

SONY[®]

4-486-848-11(1)

Home Theatre System

Operating Instructions

WARNING

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

To reduce the risk of fire, do not cover the ventilation opening of the appliance with newspapers, tablecloths, curtains, etc.

Do not expose the appliance to naked flame sources (for example, lighted candles).

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

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

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

Indoor use only.

5.15 GHz - 5.35 GHz band is restricted to indoor operations only.

The nameplate is located on the bottom exterior of the main unit.

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.

For customers in India



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

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About These Operating Instructions

- The instructions in these Operating Instructions describe the controls on the remote control. You can also use the controls on the unit if they have the same or similar names as those on the remote control.
- Some illustrations are presented as conceptual drawings, and may be different from the actual products.
- The items displayed on the TV screen may vary depending on the area.
- The default setting is underlined.

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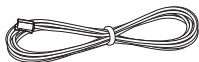
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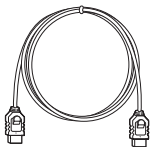
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Unpacking

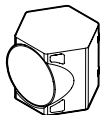
- Operating Instructions
- Remote control (1)
- R03 (size AAA) batteries (2)
- FM wire antenna (aerial) (1)



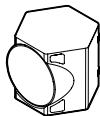
- High Speed HDMI cable (1)



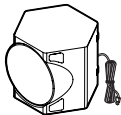
- Front speakers (2)



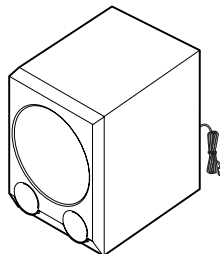
- Surround speakers (2)



- Center speaker (1)



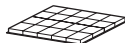
- Subwoofer (1)



- Speaker cords (4, red/white/gray/blue)



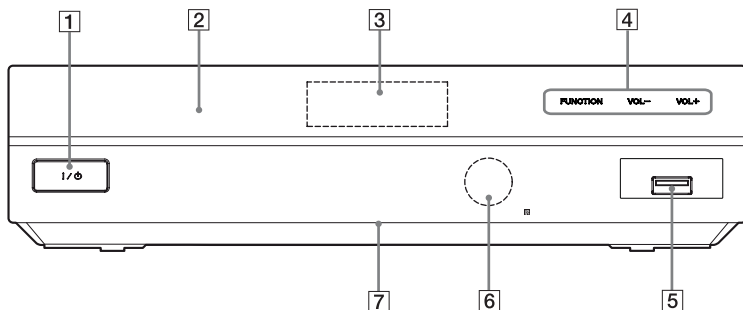
- Foot pads (1)



Guide to Parts and Controls

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

Front panel



1 I/⏻ (on/standby)

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

2 (N-Mark) (page 28)

Position the NFC-compatible device near this indication to activate the NFC function.

3 Front panel display

4 Soft-touch buttons


Notes

- These buttons work when you touch them lightly. Do not press on them with excessive force.
- If the button does not work, release the button and wait for a few seconds. Then, touch the button again with your finger covering the button indicator.
- The LED indicator flashes in white when you activate the buttons.

FUNCTION* (page 22)

Selects the playback source.

VOL +/-

* Hold down FUNCTION on the main unit for more than 2 seconds, the built-in sound demonstration will be played back on the system. If a USB device is connected, the audio content from the USB will be played back as sound demonstration. Press  to stop the demonstration.

Note

During the demonstration, the volume level may be higher than the volume level you have set.

5 (USB) port (page 24)

6 (remote control sensor)

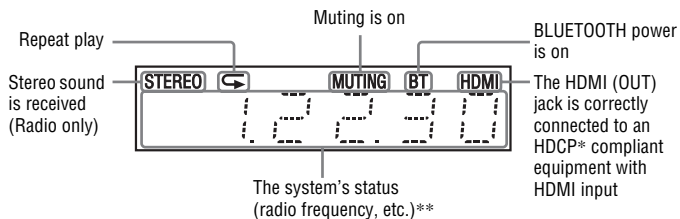
7 LED indicator

White: Lights up when the main unit is turned on.

Blue (for BLUETOOTH status):

- System is ready for pairing: Flashes quickly
- When pairing: Flashes quickly
- NFC device is detected: Flashes
- Connection is established: Lights up

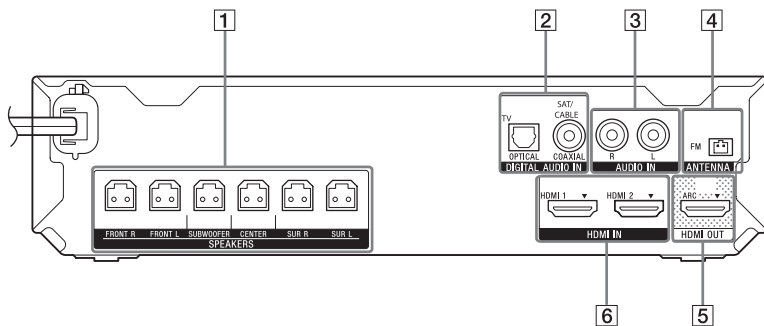
Indicators in the front panel display



* High-bandwidth Digital Content Protection

** When you press DISPLAY, the stream information/decoding status is displayed when the function is set to "TV". The stream information/decoding status may not appear depending on the stream or item being decoded.

Rear panel



1 SPEAKERS jacks (page 16)

2 DIGITAL AUDIO IN (TV OPTICAL) jack (pages 17, 18)
(SAT/CABLE COAXIAL) jack (page 17)

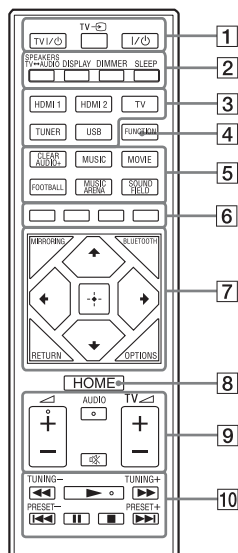
3 AUDIO IN (L/R) jacks (pages 17, 18)

4 ANTENNA (FM) terminal (page 20)

5 HDMI (OUT) jack (page 17)

6 HDMI IN (HDMI 1/HDMI 2) jacks (page 18)

Remote control



- USB, TV \triangleleft + and \triangleright buttons have a tactile dot. Use the tactile dot as a reference when operating the remote control.
- $\boxed{\text{TV}}$: For TV operations

The system automatically returns to standby mode

If any button on the main unit or remote control is not pressed within 20 minutes, the system automatically returns to standby mode.

1 TV I/O (on/standby) $\boxed{\text{TV}}$

Turns on the TV or sets it to standby mode.

TV \rightarrow (TV input) $\boxed{\text{TV}}$

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

I/O (on/standby) (pages 21)

Turns on the system or sets it to standby mode.

2 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 41).

DISPLAY (page 25)

Displays playback information on the TV screen.

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

DIMMER

Adjusts the brightness of the front panel display and the LED indicator.

SLEEP (page 37)

Sets the sleep timer.

3 Input buttons

Selects the equipment you want to use.

HDMI 1, HDMI 2, TV, TUNER, USB

4 FUNCTION (page 22)

Selects the playback source.

By setting [Input Skip Setting] (page 41), you can skip unused inputs when selecting a function.

5 Sound field buttons

See "Step 6: Enjoying Surround Sound" (page 22)

CLEARAUDIO+, MUSIC, MOVIE, FOOTBALL, MUSIC ARENA, SOUND FIELD

6 Color buttons

Displays an operation guide on the TV screen when the color buttons are available. Follow the operation guide to perform a selected operation.

7 MIRRORING (pages 27, 29)

Selects the “SCR M” function.

BLUETOOTH (page 26)

Selects the “BT” function.

OPTIONS (pages 23, 30)

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

RETURN

Returns to the previous display.



Moves the highlight to a displayed item.

[+] (enter)

Enters the selected item.

8 HOME (pages 35, 38)


Enters or exits the system’s home menu.

9  (volume) +/-

Adjusts the volume.

AUDIO (page 32)

Selects the audio format/track.

 (muting)

Turns off the sound temporarily.

TV  (volume) +/- 

Adjusts the TV volume.

10 Playback operation buttons

See “Playback” (page 24).

 (fast/slow/freeze frame)


Fast reverse/fast forward 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.

 (previous/next)

Selects the previous/next chapter, track, or file.

 (play)

Starts or re-starts playback (resume play).

 (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.

Stops the built-in or USB sound demonstration.

Radio operation buttons

See “Tuner” (page 33).

