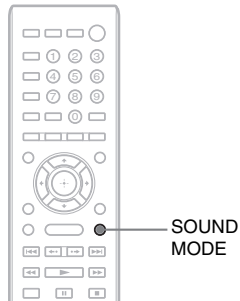


Sound Adjustment

Selecting the Effect to Suit the Source

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



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

- **“AUTO”**: The system selects “MOVIE” or “MUSIC” automatically to produce the sound effect depending on the disc or sound stream.
- **“MOVIE”**: The system provides the sound for movies.
- **“MUSIC”**: The system provides the sound for music.
- **“SPORTS”**: The system adds reverberation for sports programs.
- **“GAME ROCK”**: The system provides the sound for music/rhythm games.
- **“OMNI-DIR”**: The same sound is audible anywhere in the room.
- **“3D SUR.”**: “3D SUR.” is a unique Sony algorithm used for playing 3D (three-dimensional) content that provides a 3D sound experience with depth and presence by creating a virtual sound field close to your ears.
- **“HALL”**: The system reproduces the sound of a concert hall.
- **“NIGHT”**: You can enjoy sound effects or dialog, as you would in a movie theater, even

at low volume. It is useful for watching movies at night.

Note

- Depending on the disc or source, when you select “AUTO,” the beginning of the sound may be cut off as the system selects the optimum mode automatically. To avoid cutting the sound, select other than “AUTO.”
- Depending on the input stream, the sound mode may not be effective.
- When you play a Super Audio CD, this function does not work.
- When “NIGHT” is selected and sound is output from the center speaker, this effect is more pronounced, as speech (movie dialog, etc.) is easy to hear. When sound is not output from the center speaker, the system optimally adjusts the volume.

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 desired audio signal.

The audio information appears on the TV screen.

■ BD/DVD VIDEO

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

When 4 digits are displayed, they indicate a language code. See “Language Code List” (page 79) to confirm which language the code represents. When the same language is displayed two or more times, the BD/DVD VIDEO is recorded in multiple audio formats.

■ DVD-VR

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

Example:

- [♪ Stereo]
- [♪ Stereo (Audio1)]
- [♪ Stereo (Audio2)]
- [♪ Main]
- [♪ Sub]
- [♪ Main/Sub]

Note

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

■ CD

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

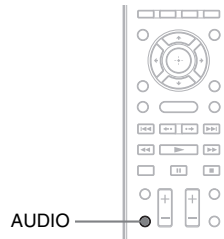
Enjoying Multiplex Broadcast Sound

(DUAL MONO)

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

Note

- To receive the Dolby Digital signal, you need to connect a TV or other component to the unit with a digital coaxial or optical cord (pages 22, 24). If your TV is compatible with the Audio Return Channel function (pages 22,64), you can receive a Dolby Digital signal via an HDMI cable.



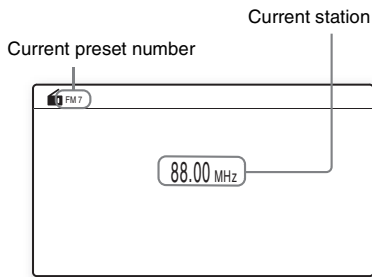
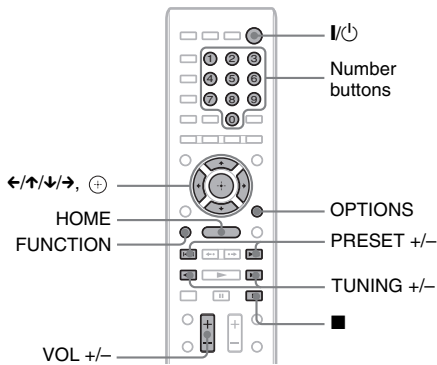
Press AUDIO repeatedly until the desired signal appears in the front panel display.

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

Tuner

Listening to the Radio

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



1 Press **FUNCTION** repeatedly until "FM" appears in the front panel display.

2 Select the radio station.

Automatic tuning

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

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

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

Manual tuning

Press **TUNING +/-** repeatedly.

3 Adjust the volume by pressing **VOL +/-**.

If an FM program is noisy

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

1 Press **OPTIONS**.

The option menu appears on the TV screen.

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

3 Press **↑/↓** to select [Monaural].

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

4 Press **+**.

The setting is made.

To turn off the radio

Press **I/Power**.

Presetting radio stations

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

1 Press **FUNCTION** repeatedly until "FM" appears in the front panel display.

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

Scanning stops when the system tunes in a station.

3 Press **OPTIONS**.

The option menu appears on the TV screen.

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

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

6 Repeat Steps 2 to 5 to store other stations.

To change the preset number

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

Tuner

Selecting the preset station

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

The last received station is tuned in.

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

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

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

Tip

- You can select the preset station number directly by pressing the number buttons.
- Each time you press DISPLAY, the display in the front panel display changes as follows:
Frequency → Preset number → Stream information/Decode status → Frequency → ...

Other Operations

Using the Control for HDMI Function for “BRAVIA” Sync

This function is available on TVs with the “BRAVIA” Sync function. By connecting Sony components that are compatible with the Control for HDMI function via an HDMI cable, operation is simplified.

Note

- Some functions can only be used if the connected TV is compatible, and require prior setting via the TV. Refer to the operating instructions of the TV.
- To use the System Audio Control function, you need to make an audio connection between the system and TV (page 22).

Using “BRAVIA” Sync

Control for HDMI - Easy Setting

You can set the system’s [Control for HDMI] function automatically by enabling the corresponding setting on the TV. For details about the Control for HDMI function, see “[HDMI Settings]” (page 64)


System Power Off

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

Note

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


One-Touch Play

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

System Audio Control

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

You can use the System Audio Control function as follows:

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

Note

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

Audio Return Channel

You can enjoy TV sound via the system by using just one HDMI cable. For details of the setting, see “Connecting the TV” (page 22).

Remote Easy Control

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

Language Follow

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

Routing Control

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

Note

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

Calibrating the Appropriate Settings Automatically

[Auto Calibration]

D.C.A.C. (Digital Cinema Auto Calibration) can set the appropriate surround sound automatically.

Note

- The system outputs a loud test sound when [Auto Calibration] starts. You cannot turn the volume down. Give consideration to children and neighbors.

1 Press HOME.

The home menu appears on the TV screen.

