SONY

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 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.

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. UNMITTELBAREN 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 ØYNENE.
VARNING	KLASS 3R SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT DIREKT EXPONERA ÖGONEN FÖR STRÅLNINGEN.
VARO!	AVATTUNA LUOKAN 3R NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. VÄLTÄ KATSEEN SUORAA ALTISTAMISTA.
警告	打开时有3R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3R類可視及不可視雷射輻射,避免眼睛直接曝露。

Pick-up unit of 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 bottom exterior.

CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

For the main unit

The nameplate is located on the bottom exterior.

Recommended cables

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

For the customers in India

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

Precautions

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 product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.
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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 main unit if they have the same or similar names as those on the remote control.
- 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.
- The instructions in this manual are for BDV-N9100W, BDV-N8100W and BDV-N7100W. BDV-N9100W is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "BDV-N9100W only".
- 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.

Table of Contents

Additional Information

Unpacking

- Operating Instructions
- Quick Setup Guide
- Speaker Installation Guide
- Remote control (1)
- R03 (size AAA) batteries (2)
- FM wire antenna (aerial) (1)

or

- Calibration mic (1)

- High Speed HDMI cable (1)

- Surround amplifier (1)

- Wireless transceivers (2)

BDV-N9100W only
- Front speakers (2)

- Surround speakers (2)

- Center speaker (1)

- Subwoofer (1)

• Speaker cords (5, red/white/gray/blue/green)

• Bases (4)

• Lower parts of the front and surround speakers (4)

• Screws (16)
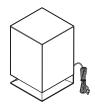

BDV-N8100W only

• Front speakers (2)

• Surround speakers (2)

• Center speaker (1)

• Subwoofer (1)

• Speaker cords (5, red/white/gray/blue/green)

• Bases (2)

• Lower parts of the front speakers (2)

• Stands (for surround speakers) (2)
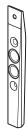

• Screw hole covers (2)

• Screws (10)

BDV-N7100W only
• Front speakers (2)

• Surround speakers (2)

• Center speaker (1)

• Subwoofer (1)

• Speaker cords (5, red/white/gray/blue/ green)

• Stands (for front and surround speakers) (4)

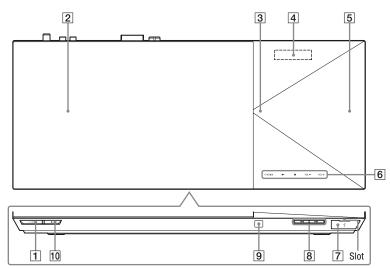• Screw hole covers (4)

• Screws (4)

Guide to Parts and Controls

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

Main unit

Top and front panel

[1] **I/**⏻ **(on/standby)**

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

[2] **Disc lid (page 31)**

[3] **LED indicator**

White: Lights up when the main unit is turned on.
Blue (for *Bluetooth* status):
– System is ready for pairing: Flashes quickly
– During pairing: Flashes quickly
– During connection: Flashes
– Connection is established: Lights up

[4] **Top panel display**

[5] **N (N-Mark) (page 36)**

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

[6] **Soft-touch buttons/indicators**

FUNCTION (page 29)

Selects the playback source.

▶* **(play)**
■* **(stop)**
VOL +/–

* Touch and hold ▶ on the main unit for more than 2 seconds, the built-in sound demonstration will be played back on the system. Touch ■ to stop the demonstration.

Note

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

7 ⋃ **(USB) port (page 33)**

Place your fingernail in the slot to open the cover.

8 **I◀◀ /▶▶I (previous/next)**

9 **Ⓡ (remote control sensor)**

10 **▲ (open/close)**

About soft-touch buttons/ indicators

These buttons function when the soft-touch button indicators are lit.
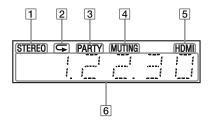
You can turn on/off the indicators by setting [Main Unit illumination] (page 59). When you set [Main Unit illumination] to [Auto], the indicators turn off. In this case, touch any soft-touch button. When the indicators light up, touch the button you want.

If you touch any button when the indicators are off, the indicators light up for a few seconds. If you touch the ▶ again, the ▶ indicator flashes for a few seconds and lights up during playback.

Note

- 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.

Indicators in the top panel display

1. **Lights up when stereo sound is received. (Radio only)**
2. **Lights up when repeat play is activated.**
3. **Lights up when the system is playing via the PARTY STREAMING function.**
4. **Lights up when muting is on.**
5. **Lights up when the HDMI (OUT) jack is correctly connected to an HDCP (High-bandwidth Digital Content Protection) compliant equipment with HDMI or DVI (Digital Visual Interface) input.**

6. **Displays the system's status, such as radio frequency, etc.**

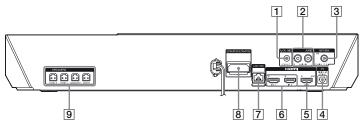   When you press DISPLAY, the stream information/decoding status is displayed when the function is set to "TV".

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

   Note

   When the [Main Unit illumination] is set to [Auto] in [System Settings], the top panel display lights off if you do not operate the main unit for about 10 seconds.

Rear panel
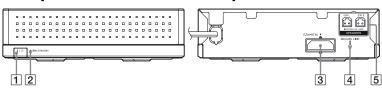
A. A.CAL MIC jack (pages 28, 47)

B. AUDIO (AUDIO IN L/R) jacks (page 22)

C. ANTENNA (FM COAXIAL 75 Ω) jack (page 24)

D. TV (DIGITAL IN OPTICAL) jack (page 21)

E. HDMI (OUT) jack (page 21)

F. HDMI (IN 1/IN 2) jacks (page 22)

G. LAN (100) terminal (page 24)

H. Wireless transceiver slot (page 26)

I. SPEAKERS jacks (page 19)

Surround amplifier

Front panel

A. I/⏻ (on/standby)
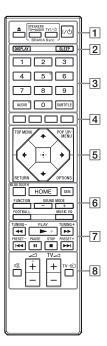
B. LINK/STANDBY indicator (page 27)

You can check the status of wireless transmission between the main unit and surround amplifier.

Rear panel

C. Wireless transceiver (EZW-RT50) slot

D. SECURE LINK button (page 53)

Starts the Secure Link function.

E. SPEAKERS jacks

Remote control

- Number 5, AUDIO, ▶, and ∠ + buttons have a tactile dot. Use the tactile dot as a reference when operating the remote control.
- ⎡ TV ⎤ : For TV operations (For details, see "Controlling Your TV with the Supplied Remote Control" (page 50).)

① ▲ (open/close)

Opens or closes the disc lid.

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 59).

TV I/⏻ (on/standby) (page 50) ⎡ TV ⎤

Turns on the TV or sets it to standby mode.

I/⏻ (on/standby) (pages 28, 45)

Turns on the system or sets it to standby mode.

② **DISPLAY (pages 33, 38, 45, 51)**

Displays playback and web browsing information on the TV screen. Displays the preset radio station, frequency, etc., in the top panel display.

SLEEP (page 49)

Sets the sleep timer.

③ **Number buttons (pages 45, 50)**

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

AUDIO (page 43)

Selects the audio format/track.

SUBTITLE

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

④ **Color buttons**

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

⑤ **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 30, 41, 52)

Displays the options menu on the TV screen or in the top 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.

⑥ **BLUETOOTH (pages 34, 35)**

Selects the "BT" function.
When the blue LED indicator lights off during "BT" function, press to start pairing or connect to paired *Bluetooth* device.

HOME (pages 29, 48, 54)

Enters or exits the system's home menu.

SEN

Accesses the "Sony Entertainment Network™" online service.

FUNCTION (page 29)

Selects the playback source.
By setting [External Input Settings] (page 60), you can skip unused inputs when selecting a function.

SOUND MODE +/– (page 30)

Selects the sound mode.

FOOTBALL (page 31)

Produces optimized sound for watching football match broadcasting.

