SONY

4-461-526-**11**(3)

DVD Home Theatre System

Operating Instructions

Bluetooth

HDMI

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DAV-DZ350/DAV-DZ650/DAV-DZ950

GB

WARNING

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.
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).
As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
Do not expose batteries or appliances with battery-installed to excessive heat, such as sunshine and fire.
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.

CAUTION
The use of optical instruments with this product will increase eye hazard.

For customers in India

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

For customers in Singapore

Complies with IDA Standards DB00353

Trademarks

This system incorporates with Dolby* Digital and Dolby Pro Logic adaptive matrix surround decoders.
* Manufactured under license from Dolby Laboratories.
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About these Operating Instructions

"DVD" may be used as a general term for a DVD VIDEO, DVD+RW/DVD+R, and DVD-RW/DVD-R.

The system enters standby mode automatically.
When the system is in pause, stop, open, or no disc mode, the system will enter standby mode automatically after 20 minutes.

Bluetooth wireless technology

Bluetooth wireless technology is a short-range wireless technology linking digital devices, such as personal computers and digital cameras. Using the *Bluetooth* wireless technology, you can operate the units involved within a range of about 10 meters. The *Bluetooth* wireless technology is commonly used between two devices, but a single device can be connected to multiple devices.
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. You can use the technology with one *Bluetooth* device in your bag or pocket. *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 Standard version 2.1 + EDR (Enhanced Data Rate)
Supported *Bluetooth* profiles:
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio Video Remote Control Profile)

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

Effective communication range

Bluetooth devices should be used within approximately 10 meters (unobstructed distance) of each other. The effective communication range may become shorter under the following conditions.
- When a person, metal object, wall or other obstruction is between the devices with a *Bluetooth* connection
- Locations where a wireless LAN is installed
- Around microwave ovens that are in use
- Locations where other electromagnetic waves occur

Effects of other devices

Bluetooth devices and wireless LAN (IEEE 802.11b/g) use the same frequency band (2.4 GHz). When using your *Bluetooth* device near a device with wireless LAN capability, electromagnetic interference may occur. This could result in lower data transfer rates, noise, or inability to connect. If this happens, try the following remedies:
- Try connecting this system and *Bluetooth* mobile phone or *Bluetooth* device when you are at least 10 meters away from the wireless LAN equipment.
- Turn off the power to the wireless LAN equipment when using your *Bluetooth* device within 10 meters.

Effects on other devices

The radio waves broadcast by this system may interfere with the operation of some medical devices. Since this interference may result in malfunction, always turn off the power on this system, *Bluetooth* mobile phone and *Bluetooth* device in the following locations:
- In hospitals, on trains, in airplanes, at gas stations, and any place where flammable gasses may be present
- Near automatic doors or fire alarms

Note
- This system supports security functions that comply with the *Bluetooth* specification as a means of ensuring security during communication using *Bluetooth* technology. However, this security may be insufficient depending on the setting contents and other factors, so always be careful when performing communication using *Bluetooth* technology.
- Sony cannot be held liable in any way for damages or other loss resulting from information leaks during communication using *Bluetooth* technology.
- *Bluetooth* communication is not necessarily guaranteed with all *Bluetooth* devices that have the same profile as this system.
- *Bluetooth* devices connected with this system must comply with the *Bluetooth* specification prescribed by the *Bluetooth* SIG, Inc., and must be certified to comply. However, even when a device complies with the *Bluetooth* specification, there may be cases where the characteristics or specifications of the *Bluetooth* device make it impossible to connect, or may result in different control methods, display or operation.
- Noise may occur or the audio may cut off depending on the *Bluetooth* device connected with this system, the communications environment, or surrounding conditions.

Playable Discs

DVD	DVD-VIDEO DVD-ROM DVD-R/DVD-RW DVD+R/DVD+RW
CD	CD-DA (Music CD) CD-ROM CD-R/CD-RW VIDEO CD Super VCD

A CD or DVD 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
- Blu-ray Discs
- HD DVDs
- DVD-RAMs
- DVD Audio discs
- PHOTO CDs
- Super Audio CDs
- Data track of CD-Extras
- Audio material side on DualDiscs
- DVD-R/DVD-RW/DVD+R/DVD+RW in VR (Video Recording) mode
- CPRM (Content Protection for Recordable Media)-compatible DVD-R/RW containing content flagged as "Copy once."

Notes on discs
This product is designed to playback 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 DVD
Some playback operations of a DVD may be intentionally restricted by software producers. Since this system plays a DVD according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer DVDs
The playback picture and sound may be momentarily interrupted when the layers switch.

Region code (DVD VIDEO only)
Your system has a region code printed on the rear of the unit and will only play a DVD VIDEO (playback only) labeled with an identical region code or ALL.

Note about Multi Session CD
You can play only the first session of a multisession disc.

Playable Types of Files

Video

File format	Extensions
MPEG4 Video[1]	".mp4," ".m4v"
Xvid Video	".avi"

Music

File format	Extensions
MP3 (MPEG1 Audio Layer 3)[2]	".mp3"
WMA[3]	".wma"
AAC[4]	".m4a"

Photo

File format	Extensions
JPEG	".jpg," ".jpeg," ".jpe"

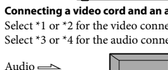
1) AVC is not compatible.
2) MP3PRO format is not compatible.
3) WMA DRM,WMA Lossless or WMA PRO format are not compatible.
4) AAC DRM and AAC Lossless formats are not supported.

Note
- Some files may not play depending on the format, the encoding, or recording condition.
- Some USB devices may not work with this system.
- The system supports ISO 9660 Level 1/ Level 2, or Joliet in DATA CD.
- The system supports UDF (Universal Disk Format) in DATA DVD.
- The system supports FAT12, FAT16, and FAT32 in USB device.
- The system can recognize the following files or folders in DATA DVD, DATA CD and USB device:
  - up to 300 folders
  - up to 648 files
- It may take time to read files in the following cases:
  - there are many folders or files.
  - the memory capacity of the USB device that you are using is very large.
  - the memory of the USB device that you are using is fragmented.