2 Press ←/→ to select [Setup].

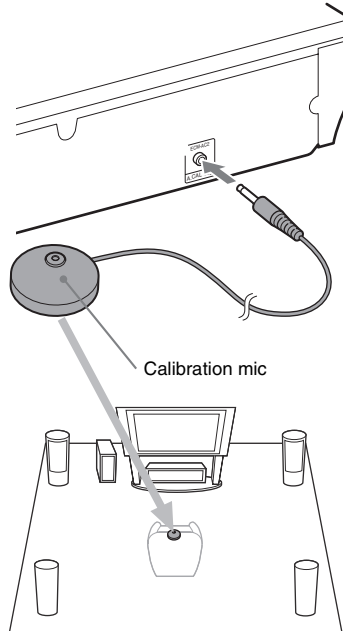
3 Press ↑/↓ to select [Audio Settings], then press ⊕.

4 Press ↑/↓ to select [Auto Calibration], then press ⊕.

The confirmation display for [Auto Calibration] appears.

5 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 front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.



6 Press ↑/↓ to select [OK].

To cancel, select [Cancel].

7 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 turns on and you install the surround amplifier in the appropriate location. If you install the surround amplifier in an improper location, such as another room, proper measurement will not be obtained.

8 Confirm the conclusions of [Auto Calibration].

The speakers connected to the unit are listed as [Yes] on the TV screen.

Note

- If measurement fails, follow the message then retry [Auto Calibration].
- The measurement for [Subwoofer] is always [Yes] and [Speaker Settings] returns to the default setting when you perform [Auto Calibration].

9 Press \uparrow/\downarrow to select [OK] or [Cancel], then press \oplus .

■ **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.

Note

- While the Auto Calibration function is working, do not operate the system.

[Surround]

[Yes]: Normally select this.

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

[Subwoofer]

[Yes]

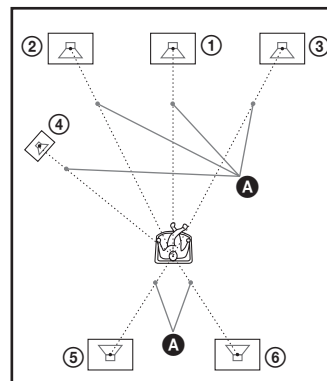
■ **[Distance]**

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

You can set the parameters from 0 to 23 feet (0.0 to 7.0 meters).

The speakers in the illustration correspond to the following:

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



[Front Left/Right] 10 ft/3.0 m: Set the front speaker distance.

[Center]* 10 ft/3.0 m: Set the center speaker distance.

[Surround Left/Right]* 10 ft/3.0 m: Set the surround speaker distance.

[Subwoofer] 10 ft/3.0 m: Set the subwoofer distance.

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

Note

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

Setting the Speakers

[Speaker Settings]

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

1 Press HOME.

The home menu appears on the TV screen.

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

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

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

The [Speaker Settings] display appears.

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

Check the following settings.

■ **[Connection]**

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

[Front]

[Yes]

[Center]

[Yes]: Normally select this.

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

Tip

- You can change measurement units (feet or meters) by pressing the color button (RED).

■ **[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.

[Center]* 0.0 dB: Set the center speaker level.

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

[Subwoofer] 0.0 dB: Set the subwoofer level.

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

■ **[Test Tone]**

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

[Off]: The test tone is not emitted from the speakers.

[On]: The test tone is emitted from each speaker in sequence while adjusting level. When you select one of the [Speaker Settings] items, the test tone is emitted from each speaker in sequence.

Adjust the sound level as follows.

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

- 9** Press \uparrow/\downarrow to select [Off], then press \oplus .

Note

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

Tip

- To adjust the volume of all the speakers at one time, press VOL +/-.

Using the Sleep Timer

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

Press SLEEP.

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

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

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

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly to select the desired time.

Deactivating the Buttons on the Unit

(Child Lock)

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

Press ■ on the unit for more than 5 seconds.

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

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

Note

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

Controlling Your TV or Other Components with the Supplied Remote

You can control your TV and other components such as a cable box or digital satellite receiver with the supplied remote. The remote is initially set to control Sony components.

You can control non-Sony components by changing the preset code of the remote. For operation, see “Changing the preset code of the remote (Preset mode)” (page 52).

Note


- When you replace the batteries of the remote, the remote setting may be reset to the default (SONY) setting.

Controlling your components with the supplied remote

- 1 Press the TV or STB operation mode button that matches the component you want to control.
- 2 Press the appropriated buttons listed in the following table.
 - ●: The button can be used with the default setting of the remote.
 - ○: The button can be used when you change the preset code of the remote.

Button	Remote's mode	
	TV	STB
AV I/⏻	●	●
Number buttons	●	●
.	●	●
ENTER	●	●
AUDIO	●	●
SUBTITLE (CC)	●	○
SLEEP (INPUT)	●	●
Color buttons (YELLOW/BLUE/RED/GREEN)	●	○
TOP MENU (GUIDE)	●	●
FAVORITES	●	●
POP UP/MENU (LIST)	○	●
←/↑/↓/→, ⊕	●	●
RETURN	●	●
HOME (MENU)	●	●
OPTIONS (TOOLS)	●	●
FUNCTION (PAGE -)	○	○
SOUND MODE (PAGE +)	○	○
◀◀/▶▶	●	○
←•	●	○
•→	●	●
◀◀/▶▶	●	●
▶	●	●
	●	●
















Other Operations

Button	Remote's mode	
	TV	STB
	●	●
MUTING	●	●
VOL +/-	●	●
CH +/-	●	●
DISPLAY	●	●

Note

- In TV or STB mode, if you press any of the buttons above, the TV or STB operation mode button lights up. (However, depending on the code setting, some buttons may not work, and the TV or STB operation mode button may not light up.)
- If you press other than the buttons above when the remote is in TV or STB mode, the TV or STB operation mode button does not light up.
- Depending on the TV or component, you may not be able to use some of the buttons.

Changing the preset code of the remote (Preset mode)

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press  /  to select  [Setup].**
- 3 Press  /  to select [Remote Controller Setting Guide], then press .**
- 4 Press  /  to select [Preset Mode], then press .**
- 5 Press  /  to select the component type that you want to operate with the supplied remote, then press .**
- 6 Press  /  to select the device's manufacturer, then press .**
- 7 Press POP UP/MENU while pressing the operation mode button TV (for a TV) or STB (for a cable box, digital satellite receiver, digital video recorder, etc.).**

The remote enters Preset mode. The TV or STB operation mode button (whichever button you pressed) starts flashing.

