD/DVD,” you can check whether [Dolby Pro Logic] (“PRO LOGIC”), [Dolby PL II Movie] (“PLII MOVIE”), or the DTS Neo:6 mode is activated by pressing DISPLAY repeatedly so that the stream information/decoding status appears in the front panel display.

Playing a Disc

For playable discs, see “Playable Discs” (page 59).

- 1** Switch the input selector on your TV so that the signal from the system appears on your TV screen.
- 2** Press **▲**, and place a disc on the disc tray.



- 3** Press **▲** to close the disc tray.
● appears on the home menu and playback starts.
 If playback does not start automatically, select **●** in the **[Video]**, **[Music]**, or **[Photo]** category, and press **+**.

Enjoying BONUSVIEW/BD-LIVE

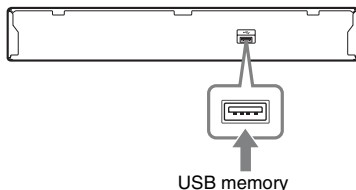
Some BD-ROMs with “BD-LIVE Logo*” have bonus content and other data that can be downloaded for enjoyment.

* BD-LIVE™

- 1** Connect the USB device to the **↔** (USB) port on the rear of the unit.

For local storage, use a 1 GB or larger USB memory.

Rear panel



2 Prepare for BD-LIVE (BD-LIVE only).

- Connect the system to a network (page 19).
- Set [BD Internet Connection] to [Allow] (page 49).

3 Insert a BD-ROM with BONUSVIEW/BD-LIVE.

The operation method differs depending on the disc. Refer to the operating instructions of the disc.

Tip

- To delete data in the USB memory, select [Erase BD Data] in **[Video]**, and press **+**. All data stored in the buda folder will be deleted.

Enjoying Blu-ray 3D

You can enjoy Blu-ray 3D Discs with the 3D logo*.



1 Prepare for Blu-ray 3D Disc playback.

- Connect the system to your 3D-compatible TV using a High Speed HDMI cable (not supplied).
- Set [3D Output Setting] and [TV Screen Size Setting for 3D] in [Screen Settings] (page 47).

2 Insert a Blu-ray 3D Disc.

The operation method differs depending on the disc. Refer to the operating instructions supplied with the disc.

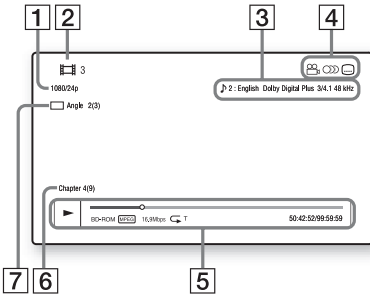
Tip

- Refer also to the operating instructions of your 3D-compatible TV.

Displaying the play information

You can check the playback information, etc., by pressing DISPLAY.
The displayed information differs depending on the disc type and system status.

Example: when playing a BD-ROM



- 1** Output resolution/Video frequency
- 2** Title number or name
- 3** The currently selected audio setting
- 4** Available functions (angle, audio, subtitle)
- 5** Playback information
Displays play mode, playing status bar, disc type, video codec, bit rate, repeat type, elapsed time, total playing time
- 6** Chapter number
- 7** The currently selected angle

Playing from a USB Device

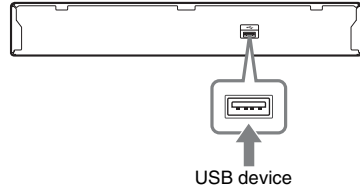
You can play video/music/photo files on the connected USB device.

For playable types of files, see “Playable Types of Files” (page 60).

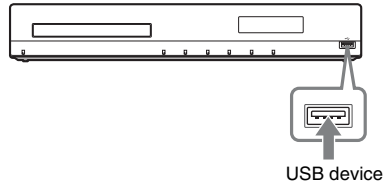
1 Connect the USB device to the (USB) port on the unit.

Refer to the operating instructions of the USB device before connecting.

Rear panel



Front panel



2 Press HOME.

The home menu appears on the TV screen.

3 Press ←/→ to select [Video], [Music], or [Photo].

4 Press ↑/↓ to select [USB device (front)] or [USB device (rear)], then press +.

Note

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

Enjoying an iPod/iPhone

(Except for Russian models)

You can enjoy the music/video/photo and charge the battery of an iPod/iPhone via the system.

Compatible iPod/iPhone models

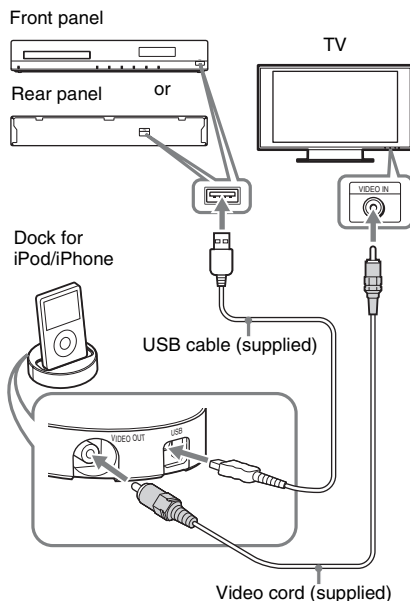
The compatible iPod/iPhone models are as follows. Update your iPod/iPhone with the latest software before using with the system.

Made for iPod touch 4th generation, iPod touch 3rd generation, iPod touch 2nd generation, iPod touch 1st generation, iPod nano 6th generation, iPod nano 5th generation (video camera), iPod nano 4th generation (video), iPod nano 3rd generation (video), iPod nano 2nd generation (aluminum), iPod nano 1st generation, iPod 5th generation (video), iPod classic, iPhone 4, iPhone 3GS, iPhone 3G, iPhone

To enjoy an iPod/iPhone via the system

- 1 Connect the Dock for iPod/iPhone (supplied) to the front or rear ⚡ (USB) port on the unit, then place the iPod/iPhone onto the Dock for iPod/iPhone.**

When you play a video/photo file, connect the video out jack of the Dock for iPod/iPhone to the video input jack of your TV with a video cord (supplied) before placing the iPod/iPhone onto the Dock for iPod/iPhone.



- 2 Press HOME.**
The home menu appears on the TV screen.
- 3 Press ⬅/➡ to select [Video], [Music], or [Photo].**
- 4 Press ⬆/⬆ to select [iPod (front)] or [iPod (rear)], then press ⬆.**
 - **If you selected [Video] or [Music] in Step 3**
The video/music files are listed on the TV screen. Go to the next Step.
 - **If you selected [Photo] in Step 3**
[Please change the TV input to the video input...] appears on the TV screen. Switch the input selector on your TV so that the signal from the iPod/iPhone appears on your TV screen. Then, start the slideshow by operating the iPod/iPhone directly.

5 Press /// and to select the file that you want to play.

The sound from the iPod/iPhone is played on the system.

When you play a video file, switch the input selector on your TV so that the signal from the iPod/iPhone appears on your TV screen.

You can operate the iPod/iPhone using the buttons on the remote.

For operation details, refer to the operating instructions of the iPod/iPhone.

Note

- To change a system setting, such as the surround setting, while viewing images from your iPod/iPhone on your TV, select the input on your TV for this system before operating the system.

To operate the iPod/iPhone using the remote

You can operate the iPod/iPhone using the buttons on the remote. The following table shows an example of buttons that can be used. (Depending on the iPod/iPhone model, the operation may be different.)

For [Video]/ [Music]

Press	Operation
	Starts play.
	Pauses play.
	Stops play.
or	Fast reverses or forwards.
or	Goes to the previous/next file or chapter (if any).

For [Photo]

Press	Operation
,	Starts/pauses play. When you press and hold either of these buttons for several seconds, the connected iPod/iPhone enters sleep mode.
	Pauses play.
or	Fast reverses or forwards.
or	Goes to the previous/next file. When you press and hold either of these buttons, the connected iPod/iPhone fast reverses or fast forwards.
DISPLAY	Turns the backlight on (or extends it for 30 seconds).

Press	Operation
OPTIONS,	Returns to previous display/folder hierarchy.
/	Selects the previous/next item.
,	Enters the selected item.

Note

- The iPod/iPhone is charged when connected to the system while the system is turned on.
- When [Auto Standby] is set to [On], the system may turn off automatically while you are using an iPod/iPhone.
- You cannot transfer songs onto the iPod/iPhone from this system.
- Sony cannot accept responsibility in the event that data recorded to iPod/iPhone is lost or damaged when using an iPod/iPhone connected to this unit.
- This product has been designed specifically to work with iPod/iPhone and has been certified to meet Apple performance standards.
- Do not remove the iPod/iPhone during operation. To avoid data corruption or damage to the iPod/iPhone, turn the system off when connecting or removing the iPod/iPhone.
- The system only recognizes iPods/iPhones that have previously been connected to the system.
- The System Audio Control function does not work while playing video/photo files via the iPod/iPhone.
- When you connect an iPod that is not compatible with the video output function and select [iPod (front)] or [iPod (rear)] in [Video] or [Photo], an alert message appears on the TV screen.
- The system can recognize up to 3,000 files (including folders).