MUSIC EQ (page 30)

Selects the pre-programmed equalizer when listening to music.

⑦ **Playback operation buttons**

See "Playback" (page 31).

◄◄/►► (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.

Note

During Blu-ray 3D Disc playback, slow-motion reverse play and single-frame reverse play are not available.

I◄◄/►►I (previous/next)

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

► PLAY

Starts or re-starts playback (resume play).
Activates One-Touch Play (page 46) when the system is on and set to the "BD/DVD" function.

II 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 sound demonstration.

Radio operation buttons

See "Tuner" (page 44).

TUNING +/–

PRESET +/–

17GB

8 ◁✕ **(muting)**

Turns off the sound temporarily.

∠ **(volume) +/–**

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.

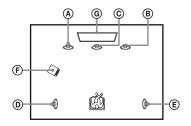# Step 1: Installing the Speakers
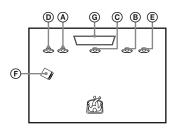
Install the speakers by referring to the illustration below.

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

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

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

Note

- Be sure to select the speakers layout setting (page 48) 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.

Tip

- In order to output more effective sound when [All Front] setting is selected, we recommend you to install your front speakers and surround speakers closer to each other.
- You can install the speakers on a wall. For details, refer to the supplied "Speaker Installation Guide".

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.
To assemble the speakers, refer to the supplied "Speaker Installation Guide".

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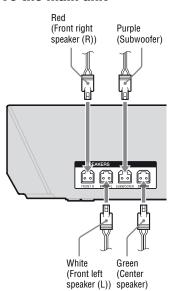
When you connect other equipment with a volume control, turn down the volume of the equipment to a level where sound is not distorted.

Connecting the speakers
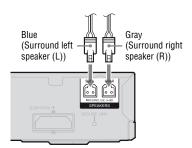
Connect the speaker cords to match the color of the SPEAKERS jacks of the main unit and surround amplifier.
When connecting to the main unit and surround amplifier, insert the connector until it clicks.

To the main unit

Red
(Front right speaker (R))

Purple
(Subwoofer)

White
(Front left speaker (L))

Green
(Center speaker)

To the surround amplifier

Blue
(Surround left
speaker (L))

Gray
(Surround right
speaker (R))

SUR L   SUR R

IMPEDANCE USE 3~16Ω

SPEAKERS

EZW-RT50

SECURE LINK
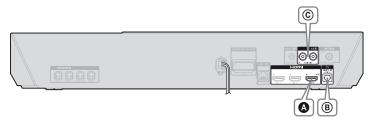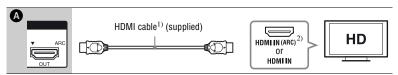
Connecting the TV

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

Video connection

HDMI cable[1] (supplied)

HD

[1] High Speed HDMI cable
[2] If the HDMI IN jack of your TV is compatible with the ARC (Audio Return Channel) function, digital audio signal can be output from the TV via an HDMI cable connection. For setting the ARC function, see [Audio Return Channel] (page 59).
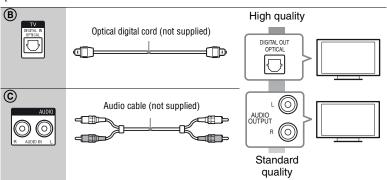
Audio connections
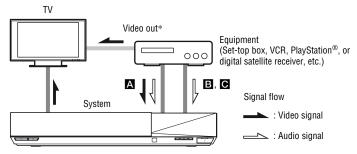
If you do not connect the system to the TV's HDMI jack that is compatible with the ARC function, make an appropriate audio connection for listening to TV sound via the system's speakers.

High quality

Optical digital cord (not supplied)

Audio cable (not supplied)

Standard quality

21GB
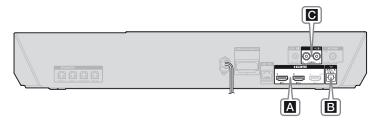
Connecting the other equipment (Set-top box, etc.)
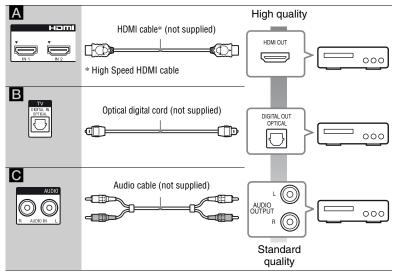
Connect the system, TV and other equipment as follows.

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

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

High quality

A

HDMI cable* (not supplied)

* High Speed HDMI cable

HDMI OUT

B

TV
DIGITAL IN
OPTICAL

Optical digital cord (not supplied)

DIGITAL OUT
OPTICAL

C

AUDIO

R AUDIO IN L

Audio cable (not supplied)

L

AUDIO
OUTPUT

R

Standard quality

When you make connection **A**

This connection can transmit both video and audio signals.

Note

• 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 57).

When you make connection **B**, **C**
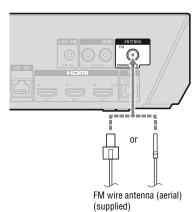
Connect the system so that video signals from the system and other equipment are output to the TV, and audio signals from the equipment are output to the system as follows.

Note

• If you make either connection above, set [Control for HDMI] in [HDMI Settings] of [System Settings] to [Off] (page 59).
• You can enjoy equipment sound by selecting the "AUDIO" function for connection **C**.

Connecting the antenna (aerial)

Rear of the main unit

FM wire antenna (aerial) (supplied)

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 main unit to an outdoor FM antenna (aerial).
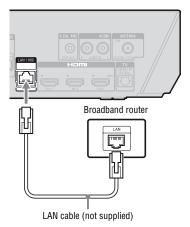
Step 3: Preparing for Network Connection

Tip

To connect the system to your network, perform [Easy Network Settings]. For details, see "Step 5: Performing the Easy Setup" (page 28).

Select the method based on your LAN (Local Area Network) environment.
- If you use a wireless LAN
  The system has built-in Wi-Fi, and you can connect the system to the network by making the network settings.
- If you use other than a wireless LAN
  Use a LAN cable to connect to the LAN (100) terminal on the main unit.

Broadband router

LAN cable (not supplied)

Tip

A shielded interface cable (LAN cable), straight or crossover, is recommended.

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)
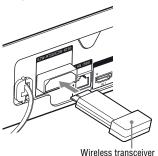
AES is a security technology that uses an advanced security method distinct from WEP and TKIP. AES assures a higher security level than WEP or TKIP.

Step 4: Setting up the Wireless System

The main unit transmits sound to the surround amplifier that is connected to the surround speakers. To activate wireless transmission, perform the following Steps.
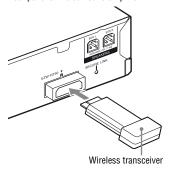
1 **Insert the wireless transceiver into the main unit.**

Rear panel of the main unit

Wireless transceiver

2 **Insert the wireless transceiver into the surround amplifier.**

Rear panel of the surround amplifier

Wireless transceiver

3 **Connect the AC power cord (mains lead) of the main unit.**
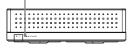
Before connecting the AC power cord, make sure all connections in "Step 2: Connecting the System" (page 19) are secure.

4 **Press I/**$\circlearrowleft$ **to turn on the system.**

I/$\circlearrowleft$

5 **Connect the AC power cord (mains lead) of the surround amplifier.**

LINK/STANDBY indicator

When wireless transmission is activated, the LINK/STANDBY indicator turns green.
If the LINK/STANDBY indicator does not turn on, see "Wireless sound" (page 68).

About the LINK/STANDBY indicator

The LINK/STANDBY indicator shows wireless transmission status, as follows.

Indicator	Status
Turns green.	The system is turned on, wireless transmission is activated and surround signals are being received.
Turns orange.	The system is turned on, wireless transmission is activated with the Secure Link function, and surround signals are being received.
Flashes green or orange slowly.	Wireless transmission is deactivated.
Turns red.	The surround amplifier is in standby mode while the system is in standby mode or wireless transmission is deactivated.
Turns off.	The surround amplifier is turned off.
Flashes green quickly.	The wireless transceiver is not inserted correctly into the wireless transceiver slot.
Flashes red.	The surround amplifier's protection is active.