- 8 When the TV or STB operation mode button starts flashing, enter the code on the TV screen using the number buttons, then press ENTER.**

If you successfully set the code, the TV or STB operation mode button will flash twice slowly. If the setting is unsuccessful, the TV or STB operation mode button will flash five times quickly.

Note

- You can quit Preset mode by pressing the TV or STB operation mode button (whichever button is flashing).
- If you do not operate the remote for more than 10 seconds during presetting mode, the remote exits from presetting mode.

Clearing the preset code from the remote's memory

- 1 Press and hold AV  first, then press VOL -, then press CH -.**

The BD, TV, and STB operation buttons light up.

- 2 Release all buttons.**

The BD, TV, and STB operation mode buttons turn off and the preset code is cleared. The remote returns to its default settings.

Saving Power in Standby Mode

Check that the following settings are both made:

- [Control for HDMI] in [HDMI Settings] is set to [Off] (page 64).
- [Quick Start Mode] is set to [Off] (page 64).

Browsing Websites

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

- 1 Prepare for Internet browsing.**
 Connect the system to a network (page 27).
- 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

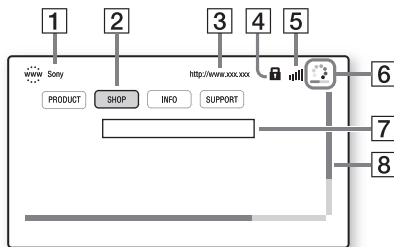
While the page you want to set is displayed, select [Set as start page] from the options menu.

To quit Internet Browser

Press HOME.

Internet Browser display

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



- 1** Page title
- 2** Cursor
 Move by pressing ←/↑/↓/→. Place the cursor on the link you want to view, then press ⊕. The linked website is displayed.
- 3** Page address
- 4** SSL icon
 Appears when the linked URL is secured.
- 5** Signal strength indicator
 Appears when the system is connected to a wireless network.
- 6** Progress bar/Loading icon
 Appears when the page is being read, or during file download/transfer.
- 7** Text input field
 Press ⊕, 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.

Available options

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

Items	Details
[Browser Setup]	Displays the Internet Browser settings. <ul style="list-style-type: none"> • [Zoom]: Increases or decreases the size of the displayed contents. • [JavaScript Setup]: Sets whether to enable or disable JavaScript. • [Cookie Setup]: Sets whether or not to accept browser cookies. • [SSL Alarm Display]: Sets whether to enable or disable SSL.
[Input]	Displays the software keyboard to enter characters while browsing a website.
[Break]	Moves the cursor to the next line in the text input field.

Items	Details
[Delete]	Erases one character on the left side of the cursor during text input.
[Window List]	Displays a list of all currently opened websites. Allows you to return to a previously displayed website by selecting the window.
[Bookmark List]	Displays the bookmark list.
[Character encoding]	Sets the character code.
[Previous page]	Moves to a previously displayed page.
[Next page]	Moves to the previously displayed next page.
[Cancel loading]	Stops loading a page.
[Reload]	Reloads the same page.
[URL entry]	Allows you to enter a URL when the software keyboard is displayed.
[Add to Bookmark]	Adds the currently displayed website to the bookmark list.
[Set as start page]	Sets the currently displayed website as the default start page.
[Open in new window]	Opens a link in a new window.
[Display certificate]	Displays server certificates sent from pages that support SSL.


Further Settings for the Wireless System

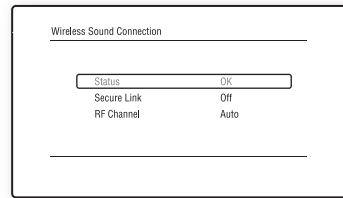
Activating wireless transmission between specific units

[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 when you use multiple wireless sound components.

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press \leftarrow/\rightarrow to select  [Setup].**
- 3 Press \uparrow/\downarrow to select [System Settings], then press \oplus .**
- 4 Press \uparrow/\downarrow to select [Wireless Sound Connection], then press \oplus .**
The [Wireless Sound Connection] display appears.



- 5 Press \uparrow/\downarrow to select [Secure Link], then press \oplus .**
- 6 Press \uparrow/\downarrow to select [On], then press \oplus .**
To cancel the Secure Link function, select [Off] (this item appears only when the surround amplifier is already linked to the main unit).
- 7 Press SECURE LINK on the rear of the surround amplifier.**
- 8 Press \leftarrow/\rightarrow to select [Start], then press \oplus .**
Proceed to the next Step within a few minutes.

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

- 9 After the message [Secure Link complete.] appears, press \oplus .**
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

Press and hold 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 \leftarrow/\rightarrow to select [Setup].

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

4 Press \uparrow/\downarrow to select [Wireless Sound Connection], then press \oplus .

The [Wireless Sound Connection] display appears.

5 Press \uparrow/\downarrow to select [RF Channel], then press \oplus .

6 Press \uparrow/\downarrow to select the desired setting, then press \oplus .

- [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).

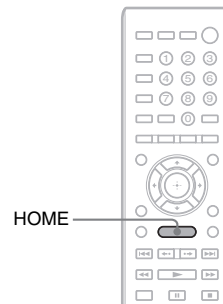
Setting up the Network

[Internet Settings]

Before setting, connect the system to the network. For details, see "Step 3: Connecting to the Network" (page 27).

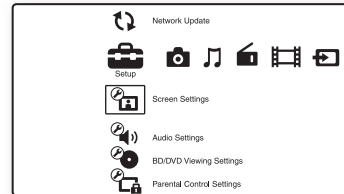
To open the setting display

1 Press HOME.

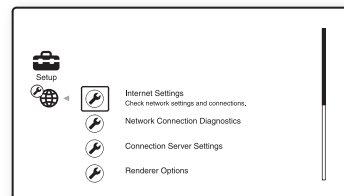


The home menu appears on the TV screen.

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

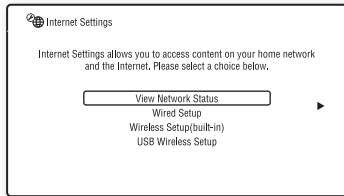


3 Press \uparrow/\downarrow to select [Network Settings], then press \oplus .



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

The [Internet Settings] display appears.



Note

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

For customers in the U.S.:
<http://www.sony.com/support>

For customers in Canada:
English: <http://www.sony.ca/support>
French: <http://fr.sony.ca/support>

For customers in Mexico and Latin America:
<http://esupport.sony.com/LA>

When connecting to the LAN with a LAN cable

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

Auto setting

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

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

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

3 Press \rightarrow .

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

The system starts checking the network connection.