Playing via a Network

Streaming BRAVIA Internet Video

BRAVIA Internet Video serves as a gateway delivering selected Internet content and a variety of on-demand entertainment straight to your unit.

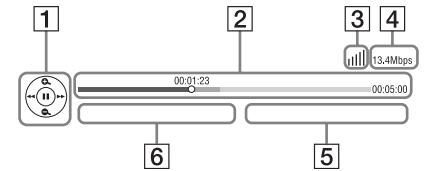
Tip

- Some Internet content requires registration via a PC before it can be played.

- 1 Prepare for BRAVIA Internet Video.**
Connect the system to a network (page 19).
- 2 Press $\leftarrow/\rightarrow$ to select [Video], [Music], or [Photo].**
- 3 Press $\uparrow/\downarrow$ to select an Internet content provider icon, then press $\oplus$.**
If the Internet content list has not been retrieved, it will be represented by an unacquired icon or a new icon.

To use the control panel

The control panel appears when the video file starts playing. The displayed items may differ depending on Internet content providers. To display again, press DISPLAY.



- 1 Control display**
Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ or $\oplus$ for playback operations.
- 2 Playing status bar**
Status bar, cursor indicating the current position, playing time, duration of the video file
- 3 Network condition indicator**
 Indicates signal strength for a wireless connection.
 Indicates a wired connection.

- 4** Network transmission speed
- 5** The next video file name
- 6** The currently selected video file name

Available Options

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

Common options

Items	Details
[Surround Setting]	Changes the surround setting (page 23).
[Repeat Setting]	Sets repeat playback.
[Favourites List]	Displays the Favorites List.
[Play/Stop]	Starts or stops playback.
[Play from start]	Plays the item from the beginning.
[Add to Favourites]	Adds an Internet content item to the Favorites List.
[Remove from Favourites]	Erases an Internet content item from the Favorites List.

[Video] only

Items	Details
[A/V SYNC]	Adjusts the gap between picture and sound. For details, see “Adjusting the delay between the picture and sound” (page 31).
[3D Output Setting]	Sets whether or not to output 3D video automatically. Note • 3D video from the HDMI (IN 1) or HDMI (IN 2) jack is output regardless of this setting.

Items	Details
[Video Settings]	• [Picture Quality Mode]: Selects the picture settings for different lighting environments. • [FNR]: Reduces the random noise appearing in the picture. • [BNR]: Reduces the mosaic-like block noise in the picture. • [MNR]: Reduces minor noise around the picture outlines (mosquito noise).
[Pause]	Pauses playback.
[Top Menu]	Displays the BD's or DVD's Top Menu.
[Menu/Popup Menu]	Displays the BD-ROM's Pop-up Menu or DVD's menu.
[Title Search]	Searches for a title on BD-ROMs/DVD VIDEOS and starts playback from the beginning.
[Chapter Search]	Searches for a chapter and starts playback from the beginning.
[Angle]	Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOS.
[IP Content Noise Reduction]	Adjusts the video quality for Internet content.

🎵 [Music] only

Items	Details
[Add Slideshow BGM]	Registers music files in the USB memory as slideshow background music (BGM).
[Shuffle Setting] (iPod/iPhone only)	Sets shuffle playback.

📷 [Photo] only

Items	Details
[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]. • [Play from Music CD]: Sets the tracks on CD-DAs (music CDs).
[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.

The setting method differs depending on the function.

Note

- Depending on the input stream, A/V SYNC may not be effective.

When playing video content via the "BD/DVD" function

1 Press **OPTIONS**.

The option menu appears on the TV screen.

2 Press **↑/↓** to select **[A/V SYNC]**, then press **⊕**.

3 Press **←/→** to adjust the delay between the picture and sound.

You can adjust from 0 ms to 300 ms in 25 ms increments.

4 Press $\oplus$.

The setting is made.

When playing via the “HDMI1,” “HDMI2,” “TV,” or “AUDIO” function

1 Press **OPTIONS**.

The option menu appears in the front panel display.

2 Press $\uparrow/\downarrow$ repeatedly until “A/V SYNC” appears in the front panel display, then press $\oplus$ or $\rightarrow$.

3 Press $\uparrow/\downarrow$ to adjust the delay between the picture and sound.

You can adjust from 0 ms to 300 ms in 25 ms increments.

4 Press $\oplus$.

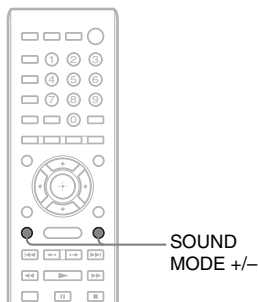
The setting is made.

5 Press **OPTIONS**.

The option menu in the front panel display turns off.

Selecting the Effect to Suit the Source

You can select a suitable sound mode for movies or music.



Press SOUND MODE +/- repeatedly during playback until the desired mode appears in the front panel display.

- **“AUTO”**: The system selects “MOVIE” or “MUSIC” automatically to produce the sound effect depending on the disc or sound stream.
- **“MOVIE”**: The system provides the sound for movies.
- **“MUSIC”**: The system provides the sound for music.
- **“SPORTS”**: The system adds reverberation for sports programs.
- **“GAME ROCK”**: The system provides the sound for music/rhythm games.

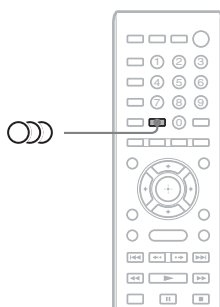
Note

- Depending on the disc or source, when you select “AUTO,” the beginning of the sound may be cut off as the system selects the optimum mode automatically. To avoid cutting the sound, select other than “AUTO.”
- Depending on the input stream, the sound mode may not be effective.
- When you play a Super Audio CD, this function does not work.

Selecting the Audio Format, Multilingual Tracks, or Channel

When the system is playing a BD/DVD VIDEO recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS) or multilingual tracks, you can change the audio format or language.

With a CD, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers.



Press  repeatedly during playback to select the desired audio signal.

The audio information appears on the TV screen.

■ BD/DVD VIDEO

Depending on the BD/DVD VIDEO, the choice of language varies.

When 4 digits are displayed, they indicate a language code. See “Language Code List” (page 63) to confirm which language the code represents. When the same language is displayed two or more times, the BD/DVD VIDEO is recorded in multiple audio formats.

■ DVD-VR

The types of sound tracks recorded on a disc are displayed.

Example:

- [ Stereo]
- [ Stereo (Audio1)]
- [ Stereo (Audio2)]
- [ Main]

- [♪ Sub]
- [♪ Main/Sub]

Note

- [♪ Stereo (Audio1)] and [♪ Stereo (Audio2)] do not appear when only one audio stream is recorded on the disc.

■ **CD**

- [♪ Stereo]: The standard stereo sound.
- [♪ 1/L]: The sound of the left channel (monaural).
- [♪ 2/R]: The sound of the right channel (monaural).
- [♪ L+R]: The sound of both the left and right channels output from each individual speaker.

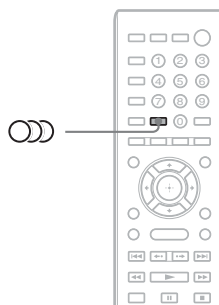
Enjoying Multiplex Broadcast Sound

(DUAL MONO)

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

Note

- To receive the Dolby Digital signal, you need to connect a TV or other component to the unit with a digital optical cord (page 14). If your TV is compatible with the Audio Return Channel function (pages 14,50), you can receive a Dolby Digital signal via an HDMI cable.

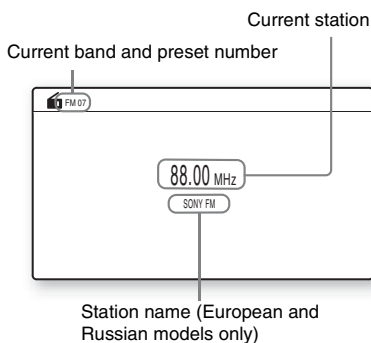
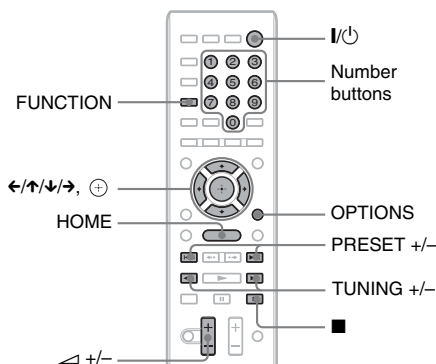


Press  **repeatedly until the desired signal appears in the front panel display.**

- **“MAIN”**: Sound of the main language will be output.
- **“SUB”**: Sound of the sub language will be output.
- **“MAIN/SUB”**: Mixed sound of both the main and sub languages will be output.