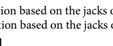
Unpacking

Checking the supplied items

- Main unit (1)

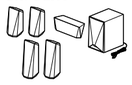


- Remote commander (remote) (1)



Speaker packages

- DAV-DZ350



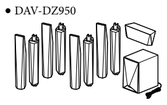
- DAV-DZ650

- Speaker assembly parts for the tall speakers For DAV-DZ650

(2)

(8)

- DAV-DZ950



- Speaker assembly parts for the tall speakers For DAV-DZ950

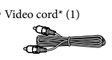
(4)

(16)

- FM wire antenna (aerial) (1)

- R6 (size AA) batteries (2)

- Video cord* (1)



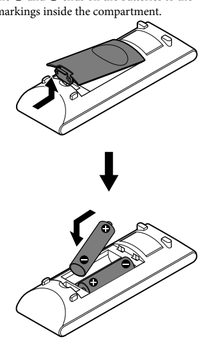
- High Speed HDMI cable* (1)

- Operating Instructions (this manual)

* High Speed HDMI cable and video cord are included only in certain areas.

Preparing the remote control

Insert two R6 (size AA) batteries by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment.

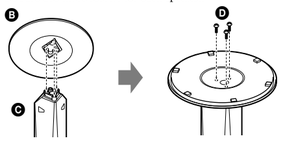


Assembling the tall-type speakers (DAV-DZ650/DAV-DZ950 only)

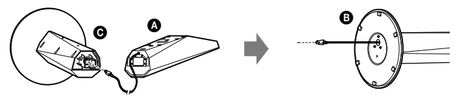
Spread a cloth on the floor to avoid damaging the floor when you assemble the speakers.

Note
- The upper part of the front speakers can be directly wall mounted (the lower parts are not used). In this case, the below assembly is not required.

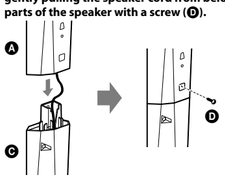
1 Place the base (B) on the lower part of the speaker (C), and secure it with three screws (D).
Be sure use three screws for each speaker.



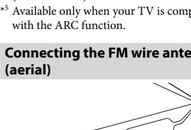
2 Thread the speaker cord of the upper part of the speaker (A) into the top of the lower part of the speaker (C), then pull the speaker cord from below the base (B).



3 Place the upper part of the speaker (A) onto the lower part of the speaker (C) while gently pulling the speaker cord from below the base. Then secure the upper and lower parts of the speaker with a screw (D).



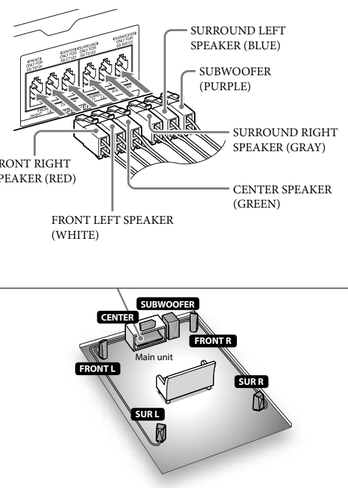
4 Remove any slack of the speaker cord in the speaker by gently pulling it from below the base (B).

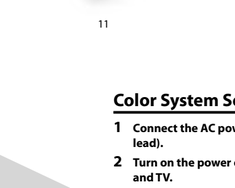


Connecting the Speakers

Caution
Do not use any speakers other than those supplied with this system.
Insert the speaker cords to match the color of the SPEAKERS terminals of the unit.

Rear panel of the main unit

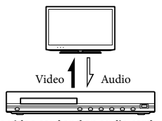




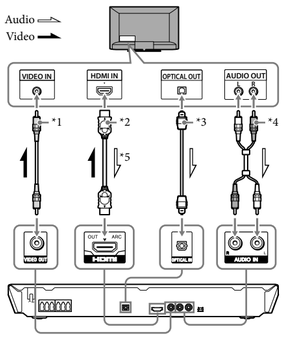
Connecting your TV

Depending on the jacks on your TV or set-top box, select the video and audio connection method.

When connecting to a TV only
The TV has OPTICAL OUT or AUDIO OUT jacks:

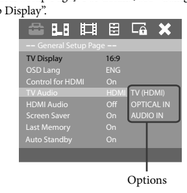


Connecting a video cord and an audio cord
Select *1 or *2 for the video connection based on the jacks on the TV.
Select *3 or *4 for the audio connection based on the jacks on the TV.



When connecting the ARC (Audio Return Channel) compatible TV
Making an HDMI cable connection enables this system to output TV sound when the TV is compatible with the ARC function.*5

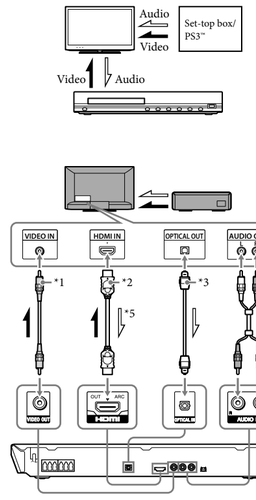
Select [TV (HDMI)] manually from [TV Audio] in [General Setup Page]. For details, see "Using the Setup Display".



