

DVD Home Theatre System

Operating Instructions
DAV-HDX287WC



















WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

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

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

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

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

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

Excessive sound pressure from earphones and headphones can cause hearing loss.

Indoor use only.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Precautions

On power sources

- The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.
- As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

For the customers in the U.S.A.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the rear exterior of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. DAV-HDX287WC

Serial No._____

Date of Manufacture Marking is located on the bottom exterior

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (aerial).
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has

been exposed to rain or moisture, does not operate normally, or has been dropped.



ENERGY STAR® is a U.S. registered mark.

As an ENERGY STAR® partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

For the wireless transceiver (EZW-RT10/EZW-RT10A)

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65.

This equipment should be installed and operated with at least 20cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles).

Notice for the customers in Canada

For the wireless transceiver (EZW-RT10/EZW-RT10A)

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with RSS-Gen of IC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This equipment complies with IC radiation exposure limits set forth for uncontrolled equipment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment should be installed and operated with at least 20cm and more between the radiator and persons body (excluding extremities: hands, wrists, feet and ankles).

About These Operating Instructions

- The instructions in these Operating
 Instructions describe the controls on the remote. You can also use the controls on the unit if they have the same or similar names as those on the remote.
- The Control Menu items may vary depending on the area.
- "DVD" may be used as a general term for a DVD VIDEO, DVD+RW/DVD+R, and DVD-RW/DVD-R.
- Measurements are expressed in feet (ft) for North American models.
- The default setting is underlined.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

- Manufactured under license from Dolby
 Laboratories.

 Dolby Pro Logic, and the double-D symi
 - Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.
- **Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

This system incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

"DVD-RW," "DVD-R," "DVD+RW," "DVD+R," "DVD VIDEO," and the "CD" logos are trademarks.

"BRAVIA" is a trademark of Sony Corporation.

"PLAYSTATION" is a trademark of Sony Computer Entertainment Inc.

"S-AIR" and its logo are trademarks of Sony Corporation.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

About the S-AIR function

The system is compatible with the S-AIR function, which allows transmission of sound between S-AIR products wirelessly.

The following S-AIR products can be used with the system:

- Surround amplifier (optional): You can enjoy surround speaker sound wirelessly.
- S-AIR receiver (supplied): You can enjoy system sound in another room.

The surround amplifier can be purchased as an option (the S-AIR product lineup differs depending on the area).

Notes or instructions for the surround amplifier or S-AIR receiver in these Operating Instructions refer only to when the surround amplifier or S-AIR receiver is used. For details on the S-AIR function, see "Using an S-AIR Product" (page 61).

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Playable Discs

Туре	Disc logo	Characteristics	Icon
DVD VIDEO	RA.7 RW	DVD VIDEO DVD-R/DVD-RW in DVD VIDEO format or video mode DVD+R/DVD+RW in DVD VIDEO format	DVD-V
VR (Video Recording) mode	DVD+R DL	• DVD-R/DVD-RW in VR (Video Recording) mode (except for DVD-R DL)	DVD-VR
VIDEO CD	CIGITAL VIDEO	 VIDEO CD (Ver. 1.1 and 2.0 discs) Super VCD CD-R/CD-RW/CD-ROM in video CD format or Super VCD format 	VIDEO CD
Super Audio CD	SUPER AUDIO CD	Super Audio CD	Super Auto CD
CD	DIGITAL AUDIO	Audio CD CD-R/CD-RW in audio CD format	CD
DATA CD	-	• CD-R/CD-RW/CD-ROM in DATA CD format, containing MP3 files ¹⁾ and JPEG image files ²⁾ , and conforming to ISO 9660 ³⁾ Level 1/Level 2, or Joliet (extended format)	DATA-CD
DATA DVD	-	• DVD-ROM/DVD-R/DVD-RW/ DVD+R/DVD+RW in DATA DVD format, containing MP3 files ¹⁾ and JPEG image files ²⁾ , and conforming to UDF (Universal Disk Format)	DATA DVD

¹⁾MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG for compresses audio data. MP3 files must be in MPEG1 Audio Layer 3 format.

²⁾ JPEG image files must conform to the DCF image file format. (DCF "Design rule for Camera File system": Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEJTA).)

³⁾A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

Notes on discs

This product is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this product.

Example of discs that the system cannot play

The system cannot play the following discs:

- CD-ROM/CD-R/CD-RW other than those recorded in the formats listed on page 7
- · CD-ROM recorded in PHOTO CD format
- · Data part of CD-Extra
- · CD Graphics disc
- DVD Audio
- DATA CD/DATA DVD that does not contain MP3 files or JPEG image files
- DVD-RAM
- · Blu-ray Disc

Also, the system cannot play the following discs:

- A DVD VIDEO with a different region code (page 9)
- A disc that has a non-standard shape (e.g., card, heart)
- A disc with paper or stickers on it
- A disc that has the adhesive of cellophane tape or a sticker still left on it

Note about CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW

In some cases, CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW cannot be played on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.

The disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device.

Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs/DATA DVDs created in Packet Write format cannot be played.

About Multi Session CD

- This system can play a Multi Session CD when an MP3 file is contained in the first session. Any subsequent MP3 files recorded in later sessions can also be played back.
- This system can play a Multi Session CD when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
- If MP3 files and JPEG image files in music CD format or video CD format are recorded in the first session, only the first session will be played back.

Region code

Your system has a region code printed on the rear of the unit and will only play a DVD labeled with the same region code.

A DVD VIDEO labeled will also play on this system.