Listening to the Radio

You can enjoy radio sound with the system's speakers.



1 Press FUNCTION repeatedly until “FM” appears in the front panel display.

2 Select the radio station.

Automatic tuning

Press and hold TUNING +/− until the auto scanning starts.

[Auto Tuning] appears on the TV screen.

Scanning stops when the system tunes in a station.

To stop the automatic tuning manually, press TUNING +/− or ■.

Manual tuning

Press TUNING +/− repeatedly.

3 Adjust the volume by pressing
⏻ +/−.

If an FM program is noisy

If an FM program is noisy, you can select monaural reception. There will be no stereo effect, but reception will improve.

1 Press OPTIONS.

The option menu appears on the TV screen.

2 Press ↑/↓ to select [FM Mode], then press ⊕.

3 Press ↑/↓ to select [Monaural].

- [Stereo]: Stereo reception.
- [Monaural]: Monaural reception.

4 Press ⊕.

The setting is made.

To turn off the radio

Press I/⏻.

Presetting radio stations

You can preset up to 20 stations. Before tuning, make sure to turn down the volume to minimum.

1 Press FUNCTION repeatedly until “FM” appears in the front panel display.

2 Press and hold TUNING +/− until the auto scanning starts.

Scanning stops when the system tunes in a station.

3 Press OPTIONS.

The option menu appears on the TV screen.

4 Press ↑/↓ to select [Preset Memory], then press ⊕.

5 Press ↑/↓ to select the preset number you want, then press ⊕.

6 Repeat Steps 2 to 5 to store other stations.

To change the preset number

Select the desired preset number by pressing PRESET +/−, then perform the procedure from Step 3.

Selecting the preset station

- 1 Press **FUNCTION** repeatedly until “FM” appears in the front panel display.

The last received station is tuned in.

- 2 Press **PRESET +/-** repeatedly to select the preset station.

The preset number and frequency appear on the TV screen and front panel display.

Each time you press the button, the system tunes in one preset station.

Tip

- You can select the preset station number directly by pressing the number buttons.

Using the Radio Data System (RDS)

(European and Russian models only)

What is the Radio Data System?

The Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. This tuner offers convenient RDS features, such as station name display. The station name appears on the TV screen as well.

Receiving RDS broadcasts

Simply select a station from the FM band.

When you tune in a station that provides RDS services, the station name* appears in the front panel display.

* If an RDS broadcast is not received, the station name may not appear in the front panel display.

Note

- RDS may not work properly if the station you are tuned to is not transmitting the RDS signal properly, or if the signal strength is weak.
- Not all FM stations provide RDS service, nor do they provide the same type of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

Tip

- While receiving an RDS broadcast, each time you press **DISPLAY**, the display in the front panel display changes as follows:

Station name → Frequency → Preset number → Stream information/Decoding status* → Station name → ...

* Does not appear depending on the setting of [Surround Setting].

Using the Control for HDMI Function for “BRAVIA” Sync

This function is available on TVs with the “BRAVIA” Sync function.

By connecting Sony components that are compatible with the Control for HDMI function via an HDMI cable, operation is simplified.

Note

- Some functions can only be used if the connected TV is compatible, and require prior setting via the TV. Refer to the operating instructions of the TV.
- To use the System Audio Control function, you need to make an audio connection between the system and TV (page 14).

Using “BRAVIA” Sync

Control for HDMI - Easy Setting

You can set the system’s [Control for HDMI] function automatically by enabling the corresponding setting on the TV.

For details about the Control for HDMI function, see “[HDMI Settings]” (page 50)

System Power Off

You can turn the system off in sync with the TV.

Note

- The system does not turn off automatically while playing music or when set to the “FM” function.

One-Touch Play

When you press ► on the remote, the system and your TV turn on, and your TV’s input is set to the HDMI input to which the system is connected.

System Audio Control

You can simplify operation to enjoy sound from the TV or other components.

You can use the System Audio Control function as follows:

- When the system is turned on, the sound of the TV or other components can be output from the speakers of the system.
- When sound from the TV or other components is output via the speakers of the system, you can change the speakers to which TV sound is output by pressing **SPEAKERS TV↔AUDIO**.
- When sound from the TV or other components is output via the speakers of the system, you can adjust the volume and turn off the sound of the system by operating the TV.

Note

- While the TV is in PAP (picture and picture) mode, or the system is playing video/photo files from the iPod/iPhone, the System Audio Control function will not work.
- Depending on the TV, when you adjust the unit’s volume, the volume level appears on the TV screen. In this case, the volume level that appears on the TV screen and the unit’s front panel display may differ.

Audio Return Channel

You can enjoy TV sound via the system by using just one HDMI cable. For details of the setting, see “Connecting the TV” (page 14).

Remote Easy Control

You can control the basic functions of the system via the TV remote when the system’s video output is displayed on the TV screen.

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 the system off and on.

Routing Control

When you perform One-Touch Play on the connected component, the system turns on and sets the system’s function to “HDMI1” or “HDMI2” (depending on the HDMI input jack in use), and your TV’s input is automatically set to the HDMI input to which the system is connected.

Note

- Make sure that the component is connected to the system via an HDMI cable, and the Control for HDMI function of the connected component is set to on.

Setting the Speakers

[Speaker Settings]

To obtain the best possible surround sound, set connection of the speakers and their distance from your listening position. Then use the test tone to adjust the level and the balance of the speakers to the same level.

1 Press HOME.

The home menu appears on the TV screen.

2 Press $\leftarrow/\rightarrow$ to select [Setup].

3 Press $\uparrow/\downarrow$ to select [Audio Settings], then press $\oplus$.

4 Press $\uparrow/\downarrow$ to select [Speaker Settings], then press $\oplus$.

The [Speaker Settings] display appears.

5 Press $\uparrow/\downarrow$ to select the item, then press $\oplus$.

Check the following settings.

■ [Connection]

If you do not connect center or surround speakers, set the parameters for [Center] and [Surround]. Since the front speaker and subwoofer settings are fixed, you cannot change them.

[Front]

[Yes]

[Centre]

[Yes]: Normally select this.

[None]: Select this if no center speaker is used.

[Surround]

[Yes]: Normally select this.

[None]: Select this if no surround speaker is used.

[Subwoofer]

[Yes]

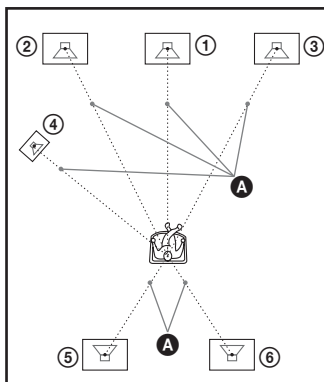
■ [Distance]

When you move the speakers, be sure to set the parameters of the distance (A) from the listening position to the speakers.

You can set the parameters from 0.0 to 7.0 meters.

The speakers in the illustration correspond to the following:

- ① Center speaker
- ② Front left speaker (L)
- ③ Front right speaker (R)
- ④ Subwoofer
- ⑤ Surround left speaker (L)
- ⑥ Surround right speaker (R)



[Front Left/Right] 3.0 m: Set the front speaker distance.

[Centre]* 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.

* This item appears when you set it to [Yes] in the [Connection] setting.

Note

- Depending on the input stream, [Distance] may not be effective.

■ [Level]

You can adjust the sound level of the speakers. 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.

[Centre]* 0.0 dB: Set the center speaker level.
 [Surround Left/Right]* 0.0 dB: Set the surround speaker level.
 [Subwoofer] 0.0 dB: Set the subwoofer level.
 * This item appears when you set it to [Yes] in the [Connection] setting.

■ [Test Tone]

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

[Off]: 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 $\uparrow/\downarrow$ to select [Level], then press $\oplus$.
- 3** Press $\uparrow/\downarrow$ to select the desired speaker type, then press $\oplus$.
- 4** Press $\leftarrow/\rightarrow$ to select the left or right speaker, then press $\uparrow/\downarrow$ to adjust the level.
- 5** Press $\oplus$.
- 6** Repeat Steps 3 to 5.
- 7** Press RETURN.
The system returns to the previous display.
- 8** Press $\uparrow/\downarrow$ to select [Test Tone], then press $\oplus$.
- 9** Press $\uparrow/\downarrow$ to select [Off], then press $\oplus$.