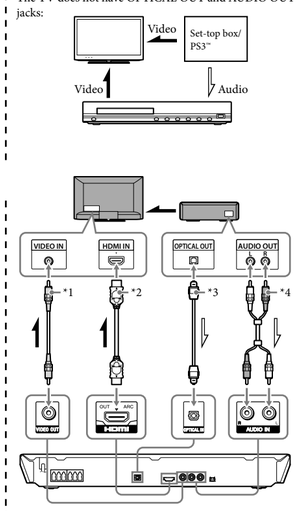
Note
- To output the TV sound via the connected optical cable, select [OPTICAL IN] from [TV Audio] in [General Setup Page].
- To output the TV sound via the connected analog cable, select [AUDIO IN] from [TV Audio] in [General Setup Page].

When connecting a TV and set-top box/PlayStation®3

The TV has OPTICAL OUT or AUDIO OUT jacks:

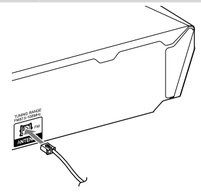


The TV does not have OPTICAL OUT and AUDIO OUT jacks:



*1 Supplied only in certain areas. This is the basic connection via video cord (yellow).
*2 Supplied only in certain areas. Picture quality will be improved compared to a video cord.
*3 Sold separately. Sound quality will improved compared to audio cord.
*4 Sold separately. To listen to TV audio via the system, connect with an audio cord (red and white).
*5 Available only when your TV is compatible with the ARC function.

Connecting the FM wire antenna (aerial)

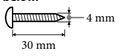


Note
- Find a location and an orientation that provide good reception, and then set up the antenna.
- Set up the antenna away from the AC power cord (mains lead), other cables, and metal objects such as windows.

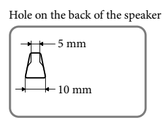
When Installing the Speakers on a Wall

Caution
- Contact a screw shop or installer for information regarding the wall material or screws to be used.
- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam. Install the speakers on a vertical and flat wall where reinforcement is applied.
- Sony is not responsible for accidents or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

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

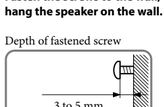


Hole on the back of the speaker

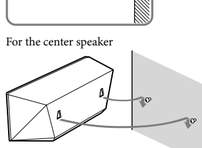


2 Fasten the screws to the wall, then hang the speaker on the wall.

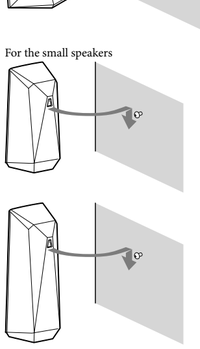
Depth of fastened screw



For the center speaker



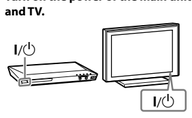
For the small speakers



Color System Setup

1 Connect the AC power cord (mains lead).

2 Turn on the power of the main unit and TV.



3 Press FUNCTION repeatedly or DVD/ CD to switch the function to DVD/CD.
Playback starts automatically if a disc with an auto playback function is loaded. Press ■ twice to stop playback.

4 Switch the input selector on your TV to display "Home Theatre System."

5 Press SETUP in stop mode.
The Setup Menu appears.

6 Press ←/→ repeatedly to select [Preference Page], then press ⊕.

7 Press ↑/↓ repeatedly to select [TV Type], then press ⊕.

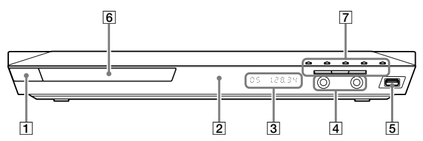
8 Press ↑/↓ repeatedly to select [PAL] or [NTSC] from the displayed list, then press ⊕.

9 Press SETUP to turn off the Setup Menu.

Note
- The display on the TV screen may be interrupted momentarily after changing the color system as described above.

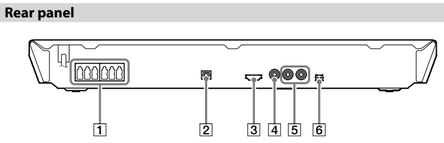
Parts and Controls

Front panel



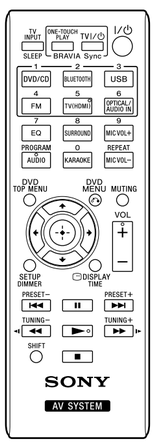
1 I/⏻ (on/standby)
Turns on the unit, or sets it to standby mode.
2 Remote sensor
3 Front panel display
4 MIC 1/MIC2 jacks
5 Ψ(USB) port
Used for connecting a USB device.
6 Disc tray
7 Play operation buttons
▲ (open/close)
Opens or closes the disc tray.
► (play)
Starts or re-starts playback (resume play).
■ (stop)
Stops playback and remembers the stop point (resume point).
The resume point for a title/track is the last point you played.
VOL –/+
Adjusts the system's volume.
FUNCTION
Selects the playback source.
I◄◄ /►►I (previous/next)