PRESET +/-

TUNING +/-

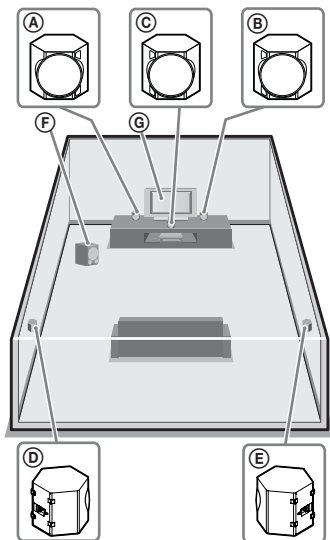
Step 1: Installing the Speakers

Install the speakers by referring to the illustration below.

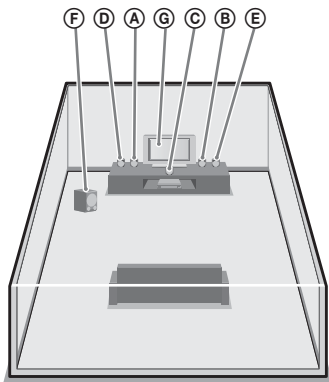
- (A) Front left speaker (L)
- (B) Front right speaker (R)
- (C) Center speaker
- (D) Surround left speaker (L)
- (E) Surround right speaker (R)
- (F) Subwoofer
- (G) TV

Example of speaker system configuration

Installing the surround speakers in rear position (Speaker layout: [Standard])



Installing all speakers in front position (Speaker layout: [All Front])

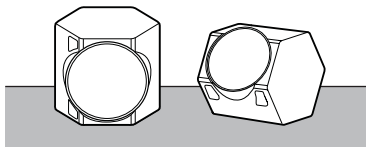


Notes

- Be sure to select the speakers layout setting (page 35) according to your speakers placement.
- 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.
- The speakers of this system are not magnetically shielded. This may result in color irregularity when they are placed near a CRT TV or projector.

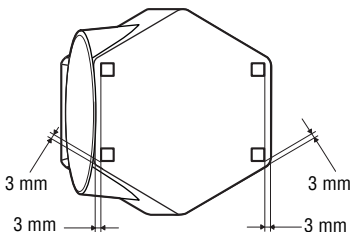
Example of multi angle speaker configuration

Speakers can be placed on a flat surface or installed on walls (page 14). You may position the speakers at different angles to achieve optimum sound quality.



Installing the speakers on a flat surface

Before you install the front speaker and surround speakers, be sure to attach the supplied foot pads as shown in the illustration below. This prevents vibration or movement and reduce scratches.



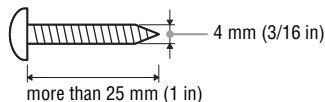
Note

You can attach the foot pads on either side of the two mirrored surface.

Installing the speakers on the wall

You can install your speakers on the wall.

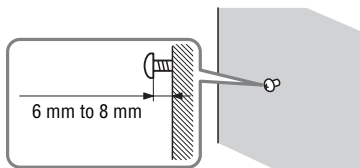
- 1 Prepare screws (not supplied) that are suitable for the hook on the back of each speaker. See the illustrations below.**



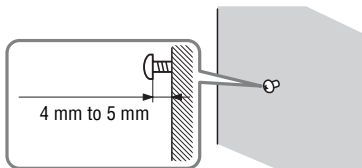
- 2 Fasten the screws to the wall, then hang the speaker on the screws.**

For fixed angle speaker installation

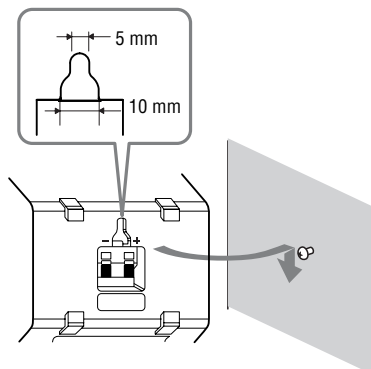
The screw should protrude 6mm to 8 mm

**For multi angle speaker installation**

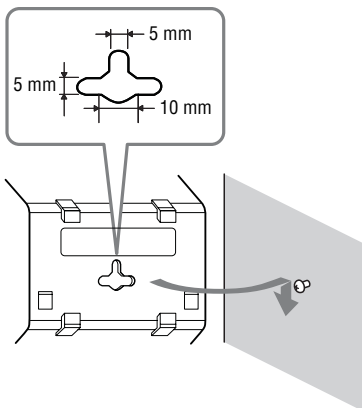
The screw should protrude 4 mm to 5 mm



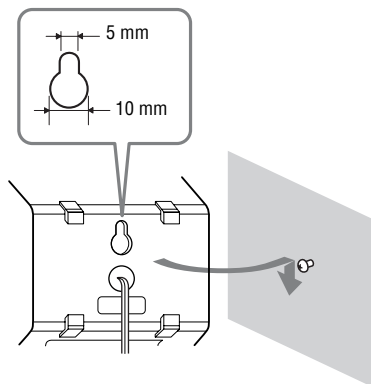
Hook on the rear of the front and surround speakers



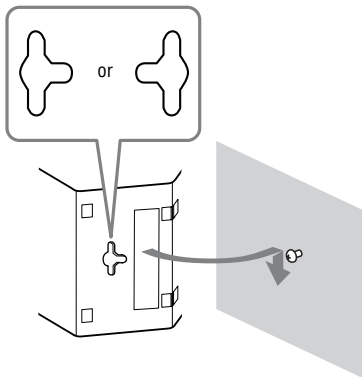
Horizontal speaker installation



Hook on the rear of the center speaker



Vertical speaker installation



Notes

- You may install your speaker at different angles to achieve optimum sound quality (page 14).
- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where reinforcement is applied.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

Step 2: Connecting the System

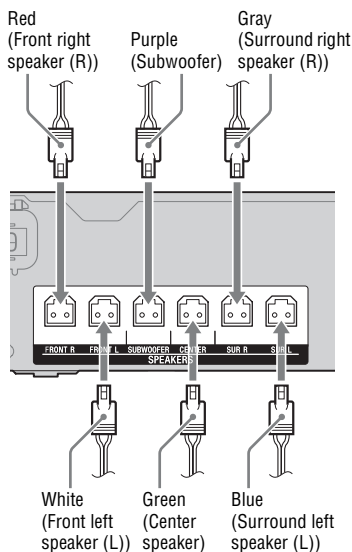
Do not connect the AC power cord (mains lead) of the main unit to a wall outlet (mains) until all the other connections are made.

Note

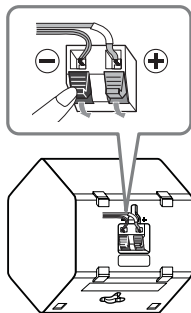
When you connect other equipment with a volume control, turn down the volume of the equipment to a level where sound is not distorted.

Connecting the speakers

Connect the speaker cords to match the color of the **SPEAKERS** jacks of the main unit. Be sure to insert the speaker connector until it clicks.

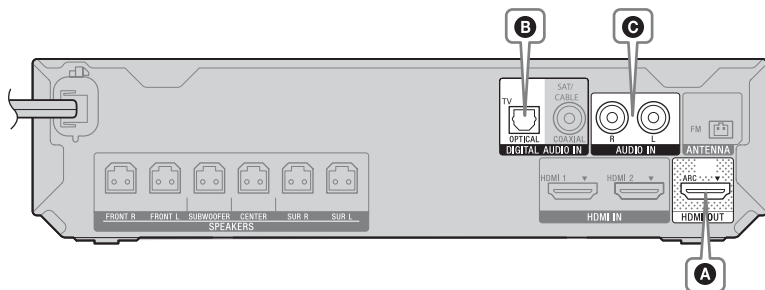
**Note**

Be sure to connect the speaker cords to the front and surround speakers.

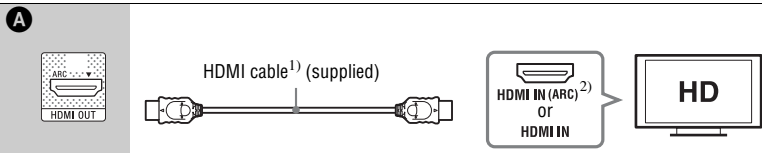


Connecting the TV

Select one of the following connection methods according to the input jacks on your TV.



Video connection

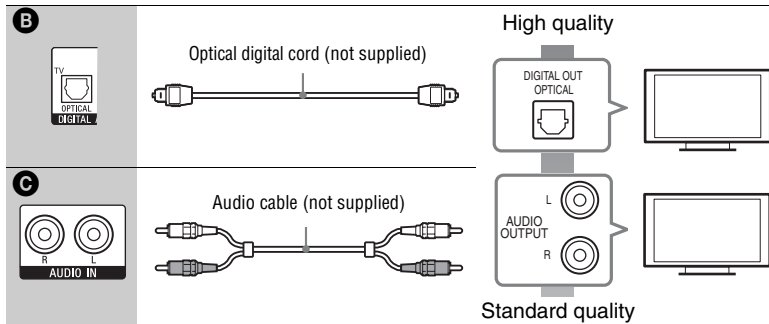


¹⁾ High Speed HDMI cable

²⁾ The **Audio Return Channel (ARC) function** enables the TV to output sound through the system with an HDMI connection, without performing connection **B** or **C**. To set the ARC function on this system, see [Audio Return Channel] (page 41). To check the compatibility of your TV's ARC function, refer to the operating instructions supplied with your TV.