Note

- The test tone signals are not output from the HDMI (OUT) jack.

Tip

- To adjust the volume of all the speakers at one time, press $\triangleleft$ $\pm$ $\triangleright$.

Using the Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music. The time can be preset in intervals of 10 minutes.

Press SLEEP.

Each time you press SLEEP, the minutes display (the remaining time) in the front panel display changes by 10 minutes.

When you set the sleep timer, the remaining time appears every 5 minutes.

When the remaining time is less than 2 minutes, “SLEEP” flashes in the front panel display.

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly to select the desired time.

Deactivating the Buttons on the Unit

(Child Lock)

You can deactivate the buttons on the unit (except for I/O) for preventing misoperation, such as child mischief (child lock function).

Press ■ on the unit for more than 5 seconds.

“LOCKED” appears in the front panel display. The child lock function is activated and the buttons on the unit are locked. (You can operate the system by using the remote.)

To cancel, press ■ for more than 5 seconds so that “UNLOCK” appears in the front panel display.

Note

- When you operate the buttons on the unit while the child lock function is on, “LOCKED” flashes in the front panel display.

Controlling Your TV with the Supplied Remote

By adjusting the remote signal, you can control your TV with the supplied remote.

Note

- When you replace the batteries of the remote, the code number may reset itself to the default (SONY) setting. Reset the appropriate code number.

Preparing the remote for controlling the TV

Press and hold TV I/⏻ while entering your TV's manufacturer's code (see the table) using the number buttons. Then release TV I/⏻.

If the setting is unsuccessful, the currently registered code is not changed. Re-enter the code number.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the code that works with your TV.

Manufacturer	Code number
SONY	01 (default)
LG	05
PANASONIC	06
PHILIPS	02, 03, 07
SAMSUNG	02, 08
TOSHIBA	04

Changing the Brightness of the Front Panel Display

Press DIMMER.

Each time you press DIMMER, the brightness of the front panel display is changed.

Saving Power in Standby Mode

Check that the following settings are both made:

- [Control for HDMI] in [HDMI Settings] is set to [Off] (page 50).
- [Quick Start Mode] is set to [Off] (page 50).

Browsing Websites

You can connect to the Internet and enjoy websites like the Sony homepage using the system.

1 Prepare for Internet browsing.

Connect the system to a network (page 19).

2 Press HOME.

The home menu appears on the TV screen.

3 Press $\leftarrow/\rightarrow$ to select [Network] .

4 Press $\uparrow/\downarrow$ to select **[Internet Browser]**, then press $\oplus$.

The [Internet Browser] display appears.

Note

- Some websites may not display correctly, or not function.

To enter a URL

Select [URL entry] from the options menu.

Enter the URL using the software keyboard, then select [Enter].

To set the default start page

While the page you want to set is displayed, select [Set as start page] from the options menu.

To return to the previous page

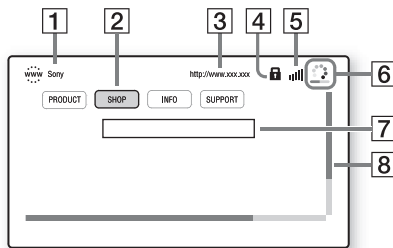
Select [Previous page] from the options menu. If the previous page does not appear even if you select [Previous page], select [Window List] from the options menu and select the page you want to return to from the list.

To quit Internet Browser

Press HOME.

Internet Browser display

You can check website information by pressing DISPLAY. The display information differs depending on the website and page status.



1 Page title

2 Cursor

Move by pressing $\leftarrow/\uparrow/\downarrow/\rightarrow$. Place the cursor on the link you want to view, then press $\oplus$. The linked website is displayed.

3 Page address

4 SSL icon

Appears when the linked URL is secured.

5 Signal strength indicator

Appears when the system is connected to a wireless network.

6 Progress bar/Loading icon

Appears when the page is being read, or during file download/transfer.

7 Text input field

Press $\oplus$, then choose [Input] from the options menu to open the software keyboard.

8 Scroll bar

Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to move the page display left, up, down, or right.

Available options

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

Items	Details
[Browser Setup]	Displays the Internet Browser settings. • [Zoom]: Increases or decreases the size of the displayed contents. • [JavaScript Setup]: Sets whether to enable or disable JavaScript. • [Cookie Setup]: Sets whether or not to accept browser cookies. • [SSL Alarm Display]: Sets whether to enable or disable SSL.
[Input]	Displays the software keyboard to enter characters while browsing a website.
[Break]	Moves the cursor to the next line in the text input field.
[Delete]	Erases one character on the left side of the cursor during text input.
[Window List]	Displays a list of all currently opened websites. Allows you to return to a previously displayed website by selecting the window.
[Bookmark List]	Displays the bookmark list.
[Character encoding]	Sets the character code.
[Previous page]	Moves to a previously displayed page.
[Next page]	Moves to the previously displayed next page.
[Cancel loading]	Stops loading a page.
[Reload]	Reloads the same page.
[URL entry]	Allows you to enter a URL when the software keyboard is displayed.
[Add to Bookmark]	Adds the currently displayed website to the bookmark list.

Items	Details
[Set as start page]	Sets the currently displayed website as the default start page.
[Open in new window]	Opens a link in a new window.
[Display certificate]	Displays server certificates sent from pages that support SSL.

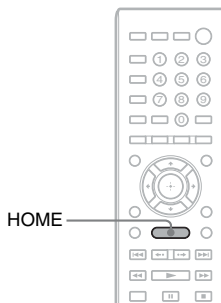
Setting up the Network

[Internet Settings]

Before setting, connect the system to the network. For details, see “Step 3: Connecting to the Network” (page 19).

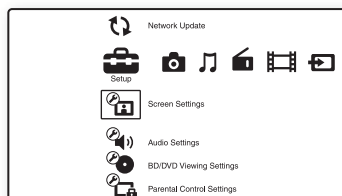
To open the setting display

1 Press **HOME**.

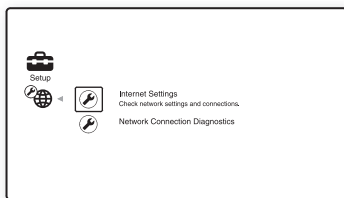


The home menu appears on the TV screen.

2 Press **↔** to select **[Setup]**.

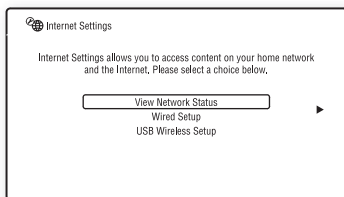


- 3** Press $\uparrow/\downarrow$ to select [Network Settings], then press $\oplus$.



- 4** Press $\uparrow/\downarrow$ to select [Internet Settings], then press $\oplus$.

The [Internet Settings] display appears.



Note

- The [Internet Settings] items are necessary to connect to the Internet. Enter the respective (alphanumeric) values for your broadband router or Wireless LAN router. The items that need to be set may differ, depending on the Internet service provider or the router. For details, refer to the instruction manuals that have been provided by your Internet service provider or supplied with the router.
- For more information, go to the following URL.

For customers in Europe:
<http://support.sony-europe.com>

For customers in Taiwan:
<http://www.sony-asia.com/support/tw>

For customers in other countries/regions:
<http://www.sony-asia.com/support>

When connecting to the LAN with a LAN cable

Follow the Steps below for connecting to a LAN (Local Area Network).

Auto setting

- 1** Press $\uparrow/\downarrow$ to select [Wired Setup] on the [Internet Settings] display, then press $\oplus$.

- 2** Press $\uparrow/\downarrow$ to select [Auto], then press $\oplus$.

The system performs the network setting automatically, and internet settings appear on the TV screen.

- 3** Press $\rightarrow$.

- 4** Press $\uparrow/\downarrow$ to select [Save & Connect], then press $\oplus$.

The system starts checking the network connection.

- 5** Check that the message [Internet Settings is now complete.] appears, then press $\oplus$.

The setup is finished. If the message does not appear, follow the on-screen messages.

Manual setting

- 1** Press $\uparrow/\downarrow$ to select [Wired Setup] on the [Internet Settings] display, then press $\oplus$.

- 2** Press $\uparrow/\downarrow$ to select [Custom], then press $\oplus$.

3 Press **↑/↓** to select the network setting type, then press **+**.

- [Auto]: The system sets the IP address automatically, and the [DNS Settings] display appears.

When you select [Auto] and press **+**, the system sets the DNS setting automatically.

When you select [Specify IP address] and press **+**, enter the DNS settings manually.

Press **←/↑/↓/→** and the number buttons to set the following items, then press **+**.