Rear panel



1 SPEAKERS terminals
2 OPTICAL IN jack
3 HDMI OUT jack
4 VIDEO OUT jack
5 AUDIO IN jacks
6 FM ANTENNA jack

Remote control



SHIFT
Press and hold this button to use buttons with purple text labels.
TV INPUT*
Switches the TV's input source between the TV signal and other input sources.
SLEEP
Sets the sleep timer.
BRAVIA Sync
ONE-TOUCH PLAY
Activates One-Touch Play.
TV I/⏻ (on/standby)*
Turns on the TV or sets it to standby mode.
I/⏻ (on/standby)
Turns on the system or sets it to standby mode.
Function selection buttons
Select the playback source.
DVD/CD
BLUETOOTH
USB
FM
TV (HDMI)
OPTICAL/AUDIO IN
Switches the sound source between OPTICAL IN and AUDIO IN.
EQ
Selects equalizer mode.
SURROUND
Selects surround audio output mode.
MIC VOL +
Increases the microphone volume.
AUDIO
Selects the audio format/track and FM mode.
KARAOKE
Opens or closes the Karaoke Setup menu.
MIC VOL –
Decreases the microphone volume.
Number buttons
Enter the title/chapter numbers, preset radio stations, etc.
PROGRAM
Activates program play and presets radio stations.
REPEAT
Activates repeat/shuffle playback mode.
DVD TOP MENU
Opens the DVD's Top Menu.
DVD MENU
Opens or closes the DVD's menu.
MUTING
Turns off the sound temporarily.
←/↑/↓/→
Moves the highlight to a displayed item.
⊕ (ENTER)
Enters the selected item.
VOL +/–
Adjusts the volume.
SETUP
Opens or closes the setup menu.
DIMMER
Switches the brightness of the front panel display between DIM OFF and DIM ON.
DISPLAY
Opens or closes the Display Menu.
TIME
Switches time information during playback.
Playback operation buttons
I◄◄ /►►I (previous/next)
◄◄/►► (fast reverse/fast forward)
◄I/I► (slow)
Activates slow reverse/slow forward when ◄◄/►► is pressed in pause mode.
❚❚ (pause)
► (play)
■ (stop)
Radio operation buttons
PRESET +/–
TUNING +/–

* Works with Sony TVs only. Depending on your TV, you may not be able to use some of the buttons.

Continued

Playing a Disc

1 Press DVD/CD.
You can also select this function by pressing FUNCTION repeatedly.

2 Press ⏏ to open the disc tray.

3 Place a disc on the tray, then press ⏏.

With the label side up.

4 Press ► to start playback.

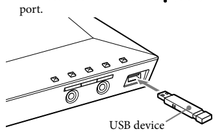
5 Press VOL +/– to adjust the volume.

Playing Files on a Disc/USB Device

1 Press DVD/CD or USB.
- DVD/CD: For a disc.
- USB: For a USB device.

You can also select the function by pressing FUNCTION repeatedly.

2 Load the source.
■ For a disc
Place a disc on the tray by pressing ⏏ to open/close the disc tray.
■ For a USB device
Connect a USB device to the Ψ (USB) port.



USB device

3 Press ↑/↓ to select a folder, then press ⊕ and select a file.

4 Press ► to start playback.

5 Press VOL +/– to adjust the volume.

Note
- Do not remove the USB device during operation. To avoid data corruption or damage to the USB device, turn the system off when connecting or removing the USB device.
- Depending on the disc/USB device, files may not play back.

Using the *Bluetooth* function

You can listen to music from your *Bluetooth* mobile phone or *Bluetooth* device over a wireless connection.
This system supports the *Bluetooth* A2DP and AVRCP profiles. For details on *Bluetooth* wireless technology, see "*Bluetooth* wireless technology".

About the indicator for *Bluetooth*
The blue indicator on the front panel display, lights or flashes to show the *Bluetooth* status.

System status	Indicator
The system is pairing/ waiting	Flashes quickly.
The system is connecting with a *Bluetooth* device	Flashes slowly.
The system has established in connection with a *Bluetooth* device	Lights up.
The system is not in the *Bluetooth* mode	Turns off.

Note
- For details on operation of the connected devices, refer to the operating instructions supplied with the devices.
- The *Bluetooth* devices to be connected must support A2DP (Advanced Audio Distribution Profile).

About pairing
Pairing is an operation where *Bluetooth* devices are registered with each other beforehand. Use the procedure below to pair the system with your *Bluetooth* device. Once a pairing operation is performed, it does not have to be performed again. However, pairing is to be repeated in the cases listed below.
- Pairing information is deleted by repairing the system.
- This system can be paired with up to eight devices. If a further device is paired, the pairing information of the device with the oldest connection date is overwritten with new information.
- The connection history with this system is deleted on the connected device.
- The system is reset to its default status.

Pairing this system with a *Bluetooth* device

Pairing is performed as described below.

1 Place the system and a *Bluetooth* device within 1 meter of each other.

2 Press BLUETOOTH.
"BT READY" appears in the front panel display.

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 "SONY DVD HOME THEATRE SYSTEM" on the *Bluetooth* device display.
On some *Bluetooth* devices, the list may not be displayed.
If a Passkey is requested, enter "0000". Perform this step within 5 minutes, otherwise pairing will be canceled.

5 Once pairing is completed, the device is automatically connected to the system.
When the *Bluetooth* connection is made correctly, the indicator of the front panel display lights and the pairing information is stored in the system.

Note
- Use a *Bluetooth* device such as *Bluetooth* mobile phone in an easily visible place in the same room where the main unit is placed.
- If Wi-Fi equipment is used, *Bluetooth* communication may become unstable. In that case, use the *Bluetooth* device as close as possible to the main unit.
- Sound may be interrupted because of a problem with the *Bluetooth* device.
- "Passkey" may be called "Passcode," "PIN code," "PIN number" or "Password," etc., depending on the device.
- The pairing standby status of the system is canceled after about 5 minutes and the indicator on the front panel display turns off. If pairing is not successful, repeat the procedure from step 1.

Listening to music with the *Bluetooth* connection

The system supports SCMS-T content protection. You can listen to a *Bluetooth* device that supports SCMS-T content protection.
Before starting music playback, check the following:
- The *Bluetooth* function on the *Bluetooth* device is on.
- The pairing procedure is completed on both this system and *Bluetooth* device.

1 Press BLUETOOTH.
"BT AUDIO" appears in the front panel display.

2 Start the *Bluetooth* connection from the *Bluetooth* device.
The indicator of front panel display lights when the *Bluetooth* connection is established.

3 Start playback on the *Bluetooth* device.

4 Adjust the volume.
Set the volume of the *Bluetooth* device to a moderate level and press the VOL +/- buttons on the remote control.

Tip
- When you press ► on the remote control in step 2, the *Bluetooth* connection will be made with the device that was connected last time.