If you try to play any other DVD VIDEO, the message [Playback prohibited by area limitations.] will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be given even though playing the DVD VIDEO is prohibited by area restrictions.

Note about playback operations of a DVD or VIDEO CD

Some playback operations on a DVD or VIDEO CD may be intentionally set by software producers. Since this system will play a DVD or VIDEO CD according to the disc contents the software producers designed, some playback features may not be available. Be sure to read the operating instructions supplied with the DVD or VIDEO CD.

Getting Started

Unpacking

• Front speakers (2)



• Center speaker (1)



• Surround speakers (2)



• Subwoofer (1)



• AM loop antenna (aerial) (1)



• FM wire antenna (aerial) (1)



• Speaker cords (6, red/white/ green/gray/blue/purple)



• Video cord (1)



• Remote commander (remote) (1)



• R6 (size AA) batteries (2)



• Calibration mic (1)



• Foot pads (1 set)



• Wireless transceivers (2)



- Operating Instructions
- Quick Setup Guide
- Setup Disc (DVD)
- DIGITAL MEDIA PORT adapter (TDM-iP20) (1)



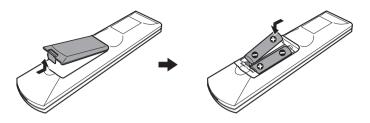
- Operating Instructions for the DIGITAL MEDIA PORT adapter (TDM-iP20)
- S-AIR receiver (AIR-SA10) (1)



• Operating Instructions for the S-AIR receiver (AIR-SA10)

Inserting batteries into the remote

Insert two R6 (size AA) batteries (supplied) by matching the \oplus and \ominus ends on the batteries to the markings inside the compartment. To use the remote, point it at the remote sensor \blacksquare on the unit.



Note

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatus. Doing so may cause a malfunction.
- If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

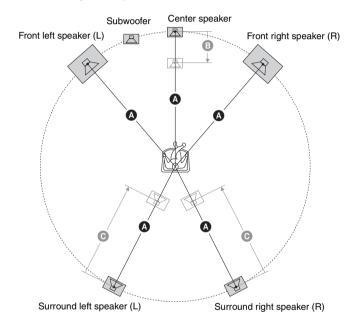
Step 1: Installing the System

Positioning the system

For the best possible surround sound, place all speakers at the same distance from the listening position (\mathbf{A}) . The distance can be between 1.0 to 7.0 meters.

If you cannot place the center speaker and surround speakers at the same distance as (**(A)**), you can move the center speaker up to 1.6 meters closer to the listening position (**(B)**), and the surround speakers up to 5.0 meters closer to the listening position (**(B)**).

The subwoofer can be placed anywhere in the room.

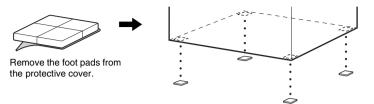


Note

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

Attaching the foot pads to the subwoofer

Attach the foot pads (supplied) to the bottom of the subwoofer to stabilize the subwoofer and prevent it from slipping.



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.

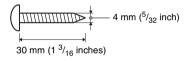
Before installing the speakers on a wall, connect the speaker cord to the speaker.

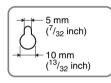
Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the color tube to \oplus , and the speaker cord without the color tube to \ominus .



Color tube Front left speaker (L): White Front right speaker (R): Red Center speaker: Green Surround left speaker (L): Blue Surround right speaker (R): Gray

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

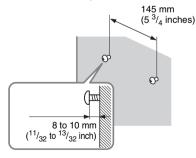




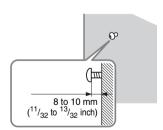
Hole on the back of the speaker

2 Fasten the screws to the wall.

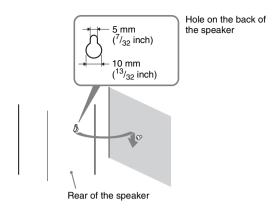
For the center speaker



For the other speakers



3 Hang the speakers on the screws.



Step 2: Connecting the System

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

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

Note

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

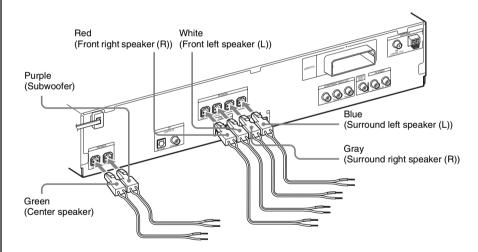
Connecting the speakers

The connector of the speaker cords and the color tube are color-coded depending on the type of speaker. Connect the speaker cords to match the color of the SPEAKER jacks of the unit.

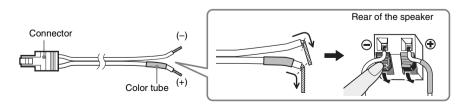
Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the color tube to \oplus , and the speaker cord without the color tube to \ominus . Do not catch the speaker cord insulation (rubber covering) in the speaker terminals.

To connect speaker cords to the unit

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



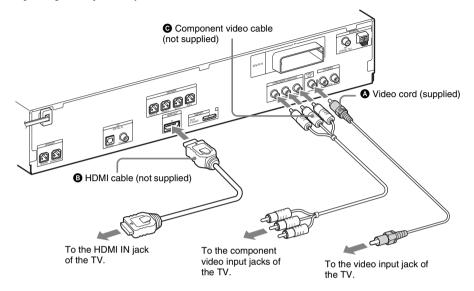
To connect speaker cords to the speaker



Connecting the TV (Video connection)

This connection sends a video signal to the TV.