Audio connections

If your TV's HDMI jack is not compatible with the ARC function, make an appropriate audio connection (**B** or **C**) for listening to TV sound via the system's speakers.

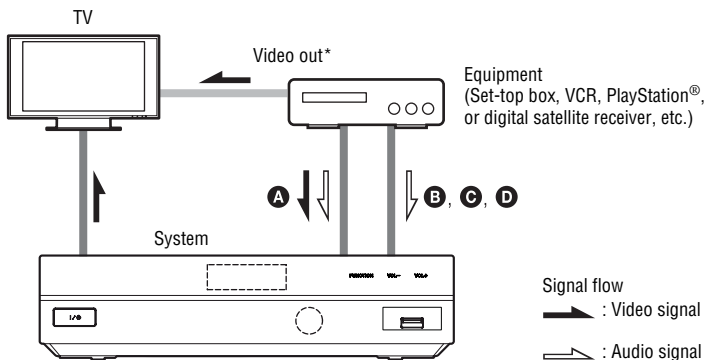


Note

To enjoy TV sound, select “TV” function for connection **B** or “AUDIO” function for connection **C**.

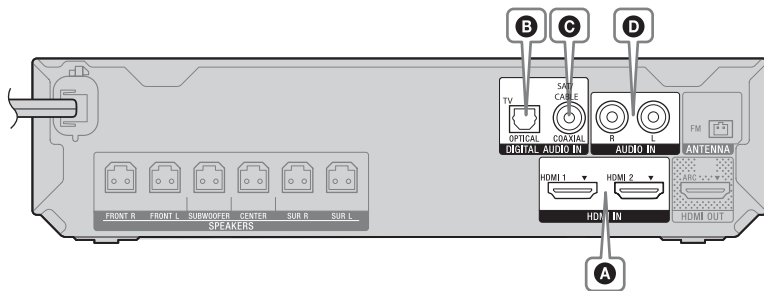
Connecting the other equipment

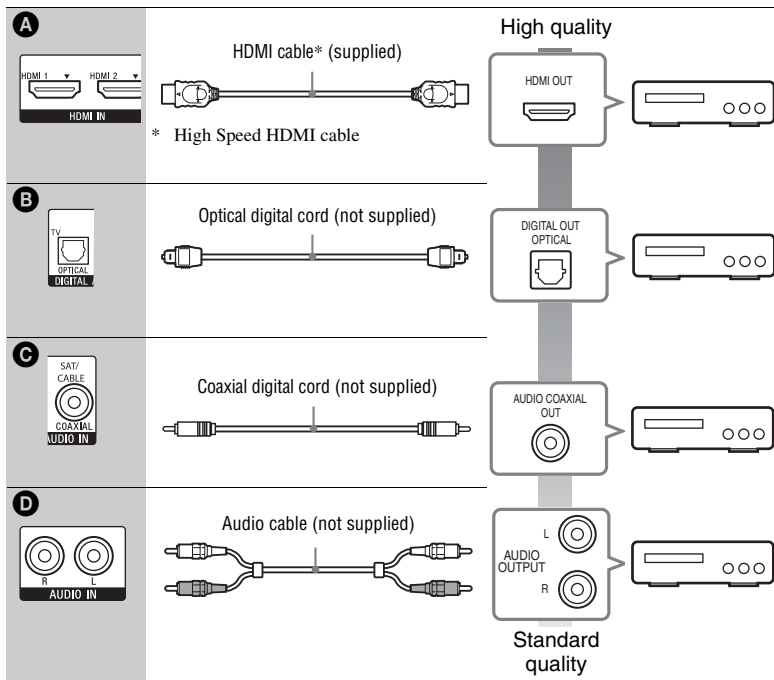
Connect the system, TV and other equipment as follows. You cannot enjoy the audio and video of the connected equipment on the TV through this system when the system is off or in standby mode.



* This connection is unnecessary for connection **A** (HDMI connection)

Select one of the following connection methods according to the jack type of the equipment.





When you make connection **A**

This connection can transmit both video and audio signals.

Notes

- Video signals from the HDMI IN (1/2) jacks are output to the HDMI OUT jack only when the “HDMI1” or “HDMI2” function is selected.
- To output 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 40).

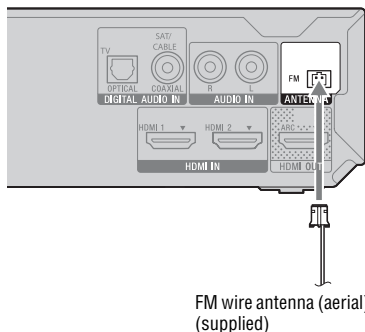
When you make connection **B**, **C**, **D**

Connect the system so that video signals from the system and other equipment are output to the TV, and audio signals from the equipment are output to the system.

Notes

- If you make either connection above, set [Control for HDMI] in [HDMI Settings] of [System Settings] to [Off] (page 41).
- You can enjoy equipment sound by selecting “TV” function for connection **B**, “COAX” function for connection **C** or “AUDIO” function for connection **D**.

Connecting the antenna (aerial)



Notes

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

Step 3: Preparing for Network Connection

The system has built-in Wi-Fi, and you can connect the system to the network by making the network settings.

Before performing the network settings

When your wireless LAN router (access point) is Wi-Fi Protected Setup (WPS)-compatible, you can easily set the network settings with the WPS button.

If not, check the following information in advance, and record it in the space provided below.

- The network name (SSID*) that identifies your network.**
- If security is set on your wireless network, the security key (WEP key, WPA key).**

- * SSID (Service Set Identifier) is a name that identifies a particular wireless network.
- ** You need to check the settings of your wireless LAN router to get the information about SSID and security key. For details:
 - visit the following website:
<http://www.sony-asia.com/section/support>
 - refer to the operating instructions supplied with the wireless LAN router
 - consult the manufacturer of the wireless LAN router

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 devices 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.

Step 4: Performing the Easy Setup

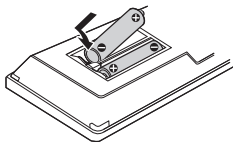
Before performing Step 4

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

Follow the Steps below to make the basic adjustments and network settings for the system.

Displayed items vary depending on the area.

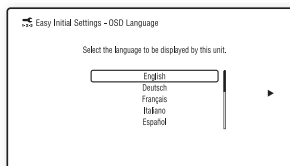
- 1** Insert two R03 (AAA) batteries (supplied) by matching the \oplus and \ominus ends on the batteries to the markings inside the compartment.



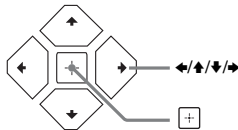
- 2** Turn on the TV.
- 3** Press I/power to turn on the system.

- 4** Switch the input selector on your TV so that the signal from the system appears on the TV screen.

The [Easy Initial Settings] for OSD language selection appears.



- 5** Perform [Easy Initial Settings]. Follow the on-screen instructions to make the basic settings using $\leftarrow/\uparrow/\downarrow/\rightarrow$ and $\boxed{+}$.



- 6** After completing the [Easy Initial Settings], press \uparrow/\downarrow to select [Easy Network Settings], then press $\boxed{+}$.

The [Easy Network Settings] display appears.

- 7** Follow the on-screen instructions to make the network settings using $\leftarrow/\uparrow/\downarrow/\rightarrow$ and $\boxed{+}$.

If the system cannot connect to the network, see “Network connection” (page 48) or “Wireless LAN connection” (page 48).

Step 5: Selecting the Playback Source

Press FUNCTION repeatedly.

When you press FUNCTION once, the current function appears in the front panel display, then each time you press FUNCTION, the function changes cyclically as follows.