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

Finishing the *Bluetooth* connection

Terminate the *Bluetooth* connection by any of the operations listed below.
- Operate the *Bluetooth* device to terminate the connection. For details, refer to the operating instructions supplied with the device.
- Turn off the *Bluetooth* device.
- Turn off the system.
- Select any function except "BT AUDIO".

Other Playback Operations

To change angles

Press ▭ DISPLAY during playback to select the desired angle. (This applies to DVD VIDEOs only.)

To display subtitles

Press ▭ DISPLAY during playback to select the desired subtitle language. (This applies to DVD VIDEOs only.)

To change the sound

Press AUDIO repeatedly during playback to select the desired audio signal.
– When the system is playing a DVD VIDEO recorded in multiple audio formats (PCM, Dolby Digital, or MPEG audio), you can change the audio format. If the DVD VIDEO is recorded with multilingual tracks, you can also change the language.
– With a VIDEO CD or 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.

To play a VIDEO CD with PBC functions

When you start playing a VIDEO CD with PBC (Playback control) functions, the menu for your selection appears.

To play without using PBC
In stop mode, press and hold SHIFT, then press the number buttons to select the track number you want.

To search for a title/chapter/ track/scene, etc.

■ When playing a DVD/VCD

1 Press ▭ DISPLAY during play.
The Display Menu appears on the TV screen.

2 Press ↑/↓ to select an option, then press ⊕.

3 Press and hold SHIFT, then press the number buttons to jump to the desired option.

■ When playing a CD

1 Press ▭ DISPLAY during play.
The selection display appears on the TV screen.

2 Press and hold SHIFT, then press the number buttons to select the desired track.

■ When playing a video/music/photo file

1 Press ▭ DISPLAY during play.
The selection display appears on the TV screen.

2 Press and hold SHIFT, then press the number buttons to select the desired number.

To play in programmed order

Select the tracks to play in the order you want (only for CDs).

1 Press and hold SHIFT, then press PROGRAM.
The Program Menu display appears on the TV screen.

2 Press and hold SHIFT, then press the number buttons to select the desired track.

3 Press ←/↑/↓/→ to select [Start] to play the program.

To play repeatedly/shuffle, etc.

Press and hold SHIFT, then press REPEAT repeatedly to select the desired playback mode. The selected mode appears in the front panel display.
- "REP CHP": Repeats the current chapter.
- "REP TT": Repeats the current title.
- "REP ALL": Repeats all titles.
- "REP TRK": Repeats the current track.
- "REP OFF": The system returns to normal playback mode.
- "SHUFFLE": Plays the contents once in random order until all the contents have been played.
- "SHUF REP": Repeats shuffle play.
- "FOLDER": Plays the current folder.
- "RANDOM": Plays all files in random order.
- "SINGLE": Plays the current file.
- "REP ONE": Repeats the current file.
- "REP FLD": Repeats the current folder.

Note
- The selectable modes and their order differ depending on the disc or file.

Selecting the Sound Effect

To select an equalizer setting

Press EQ to display the current mode. While the current mode is displayed, press EQ repeatedly until the desired mode appears on the front panel display.
- "AUTO": Automatically selects the movie or music sound mode based on the disc type.
- "MOVIE": Enjoyable, powerful bass and sound effects; recommended for movies.
- "MUSIC": Well-balanced low and high range; recommended for music.
- "TV": Clear, mid-range vocals; recommended for watching dramas or comedies.
- "GAME": Enhanced low and high range; recommended for action or shooting games, etc.

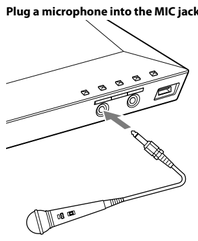
To select a surround setting

Press SURROUND to display the current mode. While the current mode is displayed, press SURROUND repeatedly to select the desired surround audio output mode. The selected mode appears in the front panel display.
- "MULTI" (A.F.D. MULTI): When the source is 2 channel, sound is output from all speakers.
- "STANDARD" (A.F.D. STANDARD): The system discriminates the sound format of the source and presents sound as it was recorded/encoded.
- "DOLBY PL" (PRO LOGIC): Performs Dolby Pro Logic decoding.
- "2CH ST" (2CH STEREO): All formats are downmixed to 2 channels.

Note
- Depending on the playback stream, the surround settings may not be effective.

Enjoying Karaoke

1 Plug a microphone into the MIC jack.



The system enters karaoke mode.

2 Start audio playback following the Steps in "Playing a Disc" or "Playing Files on a Disc/USB Device".

3 Sing along to the audio.
Press MIC VOL +/– to adjust the microphone volume.

Note
- Before connecting, press MIC VOL – to set the microphone volume to minimum.
- Microphone sound is not output when:
  – the microphone is not connected to the unit properly.
  – the microphone volume is set to minimum.
  – you use a microphone other than the monaural dynamic type.

To add an echo effect

1 Press KARAOKE.
The Karaoke Setup menu appears.

2 Press ↑/↓ to select [Echo Level] , then press ⊕.

3 Press ↑/↓ to change the echo level.
To cancel the echo effect, select echo level "0".

Note
- If howling occurs:
  – Move the microphone away from the speakers.
  – Lower the microphone volume or echo level.
  – Lower the overall volume.

Changing the key of a song (Key Control)

You can change the key to suit your vocal range, except when the system is in stop mode.

1 Press KARAOKE.
The Karaoke Setup menu appears.

2 Press ↑/↓ to select [Key Control], then press ⊕.

3 Press ↑/↓ to change the key.

Note
- Depending on the source, you may not be able to change the key.
- The key returns to the original when:
  – the unit is turned off.
  – the playback source is changed.
  – a disc or a USB device is removed.

Using a Tuner

To preset radio stations

You can preset 20 FM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

1 Press FM.

2 Press and hold TUNING +/– for 2 seconds to start tuning until you find the desired radio station.
"SEARCH +" or "SEARCH –" appears in the front panel display until a radio station with sufficient signal strength is found.