- [Primary DNS]
- [Secondary DNS]

- [Specify IP address]: Enter the network settings manually according to your network environment.

Press **←/↑/↓/→** and the number buttons to set the following items, then press **+**.

- [IP Address]
- [Subnet Mask]
- [Default Gateway]
- [Primary DNS]
- [Secondary DNS]

4 Press **↑/↓** to select the proxy server setting, then press **+**.

- [No]: A proxy server is not used.
- [Yes]: Enter the proxy server setting.
Press **←/↑/↓/→** and the number buttons, then press **+**.

The value of the internet settings appears on the TV screen.

5 Press **→**.

6 Press **↑/↓** to select [Save & Connect], then press **+**.

The system starts checking the network connection.

7 Check that the message [Internet Settings is now complete.] appears, then press **+**.

The setup is finished. If the message does not appear, follow the on-screen messages.

When connecting to the wireless LAN with the USB Wireless LAN Adapter

Follow the Steps below for connecting to a wireless LAN (Local Area Network).

When your wireless router is compatible with the WPS function

1 Press **↑/↓** to select [USB Wireless Setup] on the [Internet Settings] display, then press **+**.

2 Press **↑/↓** to select [Wi-Fi Protected Setup (WPS)], then press **+**.

3 Activate the WPS function of your wireless router, press **↑/↓** to select [Start], then press **+**.

For details about activating the WPS function, see the operating instructions of your router.

4 Check that the message [Wi-Fi Protected Setup was successful.] appears, then press **→**.

Setup of wireless LAN connectivity and the IP address is finished.

Next, enter the proxy server setting. Follow Steps 4 to 7 of “Manual setting” in “When connecting to the LAN with a LAN cable” above.

When your wireless router is not compatible with the WPS function

1 Press **↑/↓** to select [USB Wireless Setup] on the [Internet Settings] display, then press **+**.

2 Press **↑/↓** to select [Scan], then press **+**.

The system searches for available wireless LANs, then the list of wireless LANs appears.

- 3** Press **↑/↓** to select the wireless LAN name, then press **+**.

■ When the selected wireless LAN is unsecured

Setup of wireless LAN connectivity is finished. Next, enter the IP address settings by following the Steps of “Auto setting” or “Manual setting” in “When connecting to the LAN with a LAN cable” above.

■ When the selected wireless LAN is secured

The display for entering a WEP or WPA key appears. Go to Step 5.

■ To specify the wireless LAN name
Select [Manual Entry].

The input display appears. Enter the wireless LAN name by following the on-screen messages, then press **→**.

- 4** Press **↑/↓** to select the security mode, then press **+**.

- [None]: Select this if the wireless LAN is unsecured. Setup of wireless LAN connectivity is finished. Next, enter the IP address settings by following the Steps of “Auto setting” or “Manual setting” in “When connecting to the LAN with a LAN cable” above.
- [WEP]: The wireless LAN is protected by a WEP key.
- [WPA/WPA2-PSK]: The wireless LAN is protected by a WPA-PSK or WPA2-PSK.
- [WPA2-PSK]: The wireless LAN is protected by a WPA2-PSK.

- 5** Enter the WEP key/WPA key by following the on-screen messages, then press **→**.

Setup of wireless LAN connectivity is finished. Next, enter the IP address settings by following the Steps of “Auto setting” or “Manual setting” in “When connecting to the LAN with a LAN cable” above.

About wireless LAN security

Since communication via the wireless LAN function is established by radio waves, the wireless signal may be susceptible to interception. To protect wireless communication, this system supports various security functions. Be sure to correctly configure the security settings in accordance with your network environment.

No Security

Although you can easily make settings, anyone can intercept wireless communication or intrude into your wireless network, even without any sophisticated tools. Keep in mind that there is a risk of unauthorized access or interception of data.

WEP

WEP applies security to communications to prevent outsiders from intercepting communications or intruding into your wireless network. WEP is a legacy security technology that enables older device which do not support TKIP/AES to be connected.

WPA-PSK (TKIP), WPA2-PSK (TKIP)

TKIP is a security technology developed in response to the deficiencies of WEP. TKIP assures a higher security level than WEP.

WPA-PSK (AES), WPA2-PSK (AES)

AES is a security technology that uses an advanced security method distinct from WEP and TKIP.

AES assures a higher security level than WEP or TKIP.

Settings and Adjustments

Using the Setup Display

You can make various adjustments of items such as picture and sound.

Select  (Setup) on the home menu when you need to change the settings of the system. The default settings are underlined.

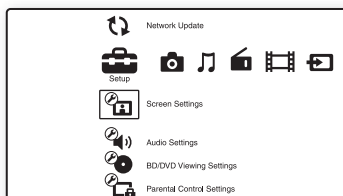
Note

- Playback settings stored in the disc take priority over the Setup Display settings and not all the functions described may work.

1 Press HOME.

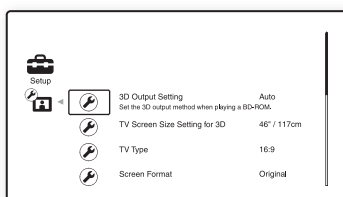
The home menu appears on the TV screen.

2 Press to select [Setup].



3 Press to select the setup category icon to change, then press .

Example: [Screen Settings]

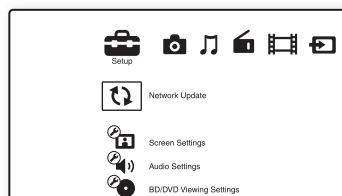


You can setup the following options.

Icon	Explanation
	[Network Update] (page 46) Updates the software of the system.
	[Screen Settings] (page 47) Makes the screen settings according to the type of connecting jacks.

Icon	Explanation
	[Audio Settings] (page 48) Makes the audio settings according to the type of connecting jacks.
	[BD/DVD Viewing Settings] (page 49) Makes detailed settings for BD/DVD playback.
	[Parental Control Settings] (page 49) Makes detailed settings for the Parental Control function.
	[Music Settings] (page 50) Makes detailed settings for Super Audio CD playback.
	[System Settings] (page 50) Makes the system-related settings.
	[Network Settings] (page 51) Makes detailed settings for Internet and network.
	[Easy Setup] (page 51) Re-runs the Easy Setup to make the basic settings.
	[Resetting] (page 51) Resets the system to the factory settings.

[Network Update]



You can update and improve the functions of the system.

For information about update functions, refer to the following website:

For customers in Europe:
<http://support.sony-europe.com>

For customers in Taiwan:
<http://www.sony-asia.com/support/tw>

For customers in other countries/regions:
<http://www.sony-asia.com/support>

During a software update, “UPDATING” appears in the front panel display. After the update completes, the main unit automatically turns off. Please wait for the software update to complete; do not turn the main unit on or off, or operate the main unit or TV.

[Screen Settings]

■ [3D Output Setting]

[Auto]: Normally select this.

[Off]: Select this to display all contents in 2D.

Note

- 3D video from the HDMI (IN 1) or HDMI (IN 2) jack is output regardless of this setting.

■ [TV Screen Size Setting for 3D]

Sets the screen size of your 3D compatible TV.

Note

- This setting does not apply to 3D video from the HDMI (IN 1) or HDMI (IN 2) jack.

■ [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.

■ [Screen Format]

[Original]: Select this when connecting to a TV with a wide-mode function. Displays a 4:3 screen picture in 16:9 aspect ratio even on a wide-screen TV.

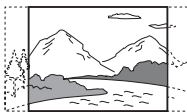
[Fixed Aspect Ratio]: Changes the picture size to fit the screen size with the original picture aspect ratio.

■ [DVD Aspect Ratio]

[Letter Box]: Displays a wide picture with black bands on the top and bottom.



[Pan & Scan]: Displays a full-height picture on the entire screen, with trimmed sides.



■ [Cinema Conversion Mode]

[Auto]: Normally select this. The unit automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method.

[Video]: The conversion method suited for video-based material will always be selected regardless of the material.

■ [Output Video Format]

[HDMI]: Normally select [Auto]. Select [Original Resolution] to output the resolution recorded on the disc. (When the resolution is lower than SD resolution, it is scaled up to SD resolution.)

[Video]: Automatically sets the lowest resolution.

■ [BD/DVD-ROM 1080/24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI (OUT) jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [YCbCr/RGB (HDMI)]

[Auto]: Automatically detects the type of external device, and 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.

[16bit], [12bit], [10bit]: Outputs 16bit/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.

■ [Pause Mode] (BD/DVD VIDEO/DVD-R/DVD-RW only)

[Auto]: The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.

[Frame]: The picture, including subjects that do not move dynamically, is output in high resolution.



[Audio Settings]

■ [BD Audio MIX Setting]

[On]: Outputs the audio obtained by mixing the interactive audio and secondary audio to the primary audio.