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



Method 1: Video cord (♠) connection

This is the basic connection.

Method 2: HDMI* cable (③) and video cord (△) connection

If your TV has an HDMI jack, connect to the TV both with an HDMI cable and video cord. Picture quality will be improved compared to using only the video cord connection.

When connecting with the HDMI cable, you need to select the type of output signal (page 26). To view images from the DIGITAL MEDIA PORT adapter, you need to connect to the TV with the video cord. Video signals from the DIGITAL MEDIA PORT adapter are not output via the HDMI OUT jack.

* HDMI (High-Definition Multimedia Interface)

Method 3: Component video cable (♠) and video cord (♠) connection

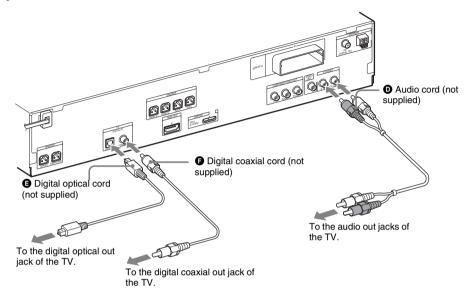
If your TV does not have an HDMI jack, but has component video input jacks, connect to the TV both with a component video cable and video cord. Picture quality will be improved compared to using only the video cord connection.

When connecting with the component video cable, you need to set the type of output signal to progressive format (page 26).

To view images from the DIGITAL MEDIA PORT adapter, you need to connect to the TV with the video cord. Video signals from the DIGITAL MEDIA PORT adapter are not output via the COMPONENT VIDEO OUT jack.

Connecting the TV (Audio connection)

This connection sends an audio signal to the unit from the TV. To listen to TV sound via the system, perform this connection.



Method 1: Audio cord (1) connection

This is the basic connection and sends an analog audio signal.

Method 2: Digital optical cord (♠) or digital coaxial cord (♠) connection

When the TV has a digital optical or coaxial output jack, you can improve sound quality by connecting with a digital optical or coaxial cord in addition to an audio cord connection.

Note

• The system can accept both digital and analog signals. Digital signals have priority over analog signals. (COAXIAL has priority over OPTICAL.) If the digital signal ceases, the analog signal will be processed after 2 seconds.

Tip

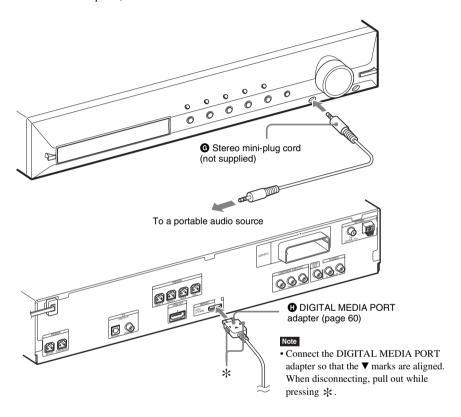
 You can connect another component, such as a VCR, digital satellite receiver, or PlayStation, to the TV/VIDEO (AUDIO IN R/L) jacks or DIGITAL IN OPTICAL/COAXIAL jacks instead of the TV.

Connecting the other components

You can enjoy connected components via the system's speakers.

Portable audio source (not supplied): **G**

DIGITAL MEDIA PORT adapter: (1) (TDM-iP20 is supplied. You can also use other DIGITAL MEDIA PORT adapters.)

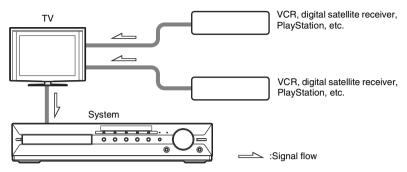


Tip

• You can connect another component, such as a VCR, digital satellite receiver, or PlayStation, to the TV/VIDEO (AUDIO IN R/L) jacks or DIGITAL IN OPTICAL/COAXIAL jacks instead of the TV.

If your TV has multiple audio/video inputs

You can enjoy sound with the speakers of the system through the connected TV. Connect the components as follows.



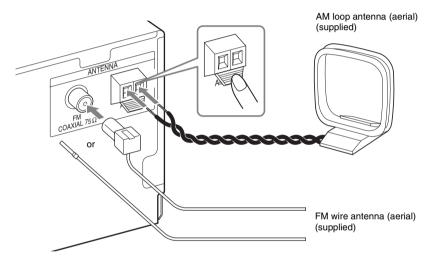
Select the component on the TV. For details, refer to the operating instructions of the TV. If the TV does not have multiple audio/video inputs, a switcher will be necessary to receive sound from more than one component.

Connecting the antenna (aerial)

To assemble the AM loop antenna (aerial)



To connect the antenna (aerial)

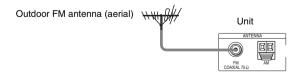


Note

- Keep the AM loop antenna (aerial) and cord away from the system or other AV components, as noise may result.
- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

Tip

- Adjust the direction of the AM loop antenna (aerial) for best AM broadcast sound.
- If you have poor FM reception, use a 75-ohm coaxial cable (not supplied) to connect the unit to an outdoor FM antenna (aerial) as shown below.

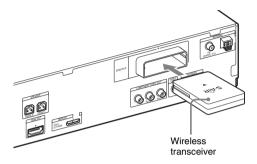


Inserting the wireless transceiver

You can transmit sound from the unit to an S-AIR product, such as a surround amplifier or S-AIR receiver.

To transmit sound from the unit, you need to insert the wireless transceivers into the unit, surround amplifier, and S-AIR receiver.

For details of S-AIR products, see "Using an S-AIR Product" (page 61).