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

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

Manual setting

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

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

3 Press \uparrow/\downarrow to select the network setting type, then press \oplus .

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

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

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

Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ and the number buttons to set the following items, then press \oplus .

- [Primary DNS]
- [Secondary DNS]

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

Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ and the number buttons to set the following items, then press \oplus .

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

- 4** Press \uparrow/\downarrow to select the proxy server setting, then press \oplus .
- [No]: A proxy server is not used.
 - [Yes]: Enter the proxy server setting. Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ and the number buttons, then press \oplus .
- The value of the internet settings appears on the TV screen.

5 Press \rightarrow .

- 6** Press \uparrow/\downarrow to select [Save & Connect], then press \oplus .
- The system starts checking the network connection.

- 7** Check that the message [Internet Settings is now complete.] appears, then press \oplus .
- The setup is finished. If the message does not appear, follow the on-screen messages.

When connecting to the wireless LAN with the system's built-in Wi-Fi or the USB Wireless LAN Adapter

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

When your wireless router is compatible with the WPS function

- 1** Press \uparrow/\downarrow to select [Wireless Setup(built-in)] or [USB Wireless Setup] on the [Internet Settings] display, then press \oplus .
 - 2** Press \uparrow/\downarrow to select [Wi-Fi Protected Setup (WPS)], then press \oplus .
 - 3** Activate the WPS function of your wireless router, press \uparrow/\downarrow to select [Start], then press \oplus .
- For details about activating the WPS function, see the operating instructions of your router.

- 4** Check that the message [Wi-Fi Protected Setup was successful.] appears, then press \rightarrow .
- Setup of wireless LAN connectivity and the IP address is finished.
- Next, enter the proxy server setting. Follow Steps 4 to 7 of "Manual setting" in "When connecting to the LAN with a LAN cable" above.

When your wireless router is not compatible with the WPS function

- 1** Press \uparrow/\downarrow to select [Wireless Setup(built-in)] or [USB Wireless Setup] on the [Internet Settings] display, then press \oplus .
 - 2** Press \uparrow/\downarrow to select [Scan], then press \oplus .
 - 3** Press \uparrow/\downarrow to select the wireless LAN name, then press \oplus .
- **When the selected wireless LAN is unsecured**
Setup of wireless LAN connectivity is finished. Next, enter the IP address settings by following the Steps of "Auto setting" or "Manual setting" in "When connecting to the LAN with a LAN cable" above.
 - **When the selected wireless LAN is secured**
The display for entering a WEP or WPA key appears. Go to Step 5.
 - **To specify the wireless LAN name**
Select [Manual Entry].
The input display appears. Enter the wireless LAN name by following the on-screen messages, then press \rightarrow .

4 Press \uparrow/\downarrow to select the security mode, then press \oplus .

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

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

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

About wireless LAN security

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

No Security

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

WEP

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

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

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

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


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

AES assures a higher security level than WEP or TKIP.

Settings and Adjustments

Using the Setup Display

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

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

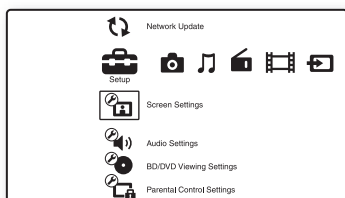
Note

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

1 Press HOME.

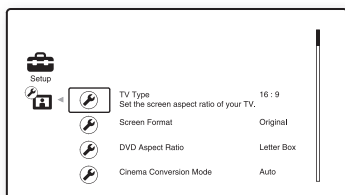
The home menu appears on the TV screen.

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














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

Example: [Screen Settings]



You can setup the following options.

Icon	Explanation
	[Remote Controller Setting Guide] (page 59) Makes the remote settings for operating the TV or other components.
	[Network Update] (page 60) Updates the software of the system.

Icon	Explanation
	[Screen Settings] (page 60) Makes the screen settings according to the type of connecting jacks.
	[Audio Settings] (page 61) Makes the audio settings according to the type of connecting jacks.
	[BD/DVD Viewing Settings] (page 62) Makes detailed settings for BD/DVD playback.
	[Parental Control Settings] (page 63) Makes detailed settings for the Parental Control function.
	[Music Settings] (page 63) Makes detailed settings for Super Audio CD playback.
	[System Settings] (page 63) Makes the system-related settings.
	[Network Settings] (page 64) Makes detailed settings for Internet and network.
	[Easy Setup] (page 65) Re-runs the Easy Setup to make the basic settings.
	[Resetting] (page 65) Resets the system to the factory settings.

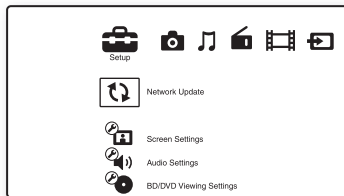
Settings and Adjustments

? [Remote Controller Setting Guide]

■ [Preset Mode]

You can change the preset code of the remote for controlling non-Sony components. For details, see "Changing the preset code of the remote (Preset mode)" (page 52).

[Network Update]



You can update and improve the functions of the system.

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

For customers in the U.S.:
<http://www.sony.com/support>

For customers in Canada:
English: <http://www.sony.ca/support>
French: <http://fr.sony.ca/support>

For customers in Mexico and Latin America:
<http://esupport.sony.com/LA>

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

[Screen Settings]

■ [3D Output Setting]

[Auto]: Normally select this.

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

Note

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

■ [TV Screen Size Setting for 3D]

Sets the screen size of your 3D compatible TV.

Note

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

■ [TV Type]

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

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

■ [Screen Format]

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

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

■ [DVD Aspect Ratio]

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



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



■ [Cinema Conversion Mode]

[Auto]: Normally select this. The unit automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method.
[Video]: The conversion method suited for video-based material will always be selected regardless of the material.

■ [Output Video Format]

[HDMI]: Normally select [Auto]. Select [Original Resolution] to output the resolution recorded on the disc. (When the resolution is lower than SD resolution, it is scaled up to SD resolution.)
[Component Video]: Select the resolution that suits your TV.
[Video]: Automatically sets the lowest resolution.

Note

- If no picture appears when setting [HDMI] or [Component Video] resolution, try another resolution setting.
- When connecting via the COMPONENT VIDEO OUT jack and [Component Video] is selected, BD-ROM playback of protected content is only supported at 480i* output resolution (pages 22, 29).
* 480i/576i for Mexican and Latin American models.