3 Press and hold SHIFT, then press PROGRAM.
"P 01" flashes in the front panel display.

4 Press and hold SHIFT, then press the number buttons to select a preset number.

5 Press ⊕ to store the station frequency.

To select a preset radio station

1 Press FM.

2 Press PRESET +/– to select a preset number.
You can also select a preset number by pressing and holding SHIFT, then pressing the number buttons.

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

Press AUDIO.
"STEREO": Stereo reception.
"MONO": Monaural reception.

Convenient Functions

About the Control for HDMI function ("BRAVIA" Sync)

You can control a TV compatible with the Control for HDMI function by connecting it to the system via an HDMI cable.

Available features
- One-Touch Play
  With one touch of ONE-TOUCH PLAY on the remote control, the system and your TV automatically turn on and the TV's input is switched to the system; playback of a disc starts automatically.
- System Power Off
  When you turn the TV off by using the I/⏻ button on the TV's remote control or TV I/⏻ on the system's remote control, the system turns off automatically.
- System Audio Control
  You can switch the audio output to either the TV speakers or this system's speakers via the TV's menu.

Sleep timer

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

Press and hold SHIFT, then press SLEEP.
Each time you press this button, the minute display (the remaining time) changes by 10 minutes.
A countdown of the last 20 seconds until the unit turns off appears in the front panel display.

To check the remaining time
Press and hold SHIFT and SLEEP for 3 seconds. The remaining time until the unit turns off appears in the front panel display.

To cancel the sleep timer function
Press and hold SHIFT, then press SLEEP repeatedly until "OFF" appears in the front panel display.

To view information about the disc

You can check the playing time and remaining time of the current title, chapter, or track.

Press and hold SHIFT, then press TIME repeatedly.
Each time you press and hold SHIFT, then press TIME while playing the disc, the displayed item changes depending on the disc.

To change the Brightness of the Front Panel Display

You can change the brightness of the front panel display.

Press and hold SHIFT, then press DIMMER.

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 your TV's color

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).

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.

On cleaning discs
- 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 back 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.

On heat radiation
Due to the slim type of main unit design, you may feel some heat on the top of the unit. This is normal. Please consult your nearest Sony dealer if you have any questions.

Using the Setup Display

You can make various adjustments to items such as picture and sound.
Displayed items vary depending on the country model.
The default setting is underlined.

1 Press DVD/CD, then eject the disc.

2 Press SETUP.
The setup menu appears.

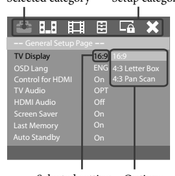
3 Press ←/→ to select one of the setup menu categories, then press ⊕.

4 Press ↑/↓ to select a setup item, then press → or ⊕.

5 Select the option you wish to change and press ⊕ to confirm and go back to the previously selected item.

6 Press SETUP to turn off the menu.

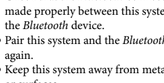
Selected category / Setup categories



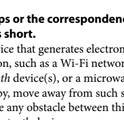
Selected setting / Options

General Setup Page

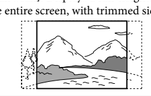
■ [TV Display]
[16:9]: Select this when you connect a wide-screen TV or a TV with a wide mode function.



[4:3 Letter Box]: Displays a wide picture with black bands on the top and bottom.



[4:3 Pan Scan]: Displays a full-height picture on the entire screen, with trimmed sides.



■ [OSD Lang] (On-Screen Display)
You can switch the display language on the TV screen.

■ [Control for HDMI]
This function is available when you connect the system and a TV that is compatible with the Control for HDMI function via an HDMI cable.
[On]: You can operate mutually between components that are connected via an HDMI cable.
[Off]: Off.

■ [TV Audio]
This function is available when you connect the system and a TV that is compatible with the Control for HDMI function, via an HDMI cable.
[TV(HDMI)]
The system can receive the digital audio signal of the TV via an HDMI cable.
[OPTICAL IN]
The system can receive the digital audio signal of the TV via an optical cable.
[AUDIO IN]
The system can receive the analog audio signal of the TV via an analog cable.

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

■ [HDMI Audio]
This setting is only required if you are using the HDMI OUT jack for an audio connection.
[Off]: Turns off HDMI audio output. You can still enjoy sound output via the speaker system.
[All]: The HDMI audio output format will be same as the audio stream being played. If the playback audio format is not supported, the audio output will be changed to PCM automatically.
[PCM]: HDMI audio output will be downmixed to linear PCM (2-channel).

■ [Screen Saver]
[On]: The screen saver image appears if you do not operate the system for about 15 minutes.
[Off]: Off.

■ [Last Memory]
This system recalls the point where you stopped the disc the last time it was played and resumes playback from that point the next time you insert the same disc.
[On]: The system stores the resume points in memory.
[Off]: The system does not store the resume points in memory. Playback restarts at the resume point only for the current disc in the unit.

Note
- When the resume playback memory is full, the resume playback point for the earliest disc is deleted.

■ [Auto Standby]
[On]: Enters standby mode automatically when in stop, pause, no disc, or eject mode for more than 20 minutes.
[Off]: The unit does not enter standby mode automatically.

Speaker Setup Page

■ [Level]
You can adjust the sound level of all the speakers and the subwoofer.
[L]: Adjusts the sound level of left speaker. It is possible to adjust the parameter from -6.0 dB to +0.0 dB.
[C]: Adjusts the sound level of center speaker. It is possible to adjust the parameter from -6.0 dB to +6.0 dB.
[R]: Adjusts the sound level of right speaker. It is possible to adjust the parameter from -6.0 dB to +0.0 dB.
[SR]: Adjusts the sound level of right surround speaker. It is possible to adjust the parameter from -6.0 dB to +6.0 dB.
[SL]: Adjusts the sound level of left surround speaker. It is possible to adjust the parameter from -6.0 dB to +6.0 dB.
[SW]: Adjusts the sound level of subwoofer. It is possible to adjust the parameter from -6.0 dB to +6.0 dB.