About the standby mode

The surround amplifier enters standby mode automatically when the main unit is in standby mode or wireless transmission is deactivated.
The surround amplifier turns on automatically when the main unit is turned on and wireless transmission is activated.

To specify the wireless connection

If you use multiple wireless products or your neighbors use wireless products, interference may occur. To prevent this, you can specify the wireless connection to link the main unit to the surround amplifier (Secure Link function). For details, see "Further Settings for the Wireless System" (page 52).
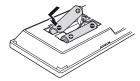
Step 5: Performing the Easy Setup

Before performing Step 5

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 ⊕ and ⊖ ends on the batteries to the markings inside the compartment.**

2 **Turn on the TV.**

3 **Connect the calibration mic to the A.CAL MIC jack on the rear panel.**

Set up the calibration mic at ear level using a tripod, etc. (not supplied). The calibration mic should aim the TV screen. The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.

4 **Press I/**$\circlearrowleft$** to turn on the system.**
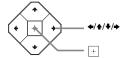
5 **Switch the input selector on your TV so that the signal from the system appears on the TV screen.**

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

```
Easy Initial Settings - OSD Language

     Select the language to be displayed by this unit.

                    English
                    Deutsch
                    Français                    ▶
                    Italiano
                    Español
```

6 **Perform [Easy Initial Settings]. Follow the on-screen instructions to make the basic settings using ←/↑/↓/→ and** ⊞ **.**

For details about [Auto Calibration], see "Calibrating the Appropriate Speaker Settings Automatically" (page 47).

7 **After completing the [Easy Initial Settings], press ↑/↓ to select [Easy Network Settings], then press** ⊞ **.**

The [Easy Network Settings] display appears.

8 **Follow the on-screen instructions to make the network settings using ←/↑/↓/→ and** ⊞ **.**

If the system cannot connect to the network, see "Network connection" (page 70) or "Wireless LAN connection" (page 70).

To recall the [Easy Network Settings] display

1 Press HOME.

The home menu appears on the TV screen.

2 Press ◄/► to select 🔧 [Setup].

3 Press ▲/▼ to select [Easy Network Settings], then press ⊞ .

Step 6: Selecting the Playback Source

Press FUNCTION repeatedly until the function you want appears in the top panel display.

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

"BD/DVD" → "USB" → "FM" → "HDMI1" → "HDMI2" → "TV" → "BT" → "AUDIO"

Function and playback source

"BD/DVD"
Disc or network device to be played by the system

"USB"
USB device that is connected to the ⍦ (USB) port (page 12)

"FM"
FM radio (page 44)

"HDMI1"/"HDMI2"
Equipment that is connected to the HDMI (IN 1) or HDMI (IN 2) jack (page 22)

Function and playback source

"TV"
Equipment (TV, etc.) that is connected to the TV (DIGITAL IN OPTICAL) jack, or a TV compatible with the Audio Return Channel function that is connected to the HDMI (OUT) jack (page 21)

"BT"
Audio contents of a *Bluetooth* device

"AUDIO"
Equipment that is connected to the AUDIO (AUDIO IN L/R) jacks (page 22)

Tip

- Some functions may be changed via the TV screen by pressing FUNCTION, ▲/▼, and ⊞ .
- You can also press BLUETOOTH on the remote control to select "BT" function.

Step 7: Enjoying Surround Sound

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

Selecting the sound mode

Press SOUND MODE +/– repeatedly during playback until the mode you want appears in the top panel display or on the TV screen.

Auto

The system automatically selects [Movie] or [Music] to produce the sound effect depending on the disc or sound stream.
• 2-channel source: The system simulates surround sound from 2-channel sources and outputs sound from the 5.1 channel speakers.
• 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]

The system reproduces an enhanced sound for compressed audio.

3D Surround

[3D Surround] is a unique Sony algorithm that provides a 3D sound experience with depth and presence by creating a virtual sound field close to your ears.

Berlin Philharmonic Hall [Philharmonic Hall]

The system reproduces the sound characteristics of a Berlin philharmonic hall for listening to a 2-channel stereo source such as CDs.

Night

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

Demo Sound

The system provides ear-catching sound, suitable for demonstration.

Tip

• If you set the sound mode to [Auto] and play Internet content of the Berlin Philharmonic, the [Philharmonic Hall] sound mode is automatically selected (only for areas that are offered the service).
• When the speaker layout is set to [All Front] and you play back multi-channel source, select [Auto] or [3D Surround] to enjoy virtual surround sound.

To select the sound mode from the option menu

1 Press OPTIONS and ✦/✦ to select [Sound Mode], then press ⊞ .

2 Press ✦/✦ to select the sound mode, then press ⊞ .

To select the pre-programmed music equalizer

Press MUSIC EQ repeatedly during playback.
You can select the sound to suit your preference.
Each time you press the button, the setting changes cyclically as follows.
[Standard] → [Rock] → [Hiphop] → [Electronica]

You can also select the music equalizer by using the option menu in [Music] sound mode.

Note

The sound mode can be selected only when [Sound Effect] is set to [Sound Mode On] (page 57). When [Sound Effect] is set to other than [Sound Mode On], the sound mode setting does not apply.

Tip

To enjoy 2-channel source such as a CD in multi-channel output, we recommend you to select [Auto].

Selecting the football mode

Press FOOTBALL 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.

Note

- 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 will be turned off when you turn off the system.
- This feature does not support monaural sound.

Tip

- 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.

Playing a Disc

For playable discs, see "Playable Discs" (page 72).

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 compartment until it clicks.**

3 **Press ⏏ to close the disc lid.**

Playback starts.
If playback does not start automatically, select ● in the ▦ [Video], ♫ [Music], or ◙ [Photo] category, and press ⊞ .

31GB

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 (page 33).

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

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

- Connect the system to a network (page 24).
- Set [BD Internet Connection] to [Allow] (page 58).

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 [Delete 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*.

* Blu-ray 3D™

1 Prepare for Blu-ray 3D Disc playback.

- Connect the system to your 3D-compatible TV using a High Speed HDMI cable (page 21).
- Set [3D Output Setting] and [TV Screen Size Setting for 3D] in [Screen Settings] (page 55).

2 Insert a Blu-ray 3D Disc.

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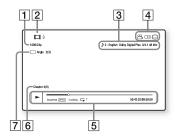
Tip

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

Displaying the playback 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

A Output resolution/Video frequency

B Title number or name

C The currently selected audio setting

D Available functions (angle, audio, subtitle)

E Playback information
Displays play mode, playing status bar, disc type, video codec, bit rate, repeat type, elapsed time, total playing time

F Chapter number

G The currently selected angle
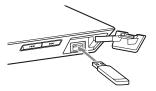
Playing from a USB Device

You can play video/music/photo files on a connected USB device.
For playable types of files, see "Playable Types of Files" (page 73).

1 Connect the USB device to the ψ (USB) port.

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

2 Press HOME.

The home menu appears on the TV screen.

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

4 Press ↑/↓ to select ▆ [USB device], 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.

33GB

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.

You do not need wires to get connected as you do with a USB connection, and you do not need to place the devices face to face as you do with wireless infrared technology. *Bluetooth* wireless technology is a global standard supported by thousands of companies. These companies produce products that meet the global standard.

Supported *Bluetooth* version and profiles

Profile refers to a standard set of capabilities for various *Bluetooth* product capabilities. This system supports the following *Bluetooth* version and profiles.
Supported *Bluetooth* version:
Bluetooth Specification version 3.0
Supported *Bluetooth* profiles:
A2DP 1.2 (Advanced Audio Distribution Profile)
AVRCP 1.3 (Audio Video Remote Control Profile)

Note

• To be able to use the *Bluetooth* function, the *Bluetooth* device to be connected must support the same profile as this system. Even if the device supports the same profile, the functions may differ depending on the specifications of the *Bluetooth* device.
• The audio playback on this system may be delayed from that on the *Bluetooth* device because of the characteristics of the *Bluetooth* wireless technology.