[Off]: Outputs the primary audio only.

■ [Audio DRC]

You can compress the dynamic range of the sound track.

[Auto]: Performs playback at the dynamic range specified by the disc (BD-ROM only).

[On]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.

[Off]: No compression of dynamic range.

■ [Attenuate - AUDIO]

Distortion may occur when you listen to a component connected to the AUDIO (AUDIO IN L/R) jacks. You can prevent distortion by reducing the input level on the unit.

[On]: Attenuates the input level. The output level is changed.

[Off]: Normal input level.

■ [Audio Output]

You can select the output method where the audio signal is 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) jack.

[HDMI]: Outputs sound from the HDMI (OUT) jack only. Sound format depends on the connected component.

Note

- When [Control for HDMI] is set to [On] (page 50), [Audio Output] is set to [Speaker + HDMI] automatically and this setting cannot be changed.
 - Audio signals are not output from the HDMI (OUT) jack when [Audio Output] is set to [Speaker + HDMI] and [HDMI1 Audio Input Mode] (page 50) is set to [TV]. (European models only.)
 - When [Audio Output] is set to [HDMI], the output signal format for the "TV" function is 2-channel linear PCM.
-

■ [Sound Effect]

You can set the system's sound effects (SOUND MODE and [Surround Setting]) to on/off.

[On]: Enables all of the system's sound effects. The upper limit of sampling frequency is set to 48 kHz.

[Off]: The sound effects are disabled. Select this when you do not want to set the upper limit of sampling frequency.

■ [Surround Setting]

You can select the surround setting. For details, see "Step 6: Enjoying Surround Sound" (page 23)

■ [Speaker Settings]

To obtain the best possible surround sound, set the speakers. For details, see "Setting the Speakers" (page 38).

[BD/DVD Viewing Settings]

You can make detailed settings for BD/DVD playback.

■ [BD/DVD Menu]

You can select the default menu language for BD-ROMs or DVD VIDEOS.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 63).

■ [Audio]

You can select the default track language for BD-ROMs or DVD VIDEOS.

When you select [Original], the language given priority in the disc is selected.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 63).

■ [Subtitle]

You can select the default subtitle language for BD-ROMs or DVD VIDEOS.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 63).

■ [BD Hybrid Disc Playback Layer]

[BD]: Plays BD layer.

[DVD/CD]: Plays DVD or CD layer.

■ [BD Internet Connection]

[Allow]: Normally select this.

[Do not allow]: Prohibits Internet connection.

[Parental Control Settings]

■ [Password]

Set or change the password for the Parental Control function. A password allows you to set a restriction on BD-ROM, DVD VIDEO, or Internet video playback. If necessary, you can differentiate the restriction levels for BD-ROMs and DVD VIDEOS.

■ [Parental Control Area Code]

Playback of some BD-ROMs or DVD VIDEOS can be limited according to the geographic area. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [BD Parental Control]

Playback of some BD-ROMs can be limited according to the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [DVD Parental Control]

Playback of some DVD VIDEOS can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [Internet Video Parental Control]

Playback of some Internet videos can be limited according to the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [Internet Video Unrated]

[Allow]: Allows the playback of unrated Internet videos.

[Block]: Blocks the playback of unrated Internet videos.



[Music Settings]

You can make detailed settings for Super Audio CD playback.

■ [Super Audio CD Playback Layer]

[Super Audio CD]: Plays the Super Audio CD layer.

[CD]: Plays the CD layer.

■ [Super Audio CD Playback Channels]

[DSD 2ch]: Plays the 2ch area.

[DSD Multi]: Plays the multi-channel area.



[System Settings]

You can make the system-related settings.

■ [OSD]

You can select your language for the system on-screen displays.

■ [HDMI Settings]

[Control for HDMI]

[On]: On. You can operate mutually between components that are connected with an HDMI cable.

[Off]: Off.

[Audio Return Channel]

This function is available when you connect the system and TV that is compatible with the Audio Return Channel function.

[Auto]: The system can receive the digital audio signal of the TV automatically via an HDMI cable.

[Off]: Off.

Note

- This function is available only when [Control for HDMI] is set to [On].

[HDMI1 Audio Input Mode] (European models only)

You can select the audio input of the component that is connected to the HDMI (IN 1) jack.

[HDMI1]: The sound of the component that is connected to the HDMI (IN 1) jack is input from the HDMI (IN 1) jack.

[TV]: The sound of the component that is connected to the HDMI (IN 1) jack is input from the TV (DIGITAL IN OPTICAL) jack.

■ [Quick Start Mode]

[On]: Shortens the startup time from standby mode. You can operate the system quickly after turning it on.

[Off]: The default setting.

■ [Auto Standby]

[On]: Turns on the [Auto Standby] function. When you do not operate the system for about 30 minutes, the system enters standby mode automatically.

[Off]: Turns off the function.

■ [Auto Display]

[On]: Automatically displays information on the screen when changing the viewing titles, picture modes, audio signals, etc.

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

■ [Screen Saver]

[On]: Turns on the screen saver function.

[Off]: Off.

■ [Software Update Notification]

[On]: Sets the system to inform you of newer software version information (page 46).

[Off]: Off.

■ [System Information]

You can display the system's software version information and the MAC address.



[Network Settings]

You can make detailed settings for Internet and network.

■ [Internet Settings]

Connect the system to the network beforehand.
For details, see “Step 3: Connecting to the Network” (page 19).

■ [Network Connection Diagnostics]

You can run the network diagnostic to check if the network connection has been made properly.



1·2·3 [Easy Setup]

Re-runs the Easy Setup to make the basic 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.

■ [Initialize Personal Information]

You can erase your personal information stored in the system.

Precautions

On safety

- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the system, or place the system near water, such as near a bathtub or shower room. Should any solid object or liquid fall into the cabinet, unplug the system and have it checked by qualified personnel before operating it any further.
- Do not touch the AC power cord (mains lead) with wet hands. Doing so may cause an electric shock.

On power sources

- Unplug the unit from the wall outlet (mains) if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the system in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the system. The system is equipped with a high power amplifier. If the ventilation slots are blocked, the system can overheat and malfunction.
- Do not place the system on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the system in a confined space, such as a bookshelf or similar unit.
- Do not install the system near heat sources such as radiators, air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Do not install the system in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the system and discs away from components with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the system.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the unit. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any disc. If you do not, the disc may be damaged.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

On adjusting volume

- Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is suddenly played.

On cleaning

- Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene. If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

On cleaning discs, disc/lens cleaners

- **Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.**

On replacement of parts

- In the events that this system is repaired, repaired parts may be collected for reuse or recycling purposes.

On your TV's color

- If the speakers should cause the TV screen to have color irregularity, turn off the TV then turn it on after 15 to 30 minutes. If color irregularity should persist, place the speakers further away from the TV set.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On moving the system

- Before moving the system, make sure that there is no disc inserted, and remove the AC power cord (mains lead) from the wall outlet (mains).

Notes about the Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

This system can only play a standard circular disc. Using neither standard nor circular discs (e.g., card, heart, or star shape) may cause a malfunction.

Do not use a disc that has a commercially available accessory attached, such as a label or ring.

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.

Note that if service personnel changes some parts during repair, these parts may be retained.

General

Symptom	Problems and solutions
The power is not turned on.	• Check that the AC power cord (mains lead) is connected securely.
The remote does not function.	• The distance between the remote and the unit is too far. • The batteries in the remote are weak.
The disc tray does not open and you cannot remove the disc even after you press  .	• Try the following: ① Press and hold  and  on the unit for more than 5 seconds to open the disc tray. ② Remove the disc. ③ Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.
The system does not work normally.	• Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.

Messages

Symptom	Problems and solutions
[A new software version is available. Please go to the “Setup” section of the menu and select “Network Update” to perform the update.] appears on the TV screen.	• See [Network Update] (page 46) to update the system to a newer software version.
“PROTECTOR” and “PUSH PWR” appear alternately in the front panel display.	Press  to turn off the system, and check the following items after “STANDBY” disappears. • Are the + and – speaker cords short-circuited? • Are you using only the specified speakers? • Is anything blocking the ventilation holes of the system? • After checking the above items and fixing any problems, turn on the system. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.
“LOCKED” appears in the front panel display.	• Set the child lock function to off (page 39).
“DEMO LOCK” appears in the front panel display.	• Contact your nearest Sony dealer or local authorized Sony service facility.
“Exxxx” appears in the front panel display.	• Contact your nearest Sony dealer or local authorized Sony service facility and give the error code.
 appears without any messages on the entire TV screen.	• Contact your nearest Sony dealer or local authorized Sony service facility.