Note

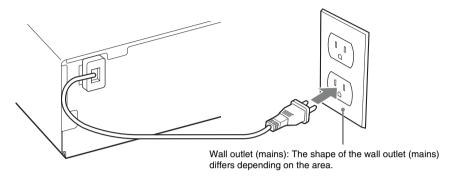
 Also, insert the wireless transceiver into the S-AIR receiver. For details, refer to the operating instructions of the S-AIR receiver.

Note

- When you insert the wireless transceiver, make sure that the AC power cord (mains lead) is not connected to a wall outlet (mains).
- Do not touch the terminals of the wireless transceiver.
- Insert the wireless transceiver so that the ▼ marks are aligned.
- Do not insert anything other than the wireless transceiver into the EZW-RT10 slot.

Connecting the AC power cords (mains leads)

Before connecting the AC power cord (mains lead) of the unit to a wall outlet (mains), connect all the speakers to the unit.



Also, connect the AC power cord (mains lead) of the S-AIR receiver to a wall outlet (mains).

About the demonstration

After connecting the AC power cord (mains lead), the demonstration appears in the front panel display.

Setting the demonstration mode to on/off

- 1 Press I/ $^{\circ}$ on the unit.
 - The system turns on.
- **2** Press SYSTEM MENU.
- 3 Press ↑/↓ repeatedly until "DEMO" appears in the front panel display, then press ⊕ or →.
- 4 Press ↑/↓ to select a setting.
 - "DEMO ON": On.
 - "DEMO OFF": Off.
- **5** Press ⊕.

The setting is made.

6 Press SYSTEM MENU.

The system menu turns off.

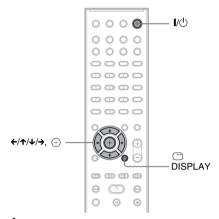
Tip

• When you purchase the system new, or if the system is at its factory default settings (ex., after performing "COLD RESET" (page 74)), you can turn off the demonstration simply by pressing \(\blacksquare{U} \end{cess} \) on the remote (except for U.S. models).

Step 3: Performing the Quick Setup

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

Displayed items vary depending on the area.



- 1 Turn on the TV.
- 2 Press I/ $^{\circ}$.

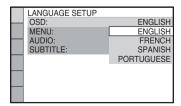
Note

- Make sure that the function is set to "DVD" (page 27).
- Switch the input selector on your TV so that the signal from the system appears on the TV screen.

[Press [ENTER] to run QUICK SETUP.] appears at the bottom of the TV screen. If this message does not appear, recall the Quick Setup display (page 25).

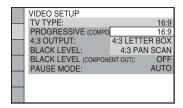
4 Press 🕀 without inserting a disc.

The Setup Display for selecting the language used in the on-screen display appears.



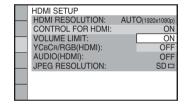
Press ↑/↓ to select a language, then press ⊕.

The Setup Display for selecting the aspect ratio of the TV to be connected appears.



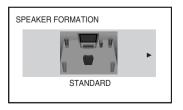
- Press ↑/↓ to select the setting that matches your TV type, then press ⊕.
 - [16:9]: For a wide-screen TV or a 4:3 standard TV with a wide-screen mode (page 49)
 - [4:3 LETTER BOX] or [4:3 PAN SCAN]: For a 4:3 standard TV (page 49)

The Setup Display for the Control for HDMI function appears.



- 7 Press ↑/↓ to select the setting, then press ⊕.
 - [ON]: The Control for HDMI function (page 58) is set to on.
 - [OFF]: The Control for HDMI function is set to off.

The Setup Display for selecting the speaker formation appears.



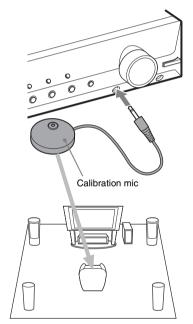
Press ←/→ to select the speaker formation image as the speakers are actually positioned, then press ⊕.

For details, see "Getting Optimal Surround Sound for a Room" (page 66).

9 Connect the calibration mic (supplied) to the A.CAL MIC jack on the front 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.



10 Press ←/→ to select [YES], then press

[AUTO CALIBRATION] starts. Be quiet during the measurement.

Note

- Loud test sounds are output when [AUTO CALIBRATION] starts. You cannot turn the volume down. Give consideration to children and neighbors.
- Before [AUTO CALIBRATION], 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.
- The environment of the room in which the system is installed may affect measurements. When the measurements differ considerably from the status of the speaker installation, perform the speaker settings manually by following "Settings for the speakers" (page 52).

11 Unplug the calibration mic, press ←/→ to select [YES], then press ⊕.

Quick Setup is finished. All connections and setup operations are complete.

To quit the Quick Setup

Press
DISPLAY in any Step.

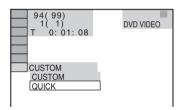
To recall the Quick Setup display

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select ☐ [SETUP], then press ⊕.

The options for [SETUP] appear.



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

The Quick Setup display appears.

Setting the type of video output to match your TV

Depending on the connection of the TV (page 17), select the type of video output of the system.

To select the type of video signal output from the HDMI OUT jack

When you connect the unit and the TV with an HDMI cable, select the type of video signals output from the HDMI OUT jack.

For details, refer also to the operating instructions supplied with the TV/projector, etc.

- 1 Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- 2 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

- 3 Press ↑/↓ to select ☐ [SETUP], then press ⊕.
 - The options for [SETUP] appear.
- 4 Press ↑/↓ to select [CUSTOM], then press ⊕.