“HDMI1” → “HDMI2” → “TV” →
 “COAX” → “SCR M” → “BT” →
 “AUDIO” → “USB” → “FM”

Function and playback source

“HDMI1”/“HDMI2”

Equipment that is connected to the HDMI IN (HDMI 1) or (HDMI 2) jack (page 19)

“TV”

Equipment (TV, etc.) that is connected to the DIGITAL AUDIO IN (TV OPTICAL) jack, or a TV compatible with the Audio Return Channel function that is connected to the HDMI (OUT) jack (pages 17, 18)

“COAX”

Equipment that is connected to the DIGITAL AUDIO IN (SAT/CABLE COAXIAL) jack (page 19)

“SCR M”

[Screen mirroring]

Screen mirroring-compatible device (pages 27, 29)

“BT”


[Bluetooth AUDIO]

BLUETOOTH device that supports A2DP

“AUDIO”

Equipment that is connected to the AUDIO IN (L/R) jacks (pages 17, 18)




“USB”

USB device that is connected to the  (USB) port (page 9)

“FM”

FM radio (page 33)

Tips

- Some functions may be changed via the TV screen by pressing FUNCTION, , , and .
- You can also press the Input buttons, BLUETOOTH and MIRRORING to select each function respectively.

Step 6: Enjoying Surround Sound

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

Note

The sound field can be selected only when [Sound Effect] is set to [Sound Field On] (page 40). When [Sound Effect] is set to other than [Sound Field On], the sound field setting does not apply.

Selecting the sound field

Press SOUND FIELD repeatedly during playback.

You can also press CLEARAUDIO+, MUSIC and MOVIE to select the respective sound field.

ClearAudio+

You can enjoy the sound with Sony-recommended sound field. Sound field is automatically optimized according to playback content and function.

- 2-channel source: The system will recreate 5.1 channel speaker output.
- Multi-channel source: The system outputs sound from the speakers as it was recorded.

Movie

The system provides the optimized sound for watching movies.

Music

The system provides the optimized sound for listening to music.

Digital Music Enhancer**[Digital Music]**

This is a technology developed by Sony to enhance the sound quality of compressed audio files by restoring high frequency range sound after compression process.

Game

The system provides the optimized sound for playing video games.

Night

Suitable for watching movies at night by reducing loud sounds while maintaining clear dialog.

Tip

To enjoy 2-channel source in multi-channel output, we recommend you to select [ClearAudio+].

To select the sound field from the option menu

- 1 Press **OPTIONS** and **▲/▼** to select [Sound Field], then press **[+]**.
- 2 Press **▲/▼** to select the sound field, then press **[+]**.

Selecting the advanced sound field**To select the music arena mode**

Press **MUSIC ARENA** repeatedly to select **[Music Arena : On]**.

You can enjoy Live Music Concert filled with great excitement created by Sony unique Audio DSP technology.

To select the advanced sound field from the option menu

- 1 Press **OPTIONS** and **▲/▼** to select [Music Arena], then press **[+]**.
- 2 Press **▲/▼** to select [On], then press **[+]**.

Note

The advanced sound field is automatically set to [Off] when you perform the following.

- Turn off the system
- Press any of the sound field buttons (page 11)

To select the football mode

Press **FOOTBALL** repeatedly while watching a football match broadcast.

You can experience a feeling of presence in the stadium when watching the football match broadcast.

- [Football : Narration On]: You can enjoy an immersive feeling of being in a football stadium through enhanced stadium cheers.
- [Football : Narration Off]: You can enjoy a more immersive feeling of being in a football stadium by minimizing the volume level of narration in addition to the enhancement of cheers.
- [Football Off]: The football mode is turned off.

Notes

- We recommend you to select the football mode when watching a football match broadcast.
- If you hear unnatural sound in the content when [Football : Narration Off] is selected, [Football : Narration On] is recommended.
- The football mode is automatically set to [Football Off] when you perform the following.
 - Turn off the system
 - Press any of the sound field buttons (page 11).
- This feature does not support monaural sound.

Tips

- You can also select the football mode from the option menu.
- If 5.1 channel audio stream is available, we recommend you to select it on your TV or set-top box.

Playback

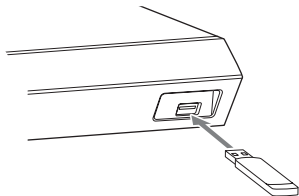
Playing from a USB Device

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

For playable types of files, see “Playable Types of Files” (page 49).

1 Connect the USB device to the USB port.

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



2 Press HOME.

The home menu appears on the TV screen.

3 Press \leftarrow/\rightarrow to select [Video] , [Music] , or [Photo] .

4 Press [+] to select [USB device] .

5 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the item you want, then press [+] .

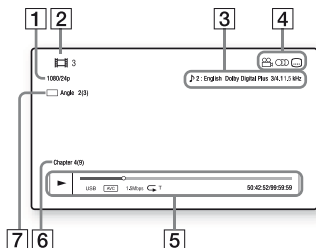
Note

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

Displaying the playback information

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

Example: when playing from a USB

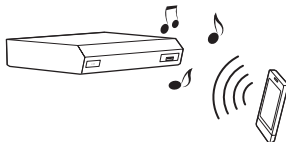


- 1 Output resolution/Video frequency
- 2 Title number or name
- 3 The currently selected audio setting
- 4 Available functions (🎧 angle, 🎧 audio, [...] subtitle)
- 5 Playback information
Displays play mode, playing status bar, media type, video codec, bit rate, repeat type, elapsed time, total playing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

Enjoying Music from a BLUETOOTH Device

About the BLUETOOTH wireless technology

BLUETOOTH wireless technology is a short-range wireless technology that enables wireless data communication between digital devices. BLUETOOTH wireless technology operates within a range of about 10 meters.



Supported BLUETOOTH version and profiles

Profile refers to a standard set of capabilities for various BLUETOOTH product capabilities. For details on the supported BLUETOOTH version and profiles, see “BLUETOOTH Section” (page 51).

Notes



- Depending on the specifications of the BLUETOOTH device, the functions may differ even though the device supports the same profile as this system.
- The audio playback on this system may be delayed from that on the BLUETOOTH device because of the characteristics of the BLUETOOTH wireless technology.

Pairing this system with a BLUETOOTH device

Pairing is an operation where BLUETOOTH devices register with each other beforehand. Once a pairing operation is performed, it does not need to be performed again.

1 Place the BLUETOOTH device within 1 meter from the main unit.

2 Press BLUETOOTH.

You can also select  [Bluetooth AUDIO] from  [Input] in home menu.

3 Set the BLUETOOTH device in pairing mode.

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

4 Select your system's name (for example, "HT-IV300") on the device's display.

Perform this step within 5 minutes, otherwise pairing will be canceled.

Note

If passkey is required on the BLUETOOTH device, enter "0000". Passkey may be called "Passcode", "PIN code", "PIN number" or "Password".

Tip

You can change the system's name that appears on your device by using [Device name] in [System Settings] (page 41).

5 Once pairing is completed, the device is automatically connected to the system.

Device name appears on the TV screen.

Note

You can pair up to 9 BLUETOOTH devices. If the 10th BLUETOOTH device is paired, the least recently connected device will be replaced by the new one.

6 Start playback on the BLUETOOTH device.

7 Adjust the volume.

Adjust the volume of the BLUETOOTH device first, if the volume level is still too low, adjust the volume level on the main unit.

To cancel pairing operation

Press HOME or FUNCTION.

Connecting to a BLUETOOTH device from this system


You can connect to a BLUETOOTH device from this main unit.

Check the following before playing music:

- The BLUETOOTH function of the BLUETOOTH device is turned on.
- The pairing has been completed (page 26).

1 Press BLUETOOTH.




Note

To connect to the most recent connected BLUETOOTH device, press . Then proceed to Step 5.

2 Press OPTIONS.

3 Select [Device List], then press .

A list of paired BLUETOOTH devices appears.

4 Press / repeatedly to select the device you want, then press .

5 Press ► to start playback.

6 Adjust the volume.

Adjust the volume of the BLUETOOTH device first, if the volume level is still too low, adjust the volume level on the main unit.

Notes

- Once the main unit and the BLUETOOTH device are connected, you can control playback by pressing ►, II, ■, ◀▶ and ◀▶▶.
- You can connect to the system from a paired BLUETOOTH device in functions other than “BT”, if you set [Bluetooth Power Setting] in [External Input Settings] to [On] (page 42).

Tip

You can enable or disable the reception of AAC audio from Bluetooth device (page 42).

To disconnect the BLUETOOTH device

Press HOME, FUNCTION or RETURN.

To delete a paired BLUETOOTH device from the device list

- 1 Follow Steps 1 to 3 above.
- 2 Press ▲/▼ repeatedly to select the device, then press OPTIONS.
- 3 Press ▲/▼ repeatedly to select [Remove], then press [+].
- 4 Press ◀▶ repeatedly to select [OK], then press [+].

Using Screen mirroring

“Screen mirroring” is a function to display the screen of a mobile device on the TV by Miracast technology.

The main unit can be connected directly with a Screen mirroring-compatible device (e.g. smartphone, tablet). You can enjoy the display screen of the device on your large TV screen. No wireless router (or access point) is required to use this feature.