Picture

Symptom	Problems and solutions
There is no picture.	• Check the output method on your system (page 14).
There is no picture when you make an HDMI cable connection.	• The unit is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant (“HDMI” on the front panel does not light up) (page 14).
3D images from the HDMI (IN 1) or HDMI (IN 2) jack do not appear on the TV screen.	• Depending on the TV or video component, 3D images may not appear.
No picture appears when the video output resolution selected in [Output Video Format] is incorrect.	• Press and hold ► and VOLUME – on the unit for more than 5 seconds to reset the video output resolution to the lowest resolution.
The dark area of the picture is too dark/the bright area is too bright or unnatural.	• Set [Picture Quality Mode] to [Standard] (default) (page 30).
The picture is not output correctly.	• Check the [Output Video Format] settings in [Screen Settings] (page 47). • If the analog and digital signals are output at the same time, set [BD/DVD-ROM 1080/24p Output] in [Screen Settings] to [Off] (page 47). • For BD-ROMs, check the [BD/DVD-ROM 1080/24p Output] settings in [Screen Settings] (page 47).
Picture noise appears.	• Clean the disc. • If the picture output from your system goes through your VCR to get to your TV, the copy-protection signal applied to some BD/DVD programs could affect picture quality. If you still experience problems even when you connect your unit directly to your TV, try connecting your unit to the other input jacks.
An image is not displayed on the entire TV screen.	• Check the setting of [TV Type] in [Screen Settings](page 47). • The aspect ratio on the disc is fixed.
Color irregularity occurs on the TV screen.	• If the speakers are used with a CRT-based TV or projector, install the speakers at least 0.3 meters from the TV set. • If the color irregularity persists, turn off the TV set once, then turn it on 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 speakers.
There is no picture after playing a video/photo file on the iPod/iPhone. (European and Australian models only.)	• Select the input on your TV for this system.

Sound

Symptom	Problems and solutions
There is no sound.	• The speaker cord is not connected securely. • Check the speaker settings (page 38).
The Super Audio CD sound of a component that is connected to the HDMI (IN 1) or HDMI (IN 2) jack is not output.	• HDMI (IN 1) and HDMI (IN 2) does not accept an audio format that contains copy protection. Connect the analog audio output of the component to the AUDIO (AUDIO IN L/R) jacks of the unit.
There is no sound from the TV via the HDMI (OUT) jack when using the Audio Return Channel function.	• Set [Control for HDMI] in [HDMI Settings] of [System Settings] to [On] (page 50). Also, set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Auto] (page 50). • Make sure that your TV is compatible with the Audio Return Channel function. • Make sure that an HDMI cable is connected to a jack on your TV that is compatible with the Audio Return Channel function.
The system does not output sound correctly when connected to a set-top box.	• Set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Off] (page 50).
Severe hum or noise is heard.	• Move your TV away from the audio components. • Clean the disc.
The sound loses stereo effect when you play a CD.	• Select stereo sound by pressing  (page 33).
The sound comes from the center speaker only.	• Depending on the disc, the sound may come from the center speaker only.
No sound or only a very low-level sound is heard from the surround speakers.	• Check the speaker connections and settings (pages 13, 38). • Check the surround setting (page 23). • Depending on the source, the effect of the surround speakers may be less noticeable. • A 2 channel source is being played.
Distortion occurs in the sound of a connected component.	• Reduce the input level for the connected component by setting [Attenuate - AUDIO] (page 48).

Tuner

Symptom	Problems and solutions
Radio stations cannot be tuned in.	• Check that the antenna (aerial) is connected securely. Adjust the antenna (aerial) or connect an external antenna (aerial) if necessary. • The signal strength of the stations is too weak (when tuning in with automatic tuning). Use manual tuning.

Playback

Symptom	Problems and solutions
The disc does not play.	• The region code on the BD/DVD does not match the system. • Moisture has condensed inside the unit and may cause damage to the lenses. Remove the disc and leave the unit turned on for about half an hour. • The system cannot play a recorded disc that is not correctly finalized (page 59).
File names are not displayed correctly.	• The system can only display ISO 8859-1-compliant character formats. Other character formats may be displayed differently. • Depending on the writing software used, the input characters may be displayed differently.
A disc does not start playing from the beginning.	• Resume play has been selected. Press OPTIONS and select [Play from start], then press ⏮.
Playback does not start from the resume point where you last stopped playing.	• The resume point may be cleared from memory depending on the disc when – you open the disc tray. – you disconnect the USB device. – you play other content. – you turn off the unit.
The language for the soundtrack/subtitle or angles cannot be changed.	• Try using the BD's or DVD's menu. • Multi-lingual tracks/subtitles or multi-angles are not recorded on the BD or DVD being played.
Bonus contents or other data that are contained in a BD-ROM cannot be played.	• Try the following: ① Remove the disc. ② Turn the system off. ③ Remove and reconnect the USB device (page 27). ④ Turn the system on. ⑤ Insert the BD-ROM with BONUSVIEW/BD-LIVE.

USB device

Symptom	Problems and solutions
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  (USB) port. • Check if the USB device or a cable is damaged. • Check if 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 unit.

BRAVIA Internet Video

Symptom	Problems and solutions
The picture/sound is poor/certain programs display with a loss of detail, especially during fast-motion or dark scenes.	• Picture/sound quality may be poor depending on Internet content providers. • Picture/sound quality may be improved by changing the connection speed. Sony recommends a connection speed of at least 2.5 Mbps for standard-definition video and 10 Mbps for high-definition video. • Not all videos contain sound.
The picture is small.	• Press ↑ to zoom in.

“BRAVIA” Sync ([Control for HDMI])

Symptom	Problems and solutions
The [Control for HDMI] function does not work (“BRAVIA” Sync).	• Check that [Control for HDMI] is set to [On] (page 50). • If you change the HDMI connection, turn the system off and on again. • If power failure occurs, set [Control for HDMI] to [Off], then set [Control for HDMI] to [On] (page 50). • Check the following and refer to the operating instructions supplied with the component. – the connected component is compatible with the [Control for HDMI] function. – the connected component’s setting for the [Control for HDMI] function is correct.

Network connection

Symptom	Problems and solutions
The system cannot connect to the network.	• Check the network connection (page 19) and the network settings (page 51).

USB wireless LAN connection

Symptom	Problems and solutions
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.
You cannot connect the system to your wireless LAN router.	• Check if the wireless LAN router is on. • 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 the communication. Move the unit away from such devices, or turn off such devices.
The desired wireless router is not detected even if [Scan] is performed.	• Press RETURN to return to the previous screen, and try [Scan] again. If the desired wireless router is still not detected, press RETURN to select [Manual registration].
The system cannot connect to the network or the network connection is unstable.	• The distance between the unit and the wireless LAN router is too far (page 19).

Playable Discs

Blu-ray Disc	BD-ROM ¹⁾ BD-R/BD-RE ²⁾
DVD³⁾	DVD-ROM DVD-R/DVD-RW DVD+R/DVD+RW
CD³⁾	CD-DA (Music CD) CD-ROM CD-R/CD-RW Super Audio CD

¹⁾Since the Blu-ray Disc specifications are new and evolving, some discs may not be playable depending on the disc type and the version. Also, the audio output differs depending on the source, connected output jack, and selected audio settings.

²⁾BD-RE: Ver.2.1
BD-R: Ver.1.1, 1.2, 1.3 including organic pigment type BD-R (LTH type)
BD-Rs recorded on a PC cannot be played if postscripts are recordable.

³⁾A CD or DVD disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions supplied with the recording device.

Discs that cannot be played

- BDs with cartridge
- BDXLs
- DVD-RAMs
- HD DVDs
- DVD Audio discs
- PHOTO CDs
- Data part of CD-Extras
- Super VCDs
- Audio material side on DualDiscs

Notes on discs

This product is designed to play back discs that conform to the Compact Disc (CD) standard. DualDiscs and some music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard. Therefore, these discs may not be compatible with this product.

Note on playback operations of a BD/DVD

Some playback operations of a BD/DVD may be intentionally set by software producers. Since this system plays a BD/DVD according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer BDs/DVDs

The playback picture and sound may be momentarily interrupted when the layers switch.

Region code (BD-ROM/DVD VIDEO only)

Your system has a region code printed on the rear of the unit and will only play a BD-ROM/ DVD VIDEO (playback only) labeled with identical region codes or .