The Setup Display appears.

5 Press ↑/↓ to select [HDMI SETUP], then press ⊕.

The options for [HDMI SETUP] appear.

- Press ↑/↓ to select [HDMI RESOLUTION], then press ⊕.
- Press ↑/↓ to select the desired setting, then press ⊕.
 - [AUTO (1920 × 1080p)]: The system outputs the optimal video signal for the connected TV.
 - [1920 × 1080i]: The system outputs 1920 × 1080i* video signals.
 - [1280 \times 720p]: The system outputs 1280 \times 720p* video signals.
 - [720 × 480p]**: The system outputs 720 × 480p* video signals.
 - * i: interlace, p: progressive

** Depending on the area, $[720 \times 480/576p]$ may appear.

Does your TV accept progressive signals?

Progressive is a method for displaying TV images which reduces flickering and sharpens the image. To use this method, you need to connect to a TV that accepts progressive signals.

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- 2 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select ☐ [SETUP], then press ⊕.

The options for [SETUP] appear.

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

The Setup Display appears.

5 Press ↑/↓ to select [VIDEO SETUP], then press ⊕.

The options for [VIDEO SETUP] appear.

- Press ↑/↓ to select [PROGRESSIVE (COMPONENT OUT)], then press ⊕.
- 7 Press ↑/↓ to select the desired setting, then press ⊕.

[OFF]: The system does not output progressive signals. Select this setting when:

- your TV does not accept progressive signals, or,
- your TV is connected via jacks other than the COMPONENT VIDEO OUT jacks.

[ON]: The system outputs progressive signals. Select this setting when:

- your TV accepts progressive signals, and,
- the TV is connected via the COMPONENT VIDEO OUT jacks.

When you select [ON], the confirmation display appears. Follow the Steps below.

Press ←/→ to select [START], then press ⊕.

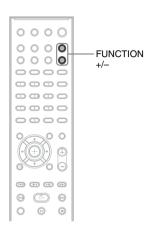
The system outputs a progressive signal for 5 seconds. Check that the screen is displayed correctly.

9 Press ←/→ to select [YES], then press ⊕.

The system outputs a progressive signal. When you select [NO], the system does not output a progressive signal.

Step 4: Selecting the Source

You can select the playback source.



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

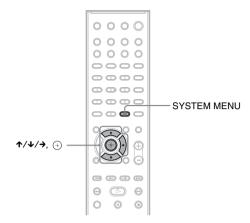
Each time you press FUNCTION +/-, the function changes as follows.

"DVD" \longleftrightarrow "TUNER FM" \longleftrightarrow "TUNER AM" \longleftrightarrow "TV/VIDEO" \longleftrightarrow "DMPORT" \longleftrightarrow "AUDIO" \longleftrightarrow ...

Function	Source
"DVD"	Disc that is played by the system
"TUNER FM"/ "TUNER AM"	FM/AM radio (page 55)
"TV/VIDEO"	TV or component that is connected to the TV/ VIDEO jacks on the rear panel
"DMPORT"	DIGITAL MEDIA PORT adapter (page 60)
"AUDIO"	Portable audio source that is connected to the AUDIO IN jack on the front panel

Step 5: Enjoying Surround Sound

You can enjoy surround sound simply by selecting one of the system's pre-programmed decoding modes. They bring the exciting and powerful sound of movie theaters into your home.



Enjoying TV sound with the 5.1 channel surround sound effect

- 1 Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "DEC. MODE" appears in the front panel display, then press

 (+) or →.
- 3 Press ↑/↓ repeatedly until "PRO LOGIC" appears in the front panel display.
- 4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Note

• When TV program sound is monaural, sound is output only from the center speaker.

Selecting surround sound effects based on your listening preference

- 1 Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "DEC. MODE" appears in the front panel display, then press

 → or →.
- 3 Press ↑/↓ repeatedly until the surround sound effect you want appears in the front panel display.

See the table below for surround sound effect descriptions.

4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

About speaker output

The table below describes the options when you connect all the speakers to the unit and you set [SPEAKER FORMATION] to [STANDARD] (page 66).

The default setting is "A.F.D. MULTI" (when connecting the headphones to the unit or surround amplifier, the default setting is "HP 2CH").

Sound from	Surround effect	Effect
Depending on the source.	"A.F.D. STD" (AUTO FORMAT DIRECT STANDARD)	The system discriminates the sound format of the source and presents sound as it was recorded/encoded.
	"A.F.D. MULTI" (AUTO FORMAT DIRECT MULTI)	2 channel source: The system outputs 2 channel sound from the front and surround speakers by assigning the 2 channel sound to the surround left and right channels. Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source.
	"PRO LOGIC" "PLII MOVIE" "PLII MUSIC"	2 channel source: The system simulates surround sound from 2 channel sources and outputs sound from all the speakers. "PRO LOGIC" performs Dolby Pro Logic decoding. "PLII MOVIE" performs Dolby Pro Logic II movie mode decoding. "PLII MUSIC" performs Dolby Pro Logic II music mode decoding. Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source.
	"2CH STEREO"	The system outputs the sound from the front speakers and subwoofer regardless of sound format or number of channels. Multi-channel surround formats are downmixed to 2 channels.
	"HP 2CH" (HEADPHONE 2 CHANNEL STEREO)	The system outputs the sound from the headphones regardless of sound format or number of channels. Multichannel surround formats are downmixed to 2 channels.