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 "BLU-RAY HOME THEATRE SYSTEM" on the *Bluetooth* device 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".

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 34).

1 Press BLUETOOTH.

2 Press OPTIONS.

Note

To connect to the most recent connected *Bluetooth* device, press ▶. Then proceed to Step 5.

3 Press ✦/✦ repeatedly to 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.

Note

Once the main unit and the *Bluetooth* device are connected, you can control playback by pressing ▶, II, ■, ◀◀/▶▶ and I◀◀/▶▶I.

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 Follow the on-screen instructions to delete the device using ◀/✦/✦/➔ and ⊞.

Note

While connected to a *Bluetooth* device, this system cannot be detected and a connection cannot be established from another *Bluetooth* device.

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

By holding an NFC-compatible smartphone near to the ⃞N on the main unit, the main unit and smartphone proceed to complete pairing and the *Bluetooth* connection automatically.

Compatible smartphones

Smartphones with a built-in NFC function (OS: Android 2.3.3 – 4.0.x excluding Android 3.x)

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 on the NFC-compatible devices.

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

"NFC Easy Connect" is a free app for Android smartphones that can be obtained on Google Play. Search for the app 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 app.

Note

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

2 Start the "NFC Easy Connect" app on the smartphone.

Make sure that the application screen is displayed.

3 Hold the smartphone near to the ⃞N on the main unit until the smartphone vibrates.

Vibration cue is provided when the smartphone is recognized by the main unit.
After being recognized by the main unit, follow the on-screen instructions displayed on the smartphone, and complete the procedure for *Bluetooth* connection.
When the *Bluetooth* connection is established, the blue LED indicator on the top panel stops flashing. The playback time appears in the top panel display.

Note

- The system only can recognizes and connects to one NFC-compatible device at a time.
- Depending on your smartphone, you may need to turn on the NFC function on your smartphone in advance. For details, refer to the operating instructions of the smartphone.

Tip

If pairing and the *Bluetooth* connection fail, do the following.
– Relaunch "NFC Easy Connect" and move the smartphone slowly over the ⓝ.
– Remove the case from the smartphone if using a commercially available smartphone case.

To listen to music

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

Tip

If the volume level is low, adjust the volume of the smartphone 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 smartphone near to the ⓝ on the main unit again.
– Stop the music player of the smartphone.
– Turn off the main unit or the smartphone.
– Change the function.
– Disable the *Bluetooth* function on the smartphone.

Playing via a Network

Enjoying Sony Entertainment Network (SEN)

Sony Entertainment Network serves as a gateway delivering selected Internet content and a variety of on-demand entertainment straight to your main unit.

Tip

- Some Internet content requires registration via a PC before it can be played. For further details, visit the following website:
  http://www.sony-asia.com/section/support
- Some Internet content may not be available in some countries/regions.

1 Prepare for Sony Entertainment Network.
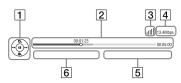
Connect the system to a network (page 24).

2 Press SEN.

3 Press ◄/▲/▼/► to select the Internet content and a variety of on-demand entertainment, then press ⊡.

Video streaming control panel

The control panel appears when a video file starts playing. The displayed items may differ depending on the Internet content provider.

To display again, press DISPLAY.

1 Control display
   Press ←/↑/↓/→ or ⊕ for playback operations.
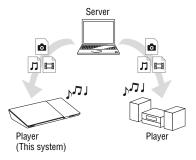
2 Playing status bar
   Status bar, cursor indicating the current position, playing time, duration of the video file

3 Network condition indicator
   ⅠⅠⅠ 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

Playing files on a Home Network (DLNA)

You can play video/music/photo files on other DLNA-certified equipment by connecting them to your home network.

This main unit can be used as a player and renderer.
- Server: Stores and shares digital media contents
- Player: Finds and plays digital media content from the DMS
- Renderer: Receives and plays files from the server, and can be operated by another equipment (controller)
- Controller: Operates the renderer equipment

Prepare for using the DLNA function.

- Connect the system to a network (page 24).
- Prepare other DLNA-certified equipment. For details, refer to the operating instructions of the equipment.

To play files stored on a DLNA server via the system (DLNA Player)

Select the DLNA server icon from ▦ [Video], ♫ [Music], or ▣ [Photo] in the home menu, then select the file that you want to play.

Server

Player
(This system)

To play remote files by operating the system (Renderer) via a DLNA controller

You can operate the system with a DLNA-certified controller (a mobile phone, etc), when playing files stored on a DLNA server.

Server

Renderer
(This system)

Controller

For details on operation, refer to the operating instructions of the DLNA controller.

Note

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

Tip

The system is compatible with the "Play To" function of Windows Media® Player 12 that comes standard with Windows 7.

Playing the same music in different rooms (PARTY STREAMING)
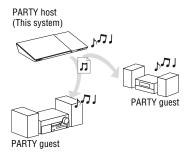
You can play the same music at the same time on all Sony equipment which are compatible with the PARTY STREAMING function and connected to your home network.

Contents in ♫ [Music] and the "FM", "BT" and "AUDIO" functions can be used with the PARTY STREAMING function.

There are two kinds of PARTY STREAMING-compatible equipment.
- PARTY host: Plays and sends music.
- PARTY guest: Plays music that is received from PARTY host.

This main unit can be used as a PARTY host or PARTY guest.

PARTY host
(This system)

PARTY guest

PARTY guest

Prepare for PARTY STREAMING.

- Connect the system to a network (page 24).
- Connect equipment which is compatible with the PARTY STREAMING function.

To use the system as the PARTY host

Select a track in ♫ [Music], a radio station in 📻 [Radio], 🎚 [AUDIO] or ⑧ [Bluetooth AUDIO] in 🔁 [Input], press OPTIONS. Then select [Start PARTY] to start.
To close, press OPTIONS, then select [Close PARTY].

Note

If content that is not compatible with the PARTY STREAMING function is played, the system closes PARTY automatically.

To use the system as a PARTY guest

Select ⚡ [PARTY] in ♫ [Music], then select the PARTY host device icon.
To leave the PARTY, press OPTIONS, then select [Leave PARTY].
To close the PARTY, press OPTIONS, then select [Close PARTY].

Note

The sale and product lineup of products that are compatible with the PARTY STREAMING function differ depending on the area.

Searching for video/music information

You can acquire content information using Gracenote technology and search for related information.

1 **Connect the system to a network (page 24).**

2 **Insert a disc with content about which you want to search.**

You can perform a video search from a BD-ROM or DVD-ROM, and a music search from a CD-DA (music CD).

3 **Press ◄/► to select ▦ [Video] or ♫ [Music].**

4 **Press ▲/▼ to select ⊞ [Video Search] or ⊕ [Music Search].**

The content information (such as title, cast, track, or artist), [Playback History] and [Search History] are displayed.
• [Playback History]
Displays a list of previously played BD-ROM/DVD-ROM/CD-DA (music CD) titles. Select a title to acquire content information.
• [Search History]
Displays a list of previous searches performed via the [Video Search] or [Music Search] function.

To search for further related information

Select an item in the lists, then select the service for searches.

Using the TV SideView

TV SideView is a free mobile application for the remote device (smartphone, etc). By using the TV SideView with this system, you can easily enjoy the system by the operation on your remote device.
You can launch a service or application directly from the remote device and view the disc information during the disc playback. The TV SideView also can be used as a remote control and software keyboard.
Before you use the TV SideView device with this system for the first time, be sure to register the TV SideView device.
Follow the on-screen instructions on the TV SideView device for registration.

Note

The registration will be possible only when home menu appears on the TV screen.

Available Options

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

Common options

[Sound Mode]
Changes the sound mode setting (page 30).