Additional Information

Playable Types of Files

Video

File format	Extensions
MPEG-1 Video/PS ¹⁾	“.mpg,” “.mpeg,” “.m2ts,”
MPEG-2 Video/PS, TS ¹⁾	“.mts”
Xvid	“.avi”
MPEG4/AVC ¹⁾	“.mkv,” “.mp4,” “.m4v,” “.m2ts,” “.mts”
WMV9 ¹⁾	“.wmv,” “.asf”
AVCHD	2)

Music

File format	Extensions
MP3 (MPEG-1 Audio Layer III)	“.mp3”
AAC ¹⁾³⁾	“.m4a”
WMA9 Standard ¹⁾³⁾	“.wma”
LPCM	“.wav”

Photo

File format	Extensions
JPEG	“.jpg,” “.jpeg”
GIF	“.gif”
PNG	“.png”

¹⁾The system does not play files encoded with DRM.

²⁾The system plays AVCHD-format files that are recorded via a digital video camera, etc. To watch AVCHD-format files, the disc with AVCHD-format files on it must be finalized.

³⁾The system does not play files encoded with Lossless, etc.

Note

- Some files may not play depending on the file format, the file encoding, or the recording condition.
- Some files edited on a PC may not play.
- The system can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
 - up to folders in the 3rd tree
 - up to 500 files in a single tree
- 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 (front  (USB) port only).

- To avoid data corruption or damage to USB memory or other devices, turn the system off before connecting or removing USB memory or other devices.
- The system may not play high bit rate video files from a DATA CD smoothly. It is recommended to play high bit rate video files using a DATA DVD.

Supported Audio Formats

Audio formats supported by this system are as follows.

Function	Format							
	LPCM 2ch	LPCM 5.1ch LPCM 7.1ch	Dolby Digital	Dolby TrueHD, Dolby Digital Plus	DTS	DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS96/24	DTS-HD High Resolution Audio	DTS-HD Master Audio
“BD/DVD”	○	○	○	○	○	○	○	○
“HDMI1” “HDMI2”	○	–	○	–	○	–	–	–
“TV” (DIGITAL IN)	○	–	○	–	○	–	–	–

○: Supported format.
–: Unsupported format.

Note

- HDMI (IN 1) and HDMI (IN 2) do not input sound in the case of an audio format that contains copy protections such as Super Audio CD or DVD-Audio.
- For the LPCM 2ch format, the supported sampling frequency of the digital signal is up to 96 kHz when using the “HDMI1” or “HDMI2” function, and 48 kHz when using the “TV” function.

Specifications

Amplifier Section

POWER OUTPUT (rated)

Front L/Front R: 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)

POWER OUTPUT (reference)

Front L/Front R/Center/Surround L/Surround R: 167 W (per channel at 3 ohms, 1 kHz)

Subwoofer: 165 W (at 3 ohms, 80 Hz)

Inputs (Analog)

AUDIO (AUDIO IN) Sensitivity: 450/250 mV

Inputs (Digital)

TV (Audio Return Channel/OPTICAL)

Supported formats: LPCM
2CH (up to 48 kHz), Dolby
Digital, DTS

HDMI (IN 1)/HDMI (IN 2)

Supported formats: LPCM
2CH (up to 96 kHz), Dolby
Digital, DTS

Video Section

Outputs VIDEO: 1 V_{p-p} 75 ohms

HDMI Section

Connector Type A (19pin)

BD/DVD/Super Audio CD/CD System

Signal format system

U.S. and Canada models: NTSC

Other models: NTSC/PAL

USB Section

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

LAN Section

LAN (100) terminal 100BASE-TX Terminal

FM Tuner Section

System PLL quartz-locked digital synthesizer

Tuning range

U.S. and Canada models: 87.5 MHz - 108.0 MHz (100 kHz step)

Other models: 87.5 MHz - 108.0 MHz (50 kHz step)

Antenna (aerial) FM wire antenna (aerial)

Antenna (aerial) terminals 75 ohms, unbalanced

Speakers

Front/Surround (SS-TSB105)

Dimensions (approx.) 85 mm × 220 mm × 95 mm (w/h/d)

Mass (approx.) Front: 0.5 kg
Surround: 0.6 kg

Center (SS-CTB102)

Dimensions (approx.) 315 mm × 54 mm × 55 mm (w/h/d)

Mass (approx.) 0.4 kg

Subwoofer (SS-WSB103)

Dimensions (approx.) 260 mm × 265 mm × 270 mm (w/h/d)

Mass (approx.) 3.8 kg

General

Power requirements 220 V - 240 V AC, 50/60 Hz

Power consumption On: 160 W
Standby: 0.3 W (at the Power Saving mode)

Dimensions (approx.) 400 mm × 65 mm × 315 mm (w/h/d) incl. projecting parts

Mass (approx.) 3.3 kg

Design and specifications are subject to change without notice.

- Standby power consumption 0.3W.
- Over 85% power efficiency of amplifier block is achieved with the full digital amplifier, S-Master.

Language Code List

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code Language		Code Language		Code Language		Code Language	
1027	Afar	1183	Irish	1347	Maori	1507	Samoan
1028	Abkhazian	1186	Scots Gaelic	1349	Macedonian	1508	Shona
1032	Afrikaans	1194	Galician	1350	Malayalam	1509	Somali
1039	Amharic	1196	Guarani	1352	Mongolian	1511	Albanian
1044	Arabic	1203	Gujarati	1353	Moldavian	1512	Serbian
1045	Assamese	1209	Hausa	1356	Marathi	1513	Siswati
1051	Aymara	1217	Hindi	1357	Malay	1514	Sesotho
1052	Azerbaijani	1226	Croatian	1358	Maltese	1515	Sundanese
1053	Bashkir	1229	Hungarian	1363	Burmese	1516	Swedish
1057	Byelorussian	1233	Armenian	1365	Nauru	1517	Swahili
1059	Bulgarian	1235	Interlingua	1369	Nepali	1521	Tamil
1060	Bihari	1239	Interlingue	1376	Dutch	1525	Telugu
1061	Bislama	1245	Inupiak	1379	Norwegian	1527	Tajik
1066	Bengali; Bangla	1248	Indonesian	1393	Occitan	1528	Thai
1067	Tibetan	1253	Icelandic	1403	(Afan)Oromo	1529	Tigrinya
1070	Breton	1254	Italian	1408	Oriya	1531	Turkmen
1079	Catalan	1257	Hebrew	1417	Punjabi	1532	Tagalog
1093	Corsican	1261	Japanese	1428	Polish	1534	Setswana
1097	Czech	1269	Yiddish	1435	Pashto;	1535	Tonga
1103	Welsh	1283	Javanese		Pushto	1538	Turkish
1105	Danish	1287	Georgian	1436	Portuguese	1539	Tsonga
1109	German	1297	Kazakh	1463	Quechua	1540	Tatar
1130	Bhutani	1298	Greenlandic	1481	Rhaeto-	1543	Twi
1142	Greek	1299	Cambodian		Romance	1557	Ukrainian
1144	English	1300	Kannada	1482	Kirundi	1564	Urdu
1145	Esperanto	1301	Korean	1483	Romanian	1572	Uzbek
1149	Spanish	1305	Kashmiri	1489	Russian	1581	Vietnamese
1150	Estonian	1307	Kurdish	1491	Kinyarwanda	1587	Volapük
1151	Basque	1311	Kirghiz	1495	Sanskrit	1613	Wolof
1157	Persian	1313	Latin	1498	Sindhi	1632	Xhosa
1165	Finnish	1326	Lingala	1501	Sangho	1665	Yoruba
1166	Fiji	1327	Laothian	1502	Serbo-Croatian	1684	Chinese
1171	Faroese	1332	Lithuanian	1503	Singhalese	1697	Zulu
1174	French	1334	Latvian; Lettish	1505	Slovak		
1181	Frisian	1345	Malagasy	1506	Slovenian	1703	Not specified

Additional Information

Parental Control/Area Code List

Code Area		Code Area		Code Area		Code Area	
2044	Argentina	2109	Germany	2362	Mexico	2499	Sweden
2047	Australia	2200	Greece	2376	Netherlands	2086	Switzerland
2046	Austria	2219	Hong Kong	2390	New Zealand	2543	Taiwan
2057	Belgium	2248	India	2379	Norway	2528	Thailand
2070	Brazil	2238	Indonesia	2427	Pakistan	2184	United Kingdom
2090	Chile	2239	Ireland	2424	Philippines		
2092	China	2254	Italy	2428	Poland		
2093	Colombia	2276	Japan	2436	Portugal		
2115	Denmark	2304	Korea	2489	Russia		
2165	Finland	2333	Luxembourg	2501	Singapore		
2174	France	2363	Malaysia	2149	Spain		

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The software of this system may be updated in the future. To find out details on any available updates, please visit the following URL.

For customers in Europe:
<http://support.sony-europe.com>

For customers in Taiwan:
<http://www.sony-asia.com/support/tw>

For customers in other countries/regions:
<http://www.sony-asia.com/support>



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