■ [BD/DVD-ROM 1080/24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI (OUT) jack.
[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [YCbCr/RGB (HDMI)]

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

■ [HDMI Deep Color Output]

[Auto]: Normally select this.
[16bit], [12bit], [10bit]: Outputs 16bit/12bit/10bit video signals when the connected TV is compatible with Deep Color.
[Off]: Select this when the picture is unstable or colors appear unnatural.

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

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

[Audio Settings]

■ [BD Audio MIX Setting]

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

■ [Audio DRC]

You can compress the dynamic range of the sound track.

[Auto]: Performs playback at the dynamic range specified by the disc (BD-ROM only).
[Off]: No compression of dynamic range.
[On]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.

■ [Attenuate - AUDIO]

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

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

■ [Audio Output]

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

[Speaker]: Outputs multi-channel sound from the system's speakers only.

[Speaker + HDMI]: Outputs multi-channel sound from the system's speakers and 2-channel linear PCM signals from the HDMI (OUT) jack.

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

Note

- When [Control for HDMI] is set to [On] (page 64), [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" and "SAT/CABLE" function is 2-channel linear PCM.

■ [Sound Effect]

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

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

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

■ [Surround Setting]

You can select the surround setting. For details, see "Step 7: Enjoying Surround Sound" (page 31)

■ [Speaker Settings]

To obtain the best possible surround sound, set the speakers. For details, see "Setting the Speakers" (page 49).

■ [Auto Calibration]

You can calibrate the appropriate settings automatically. For details, see "Calibrating the Appropriate Settings Automatically" (page 48).

[BD/DVD Viewing Settings]

You can make detailed settings for BD/DVD playback.

■ [BD/DVD Menu]

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

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to "Language Code List" (page 79).

■ [Audio]

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

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

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to "Language Code List" (page 79).

■ [Subtitle]

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

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to "Language Code List" (page 79).

■ [BD Hybrid Disc Playback Layer]

[BD]: Plays BD layer.

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

■ [BD Internet Connection]

[Allow]: Normally select this.

[Do not allow]: Prohibits Internet connection.

[Parental Control Settings]

■ [Password]

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

■ [Parental Control Area Code]

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

■ [BD Parental Control]

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

■ [DVD Parental Control]

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

■ [Internet Video Parental Control]

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

■ [Internet Video Unrated]

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

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

[Music Settings]

You can make detailed settings for Super Audio CD playback.

■ [Super Audio CD Playback Layer]

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

[CD]: Plays the CD layer.

■ [Super Audio CD Playback Channel]

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

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

[System Settings]

You can make the system-related settings.

■ [OSD]

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

■ [Wireless Sound Connection]

You can make further settings for the wireless system. For details, see “Further Settings for the Wireless System” (page 54).

Also, you can check the wireless transmission status. When wireless transmission is activated, [OK] appears to the right of [Status].

■ [Illumination/Display]

You can select the status of the soft-touch buttons (page 10) and front panel display (page 11).

[Standard/On]: The soft-touch buttons and the front panel display stay illuminated.

[Simple/Off]: The soft-touch buttons and the front panel display turn off when the system is not being operated.

■ [HDMI Settings]

[Control for HDMI]

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

[Off]: Off.

[Audio Return Channel]

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

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

[Off]: Off.

Note

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

■ [Quick Start Mode]

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

[Off]: The default setting.

■ [Auto Standby]

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

[Off]: Turns off the function.

■ [Auto Display]

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

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

■ [Screen Saver]

[On]: Turns on the screen saver function.

[Off]: Off.

■ [Software Update Notification]

[On]: Sets the system to inform you of newer software version information (page 60).

[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.

[Network Settings]

You can make detailed settings for Internet and network.

■ [Internet Settings]

Connect the system to the network beforehand. For details, see "Step 3: Connecting to the Network" (page 27).

■ [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 Options]

[Auto Access Permission]: Sets whether or not to allow automatic access from newly detected DLNA controller.

[Smart Select]: Allows a Sony DLNA controller to find the system as the target component 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.

■ [Media Remote Device Registration]

Registers your "Media remote" device.

■ [Registered Media Remote Devices]

Displays a list of your registered "Media remote" devices.

[Easy Setup]

Re-runs the Easy Setup to make the basic settings. Follow the on-screen instructions.

[Resetting]

■ [Reset to Factory Default Settings]

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

■ [Initialize Personal Information]

You can erase your personal information stored in the system.

Additional Information

Precautions

On safety

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

On power sources

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

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the system in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the system. The system is equipped with a high power amplifier. If the ventilation slots are blocked, the system can overheat and malfunction.
- Do not place the system on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the system in a confined space, such as a bookshelf or similar unit.
- Do not install the system near heat sources such as radiators, air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Do not install the system in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the system and discs away from components with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the system.
- Do not place metal objects in front of the front panel. They 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 unit. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any disc. If you do not, the disc may be damaged.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

On adjusting volume

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

On cleaning

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

On cleaning discs, disc/lens cleaners

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

On replacement of parts

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

On your TV's color

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

IMPORTANT NOTICE

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

On moving the system

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

Notes about the Discs

On handling discs

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



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

On cleaning

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



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

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

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




Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.



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

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

General

Symptom	Problems and solutions
The power is not turned on.	<ul style="list-style-type: none"> Check that the AC power cord (mains lead) is connected securely.
The remote does not function.	<ul style="list-style-type: none"> The distance between the remote and the unit is too far. The batteries in the remote are weak.
The disc tray does not open and you cannot remove the disc even after you press  .	<ul style="list-style-type: none"> Try the following: ① Press and hold  and  on the unit for more than 5 seconds to open the disc tray. ② Remove the disc. ③ Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.
The system does not work normally.	<ul style="list-style-type: none"> Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.

Messages

Symptom	Problems and solutions
[A new software version is available. Please go to the "Setup" section of the menu and select "Network Update" to perform the update.] appears on the TV screen.	<ul style="list-style-type: none"> See [Network Update] (page 60) to update the system to a newer software version.
"PROTECTOR" and "PUSH PWR" appear alternately in the front panel display.	<p>Press  to turn off the system, and check the following items after "STANDBY" disappears.</p> <ul style="list-style-type: none"> Are the + and - speaker cords short-circuited? Are you using only the specified speakers? Is anything blocking the ventilation holes of the system? After checking the above items and fixing any problems, turn on the system. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.
"LOCKED" appears in the front panel display.	<ul style="list-style-type: none"> Set the child lock function to off (page 51).
"DEMO LOCK" appears in the front panel display.	<ul style="list-style-type: none"> Contact your nearest Sony dealer or local authorized Sony service facility.
"Exxxx" appears in the front panel display.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Contact your nearest Sony dealer or local authorized Sony service facility.