[Football]
Selects the football mode (page 31).

[Repeat Setting]
Sets repeat playback.

[3D Menu]
[Simulated 3D]: Adjusts the simulated 3D effect.

[3D Depth Adjustment]: Adjusts the depth of 3D images.

[2D Playback]: Sets playback to 2D image.

[Play/Stop]
Starts or stops playback.

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

[Start PARTY]
Starts a party with the selected source.
This item may not appear depending on the source.

[Leave PARTY]
Leaves a party which the system is participating in. The PARTY STREAMING function continues among other participating equipment.

[Close PARTY]
For PARTY host: Closes a party.
For PARTY guest: Closes a party which the system is participating in. The PARTY STREAMING function ends for all other participating equipment.

[Change Category]
Switches among the 📺 [Video], ♫ [Music] and 📷 [Photo] category in "BD/DVD" (for disc only) or "USB" function. This item only available when the display list is available for the category.

📺 [Video] only

[A/V SYNC]
Adjusts the time gap between picture and sound (page 43).

[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.

[Video Settings]
• [Picture Quality Mode]: Selects the picture settings. [Auto], [Custom1], and [Custom2] are available for HDMI connections.
• [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 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.

[Audio]
Selects the audio format/track.

[Subtitle]
Selects the subtitle language when multilingual subtitles are recorded on BD-ROMs/DVD VIDEOs.

[Angle]
Switches the viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOs.

[IP Content NR Pro]
Adjusts the video quality for Internet content.

[Video Search]
Displays information on the BD-ROM/DVD-ROM based on Gracenote technology.

♫ [Music] only

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

[Music Search]
Displays information on the audio CD (CD-DA) based on Gracenote technology.

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

[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 each function separately.
The setting method differs depending on the function.

When other than the "BT" or "TV" 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" function is selected

1 Press OPTIONS.

"AV.SYNC" appears in the top 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 top panel display turns off.

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 AUDIO repeatedly during playback to select the audio signal you want.

The audio information appears on the TV screen.

■ BD/DVD VIDEO

Depending on the BD/DVD VIDEO, the option of language varies.
When 4 digits are displayed, they represent a language code. See "Language Code List" (page 77). 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]

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[♪ Stereo (Audio1)] and [♪ Stereo (Audio2)] do not appear if 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 a Dolby Digital signal, you need to connect a TV or other equipment to the TV (DIGITAL IN OPTICAL) jack with a optical digital cord (pages 21, 22).
If your TV's HDMI IN jack is compatible with the Audio Return Channel function (pages 21, 59), you can receive a Dolby Digital signal via an HDMI cable.

Press AUDIO repeatedly until the signal you want appears in the top 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.

Tuner

Listening to the Radio

1 **Press FUNCTION repeatedly until "FM" appears in the top 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.

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 top 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.

Selecting a preset station

1 **Press FUNCTION repeatedly until "FM" appears in the top 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 top 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.
- Each time you press DISPLAY, the display in the top 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 57).

Tuner

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 completed 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 59)

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 press ► on the remote control, the system and TV turn on, and the TV's input is switched to the HDMI input which the system is connected.

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 59).

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.

Calibrating the Appropriate Speaker Settings Automatically

[Auto Calibration]

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

Note

- The system outputs a loud test sound when [Auto Calibration] starts. You cannot turn the volume down. Give consideration to children and neighbors.
- Before [Auto Calibration], make sure that all the speakers are connected to the main unit and surround amplifier.

1 Press HOME.

The home menu appears on the TV screen.

2 Press ◆/◆ to select 🛠 [Setup].

3 Press ◆/◆ to select [Audio Settings], then press ⊞.

4 Press ◆/◆ to select [Auto Calibration], then press ⊞.

The [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.

The confirmation display for [Auto Calibration] appears.

6 Connect the calibration mic to the A.CAL MIC jack on the rear panel.

Set up the calibration mic at ear level using a tripod, etc. (not supplied). The calibration mic should aim the TV screen. The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.

7 Press ◆/◆ to select [OK].

To cancel, select [Cancel].

8 Press ⊞.

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

Note

- Before [Auto Calibration], make sure that the surround amplifier is turned on and you have installed the surround amplifier in an appropriate location to ensure wireless connection with it.
- While [Auto Calibration] is in progress, do not operate the system.

9 Confirm the result of [Auto Calibration].

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

Note

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

10 Press ◆/◆ to select [OK] or [Cancel], then press ⊞.

■ The measurement is OK.

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

■ The measurement is not OK.

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

Setting the Speakers

[Speaker Settings]

To obtain optimum surround sound, set the speakers' distance from your listening position. Then use the test tone to adjust the balance of the speakers.

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 ↑/↓ to adjust the parameter.

8 Press ←/→ and ⊞ to confirm the settings.

Check the following settings.

■ [Distance]

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

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

■ [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.

■ [Relocation]

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

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

Note

- This setting is only reflected after performing [Auto Calibration].
- You cannot select this function when the speaker layout is set to [All Front].

■ **[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 ✦/✦ to select [Level], then press ⊞.

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

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

5 Press ⊞.

6 Repeat Steps 3 to 5.

7 Press RETURN.

The system returns to the previous display.

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

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

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 ⌿ +/–.

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 top 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 top panel display.

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly.

Deactivating the Buttons on the Main Unit

(Child Lock)

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

Touch and hold ■ on the main unit for more than 5 seconds.

"LOCKED" appears in the top panel display.
The child lock function is activated and the buttons on the main unit are locked. (You can operate the system by using the remote control.)
To cancel, touch and hold ■ for more than 5 seconds until "UNLOCK" appears in the top panel display.

Note

If you operate the buttons on the main unit while the child lock function is on, "LOCKED" flashes in the top panel display.

Controlling Your TV with the Supplied Remote Control

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

Note

When you replace the batteries of the remote control, the code number may reset to the default (SONY) setting. Set the appropriate code number again.

Preparing the remote control for controlling the TV

While holding down TV I/ᵗ⁾, press number buttons to enter your TV's manufacturer's code (see the table). Then release TV I/ᵗ⁾.

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

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

Saving Power in Standby Mode

Check that you have made the following settings:
– [Control for HDMI] in [HDMI Settings] is set to [Off] (page 59).
– [Quick Start Mode] is set to [Off] (page 60).
– [Remote Start] in [Network Settings] is set to [Off] (page 61).

Browsing Websites

1 Prepare for Internet browsing.

Connect the system to a network (page 24).

2 Press HOME.

The home menu appears on the TV screen.

3 Press ←/→ to select ⊕ [Network].

4 Press ↑/↓ to select [Internet Browser], then press ⊞.

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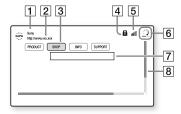
When the previous page does not appear even if you select [Previous page], select [Window List] from the options menu and select the page you want to return to from the list.

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 Page address

3 Cursor
Move by pressing ←/↑/↓/→. Place the cursor on the link you want to view, then press ⊞. The linked website is displayed.

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 ⊞, then choose [Input] from the options menu to open the software keyboard.

8 Scroll bar
Press ←/↑/↓/→ to move the page display left, up, down, or right.

Other Operations

Available options

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

[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.

[Window List]
Displays a list of all current opened websites. Allows you to return to a previous displayed website by selecting the window.

[Bookmark List]
Displays the bookmark list.

[URL entry]
Allows you to enter a URL when the software keyboard is displayed.

[Previous page]
Moves to a previous displayed page.

[Next page]
Moves to the previous displayed next page.

[Cancel loading]
Stops loading a page.

[Reload]
Reloads the same page.

[Add to Bookmark]
Adds the current displayed website to the bookmark list.

[Set as start page]
Sets the current displayed website as the default start page.

[Open in new window]
Opens a link in a new window.

[Character encoding]
Sets the character encoding system.

[Display certificate]
Displays server certificates sent from pages that support 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.