1 Press MIRRORING

2 Follow the on-screen instructions.

Activate the Screen mirroring function from your device.

For details on how to activate the function, refer to the operating instructions supplied with your device.

Notes


- When using Screen mirroring, the quality of picture and sound may sometimes be deteriorated due to interference from other network.
- Some network functions may not be available during Screen mirroring.
- Make sure that the device is compatible with Miracast. Connectivity with all Miracast compatible devices is not guaranteed.

Tip

You can also wirelessly mirror your entire Xperia smartphone screen on a large TV screen by using One-touch mirroring function (NFC) (page 29).

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

What is “NFC”?

NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by holding the device near the  (N-Mark) on the NFC-compatible devices.



Notes

- The system only recognizes and connects to one NFC-compatible device at a time.
- Depending on your remote device, you may need to turn on the NFC function on your remote device in advance. For details, refer to the operating instructions of the remote device.
- To use the NFC function, be sure to set [NFC] to [On] (page 41).

Connecting to a remote device by One-touch listening function (NFC)

By holding an NFC-compatible remote device near to the N-Mark on the main unit, the main unit and remote device proceed to complete pairing and the BLUETOOTH connection automatically.

Compatible remote devices

Smartphones with a built-in NFC function (OS: Android 2.3.3 – 4.x.x, excluding Android 3.x)

1 Download and install the “NFC Easy Connect” application.

“NFC Easy Connect” is a free application for Android remote devices that can be obtained on Google Play. Search for the application using the keyword “NFC Easy Connect” on the site, or access the download site directly by reading the two-dimensional code below.

Note that “NFC Easy Connect” is free but data communication fees when downloading are charged separately.

Two-dimensional code* for direct access

* Use a two-dimensional code reader application.



Note

The application may not be available in some countries/regions.

2 Start the “NFC Easy Connect” application on the remote device.

Make sure that the application screen is displayed.

3 Hold the remote device near to the N-Mark on the main unit (page 28) until the remote device vibrates.

Vibration cue is provided when the remote device is recognized by the main unit. Follow the on-screen instructions displayed on the remote device, and complete the procedure for BLUETOOTH connection.

When the BLUETOOTH connection is established, the blue LED indicator on the front panel stops flashing. The playback time appears in the front panel display.

Note

For some remote devices, this function may be available without downloading “NFC Easy Connect”. In this case, the operation and specifications of the remote device may differ from the description in this manual.

Tip

If pairing and the BLUETOOTH connection fail, do the following.

- Relaunch “NFC Easy Connect” and move the remote device slowly over the N-Mark.
- Remove the case from the remote device if using a commercially available remote device case.

To listen to music

Start playback of an audio source on the remote device. For details on playback operations, refer to the operating instructions of your remote device.

Tip

If the volume level is low, adjust the volume of the remote device first. If the volume level is still too low, adjust the volume level on the main unit.

To stop playback

The playback will be stopped when you perform any of the following items.

- Hold the remote device near to the N-Mark on the main unit again.
- Stop the music player of the remote device.
- Turn off the main unit or the remote device.
- Change the function.
- Disable the BLUETOOTH function on the remote device.

Connecting to an Xperia smartphone by One-touch mirroring function (NFC)

By holding a One-touch mirroring-compatible Xperia near to the N-Mark on the main unit, you can wirelessly mirror your entire Xperia smartphone screen on a big screen TV. You can watch videos or browse together with your family and friends. No wireless router (or access point) is required to use this function.

Compatible Xperia smartphones
Xperia with the One-touch mirroring function

- 1 Press MIRRORING.
- 2 Hold the Xperia smartphone near to the N-Mark on the main unit (page 28) until the Xperia smartphone vibrates.

Vibration cue is provided when the Xperia smartphone is recognized by the main unit.

The main unit establishes a connection with the Xperia smartphone.

3 Once connection is established, the Xperia smartphone screen appears on the TV screen.

The Xperia smartphone is registered to the system.

To exit mirroring

Press HOME, RETURN or FUNCTION.

Notes

- You cannot access to any other networks during mirroring.
- The quality of picture and sound may sometimes be deteriorated due to interference from other network.

Tip

You can select your preference sound field during mirroring. Press the sound field buttons (page 23).



Using “SongPal”

A dedicated App for this model is available on both Google Play and App Store. Search for “SongPal” and download the free App to find out more about the convenient features.

Easy Control app, “SongPal”, supports wireless operation. It allows you to:

- choose music/audio contents from integrated functions of various device and smartphone.
- control various settings intuitively.
- enhance the music visually with your smartphone display.

Note

To use this function, be sure to perform the software update (page 38).

Available Options

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

Common options

[Sound Field]

Changes the sound field setting (page 22).

[Music Arena]

Turns on or off the Music Arena mode (page 23)

[Football]

Turns on or off the football mode (page 23).

[Repeat Setting]

Sets repeat playback.




[Play/Stop]

Starts or stops playback.

[Play from start]

Plays the item from the beginning.

[Change Category]

Switches among the  [Video],  [Music] and  [Photo] category in “USB” function. This item only available when the display list is available for the category.

[Video] only

[AV SYNC]

Adjusts the time gap between picture and sound (page 32).

[Video Settings]

[Picture Quality Mode]: Selects the picture settings ([Direct], [Brighter Room], [Theatre Room], [Auto], [Custom1] and [Custom2]).

You can customize the following picture settings according to your preference and save them in [Custom1]/[Custom2] settings.

- [Texture Remaster]: Adjusts the sharpness and detail of the edges.
- [Super Resolution]: Improves the resolution.
- [Smoothing]: Reduces on-screen banding by smoothing gradations on flat areas.
- [Contrast Remaster]: Automatically arranges the black and white levels so that the screen is not too dark and the image is modulated.
- [Clear Black]: Adjusts the display of the dark elements of the image. All shading is not suppressed; it allows beautifully reproduced black tones.

[Pause]

Pauses playback.

[Top Menu]

Displays the AVCHD's Top Menu.

[Title Search]

Searches for a title on AVCHD's and starts playback from the beginning.

[Chapter Search]

Searches for a chapter on AVCHD's and starts playback from the beginning.

[Audio]

Selects the audio format/track.

[Subtitle]

Selects the subtitle language when multilingual subtitles are recorded on VIDEOS.

[Angle]

Switches the viewing angles when multi-angles are recorded on VIDEOS.

♪ [Music] only

[Add Slideshow BGM]

Registers music files in the USB memory as slideshow background music (BGM).

📷 [Photo] only

[Slideshow]

Starts a slideshow.

[Slideshow Speed]

Changes the slideshow speed.

[Slideshow Effect]

Sets the effect when playing a slideshow.

[Slideshow BGM]

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

[Change Display]

Switches between [Grid View] and [List View].

[Rotate Left]

Rotates the photo counterclockwise by 90 degrees.

[Rotate Right]

Rotates the photo clockwise by 90 degrees.

[View Image]

Displays the selected picture.

Adjusting the delay between the picture and sound

(A/V SYNC)

When the sound does not match the pictures on the TV screen, you can adjust the delay between the picture and sound for the following functions.

The setting method differs depending on the function.

When the “HDMI1”, “HDMI2” or “USB” function is selected

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, then press **[+]**.

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

When the “TV” and “COAX” function is selected

1 Press **OPTIONS**.

“AV.SYNC” appears in the front panel display.

2 Press **[+]** or **→**.

3 Press **↑/↓** to adjust the delay, then press **[+]**.

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

4 Press **OPTIONS**.

The option menu in the front panel display turns off.

Sound Adjustment

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 a Dolby Digital signal, you need to connect a TV or other equipment to the DIGITAL AUDIO IN (TV OPTICAL or SAT/CABLE COAXIAL) jack with an optical or coaxial digital cord (pages 17, 18).

If your TV's HDMI IN jack is compatible with the Audio Return Channel function (pages 17, 41), you can receive a Dolby Digital signal via an HDMI cable.

Press **AUDIO** repeatedly until the signal you want appears in the front panel display.

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

Listening to the Radio

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

Automatic tuning

Hold down **TUNING +/-** until the auto scanning starts.

[Auto Tuning] appears on the TV screen. Scanning stops when the system tunes in a station.

To cancel automatic tuning, press any buttons.

Manual tuning

Press **TUNING +/-** repeatedly.

- 3 Press **△ +/-** repeatedly to adjust the volume.

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], then press **+**.
 - [Stereo]: Stereo reception.
 - [Monaural]: Monaural reception.

Tip

You can set [FM Mode] for each preset station separately.

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 Hold down **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 a preset number

Select the preset number you want by pressing **PRESET +/-**, then perform the procedure from Step 3.

To select a 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.