Sound from	Surround effect	Effect
	"HP VIRTUAL" (HEADPHONE VIRTUAL)	The system outputs the sound from the headphones by adding a surround effect regardless of sound format or number of channels.

To turn the surround effect off

Select "A.F.D. STD," "2CH STEREO," or "HP 2CH" for "DEC. MODE."

Note

- When the bilingual broadcast sound is input, "PRO LOGIC," "PLII MOVIE," and "PLII MUSIC" are not effective.
- You cannot select the decoding mode while the system is loading a disc.
- Depending on the input stream, the decoding mode may not be effective.
- When you select "A.F.D. MULTI," the surround or stereo effect may not be effective. In this case, select "A.F.D. STD," "PRO LOGIC," "PLII MOVIE," or "PLII MUSIC."
- When changing the decoding mode while using the S-AIR receiver, sound from the S-AIR receiver may skip.

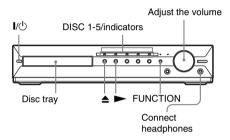
Disc

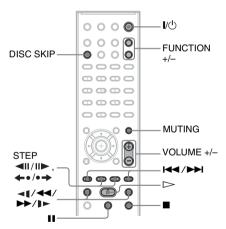
Playing a Disc

DVD-V DVD-VR VIDEO CD Super Ratio CD C D

DATA-CD DATA DVD

Depending on the DVD VIDEO or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with your disc.





- **1** Turn on your TV.
- 2 Switch the input selector on the TV to this system.
- 3 Press I/ $^{\circ}$.

The system turns on.

Unless the system is set to "DVD," press FUNCTION +/- to select "DVD."

4 Press DISC 1-5.

Press the button of the disc number you want.

When no disc is in the disc stocker you select, "NO DISC" appears in the front panel display. Perform next Step while "*DISC-1* (e.g., 2-5)" flashes.

Press on the unit to open the disc tray, and place a disc on the tray.

Place one disc on the tray, and then press \triangle .



With the label side up.

Note

- When you play an 8 cm disc, place it on the inner circle of the tray. Be careful that the disc is not skewed on the inner circle of the tray.
- Do not place more than one disc on the tray.

6 Press ⊳.

The system starts playback (continuous play) of the disc whose DISC indicator is green.

■ To load other discs

Press DISC 1-5 (any empty slot) and ≜ to load the disc.

■ To play back other discs

Press DISC SKIP on the remote or DISC 1-5 on the unit.

7 Adjust the volume by using VOLUME +/ - on the remote or the VOLUME control on the unit.

The volume level appears on the TV screen and in the front panel display.

Note

 When you set the Control for HDMI function to on, the TV that is connected to the system with an HDMI cable can be sync-operated with the system. For details, see "Using the Control for HDMI Function for "BRAVIA" Sync" (page 58).

Tip

- The DISC 1-5 indicators change their color as follows:
 - Green: the disc is selected, or the disc is being played back.
 - Off: there is no disc.
 - Orange: a disc is loaded in the disc stocker but not selected.
 - The indicator turns off if an unplayable disc is inserted.

To turn the system off

Press I(0) while the system is on. The system enters standby mode.

To save power in standby mode

Press **I**/**!** while the system is on.

To enter power saving mode, make sure that the system is in the following status.

- "DEMO" is set to "OFF" (page 23).
- [CONTROL FOR HDMI] is set to [OFF] (page 58).
- "S-AIR STBY" is set to "STBY OFF" (page 63).

To use the headphones

Connect the headphones to the PHONES jack on the unit. The sound of the system is muted. You can also connect the headphones to the PHONES jack on the surround amplifier. (The sound of the system is muted.)

Other operations

То	Press
Stop	
Pause	II
Resume play after pause	II or ▷
Go to the next chapter, track, or scene 1)	▶ ►I
Go back to the	◄ twice in a second.
preceding chapter,	When you press
track, or scene ¹⁾	you can go to the beginning
	of the current chapter,
	track, or scene.
Turn off the sound	MUTING.
temporarily	To cancel, press it again or
	press VOLUME + to adjust
	the sound volume.

То	Press
Change a disc while playing another disc	DISC SKIP
Play the desired disc directly	DISC 1-5 on the unit.
Stop play and remove the disc	DISC 1-5 and ≜ on the unit.
Locate a point quickly by playing a disc in fast forward or fast reverse (Scan) ¹⁾	▶►/I► or ◀I/◀ while playing a disc. Each time you press ▶►/I► or ◀I/◀ during scan, the playback speed changes. To return to normal speed, press ▷. Actual speeds may differ with some discs.
Watch frame by frame (Slow-motion Play) ²⁾	while the system is in pause mode. Each time you press →/I→ or ◄I/◄◀³) during Slow-motion Play, the playback speed changes. Two speeds are available. To return to normal playback speed, press ▷.
Play one frame at a time (Freeze Frame) ²⁾⁴⁾	STEP II▶ to go to the next frame while the system is in pause mode. Press STEP ◀II to go to the preceding frame while the system is in pause mode (DVD VIDEO/DVD-R/DVD-RW only). To return to normal playback, press ▷.
Replay the previous scene (10 seconds before) ⁵⁾	← • (instant replay) during playback.
Briefly fast forward the current scene (30 seconds ahead) ⁶⁾	•→ (instant advance) during playback.

¹⁾Except for JPEG image files.

Note

• Noise may come from the disc changer when changing discs or turning the system on/off.

²⁾DVD VIDEO/DVD-R/DVD-RW/VIDEO CD only.

³⁾Except for VIDEO CDs.

⁴⁾You cannot search for a still picture on a DVD-VR.