Further Settings for the Wireless System

Activating wireless transmission between specific units

[Secure Link]

You can specify the wireless connection to link the main unit to the surround amplifier using the Secure Link function.
This function can help prevent interference if you use multiple wireless products or your neighbors use wireless products.

1 Press HOME.

The home menu appears on the TV screen.

2 Press ◆/→ to select 🖴 [Setup].

3 Press ◆/◆ to select [System Settings], then press ⊞.

4 Press ◆/◆ to select [Wireless Sound Connection], then press ⊞.

The [Wireless Sound Connection] display appears.

5 Press ▲/▼ to select [Secure Link], then press ⊞.

6 Press ▲/▼ to select [On], then press ⊞.

7 Press SECURE LINK on the rear of the surround amplifier.

Proceed to the next Step within a few minutes.

8 Press ◄/► to select [Start], then press ⊞.

To return to the previous display, select [Cancel].

9 After the message [Secure Link setting is complete.] appears, press ⊞.

The surround amplifier is linked to the main unit and the LINK/STANDBY indicator turns orange.

If the message [Cannot set Secure Link.] appears, follow the on-screen messages.

To cancel the Secure Link function

For the main unit

Select [Off] on Step 6 above.

For the surround amplifier

Hold down SECURE LINK on the rear of the surround amplifier until the LINK/STANDBY indicator turns green or flashes green.

If wireless transmission is unstable

[RF Channel]

If you use multiple wireless systems, such as a wireless LAN (Local Area Network) or *Bluetooth*, the wireless signals may be unstable. In this case, the transmission may be improved by changing the following [RF Channel] setting.

1 Press HOME.

The home menu appears on the TV screen.

2 Press ◄/► to select 🧰 [Setup].

3 Press ▲/▼ to select [System Settings], then press ⊞.

4 Press ▲/▼ to select [Wireless Sound Connection], then press ⊞.

The [Wireless Sound Connection] display appears.

5 Press ▲/▼ to select [RF Channel], then press ⊞.

6 Press ▲/▼ to select the setting you want, then press ⊞.

- [Auto]: Normally select this. The system automatically selects the better channel for transmission.
- [1], [2], [3]: The system transmits sound by fixing the channel for transmitting. Select the channel with the better transmission.

Note

The transmission may be improved by changing the transmission channel (frequency) of the other wireless system(s). For details, refer to the operating instructions of the other wireless system(s).

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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 ◆/◆ to select 🚢 [Setup].

3 Press ◆/◆ to select the setup category icon, then press ⊞.

Icon	Explanation
🔄	**[Network Update] (page 54)** Updates the software of the system.
🖼️	**[Screen Settings] (page 55)** Makes the screen settings according to the type of TV.
🔊	**[Audio Settings] (page 57)** Makes the audio settings according to the type of connecting jacks.
💿	**[BD/DVD Viewing Settings] (page 58)** Makes detailed settings for BD/DVD playback.
🔒	**[Parental Control Settings] (page 58)** Makes detailed settings for the Parental Control function.

Icon	Explanation
🎵	**[Music Settings] (page 59)** Makes detailed settings for Super Audio CD playback.
🔧	**[System Settings] (page 59)** Makes the system-related settings.
➡️	**[External Input Settings] (page 60)** Sets the input skip setting for each external input.
🌐	**[Network Settings] (page 61)** Makes detailed settings for Internet and network.
1·2·3	**[Easy Network Settings] (page 62)** Runs [Easy Network Settings] to make the basic network settings.
•⤴	**[Resetting] (page 62)** Resets the system to the factory settings.

🔄 [Network Update]

By updating your software to the latest version, you can take advantage of the newest functions.
For information about update functions, refer to the following website:
http://www.sony-asia.com/section/support

During a software update, "UPDATE" appears in the top 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.

⚙️ [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 work for 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]

[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.

■ [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 main 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 Resolution]

[Auto]: Outputs video signal according to the resolution of the TV or connected equipment.
[Original Resolution]: Outputs video signal according to the resolution recorded on the disc. (When the resolution is lower than SD resolution, it is scaled up to SD resolution.)
[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.

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

■ [DVD-ROM 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 BD/DVD ROMs or photo play when connecting to a non-Sony 4K-compatible equipment.
This setting does not work for 3D video image playback.
[Auto2]: Automatically outputs 4K/24p video signals when you connect a 4K/24p-compatible equipment and make the appropriate settings in [BD-ROM 24p Output] or [DVD-ROM 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] (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.

♫₁₎ [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 an equipment connected to the AUDIO (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 59), [Audio Output] is set to [Speaker + HDMI] automatically and this setting cannot be changed.
• When [Audio Output] is set to [HDMI], the output signal format for the "TV" function is 2-channel linear PCM.

■ [Sound Effect]

You can turn on or off the system's sound effects (SOUND MODE setting (page 30)). 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 Mode On]: Enables the surround effect of the sound mode (page 30) and Football mode (page 31).
[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 48).

■ [Auto Calibration]

You can calibrate the appropriate settings automatically. For details, see "Calibrating the Appropriate Speaker Settings Automatically" (page 47).

Settings and Adjustments

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■ [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].

[BD/DVD Viewing Settings]

■ [BD/DVD Menu Language]

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 77).

■ [Audio Language]

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 77).

■ [Subtitle Language]

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 77).

■ [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]/[DVD Parental Control]/[Internet Video Parental Control]

By setting Parental Control, scenes can 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]

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

⚙ [System Settings]

■ [OSD Language]

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

■ [Wireless Sound Connection]

You can make further settings for the wireless system. For details, see "Further Settings for the Wireless System" (page 52).
You can also check the wireless transmission status. When wireless transmission is activated, [OK] appears to the right of [Status].

■ [Main Unit illumination]

[On]: The top panel display always is turned on, soft-touch buttons indicator are always lit and the brightness of the LED indicator is the maximum.
[Auto]: The top panel display and soft-touch buttons indicator are turned off and the brightness of LED indicator is reduced automatically if you do not operate the system for about 10 seconds.

Note

When [Auto] is selected, only ▶ button lights up during playback.

■ [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.

■ [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.

■ [Power Save Drive]

[On]: Reduces power consumption when volume level is low.
[Off]: Normal status. The system can output sound volume.

■ [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]: 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.

■ [Software Update Notification]

[On]: Sets the system to inform you of latest software version information (page 54).
[Off]: Off.

■ [Gracenote Settings]

[Auto]: Automatically downloads disc information when you stop playback of the disc. To download, the system must be connected to the network.
[Manual]: Downloads disc information when [Video Search] or [Music Search] is selected.

■ [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]

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

■ [HDMI1]/[HDMI2]/[TV]/[Bluetooth AUDIO]/[AUDIO]

[Do not skip]: The system does not skip the selected function when selecting the function by pressing FUNCTION.
[Skip]: The system skips the selected function when selecting the function by pressing FUNCTION.

🌐 [Network Settings]

■ [Internet Settings]

Connect the system to the network beforehand. For details, see "Step 3: Preparing for Network Connection" (page 24).

[Wired Setup]: Select this when you connect to a broadband router using a LAN cable.

[Wireless Setup(built-in)]: Select this when you use the built-in wireless LAN of the system for wireless network connection.

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.

■ [Network Connection Diagnostics]

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

■ [Connection Server Settings]

Sets whether or not to display the connected DLNA server.

■ [Renderer Set-up]

[Automatic Access Permission]: Sets whether or not to allow automatic access from a newly detected DLNA controller.
[Smart Select]: Allows a Sony DLNA controller to find the system as the target equipment to operate by using the infrared ray. You can set this function to on or off.
[Renderer Name]: Displays the system's name as it is listed on other DLNA devices on the network.

■ [Renderer Access Control]

Sets whether or not to accept commands from DLNA controllers.

■ [PARTY Auto Start]

[On]: Starts a PARTY or joins an existing PARTY at the request of a networked device compatible with the PARTY STREAMING function.
[Off]: Off.