Tip

Each time you press DISPLAY, the display in the front panel display changes cyclically as follows:
Frequency → Preset number → Decoding status*

* Appears when [Sound Effect] is set to [Dolby Pro Logic], [DTS Neo:6 Cinema], or [DTS Neo:6 Music] (page 40).

Other Operations

Using the Control for HDMI Function for “BRAVIA” Sync

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

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

Note

To use the “BRAVIA” Sync function, be sure to turn on the system and all connected equipment after completing the HDMI connection.

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 41)

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 “FM” function is selected.

One-Touch Play

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

Notes

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

System Audio Control

You can enjoy the sound from TV or other equipment by a simple operation.

You can use the System Audio Control function as follows:

- When the system is turned on, the sound of the TV or other equipment can be output from the speakers of the system.
- When sound from the TV or other equipment is output via the speakers of the system, you can switch the sound to output from the TV speakers by pressing **SPEAKERS TV** ↔ **AUDIO**.
- When sound from the TV or other equipment 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.

Audio Return Channel

You can enjoy TV sound via the system by using just one HDMI cable. For details of the setting, see “[Audio Return Channel]” (page 41).

Language Follow













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

Routing Control

When you perform One-Touch Play on the connected equipment, 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.




Setting the Speakers**[Speaker Settings]**

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

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press   to select  [Setup].**
- 3 Press   to select [Audio Settings], then press .**
- 4 Press   to select [Speaker Settings], then press .**
The [Select speaker layout.] display appears.
- 5 Press   to select setting according to your speakers placement, then press .**
 - [Standard]: The surround speakers are installed in the rear position.
 - [All Front]: All speakers are installed in the front position.

Note

All settings are reset to default settings each time you change the speaker layout setting.

- 6 Press   to select the item, then press .**

7 Press $\boxed{+}$ or $\leftarrow/\uparrow/\downarrow/\rightarrow$ to adjust the parameter.

8 Press $\boxed{+}$ to confirm the settings.
Check the following settings.

■ [Centre Speaker]

[On]: The center speaker is connected.

[Off]: The center speaker is not connected.

■ [Distance]

Be sure to set the parameters of the distance from the listening position to the speakers. You can set the parameters from 0.0 to 7.0 meters.

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

[Centre] 3.0 m: Set the center speaker distance. This setting is only available when [Centre Speaker] is set to [On].

[Surround Left/Right] 3.0 m: Set the surround speaker distance.

[Subwoofer] 3.0 m: Set the subwoofer distance.

■ [Level]

You can adjust the sound level of the speakers. 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. This setting is only available when [Centre Speaker] is set to [On].

[Surround Left/Right] 0.0 dB: Set the surround speaker level.

[Subwoofer] 0.0 dB: Set the subwoofer level.

■ [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 $\boxed{+}$.
- 3 Press \uparrow/\downarrow to select the speaker type you want, then press $\boxed{+}$.
- 4 Press \leftarrow/\rightarrow to select the left or right speaker, then press \uparrow/\downarrow to adjust the level.
- 5 Press $\boxed{+}$.
- 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 $\boxed{+}$.
- 9 Press \uparrow/\downarrow to select [Off], then press $\boxed{+}$.

Notes

- The test tone signals are not output from the HDMI (OUT) jack.
- The test tone will not output from the center speaker if [Center Speaker] is set to [Off].

Tip

To adjust the volume of all the speakers at the same time, press \triangleleft +/-.

Using the Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music.

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.

Changing the Brightness

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

Press DIMMER

Each time you press the button, the brightness of the item is changed. You can adjust the brightness in 3 levels*.

* For front panel display, the brightness for [Dimmer : 1], [Dimmer : 2] and [Dimmer : 3] settings are the same.

Saving Power in Standby Mode

Check that you have made the following settings:

- [Control for HDMI] in [HDMI Settings] is set to [Off] (page 41).
- [Quick Start Mode] is set to [Off] (page 41).
- [Remote Start] is set to [Off] (page 42).
- [NFC] is set to [Off] (page 41).

Settings and Adjustments

Using the Setup Display

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

The default settings are underlined.

Note






Playback settings stored in the disc take priority over the Setup Display settings. Therefore, some of the functions may not be performed.



1 Press HOME.

The home menu appears on the TV screen.

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

3 Press \uparrow/\downarrow to select the setup category icon, then press .

Icon	Explanation
	[Software Update] (page 38) Updates the software of the system.
	[Screen Settings] (page 39) Makes the screen settings according to the type of TV.
	[Audio Settings] (page 40) Makes the audio settings according to the type of connecting jacks.
	[System Settings] (page 41) Makes the system-related settings.
	[External Input Settings] (page 41) Sets the input skip setting for each external input.

Icon	Explanation
	[Network Settings] (page 42) Makes detailed network settings.
	[Resetting] (page 42) Resets the system to the factory settings.

[Software Update]

By updating your software to the latest version, you can take advantage of the newest functions.

During a software update, “UPDATE” appears in the front panel display. After the update completes, the main unit automatically turns off.

While the updating operation is in progress, do not turn on or off the main unit, or operate the main unit or TV. Wait for the software update to complete.

Note

For information about update functions, refer to the following website:
<http://www.sony-asia.com/section/support>

■ [Update via USB Memory]

Updates software using USB memory. Make sure that the Software Update Folder is correctly named as “UPDATE”.

[Screen Settings]

■ [TV Type]

[16:9]: Select this when connecting to a wide-screen TV or a TV with a wide-mode function.

[4:3]: Select this when connecting to a 4:3 screen TV without a wide-mode function.

■ [Screen Format]

[Full]: 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.

[Normal]: Changes the picture size to fit the screen size with the original picture aspect ratio.

■ [Output Video Resolution]

[Auto]: Outputs video signal according to the resolution of the TV or connected equipment.

[480i/576i]*, [480p/576p]*, [720p],

[1080i], [1080p]: Outputs video signal according to the selected resolution setting.

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

■ [USB 24p Output]

[Auto]: Outputs 24p video signals only when you connect a 1080/24p-compatible TV via an HDMI connection and the [Output Video Resolution] is set to [Auto] or [1080p].

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

■ [4K Output]

[Auto1]: Outputs 2K (1920 × 1080) video signals during video playback and 4K video signals during photo play when connecting to a Sony 4K-compatible equipment.

Outputs 4K video signals during playback of 24p video contents in VIDEOS or photo play when connecting to a non-Sony 4K-compatible equipment.

[Auto2]: Automatically outputs 4K/24p video signals when you connect a 4K/24p-compatible equipment by making appropriate settings in [USB 24p Output], and also outputs 4K/24p photo images when you play 2D photo files.

[Off]: Turns off the function.

Note

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

■ [YCbCr/RGB (HDMI)]

[Auto]: Automatically detects the type of external equipment, 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 an equipment 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.

■ [SBM] (Super Bit Mapping)

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

■ [Pause Mode]

[Auto]: Normally select this. The picture, including subjects that move dynamically, is output with no jitter.
[Frame]: The picture, including subjects that do not move dynamically, is output in high resolution.

[Audio Settings]

■ [Audio DRC]

You can compress the dynamic range of the sound track.

[Auto]: Performs playback at the dynamic range specified by the Audio Source.
[On]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.
[Off]: No compression of dynamic range.

■ [Attenuation settings - AUDIO]

Distortion may occur when you listen to an equipment connected to the AUDIO IN (L/R) jacks. You can prevent distortion by attenuating the input level on the main unit.

[On]: Attenuates the input level. The output level will decrease at this setting.
[Off]: Normal input level.

■ [Audio Output]

You can select the output method 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 equipment.

Note

When [Control for HDMI] is set to [On] (page 41), [Audio Output] is set to [Speaker + HDMI] automatically and this setting cannot be changed.

■ [Sound Effect]

You can turn on or off the system's sound effects (SOUND FIELD setting (pages 22, 23)).

For a 2-channel source, you can select [Dolby Pro Logic], [DTS Neo:6 Cinema], or [DTS Neo:6 Music] to simulate surround sound.

[Sound Field On]: Enables the surround effect of the sound field (page 22).

[Dolby Pro Logic]: The system simulates surround sound from 2-channel sources and outputs sound from all speakers (5.1 channel) (Dolby Pro Logic decoding).
[DTS Neo:6 Cinema]/[DTS Neo:6 Music]: The system simulates surround sound from 2-channel sources and produces multi-channel sound (DTS Neo:6 Cinema/DTS Neo:6 Music mode decoding).

[2ch Stereo]: This system outputs the sound from the front left/right speakers and subwoofer only. Multi-channel surround formats are downmixed to 2-channel.

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

■ [Speaker Settings]

To obtain optimum surround sound, set the speakers. For details, see "Setting the Speakers" (page 35).