⁵⁾DVD VIDEO/DVD-RW/DVD-R only.

⁶⁾DVD VIDEO/DVD-RW/DVD-R/DVD+RW/DVD+R only.

However, this is just noise produced by the operation of the internal mechanisms and does not indicate a malfunction.

To turn on/off the DISC 1-5 indicators' illumination

When you do not operate the system for more than 30 minutes, the illumination of the DISC 1-5 indicators starts automatically. You can turn the illumination on/off.

- Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "ILLUM MODE" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select a setting.
 - "ILLUM ON": On.
 - "ILLUM OFF": Off.
- 4 Press .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Displaying multi-angles and subtitles

To change the angles

DVD-V

If various angles (multi-angles) for a scene are recorded on a DVD VIDEO, you can change the viewing angle.

Press ANGLE during playback to select the desired angle.

To display the subtitles

DVD-V DVD-VR

If subtitles are recorded on a disc, you can turn the subtitles on/off during playback. If multilingual subtitles are recorded on the disc, you can change the subtitle language during playback, or turn the subtitles on/off whenever you want.

Press SUBTITLE during playback to select the desired subtitle language.

Changing the sound

DVD-V DVD-VR VIDEO CD C D DATA-CD

DATA DVD

When the system is playing a DVD VIDEO recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS), 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, CD, DATA CD, or DATA DVD, 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.

You cannot change the sound for a Super Audio CD.

Press AUDIO repeatedly during playback to select the desired audio signal.

■ DVD VIDEO

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

When 4 digits are displayed, they indicate a language code. See "Language Code List" (page 90) to confirm which language the code represents. When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats.

■ DVD-VR

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

Example:

- [1: MAIN] (main sound)
- [1: SUB] (sub sound)
- [1: MAIN+SUB] (main and sub sound)
- [2: MAIN]
- [2: SUB]
- [2: MAIN+SUB]

■ VIDEO CD/CD/DATA CD (MP3 file)/DATA DVD (MP3 file)

- [STEREO]: The standard stereo sound.
- [1/L]: The sound of the left channel (monaural).
- [2/R]: The sound of the right channel (monaural).

■ Super VCD

- [1:STEREO]: The stereo sound of audio track
- [1:1/L]: The sound of the left channel of audio track 1 (monaural).
- [1:2/R]: The sound of the right channel of audio track 1 (monaural).
- [2:STEREO]: The stereo sound of audio track 2.
- [2:1/L]: The sound of the left channel of audio track 2 (monaural).
- [2:2/R]: The sound of the right channel of audio track 2 (monaural).

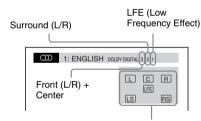
Checking the audio signal format

DVD-V

If you press AUDIO repeatedly during playback, the format of the current audio signal (PCM, Dolby Digital, DTS, etc.) appears as shown below.

Example:

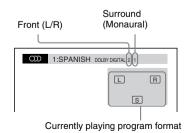
Dolby Digital 5.1 channel



Currently playing program format

Example:

Dolby Digital 3 channel



Selecting a playback area for a Super Audio CD

Super Audo CD

Some Super Audio CDs consist of a 2 channel playback area and a multi-channel playback area. You can select the playback area you want to listen to.

1 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select ☐ [MULTI/ 2CH], then press ⊕.

The options for [MULTI/2CH] appear.

- 3 Press ↑/↓ to select the desired setting and press ⊕.
 - [MULTI]: You can play the multi-channel playback area.
 - [2CH]: You can play the 2 channel playback area.

Note

 When the Super Audio CD does not have a multichannel playback area, you cannot select the playback area.

Changing a playback layer for a hybrid Super Audio CD

Super Audo CD

Some Super Audio CDs consist of a Super Audio CD layer and a CD layer. You can change the playback layer you want to listen to.

1 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

- Press ↑/↓ to select St [SUPER AUDIO CD/CD LAYER], then press ⊕.
 - When the current layer is the CD layer

[SUPER AUDIO CD] appears.

■ When the current layer is the Super Audio CD layer

[CD] appears.

3 Press \oplus to change the layer.

- [SUPER AUDIO CD]: You can play the Super Audio CD layer.
 - When the system is playing a Super Audio CD layer, "SA-CD" lights up in the front panel display.
- [CD]: You can play the CD layer. When the system is playing a CD layer, "CD" lights up in the front panel display.

Note

- Each play mode function works only within the selected layer or playback area.
- When you select a CD layer, you cannot change playback areas.
- Super Audio CD audio signals are not output from the HDMI OUT jack.

Playing a VIDEO CD with PBC functions (Ver. 2.0)

(PBC Playback)

VID€O CD

With PBC (Playback Control) functions, you can enjoy simple interactive operations, search functions, and other such operations.

PBC playback allows you to play a VIDEO CD interactively by following the menu on the TV screen.

1 Start playing a VIDEO CD with PBC functions.

The menu for your selection appears.

2 Select the item number you want using the number buttons.

If you make a mistake, press CLEAR to cancel the number.

3 Press (+).

Follow the instructions in the menu for interactive operations.

Refer to the operating instructions supplied with the disc, as the operating procedure may differ depending on the VIDEO CD.

To go back to the menu

Press RETURN.

Note

 Depending on the VIDEO CD, [Press ENTER] in Step 3 may appear as [Press SELECT] in the operating instructions supplied with the disc. In this case, press ▷.