■ [Registered Remote Devices]

Displays a list of your registered remote devices.

■ [Remote Start]

[On]: Allows turn 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.

Settings and Adjustments

1·2·3 [Easy Network Settings]

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

[Resetting]

■ [Reset to Factory Default Settings]

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

■ [Initialise Personal Information]

You can erase your personal information stored 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 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 main 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.

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 benzine.

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 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 there is no disc inserted, and 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 closer 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.

Notes about 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.
In the event of a problem with the wireless sound function, have a Sony dealer check the entire system (main unit and surround amplifier).

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 disc lid does not open and you cannot remove the disc even after you press ⏏.
→ Try the following:
   ① Touch and hold ▶ and ⏏ on the main unit for more than 5 seconds to open the disc lid.
   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

[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 54) to update the system to a latest software version.

"PRTECT", "PUSH" and "POWER" appear alternately in the top panel display.

→ Press I/(¹) 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.

"LOCKED" appears in the top panel display.

→ Set the child lock function to off (page 50).

"D. LOCK" appears in the top panel display.

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

"Exxxx" (x is a number) appears in the top 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 top panel display when you press SOUND MODE +/–, FOOTBALL or MUSIC EQ.

→ The setting for SOUND MODE, FOOTBALL and MUSIC EQ cannot be changed when the [Sound Effect] is set to other than [Sound Mode On]. Set [Sound Effect] in [Audio Settings] to [Sound Mode On] (page 57).

Picture

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

→ Check the output method on your system (page 21).
→ Touch and hold ▶ and VOL – on the main unit for more than 5 seconds to reset the video output resolution to the lowest resolution.
→ For BD-ROMs, check the [BD-ROM 24p Output] settings in [Screen Settings] (page 56).

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 top panel does not light up) (page 21).

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 equipment, 3D images may not appear.

The dark area of the picture is too dark/the bright area is too bright or unnatural.

→ Set [Picture Quality Mode] to [Auto] (default) (page 41).

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 main unit directly to your TV, try connecting your main 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 55).
→ 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.

Sound

There is no sound.

→ The speaker cords are not connected securely.
→ Check the speaker settings (page 48).

The Super Audio CD sound of an equipment 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 equipment to the AUDIO (AUDIO IN L/R) jacks of the main 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 59). Also, set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Auto] (page 59).
→ 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 59).
→ Check the connections (page 22).

Severe hum or noise is heard.

→ Move your audio equipment away from the TV.
→ Clean the disc.

The sound loses stereo effect when you play a CD.

→ Select stereo sound by pressing AUDIO (page 43).

The sound outputs from the center speaker only.

→ Depending on the disc, 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 19, 48).
→ Check the sound mode setting (page 30).
→ Depending on the source, the effect of the surround speakers may be less noticeable.
→ Set [Sound Mode] to [Auto] (page 30).

Distortion occurs in the sound of a connected equipment.

→ Reduce the input level for the connected equipment by setting [Attenuate - AUDIO] (page 57).

A sudden loud music is heard.

→ The build-in sound demonstration is activated. Press ∠ – to reduce the volume or press ■ to stop the demonstration.

Wireless sound

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

→ Check the status of the LINK/STANDBY indicator on the surround amplifier.
  • Turns off.
    – Check that the AC power cord (mains lead) of the surround amplifier is connected securely.
    – Turn the surround amplifier on by pressing I/⏻ on the surround amplifier.

• Flashes green quickly.
  – ① Press I/⏻ on the surround amplifier.
    ② Insert the wireless transceiver into the surround amplifier correctly.
    ③ Press I/⏻ on the surround amplifier.
• Flashes red.
  – Press I/⏻ to turn off the surround amplifier, and check the following items.
    ① Are the + and – speaker cords short-circuited?
    ② Is anything blocking the ventilation holes of the surround amplifier?
    After checking the above items and fixing any problems, turn on the surround amplifier. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.
• Flashes green or orange slowly or turns red.
  – Make sure that the wireless transceiver is inserted correctly into the main unit.
  – Make the [Secure Link] setting again (page 52).
  – Sound transmission is poor. Move the surround amplifier so that the LINK/STANDBY indicator turns green or orange.
  – Move the system away from other wireless devices.
  – Avoid using any other wireless devices.
• Turns green or orange.
  – Check the speaker connections and settings.

Noise is heard from surround speakers or sound from the surround speakers skips.

→ Wireless transmission is unstable. Change the [RF Channel] setting in [Wireless Sound Connection] (page 53).
→ Install the main unit and surround amplifier closer to each other.
→ Do not install the main unit and surround amplifier in a closed rack, on a metal rack, or under a table.

Tuner

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

The disc does not play.

→ The region code on the BD/DVD does not match the system.
→ Moisture has condensed inside the main unit and may cause damage to the lenses. Remove the disc and leave the main unit turned on for about half an hour.
→ The system cannot play a recorded disc that is not correctly finalized (page 72).

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 lid.
  • you disconnect the USB device.
  • you play other content.
  • you turn off the main 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 33).
  ④ Turn the system on.
  ⑤ Insert the BD-ROM with BONUSVIEW/BD-LIVE.

USB device

The USB device is not recognized.

→ Try the following:
  ① Turn the system off.
  ② Remove and reconnect the USB device.
  ③ Turn the system on.
→ Make sure that the USB device is securely connected to the ψ (USB) port.
→ 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 Internet Video

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])

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

→ Check that [Control for HDMI] is set to [On] (page 59).
→ 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 59).
→ 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 24) and the network settings (page 61).

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 24) and the network settings (page 61).

→ 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 Setup(built-in)] again. If the wireless router you want is still not detected, select [Add a new address.] 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 34).

Connecting cannot be done.

→ The pairing registration information has been erased. Perform the pairing operation again (page 34).

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.

Additional Information

→ 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 Discs

Blu-ray Disc	BD-ROM[1]
	BD-R/BD-RE[2]
DVD[3]	DVD-ROM
	DVD-R/DVD-RW
	DVD+R/DVD+RW
CD[3]	CD-DA (Music CD)
	CD-ROM
	CD-R/CD-RW
	Super Audio CD

[1] Since Blu-ray Disc specifications are new and evolving, some discs may not be playable depending on the disc type and 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 on 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 bottom of the main unit and will only play a BD-ROM/DVD VIDEO (playback only) labeled with identical region codes or ⊕.

Playable Types of Files

Video

Video Codec	Container	Extension
MPEG-1 Video[*1]	PS	.mpg, .mpeg
MPEG-2 Video[*2]	PS[*3]	.mpg, .mpeg
	TS[*4]	.m2ts, .mts
Xvid	AVI	.avi
	MKV	.mkv
MPEG4/AVC[*5]	MKV[*1]	.mkv
	MP4[*1]	.mp4, .m4v
	TS[*1]	.m2ts, .mts
	Quick Time[*6]	.mov
	3gpp/3gpp2[*6]	.3gp, .3g2, .3gpp, .3gp2
VC1[*1]	TS	.m2ts, .mts
WMV9[*1]	ASF	.wmv, .asf
Motion JPEG[*6]	Quick Time	.mov
	AVI	.avi

Video Format	Container	Extension
AVCHD[*1][*7]	AVCHD Format Folder[*8]	

Music

Audio Codec	Extension
MP3 (MPEG-1 Audio Layer III)	.mp3, .mka[*6]
AAC[*1]	.m4a, .aac[*6], .mka[*6]
WMA9 Standard[*1]	.wma
LPCM	.wav, .mka[*6]
FLAC[*6]	.flac, .fla
AC3[*6]	.ac3, .mka

Photo

Photo Format	Extension
JPEG	.jpeg, .jpg, .jpe
PNG	.png[*9]
GIF	.gif[*9]
MPO	.mpo[*6][*10]

[*1] The system may not play this file format on a DLNA server.
[*2] The system can only play standard definition video on a DLNA server.
[*3] The system does not play DTS format files on a DLNA server.
[*4] The system can only play Dolby Digital format files on a DLNA server.
[*5] The system can support AVC up to Level 4.1.
[*6] The system does not play this file format on a DLNA server.
[*7] The system can play AVCHD Ver.2.0 format (AVCHD 3D/Progressive).
[*8] The system plays AVCHD format files that are recorded on a digital video camera, etc.
The AVCHD format disc will not play if it has not been correctly finalized.
[*9] The system does not play animated PNG or animated GIF files.
[*10] For MPO files other than 3D, the key image or the first image is displayed.