Picture

Symptom	Problems and solutions
There is no picture.	<ul style="list-style-type: none"> • Check the output method on your system (page 22).
There is no picture when you make an HDMI cable connection.	<ul style="list-style-type: none"> • The unit is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant (“HDMI” on the front panel does not light up) (page 22).
3D images from the HDMI (IN 1) or HDMI (IN 2) jack do not appear on the TV screen.	<ul style="list-style-type: none"> • Depending on the TV or video component, 3D images may not appear.
There is no picture or output resolution is low when you make a component video cable connection.	<ul style="list-style-type: none"> • When playing a BD-ROM, a high-resolution image may not be output because of copy protection limitations. We recommend to make a HDMI connection (page 22).
No picture appears when the video output resolution selected in [Output Video Format] is incorrect.	<ul style="list-style-type: none"> • Press and hold ▶ and VOL – on the unit for more than 5 seconds to reset the video output resolution to the lowest resolution.
The dark area of the picture is too dark/the bright area is too bright or unnatural.	<ul style="list-style-type: none"> • Set [Picture Quality Mode] to [Standard] (default) (page 40).
The picture is not output correctly.	<ul style="list-style-type: none"> • Check the [Output Video Format] settings in [Screen Settings] (page 61). • If the analog and digital signals are output at the same time, set [BD/DVD-ROM 1080/24p Output] in [Screen Settings] to [Off] (page 61). • For BD-ROMs, check the [BD/DVD-ROM 1080/24p Output] settings in [Screen Settings] (page 61).
Picture noise appears.	<ul style="list-style-type: none"> • Clean the disc. • If the picture output from your system goes through your VCR to get to your TV, the copy-protection signal applied to some BD/DVD programs could affect picture quality. If you still experience problems even when you connect your unit directly to your TV, try connecting your unit to the other input jacks.
An image is not displayed on the entire TV screen.	<ul style="list-style-type: none"> • Check the setting of [TV Type] in [Screen Settings](page 60). • The aspect ratio on the disc is fixed.
Color irregularity occurs on the TV screen.	<ul style="list-style-type: none"> • If the speakers are used with a CRT-based TV or projector, install the speakers at least 1.0 ft (0.3 meters) from the TV set. • If the color irregularity persists, turn off the TV set once, then turn it on after 15 to 30 minutes. • Make sure that no magnetic object (magnetic latch on a TV stand, health care device, toy, etc.) is placed near the speakers.
There is no picture after playing a video/photo file on the iPod/iPhone.	<ul style="list-style-type: none"> • Select the input on your TV for this system.

Sound

Symptom	Problems and solutions
There is no sound.	<ul style="list-style-type: none">• The speaker cord is not connected securely.• Check the speaker settings (page 49).
The Super Audio CD sound of a component that is connected to the HDMI (IN 1) or HDMI (IN 2) jack is not output.	<ul style="list-style-type: none">• HDMI (IN 1) and HDMI (IN 2) does not accept an audio format that contains copy protection. Connect the analog audio output of the component to the AUDIO (AUDIO IN L/R) jacks of the unit.
There is no sound from the TV via the HDMI (OUT) jack when using the Audio Return Channel function.	<ul style="list-style-type: none">• Set [Control for HDMI] in [HDMI Settings] of [System Settings] to [On] (page 64). Also, set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Auto] (page 64).• Make sure that your TV is compatible with the Audio Return Channel function.• Make sure that an HDMI cable is connected to a jack on your TV that is compatible with the Audio Return Channel function.
The system does not output sound correctly when connected to a set-top box.	<ul style="list-style-type: none">• Set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Off] (page 64).
Severe hum or noise is heard.	<ul style="list-style-type: none">• Move your TV away from the audio components.• Clean the disc.
The sound loses stereo effect when you play a CD.	<ul style="list-style-type: none">• Select stereo sound by pressing AUDIO (page 43).
The sound comes from the center speaker only.	<ul style="list-style-type: none">• Depending on the disc, the sound may come from the center speaker only.
No sound or only a very low-level sound is heard from the surround speakers.	<ul style="list-style-type: none">• Check the speaker connections and settings (pages 20, 49).• Check the surround setting (page 31).• Depending on the source, the effect of the surround speakers may be less noticeable.• A 2 channel source is being played.
Distortion occurs in the sound of a connected component.	<ul style="list-style-type: none">• Reduce the input level for the connected component by setting [Attenuate - AUDIO] (page 61).

Wireless sound

Symptom	Problems and solutions
Wireless transmission is not activated or there is no sound from the surround speakers.	<p>Check the status of the LINK/STANDBY indicator on the surround amplifier.</p> <ul style="list-style-type: none">• Turns off.<ul style="list-style-type: none">– 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.<ul style="list-style-type: none">– 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.<ul style="list-style-type: none">– Press I/⏻ to turn off the surround amplifier, and check the following items.<ul style="list-style-type: none">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.<ul style="list-style-type: none">– Make sure that the wireless transceiver is inserted correctly into the main unit.– Make the [Secure Link] setting again (page 54).– 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.<ul style="list-style-type: none">– Check the speaker connections and settings.
Noise is heard from surround speakers or sound from the surround speakers skips.	<ul style="list-style-type: none">• Wireless transmission is unstable. Change the [RF Channel] setting in [Wireless Sound Connection] (page 55).• Install the unit and surround amplifier closer to each other.• Do not install the unit and surround amplifier in a closed rack, on a metal rack, or under a table.

Tuner

Symptom	Problems and solutions
Radio stations cannot be tuned in.	<ul style="list-style-type: none">• 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 direct tuning.

Playback

Symptom	Problems and solutions
The disc does not play.	<ul style="list-style-type: none"> The region code on the BD/DVD does not match the system. Moisture has condensed inside the unit and may cause damage to the lenses. Remove the disc and leave the unit turned on for about half an hour. The system cannot play a recorded disc that is not correctly finalized (page 74).
File names are not displayed correctly.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Resume play has been selected. Press OPTIONS and select [Play from beginning], then press ⊖.
Playback does not start from the resume point where you last stopped playing.	<ul style="list-style-type: none"> The resume point may be cleared from memory depending on the disc when <ul style="list-style-type: none"> you open the disc tray. you disconnect the USB device. you play other content. you turn off the unit.
The language for the soundtrack/subtitle or angles cannot be changed.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Try the following: ① Remove the disc. ② Turn the system off. ③ Remove and reconnect the USB device (page 35). ④ Turn the system on. ⑤ Insert the BD-ROM with BONUSVIEW/BD-LIVE.