■ [Distance]
If you move one of the speakers, be sure to set the parameters of the distance from the listening position to speakers.
[L/R]: Adjusts the distance of the left/right speakers. It is possible to adjust the parameter from 1.0 m to 7.0 m.
[C]: Adjusts the distance of the center speaker. This parameter can be set between 1.6 m shorter and equal to the L/R channel setting.
[SL/SR]: Adjusts the distance of the left/right surround speaker. This parameter can be set between 5.0 m shorter and equal to the L/R channel setting.

■ [Center Speaker]
[On]: Activates the center speaker.
[Off]: Deactivates the center speaker.

■ [Sur. Speaker]
[On]: Activates the surround speakers.
[Off]: Deactivates the surround speakers.

■ [Test Tone]
The speakers will emit a test tone to set the Level.
[On]: The speakers emit the test tone.
[Off]: The speakers do not emit the test tone.

Tip
- To adjust the volume of all speakers, press VOL +/– on the unit or on the remote control.
- Press ←/↑/↓/→ repeatedly to select the speaker and the desired level or distance.

■ [Audio DRC]
You can compress the dynamic range of the sound track.
[Off]: No compression of dynamic range.
[Standard]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.

■ [A/V Sync]
If sound does not match the picture, you can adjust the delay between picture and sound.
[Off]: Off.
[On]: You can adjust the delay between the picture and sound.

Note
- Depending on the input stream, [A/V Sync] may not be effective.

Video Setup Page

■ [HDMI Resolution]
You can select the type of video signal that is output from the HDMI OUT jack.
[Auto]: The system outputs the optimal video signal for the connected TV.
[480p/576p]: The system outputs 720 × 480p* or 720 × 576p* video signals.
[720p]: The system outputs 1280 × 720p* video signals.
[1080i]: The system outputs 1920 × 1080i* video signals.
[1080p]: The system outputs 1920 × 1080p* video signals.
* i: interlace, p: progressive

Preference Page

■ [TV Type]
The TV type default setting varies depending on the area.
[PAL]: For a PAL-system TV.
[NTSC]: For an NTSC-system TV.

■ [Audio]
You can select the preferred audio language for DVDs with multiple sound tracks.

■ [Subtitle]
You can switch the language of the subtitles recorded on a DVD VIDEO.

■ [Disc Menu]
You can switch the language for a disc's menu.

■ [Parental]
You can restrict playback of DVDs that have ratings. Scenes may be blocked or replaced with different scenes.

1 Press ↑/↓ to select a rating level from 1 to 8 or [Off], then press ⊕.

2 Press and hold SHIFT, then press the number buttons to enter your 6-digit password.

■ [Default]
This feature enables you to reset all the setup menu options and your personal settings to the factory defaults, except for your password for the [Password] and [Parental] items.
Press ⊕ to confirm the default reset.

Password Setup Page

■ [Password]
The default password is "000000." To change the password:

1 Press and hold SHIFT, then press the number buttons to enter "000000" or your last set 6-digit password in the [Old Password] section.

2 Press and hold SHIFT, then press the number buttons to enter a new 6-digit password in the [New Password] section.

3 Press and hold SHIFT, then press the number buttons to enter the new 6-digit password again in the [Confirm PWD] section to confirm your entry.

4 Press [OK] to exit the menu.

Precautions

On placement
- 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 install the system near heat sources such as radiators or 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.
- Do not place heavy objects on the system.

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

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

Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.
Note that if service personnel changes some parts during repair, these parts may be retained.

Power

The power is not turned on.
- Check that the AC power cord (mains lead) is connected securely.

Sound

The sound doesn't output from the surround speakers.
- Press SURROUND repeatedly and select "DOLBY PL" (PRO LOGIC) to output sound from all speakers.
  (Depending on the media, sound may not be output from the surround speakers.)

The [Speaker Setup Page] items cannot be changed.
- Press DVD/CD, then eject the disc.

There is no sound. Severe hum or noise is heard.
- Remove the speaker cords from the SPEAKERS terminals, straighten and extend the contact area of each speaker cord, then reconnect the speaker cords to the SPEAKERS terminals.
- Clean the disc.

The sound loses stereo effect when you play a VIDEO CD or CD.
- Set the audio setting to [Stereo] by pressing AUDIO.

Bluetooth

There is no sound.
- Make sure this system is not too far from the *Bluetooth* device, or this system is not receiving interference from a Wi-Fi network, other 2.4 GHz wireless device, or microwave oven.
- Check that the *Bluetooth* connection is made properly between this system and the *Bluetooth* device.
- Pair this system and the *Bluetooth* device again.
- Keep this system away from metal objects or surfaces.
- Make sure this system is in *Bluetooth* mode.

Sound skips or the correspondence distance is short.
- If a device that generates electromagnetic radiation, such as a Wi-Fi network, other *Bluetooth* device(s), or a microwave oven is nearby, move away from such sources.
- Remove any obstacle between this system and *Bluetooth* device, or move away from the obstacle.
- Locate this system and *Bluetooth* device as near as possible.
- Re-position this system.
- Re-position the *Bluetooth* device.

Connecting cannot be done.
- Perform pairing again.

Pairing cannot be done.
- Bring this system and the *Bluetooth* device closer together.
- Delete the system from your *Bluetooth* device and perform pairing again.

Picture

There is no picture.
- The video connecting cords are not connected securely.
- The unit is not connected to the correct TV input jack.
- The system is not selected via the video input of the TV.
- Check the output method on your system.

Even though you set the aspect ratio in [TV Display] of [General Setup Page], the picture does not fill the TV screen.
- The aspect ratio on the disc is fixed.