Note

- Some files may not play depending on the file format, the file encoding, the recording condition, or DLNA server 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 BDs, DVDs, CDs and USB devices:
  - up to folders in the 9th layer (including the root folder)
  - up to 500 files/folders in a single layer
- The system can recognize the following files or folders stored in the DLNA server:
  - up to folders in the 19th layer
  - up to 999 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.
- 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 or DATA BD.

Supported Audio Formats

Audio formats supported by this system are as follows.

Format	Function		
	"BD/DVD"	"HDMI1" "HDMI2"	"TV" (DIGITAL 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.

- The HDMI (IN 1) and HDMI (IN 2) jacks do not input sound in the case of an audio format that contains copy protections such as Super Audio CD or DVD-Audio.
- For 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.
- For LPCM 5.1ch format, the supported sampling frequency of the digital signal is up to 48 kHz when using the "HDMI1" or "HDMI2" function.

Specifications

Amplifier Section

POWER OUTPUT (rated)

Front L/Front R:
125 W + 125 W (at 6 ohms, 1 kHz, 1% THD)

POWER OUTPUT (reference)

Front L/Front R:
200 W (per channel at 6 ohms, 1 kHz)

Center:
200 W (at 6 ohms, 1 kHz)

Subwoofer:
200 W (at 6 ohms, 80 Hz)

Inputs (Analog)

AUDIO (AUDIO IN)
Sensitivity: 1.8 V/600 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 5.1CH (up to 48 kHz), LPCM 2CH (up to 96 kHz), Dolby Digital, DTS

HDMI Section

Connector
Type A (19pin)

BD/DVD/Super Audio CD/CD System

Signal format system
NTSC/PAL

USB Section

ψ (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

Wireless LAN Section

Standards Compliance
> IEEE 802.11 b/g/n

Frequency and Channel
> 2.4 GHz band: channels 1–13

Bluetooth Section

Communication system
> *Bluetooth* Specification version 3.0

Output
> *Bluetooth* Specification Power Class 2

Maximum communication range
> Line of sight approx. 10 m[1]

Frequency band
> 2.4 GHz band

Modulation method
> FHSS (Freq Hopping Spread Spectrum)

Compatible *Bluetooth* profiles[2]
> A2DP 1.2 (Advanced Audio Distribution Profile)
> AVRCP 1.3 (Audio Video Remote Control Profile)

Supported Codecs[3]
> SBC[4], AAC

Transmission range (A2DP)
> 20 Hz – 20,000 Hz (Sampling frequency 44.1 kHz, 48 kHz)

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[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)

Antenna (aerial) terminals
> 75 ohms, unbalanced

Speakers

Front (SS-TSB126) for BDV-N9100W/ BDV-N8100W

Surround (SS-TSB131) for BDV-N9100W

Dimensions (w/h/d) (approx.)
> 102 mm × 700 mm × 60 mm (wall-mounted part)
> 270 mm × 1,200 mm × 270 mm (whole speaker)

Mass (approx.)
> 1.7 kg (wall-mounted part)
> 4.0 kg (whole speaker)

Front (SS-TSB125) for BDV-N7100W

Surround (SS-TSB129) for BDV-N8100W/BDV-N7100W

Dimensions (w/h/d) (approx.)
> 100 mm × 435 mm × 54 mm (without stand)
> 140 mm × 455 mm × 140 mm (with stand)

Mass (approx.)
> 1.1 kg (without stand)
> 1.2 kg (with stand)

Center (SS-CTB124) for BDV-N9100W/BDV-N8100W/ BDV-N7100W

Dimensions (w/h/d) (approx.)
> 365 mm × 75 mm × 75 mm

Mass (approx.)
> 1.3 kg

Subwoofer (SS-WSB125) for BDV-N9100W/BDV-N8100W/ BDV-N7100W

Dimensions (w/h/d) (approx.)
> 280 mm × 440 mm × 280 mm

Mass (approx.)
> 8.0 kg

Additional Information

General

Main unit

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 50.)

Dimensions (w/h/d) (approx.)
480 mm × 79 mm × 212 mm incl. projecting parts
480 mm × 79 mm × 226 mm (with the wireless transceiver inserted)

Mass (approx.)
3.1 kg

Surround amplifier (TA-SA300WR) for BDV-N9100W/BDV-N8100W/BDV-N7100W

Amplifier Section
POWER OUTPUT (reference)
Surround L/Surround R:
100 W (per channel at 3 ohms, 1 kHz)

Rated impedance:
3 Ω – 16 Ω

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

Power consumption
On: 50 W

Standby power consumption
0.5 W (standby mode)
0.2 W (turned off)

Dimensions (w/h/d) (approx.)
206 mm × 60 mm × 236 mm with the wireless transceiver inserted

Mass (approx.)
1.3 kg

Wireless transceiver (EZW-RT50)

Communication system
Wireless sound Specification version 1.0

Frequency band
5.725 GHz – 5.875 GHz

Modulation method
DSSS

Power requirements
DC 3.3 V, 300 mA

Dimensions (w/h/d) (approx.)
30 mm × 9 mm × 60 mm

Mass (approx.)
10 g

Design and specifications are subject to change without notice.

- Standby power consumption: 0.3W (Main Unit), 0.2W (Surround Amplifier).
- 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;	1248	Indonesian	1393	Occitan	1528	Thai
	Bangla	1253	Icelandic	1403	(Afan)Oromo	1529	Tigrinya
1067	Tibetan	1254	Italian	1408	Oriya	1531	Turkmen
1070	Breton	1257	Hebrew	1417	Punjabi	1532	Tagalog
1079	Catalan	1261	Japanese	1428	Polish	1534	Setswana
1093	Corsican	1269	Yiddish	1435	Pashto;	1535	Tonga
1097	Czech	1283	Javanese		Pushto	1538	Turkish
1103	Welsh	1287	Georgian	1436	Portuguese	1539	Tsonga
1105	Danish	1297	Kazakh	1463	Quechua	1540	Tatar
1109	German	1298	Greenlandic	1481	Rhaeto-	1543	Twi
1130	Bhutani	1299	Cambodian		Romance	1557	Ukrainian
1142	Greek	1300	Kannada	1482	Kirundi	1564	Urdu
1144	English	1301	Korean	1483	Romanian	1572	Uzbek
1145	Esperanto	1305	Kashmiri	1489	Russian	1581	Vietnamese
1149	Spanish	1307	Kurdish	1491	Kinyarwanda	1587	Volapük
1150	Estonian	1311	Kirghiz	1495	Sanskrit	1613	Wolof
1151	Basque	1313	Latin	1498	Sindhi	1632	Xhosa
1157	Persian	1326	Lingala	1501	Sangho	1665	Yoruba
1165	Finnish	1327	Laothian	1502	Serbo-Croatian	1684	Chinese
1166	Fiji	1332	Lithuanian	1503	Singhalese	1697	Zulu
1171	Faroese	1334	Latvian;	1505	Slovak		
1174	French		Lettish	1506	Slovenian		
1181	Frisian	1345	Malagasy			1703	Not specified

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
2090	Chile	2239	Ireland	2424	Philippines		Kingdom
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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Numerics

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Additional Information

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 dlna CERTIFIED gracenote Java POWERED

SUPER AUDIO CD Blu-ray 3D™ Blu-ray Disc™ JavaPOWERED

http://www.sony.net/

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