USB device

Symptom	Problems and solutions
The USB device is not recognized.	<ul style="list-style-type: none"> Try the following: ① Turn the system off. ② Remove and reconnect the USB device. ③ Turn the system on. Make sure that the USB device is securely connected to the ↔ (USB) port. Check if the USB device or a cable is damaged. Check if the USB device is on. If the USB device is connected via a USB hub, disconnect it and connect the USB device directly to the unit.

BRAVIA Internet Video

Symptom	Problems and solutions
The picture/sound is poor/certain programs display with a loss of detail, especially during fast-motion or dark scenes.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Press ↑ to zoom in.

“BRAVIA” Sync ([Control for HDMI])

Symptom	Problems and solutions
The [Control for HDMI] function does not work (“BRAVIA” Sync).	<ul style="list-style-type: none"> • Check that [Control for HDMI] is set to [On] (page 64). • 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 64). • Check the following and refer to the operating instructions supplied with the component. <ul style="list-style-type: none"> – the connected component is compatible with the [Control for HDMI] function. – the connected component’s setting for the [Control for HDMI] function is correct.

Network connection

Symptom	Problems and solutions
The system cannot connect to the network.	<ul style="list-style-type: none"> • Check the network connection (page 27) and the network settings (page 64).

Built-in/USB wireless LAN connection

Symptom	Problems and solutions
You cannot connect your PC to the Internet after [Wi-Fi Protected Setup (WPS)] is performed.	<ul style="list-style-type: none"> • The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly.
You cannot connect the system to your wireless LAN router.	<ul style="list-style-type: none"> • Check if the wireless LAN router is on. • Depending on the usage environment, including the wall material, radio wave reception conditions, or obstacles between the system and the wireless LAN router, the possible communication distance may be shortened. Move the system and the wireless LAN router closer to each other. • Devices that use a 2.4 GHz frequency band, such as a microwave, Bluetooth, or digital cordless device, may interrupt the communication. Move the unit away from such devices, or turn off such devices.
The desired wireless router is not detected even if [Scan] is performed.	<ul style="list-style-type: none"> • Press RETURN to return to the previous screen, and try [Scan] again. If the desired wireless router is still not detected, press RETURN to select [Manual registration].
The system cannot connect to the network or the network connection is unstable.	<ul style="list-style-type: none"> • The distance between the unit and the wireless LAN router is too far (page 27).

Additional Information

Playable Discs

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

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

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

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

Discs that cannot be played

- BDs with cartridge
- BDXLs
- DVD-RAMs
- HD DVDs
- DVD Audio discs
- PHOTO CDs
- Data part of CD-Extras
- Super VCDs
- Audio material side on DualDiscs
- For U.S. and Canada models: A disc recorded in a color system other than NTSC, such as PAL
(This system conforms to the NTSC color system.)

Notes on discs

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


Note on playback operations of a BD/DVD

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

Note about double-layer BDs/DVDs

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

Region code (BD-ROM/DVD VIDEO only)

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

Playable Types of Files

Video¹⁾

File format	Extensions
MPEG-1 Video/PS ²⁾⁵⁾	“.mpg,” “.mpeg,” “.m2ts,”
MPEG-2 Video/PS, TS ²⁾⁶⁾	“.mts”
Xvid	“.avi”
MPEG4/AVC ²⁾⁵⁾	“.mkv,” “.mp4,” “.m4v,” “.m2ts,” “.mts”
WMV9 ²⁾⁵⁾	“.wmv,” “.asf”
AVCHD	³⁾⁵⁾

Music


File format	Extensions
MP3 (MPEG-1 Audio Layer III)	“.mp3”
AAC ²⁾⁴⁾⁵⁾	“.m4a”
WMA9 Standard ²⁾⁴⁾	“.wma”
LPCM	“.wav”

Photo¹⁾

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

- ¹⁾The system does not play these files via the DLNA renderer function.
- ²⁾The system does not play files encoded with DRM.
- ³⁾The system plays AVCHD-format files that are recorded via a digital video camera, etc. To watch AVCHD-format files, the disc with AVCHD-format files on it must be finalized.
- ⁴⁾The system does not play files encoded with Lossless, etc.
- ⁵⁾The system does not play these files via the DLNA function.
- ⁶⁾The system plays SD resolution only via the DLNA function.

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.
- The system can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
 - up to folders in the 5th tree
 - up to 500 files in a single tree
- The system can recognize the following files or folders stored in the DLNA server:
 - up to folders in the 20th tree
 - up to 999 files in a single tree
- Some USB devices may not work with this system.
- The system can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Devices (SICDs), and 101-key keyboards (front  (USB) port only).
- To avoid data corruption or damage to USB memory or other devices, turn the system off before connecting or removing USB memory or other devices.
- The system may not play high bit rate video files from a DATA CD smoothly. It is recommended to play high bit rate video files using a DATA DVD.

Supported Audio Formats

Audio formats supported by this system are as follows.

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

○: Supported format.

-: Unsupported format.

Note

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

Specifications

Amplifier Section

U.S. models:

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC
DISTORTION:
(FTC)

Front L + Front R: With 3 ohms loads, both channels driven, from 180 - 20,000 Hz; rated 60 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milli watts to rated output.