[System Settings]

■ [OSD Language]

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

■ [HDMI Settings]

[Control for HDMI]

[On]: Turns on the [Control for HDMI] function. You can operate mutually between equipment that are connected with an HDMI cable.

[Off]: Off.

[Audio Return Channel]

This function is available when you connect the system to a TV's HDMI IN jack that is compatible with the Audio Return Channel function and [Control for HDMI] is set to [On].

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

[Off]: Off.

■ [NFC]

[On]: Turns on NFC function to enjoy the One-touch listening and mirroring function on this system (page 28).

[Off]: Off.

■ [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 20 minutes, the system enters standby mode automatically.

[Off]: Off.

■ [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.

■ [Device Name]

You can change the name of this system according to your preference so that it is more recognizable during "BT" or "SCR M" function. Follow on-screen instructions and use software keyboard to enter the name.

■ [System Information]

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

■ [Software License Information]

You can display the Software License Information.

[External Input Settings]

■ [Input Skip Setting]

The skip setting is a convenient feature that allows you to skip unused inputs when selecting a function by pressing FUNCTION.

[Do not skip]: The system does not skip the selected function.

[Skip]: The system skips the selected function.

■ [Bluetooth AUDIO - AAC]

You can enable and disable AAC audio.

[On]: AAC audio if the BLUETOOTH device supports AAC.

[Off]: SBC audio.

Note

You can enjoy high quality sound if the AAC is enabled. In case you cannot listen to AAC sound from your device, select [Off].

■ [Bluetooth Power Setting]

[On]: The Bluetooth power is turned on.

A paired BLUETOOTH device can always connect to the main unit.

[Off]: The BLUETOOTH power is only turned on when “BT” function is selected.

Note

In some applications, you may not be able to make the connection directly from the BLUETOOTH device even though you have set [Bluetooth Power Setting] to [On]. In this case, press BLUETOOTH.

[Network Settings]

■ [Wireless Network Settings]

Connect the system to the network beforehand using the built-in wireless LAN of the system for wireless network connection. For details, see “Step 3: Preparing for Network Connection” (page 20).

Tip

For further details, visit the following website and check the FAQ:
<http://www.sony-asia.com/section/support>

■ [Network Connection Status]

Displays the current network connection status.

■ [Auto Renderer Access Permission]

[On]: Allows automatic access from a newly detected controller.

[Off]: Off.

■ [Renderer Access Control]

Sets whether or not to accept commands from controllers.

■ [Remote Start]

[On]: Allows turning on the system by a device linked via network when the system is in standby mode.

[Off]: The system cannot be turned on by a device linked via network.

[Resetting]

■ [Reset to Factory Default Settings]

You can reset the system settings to the factory default by selecting the group of settings. All the settings within the group will be reset.

■ [Initialise Personal Information]

You can erase your personal information stored in the system.

Precautions

On safety

- 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

If you are not going to use the system for a long time, be sure to disconnect the system from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- Although the system heats up during operation, this is not a malfunction. If you continuously use this system at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- Do not place the system on a soft surface (rugs, blankets, etc.) that might block the ventilation holes.
- 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.
- Do not place metal objects in front of the front panel. It may limit reception of radio waves.
- Do not place the system in a place where medical equipment is in use. It may cause a malfunction of medical equipment.
- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the wireless LAN function.

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.

On replacement of parts

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

On your TV's color

If the speakers cause the color irregularity on your TV screen, turn off the TV then turn it on after 15 to 30 minutes. If color irregularity 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 TV 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 TV screen. Plasma display panel televisions and projection televisions are especially susceptible to this.

On moving the system

Before moving the system, make sure that you disconnect the AC power cord (mains lead) from the wall outlet (mains).

On BLUETOOTH communication

- BLUETOOTH devices should be used within approximately 10 meters (unobstructed distance) of each other. The effective communication range may become shorter under the following conditions.
 - When a person, metal object, wall or other obstruction is between the devices with a BLUETOOTH connection
 - Locations where a wireless LAN is installed
 - Around microwave ovens that are in use
 - Locations where other electromagnetic waves occur
- BLUETOOTH devices and wireless LAN (IEEE 802.11b/g) use the same frequency band (2.4 GHz). When using your BLUETOOTH device near a device with wireless LAN capability, electromagnetic interference may occur. This could result in lower data transfer rates, noise, or inability to connect. If this happens, try the following remedies:

- Use this main unit at least 10 meters away from the wireless LAN device.
- Turn off the power to the wireless LAN equipment when using your BLUETOOTH device within 10 meters.
- Install this main unit and BLUETOOTH device as close to each other as possible.
- The radio waves broadcast by this main unit may interfere with the operation of some medical devices. Since this interference may result in malfunction, always turn off the power on this main unit and BLUETOOTH device in the following locations:
 - In hospitals, on trains, in airplanes, at gas stations, and any place where flammable gasses may be present
 - Near automatic doors or fire alarms
- This main unit supports security functions that comply with the BLUETOOTH specification to ensure secure connection during communication using BLUETOOTH technology. However, this security may be insufficient depending on the setting contents and other factors, so always be careful when performing communication using BLUETOOTH technology.
- Sony cannot be held liable in any way for damages or other loss resulting from information leaks during communication using BLUETOOTH technology.
- BLUETOOTH communication is not necessarily guaranteed with all BLUETOOTH devices that have the same profile as this main unit.

- **BLUETOOTH** devices connected with this main unit must comply with the **BLUETOOTH** specification prescribed by the Bluetooth SIG, Inc., and must be certified to comply. However, even when a device complies with the **BLUETOOTH** specification, there may be cases where the characteristics or specifications of the **BLUETOOTH** device make it impossible to connect, or may result in different control methods, display or operation.
- Noise may occur or the audio may cut off depending on the **BLUETOOTH** device connected with this main unit, the communications environment, or surrounding conditions.

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

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.

General

The power does not turn on.

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

The remote control does not function.


- The distance between the remote control and the main unit is too far.
- The batteries in the remote control are weak.

The system does not work normally.

- Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.

Messages

“PRTECT”, “PUSH” and “POWER” appear alternately in the front panel display.

- Press  to turn off the system, and check the following items after “STBY” disappears.
 - Are the + and – speaker cords short-circuited?
 - Are you using only the supplied 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.

“D. MODE” appears in the front panel display.

- Contact your nearest Sony dealer or local authorized Sony service facility.

“Exxxx” (x is a number) 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.

“NOT.USE” appears in the front panel display when you press any of the sound field buttons (page 11).

- The setting for the sound field buttons cannot be changed when the [Sound Effect] is set to other than [Sound Field On]. Set [Sound Effect] in [Audio Settings] to [Sound Field On].

Picture

There is no picture or the picture is not output correctly.

- Check the output method on your system (page 17).
- Press **■**, **DISPLAY**, **→**, **▲** in sequence to reset the video output resolution to the lowest resolution.
- For USBs, check the [USB 24p Output] settings in [Screen Settings] (page 39).

There is no picture when you make an HDMI cable connection.

- The main unit is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant (“HDMI” in the front panel does not light up) (page 17).

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 31).

An image is not displayed on the entire TV screen.

- Check the setting of [TV Type] in [Screen Settings] (page 39).
- The aspect ratio on the media 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.

Sound

There is no sound.

- The speaker cords are not connected securely.
- Check the speaker settings (page 35).

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 41). Also, set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Auto] (page 41).
- 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 of TV programs correctly when connected to a set-top box.

- Set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Off] (page 41).
- Check the connections (page 18).

Severe hum or noise is heard.

- Move your audio equipment away from the TV.
- Clean the disc on the connected device.

The sound outputs from the center speaker only.

- Depending on the media, the sound may output 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 16, 35).
- Check the sound field setting (page 22).
- Depending on the source, the effect of the surround speakers may be less noticeable.
- Set [Sound Field] to [ClearAudio+] (page 22).

Distortion occurs in the sound of a connected equipment.

- Reduce the input level for the connected equipment by setting [Attenuation settings - AUDIO] (page 40).

A sudden loud music is heard.

- The built-in sound demonstration is activated. Press  to reduce the volume or press  to stop the demonstration.


Tuner**Radio stations cannot be tuned in.**

- Check that the antenna (aerial) is connected securely. Adjust the antenna (aerial).
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use manual tuning.

Playback**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 file does not start playing from the beginning.

- Resume play has been selected. Press **OPTIONS** and select [Play from start], then press .

The language for the soundtrack/subtitle or angles cannot be changed.


- Try using the VIDEO's menu.
- Multilingual tracks/subtitles or multi-angles are not recorded on the VIDEO being played.

Playback does not start from the resume point where you last stopped playing.

- The resume point may be cleared from memory depending on the file when
 - you disconnect the USB device.
 - you play other content.
 - you turn off the main unit.