Color irregularity occurs on the TV screen.
The system's speakers contain magnet parts, so magnetic distortion may occur. When color irregularity occurs on the TV screen, check the following items.
- Install the speakers at least 0.3 meters from your TV set.
- If the color irregularity persists, turn off the TV set once, then turn it on after 15 to 30 minutes.
- Reposition the speakers farther away from your TV set.

The [TV Type] setting does not match your TV.
[TV Type] can be reset according to the following procedure:
1. Press ⏏ to take out the disc.
2. Press ▭ DISPLAY.
3. Press ⊕.

[TV Type] will be reset.

Operation

"PROTECT" appears in the front panel display.
- Connect all channels to their corresponding SPEAKERS terminals correctly.
- Press I/⏻ to turn off the system, and check the following items after "STANDBY" disappears:
  – Are the + and – speaker cords short-circuited?
  – 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.

A disc cannot be ejected and "LOCKED" appears in the front panel display.
- Contact your Sony dealer or local authorized Sony service facility.

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.

A disc does not play.
- The region code on the 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.

A DATA CD/DATA DVD cannot be played.
- The DATA CD is not recorded in ISO 9660 Level 1/Level 2, or Joliet.
- The DATA DVD is not recorded in UDF (Universal Disk Format).

A JPEG image file cannot be played.
- It is larger than 2,048 (width) × 1,536 (height) in normal mode, or more than 2,000,000 pixels in progressive format which is mainly used on Internet Web sites.

A video file cannot be played.
- The video file resolution is larger than 720 (width) × 576 (height).

The name of a folder or file is not displayed correctly.
- The system can only display numbers and letters of the alphabet. Other characters are displayed as [_].

A disc does not start playing from the beginning.
- Resume Play has been selected. During stop, press ■ and then start playback.
- Program play has been selected. During stop, press ■ and then start playback.
- Shuffle play has been selected. During stop, press ■ and then start playback.

The system does not work normally.
- Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.

The Control for HDMI function does not work.
- Set the [Control for HDMI] setting in [General Setup Page] to [On].
- Make sure that the connected component is compatible with the Control for HDMI function.
- Check the connected component's setting for the Control for HDMI function. Refer to the operating instructions supplied with the component.

USB device

"OVERLOAD" appears in the front panel display.
- Remove the USB device from the Ψ (USB) port. Make sure there is no problem with the USB device.

The USB device (audio file/JPEG image file) cannot be played.
- Files that are encrypted or protected by passwords, etc., cannot be played.
- There is no playable file in the USB device.

Specifications

Amplifier Section
POWER OUTPUT (rated):
Front L + Front R: 100 W + 100 W (at 3 ohms, 1 kHz, 1% THD)
POWER OUTPUT (reference):
Front L/Front R/ Center/Surround L/ Surround R: 167 W (per channel at 3 ohms, 1 kHz)
Subwoofer: 165 W (at 3 ohms, 100 Hz)

Inputs
AUDIO IN and OPTICAL IN jacks

CD/DVD System
Laser Diode Properties
Emission Duration: Continuous
Laser Output*: Less than 44.6 μW
* This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

USB Section
Ψ (USB) port:
Maximum current: 500 mA

***Bluetooth* section**
Communication system: *Bluetooth* Specification version 2.1 + EDR (Enhanced Data Rate)
Output: *Bluetooth* Specification Power Class 2
Maximum communication range: Line of sight approx. 10 m*1
Frequency band: 2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method: FHSS (Freq Hopping Spread Spectrum)
Compatible *Bluetooth* profiles*2: A2DP (Advanced Audio Distribution Profile)
AVRCP 1.0 (Audio Video Remote Control Profile)
Supported Codecs*3: SBC*4
Transmission range (A2DP): 20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, operating system, software application, etc.
*2 *Bluetooth* standard profiles indicate the purpose of *Bluetooth* communication between devices.
*3 Codec: Audio signal compression and conversion format
*4 Subband Codec

Tuner Section
System: PLL quartz-locked digital synthesizer
Tuning range: 87.5 MHz - 108.0 MHz (50 kHz step)
Antenna: FM lead antenna

Video Section
Outputs: VIDEO: Pin jack
HDMI OUT: HDMI 19-pin

Speakers
Front
DAV-DZ350 (SS-TS124)
Dimensions (approx.): 92 mm × 272 mm × 97 mm (w/h/d) incl. projecting parts
Mass (approx.): 0.65 kg
DAV-DZ650/DAV-DZ950 (SS-TS125)
Dimensions (approx.): 260 mm × 1,125 mm × 260 mm (w/h/d) incl. projecting parts
Mass (approx.): 2.7 kg
Center
SS-CT123
Dimensions (approx.): 241 mm × 92 mm × 85 mm (w/h/d) incl. projecting parts
Mass (approx.): 0.60 kg
Surround
DAV-DZ350/DAV-DZ650 (SS-TS123)
Dimensions (approx.): 91 mm × 203 mm × 92 mm (w/h/d) incl. projecting parts
Mass (approx.): 0.55 kg
DAV-DZ950 (SS-TS125)
Dimensions (approx.): 260 mm × 1,205 mm × 260 mm (w/h/d) incl. projecting parts
Mass (approx.): 2.7 kg
Subwoofer
SS-WS123
Dimensions (approx.): 230 mm × 365 mm × 360 mm (w/h/d) incl. projecting parts
Mass (approx.): 6.3 kg
General
Power requirements: 220 V - 240 V AC, 50/60 Hz
Power consumption: On: 70 W
Standby: 0.3 W*

* *Valid when the system is in the following status:*
– *[Control for HDMI] is set to [Off].*

Dimensions (approx.): 430 mm × 54 mm × 306 mm (w/h/d) incl. projecting parts
Mass (approx.): 2.7 kg

Design and specifications are subject to change without notice.

http://www.sony.net/