Other models:

POWER OUTPUT (rated)

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

POWER OUTPUT (reference)

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

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

Inputs (Analog)

AUDIO (AUDIO IN) Sensitivity: 450/250 mV

Inputs (Digital)

SAT/CABLE (COAXIAL)

TV (Audio Return Channel/OPTICAL)

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

HDMI (IN 1)/HDMI (IN 2)

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

Video Section

Outputs

VIDEO: 1 Vp-p 75 ohms

COMPONENT:

Y: 1 Vp-p 75 ohms

PB, Pr: 0.7 Vp-p

75 ohms

HDMI Section

Connector

Type A (19pin)

BD/DVD/Super Audio CD/CD System

Signal format system

U.S. and Canada models: NTSC

Other models: NTSCPAL

USB Section

↔ (USB) port:

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

LAN Section

LAN (100) terminal 100BASE-TX Terminal

Wireless LAN Section

Standards Compliance IEEE 802.11 b/g/n

Frequency and Channel 2.4 GHz - 2.4835 GHz [CH1 -11]

FM Tuner Section

System PLL quartz-locked digital synthesizer

Tuning range

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

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

Antenna (aerial) FM wire antenna (aerial)

Antenna (aerial) terminals 75 ohms, unbalanced

Speakers

Front (SS-TSB107) for BDV-E780W

Dimensions (approx.) 96 mm × 330 mm × 72 mm (3 7/8 in × 13 in × 2 7/8 in) (w/h/d) (wall-mounted part)

106 mm × 325 mm × 107 mm (4 1/4 in × 12 7/8 in × 4 1/4 in) (w/h/d) (whole speaker)

Mass (approx.) 0.8 kg (1 lb 13 oz) (wall-mounted part)

0.8 kg (1 lb 13 oz) (whole speaker)

Front (SS-TSB108) for BDV-E980W

Dimensions (approx.) 96 mm × 775 mm × 72 mm (3 7/8 in × 30 5/8 in × 2 7/8 in) (w/h/d) (wall-mounted part)

275 mm × 1,205 mm × 245 mm (10 7/8 in × 47 1/2 in × 9 3/4 in) (w/h/d) (whole speaker)

Mass (approx.) 1.4 kg (3 lb 2 oz) (wall-mounted part)

2.7 kg (6 lb) (whole speaker)

Additional Information

Surround (SS-TSB106) for BDV-E780W

Dimensions (approx.) 96 mm × 245 mm × 96 mm
(3 7/8 in × 9 3/4 in × 3 7/8 in)
(w/h/d)

Mass (approx.) 0.6 kg (1 lb 6 oz)

Surround (SS-TSB109) for BDV-E980W

Dimensions (approx.) 96 mm × 775 mm × 72 mm
(3 7/8 in × 30 5/8 in × 2 7/8 in) (w/h/d) (wall-mounted part)

275 mm × 1,205 mm × 245 mm (10 7/8 in × 47 1/2 in × 9 3/4 in) (w/h/d) (whole speaker)

Mass (approx.) 1.3 kg (2 lb 14 oz) (wall-mounted part)
2.6 kg (5 lb 12 oz) (whole speaker)

Center (SS-CTB103)

Dimensions (approx.) 315 mm × 59 mm × 53 mm
(12 1/2 in × 2 3/8 in × 2 1/8 in) (w/h/d)

Mass (approx.) 0.4 kg (15 oz)

Subwoofer (SS-WSB105)

Dimensions (approx.) 415 mm × 340 mm × 215 mm
(16 3/8 in × 13 1/2 in × 8 1/2 in) (w/h/d)

Mass (approx.) 7.8 kg (17 lb 4 oz)

General

Power requirements 120 V AC, 50/60 Hz

Power consumption On: 130 W
Standby: 0.3 W (at the Power Saving mode)

Dimensions (approx.) 430 mm × 75 mm × 320 mm
(17 in × 3 in × 12 5/8 in) (w/h/d) incl. projecting parts
430 mm × 75 mm × 333 mm
(17 in × 3 in × 13 1/8 in) (w/h/d) (with the wireless transceiver inserted)

Mass (approx.) 4.1 kg (9 lb 1 oz)

Surround amplifier (TA-SA300WR)

Amplifier Section

U.S.models:

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC

DISTORTION:

(FTC)

With 3 ohms loads, both channels driven, from 180 - 20,000 Hz; rated 45 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milli watts to rated output.

Other models:

POWER OUTPUT (reference)

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

Rated impedance: 3 - 16 Ω

Power requirements 120 V AC, 60 Hz

Power consumption On: 50 W

Standby power consumption

0.5 W (standby mode)

0.13 W (turned off)

Dimensions (approx.) 206 mm × 60 mm × 236 mm
(8 1/8 in × 2 3/8 in × 9 3/8 in) (w/h/d) with the wireless receiver inserted

Mass (approx.) 1.3 kg (2 lb 14 oz)

Wireless transceiver (EZW-RT50)

Communication system Wireless sound

Specification version 1.0

Frequency band 5.736 GHz - 5.814 GHz

Modulation method DSSS

Power requirements DC 3.3 V, 300 mA

Dimensions (approx.) 30 mm × 9 mm × 60 mm
(1 3/16 in × 3/8 in × 2 3/8 in) (w/h/d)

Mass (approx.) XX g (XX oz)

Design and specifications are subject to change without notice.

- Standby power consumption 0.3W (main unit), 0.13W (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; Lettish	1505 Slovak	
1174 French	1345 Malagasy	1506 Slovenian	
1181 Frisian			1703 Not specified

Additional Information

Parental Control/Area Code List

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

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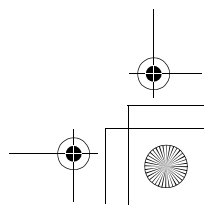
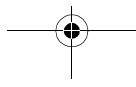
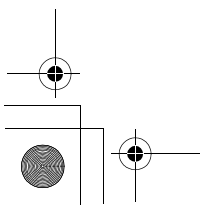
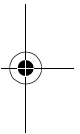
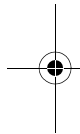
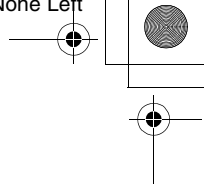
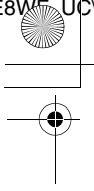
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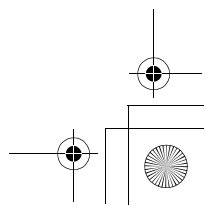
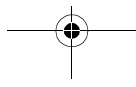
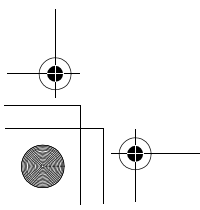
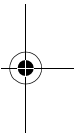
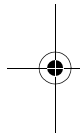
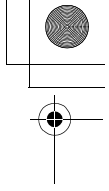
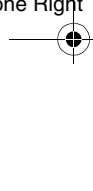
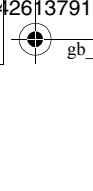
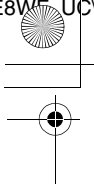
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WPA-PSK (AES) 58

WPA-PSK (TKIP) 58





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

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model name [BDV-E780W/BDV-E980W]
[4-261-379-11(1)]