USB device

The USB device is not recognized.

- Try the following:
 - ① Turn the system off.
 - ② Remove and reconnect the USB device.
 - ③ Turn the system on.
- Make sure that the USB device is securely connected to the  (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 main unit.

“BRAVIA” Sync ([Control for HDMI])

The [Control for HDMI] function does not work (“BRAVIA” Sync).

- Check that [Control for HDMI] is set to [On] (page 41).
- 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 41).
- Check the following and refer to the operating instructions supplied with the equipment.
 - The connected equipment is compatible with the [Control for HDMI] function.
 - The connected equipment’s setting for the [Control for HDMI] function is correct.

Network connection

The system cannot connect to the network.

- Check the network connection (page 20) and the network settings (page 42).

Wireless LAN connection

You cannot connect your PC to the Internet after [Wi-Fi Protected Setup (WPS)] is performed.

- The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly.

The system cannot connect to the network or the network connection is unstable.

- Check if the wireless LAN router is on.
- Check the network connection (page 20) and the network settings (page 42).
- Depending on the usage environment, including the wall material, radio wave reception conditions, or obstacles between the system and the wireless LAN router, the possible communication distance may be shortened. Move the system and the wireless LAN router closer to each other.
- Devices that use a 2.4 GHz frequency band, such as a microwave, BLUETOOTH, or digital cordless device, may interrupt communication. Move the main unit away from such devices, or turn off such devices.

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

The wireless router you want is not shown in the wireless network list.

- Press RETURN to return to the previous screen, and try [Wireless Network Settings] again. If the wireless router you want is still not detected, select [New connection registration] from the network list, then select [Manual Registration] to input a network name (SSID) manually.

BLUETOOTH device

Pairing cannot be done.

- Move the BLUETOOTH device closer to the main unit.
- Pairing may not be possible if other BLUETOOTH devices are present around the main unit. In this case, turn off the other BLUETOOTH devices.
- Delete the system from your BLUETOOTH device and perform pairing again (page 26).

Connecting cannot be done.

- The pairing registration information has been erased. Perform the pairing operation again (page 26).

There is no sound.

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

- Check that the BLUETOOTH connection is made properly between this system and the BLUETOOTH device.
- Pair this system and the BLUETOOTH device again.
- Keep the system away from metal objects or surfaces.
- Make sure “BT” function is selected.
- Adjust the volume of the BLUETOOTH device first, if the volume level is still too low, adjust the volume level on the main unit.

The sound skips or fluctuates, or the connection is lost.

- The main unit and the BLUETOOTH device are too far apart.
- If there are obstacles between the main unit and your BLUETOOTH device, remove or avoid the obstacles.
- If there is equipment that generates electromagnetic radiation, such as a wireless LAN, other BLUETOOTH device, or a microwave oven nearby, move them away.

Playable Types of Files

Video

Codec	Container	Extension
MPEG-1 Video	PS	.mpg, .mpeg
	MKV	.mkv
MPEG-2 Video	PS	.mpg, .mpeg
	TS	.m2ts, .mts
	MKV	.mkv
Xvid	AVI	.avi
	MKV	.mkv

Codec	Container	Extension
MPEG4/AVC ^{*1}	MKV	.mkv
	MP4	.mp4, .m4v
	TS	.m2ts, .mts
	Quick Time	.mov
	3gpp/ 3gpp2	.3gp, .3g2, .3gpp, .3gp2
	FLV	.flv, .f4v
VC1	TS	.m2ts, .mts
	MKV	.mkv
WMV9	MKV	.mkv
	ASF	.wmv, .asf
Motion JPEG	Quick Time	.mov
	AVI	.avi

Format	Container	Extension
AVCHD ^{*2}	AVCHD Format Folder ^{*3}	

Music

Codec	Extension
MP3 (MPEG-1 Audio Layer III) ^{*5}	.mp3
AAC ^{*5}	.m4a, .aac
WMA9 Standard	.wma
LPCM ^{*5}	.wav
FLAC	.flac, .fla
Dolby Digital ^{*5}	.ac3
DSF	.dsf
DSDIFF ^{*6}	.dff
AIFF	.aiff, .aif
ALAC	.m4a

Photo

Format	Extension
JPEG	.jpeg, .jpg, .jpe
PNG	.png ^{*4}
GIF	.gif ^{*4}

^{*1} The system can support AVC up to Level 4.1.

^{*2} The system can play AVCHD Ver.2.0 format (AVCHD/Progressive).

^{*3} The system plays AVCHD format files that are recorded on a digital video camera, etc.

^{*4} The system does not play animated PNG or animated GIF files.

^{*5} The player can play “.mka” files.

^{*6} The player does not play DST encoded files.

Notes

- 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.
- Some files may not be able to perform fast forward or fast reverse function.
- The system does not play coded files such as DRM and Lossless.
- The system can recognize the following files or folders in a USB device:
 - up to folders in the 9th layer (including the root folder)
 - up to 500 files/folders in a single layer
- The system can support frame rate:
 - up to 60 fps for AVCHD only.
 - up to 30 fps for other video codecs.
- The system can support video bit rate up to 40 Mbps.
- The system can support video resolution up to 1920 × 1080p.
- Some USB devices may not work with this system.
- The system can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Devices (SICDs), and 101-key keyboards.

Supported Audio Formats

Audio formats supported by this system are as follows.

Format	Function	
	"HDMI 1/ HDMI 2"	"TV/COAX" (DIGITAL AUDIO IN)
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	○	-

○: Supported format.

-: Unsupported format.

* Decoded as DTS core.

Note

For LPCM 2ch format, the supported sampling frequency of the digital signal is up to 48 kHz when using the "TV" function.

Specifications

Amplifier Section

POWER OUTPUT (rated)

Front L/Front R:

75W + 75W (at 3ohms, 1kHz, 1% THD)

POWER OUTPUT (reference)

Front L/Front R/Surround L/Surround R:

125 W (per channel at 3 ohms, 1 kHz)

Center:

250 W (at 6 ohms, 1 kHz)

Subwoofer:

250 W (at 6 ohms, 80 Hz)

Inputs (Analog)

AUDIO IN

Sensitivity: 1.6 V/500 mV

Inputs (Digital)

TV (Audio Return Channel/OPTICAL)

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

HDMI Section

Connector

Type A (19pin)

USB Section

⚡ (USB) port:

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

Wireless LAN Section

Standards Compliance

IEEE 802.11 a/b/g/n

Frequency band

2.4 GHz, 5 GHz

BLUETOOTH Section

Communication system

BLUETOOTH Specification version 3.0

Output

BLUETOOTH Specification Power Class 2

Maximum communication range

Line of sight approx. 10 m¹⁾

Frequency band

2.4 GHz

Modulation method

FHSS (Freq Hopping Spread Spectrum)

Compatible BLUETOOTH profiles²⁾
A2DP 1.2 (Advanced Audio Distribution Profile)
AVRCP 1.3 (Audio Video Remote Control Profile)
Supported Codecs³⁾
SBC⁴⁾, AAC
Transmission range (A2DP)
20 Hz – 20,000 Hz (Sampling frequency
44.1 kHz, 48 kHz)

¹⁾The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, antenna's performance, operating system, software application, etc.

²⁾BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

³⁾Codec: Audio signal compression and conversion format

⁴⁾Subband Codec

FM Tuner Section

System

PLL quartz-locked digital synthesizer

Tuning range

87.5 MHz – 108.0 MHz (50 kHz step)

Antenna (aerial)

FM wire antenna (aerial)

Speakers

Front/Surround (SS-TSIV300)

Dimensions (w/h/d) (approx.)

100 mm × 114 mm × 102 mm (wall-mounted, horizontal)

114 mm × 100 mm × 102 mm (whole speaker, vertical)

Mass (approx.)

0.41 kg (without speaker cord)

Center (SS-CTIV300)

Dimensions (w/h/d) (approx.)

100 mm × 114 mm × 102 mm (wall-mounted, horizontal)

114 mm × 100 mm × 102 mm (whole speaker, vertical)

Mass (approx.)

0.44 kg (with speaker cord)

Subwoofer (SS-WSIV300)

Dimensions (w/h/d) (approx.)

245 mm × 350 mm × 325 mm

Mass (approx.)

6.2 kg (with speaker cord)

General

Power requirements

220 V – 240 V AC, 50/60 Hz

Power consumption

On: 100 W

Standby: 0.3 W (For details on the setting, see page 37.)

Dimensions (w/h/d) (approx.)

249 mm × 62.5 mm × 229.5 mm incl. projecting parts

Mass (approx.)

1.6 kg

Design and specifications are subject to change without notice.

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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.

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

HDMI

<http://www.sony.net/>



* 4 4 8 6 8 4 8 1 1 * (1)