Tip

Resuming playback from the point where you stopped the disc

(Resume Play)

 DVD-V
 DVD-VR
 VID€O CD
 Sper AutoCD
 C D

 DRTR-CD
 DRTR DVD
 C D
 C D
 C D

When you stop the disc, the system remembers the point where you pressed ■ and "RESUME" appears in the front panel display. As long as you do not remove the disc, Resume Play will work even if the system is set to standby mode by pressing I/().

While playing a disc, press ■ to stop playback.

"RESUME" appears in the front panel display.

2 Press ⊳.

The system starts playback from the point where you stopped the disc in Step 1.

Note

- Depending on where you stop the disc, the system may not resume playback from exactly the same point.
- The point where you stopped playing may be cleared when:
 - you eject the disc.
- the system enters standby mode (DATA CD/ DATA DVD only).
- you change or reset the settings on the Setup Display.
- you change the parental control level.

- you change the function by pressing FUNCTION +/-.
- you disconnect the AC power cord (mains lead).
- For a DVD-VR, VIDEO CD, Super Audio CD, CD, DATA CD, or DATA DVD, the system remembers the resume playback point for the current disc.
- The resume point is cleared when you select another disc.
- Resume Play does not work during Program Play and Shuffle Play.
- This function may not work properly with some discs.

Tip

• To play from the beginning of the disc, press ■ twice, then press ▷.

To enjoy a disc that you played before with resume playback

(Multi-disc Resume)

DVD-V VIDEO CD

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

To activate this function, set [MULTI-DISC RESUME] in [SYSTEM SETUP] to [ON]. For details, see "[MULTI-DISC RESUME] (DVD VIDEO/VIDEO CD only)" (page 52).

Note

 This system stores the resume points in memory for up to 10 discs.

Tip

To play from the beginning of the disc, press
 ■ twice, then press .

Using Play Mode

Creating your own program

(Program Play)

VIDEO CD C D

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own program. You can program up to 99 tracks.

Note

• You can program tracks on the current disc only.

1 Press DISPLAY.

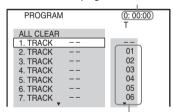
The Control Menu display appears on the TV screen.

Press ↑/↓ to select PROGRAM], then press ⊕.

The options for [PROGRAM] appear.

3 Press ↑/↓ to select [SET →], then press ⊕.

Total time of the programmed tracks



Tracks recorded on a disc

4 Press →.

The cursor moves to the track row [T] (in this case, [01]).

PROGRAM	0: 00:00 T
ALL CLEAR	
1. TRACK	
2. TRACK	01
3. TRACK	02
4. TRACK	03
5. TRACK	04
6. TRACK	05
7. TRACK	06

5 Select the track you want to program.

For example, select track [02].

Press \uparrow / \downarrow to select [02] under [T], then press \oplus .

Selected track

PROGRAM	0: 03:51) T
ALL CLEAR 1. TRACK 02	 01
2. TRACK 3. TRACK	02
4. TRACK	03
5. TRACK 6. TRACK	04 05
7. TRACK	06
▼	V

Total time of the programmed tracks

6 To program other tracks, repeat Steps 4 to 5.

The programmed tracks are displayed in the selected order.

7 Press ⊳ to start Program Play.

Program Play starts.

When the program ends, you can restart the same program again by pressing ▷.

To return to normal play

Press CLEAR while the display for the program setting is not displayed on the TV screen, or select [OFF] in Step 3. To play the same program again, select [ON] in Step 3 and press \oplus .

To turn off the Control Menu display

Press DISPLAY repeatedly until the Control Menu display is turned off.

To change or cancel a program

- 1 Follow Steps 1 to 3 of "Creating your own program."
- Press ↑/↓ to select the program number of the track you want to change or cancel.

If you want to delete the track from the program, press CLEAR.

3 Follow Step 5 for new programming.

To cancel a program, select [--] under [T],

then press (+).

To cancel all of the tracks in the programmed order

- 1 Follow Steps 1 to 3 of "Creating your own program."
- 2 Press ↑ and select [ALL CLEAR].
- **3** Press \oplus .

Not

• When you press CLEAR to return to normal play, Shuffle Play and Repeat Play are also canceled.

Playing in random order

(Shuffle Play)

VIDEO CD Super Audo CD C D DATA-CD DATA DVD

You can play the contents on a disc in random order. Subsequent Shuffle Play may produce a different playing order.

Note

- The same song may be played repeatedly when you are playing MP3 files.
- You can shuffle the tracks on the current disc only.
- 1 Press © DISPLAY during playback.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select SHUFFLE], then press ⊕.

The options for [SHUFFLE] appear.

- 3 Press ↑/↓ to select the item to be shuffled.
 - VIDEO CD/Super Audio CD/CD
 - [OFF]: Off.
 - [TRACK]: You can shuffle tracks on the disc.

■ During Program Play

- [OFF]: Off.
- [ON]: You can shuffle tracks selected in Program Play.

■ DATA CD/DATA DVD

- [OFF]: Off.
- [ON (MUSIC)]: You can shuffle MP3 files in the folder on the current disc. When no folder is selected, the first folder will play in random order.

4 Press +.

Shuffle Play starts.

To return to normal play

Press CLEAR, or select [OFF] in Step 3.

To turn off the Control Menu display

Press DISPLAY repeatedly until the Control Menu display is turned off.

Note

- You cannot use Shuffle Play with a VIDEO CD or Super VCD with PBC playback.
- When you press CLEAR to return to normal play, Program Play and Repeat Play are also canceled.

Playing repeatedly

(Repeat Play)



DATA-CD DATA DVD

You can play the contents on a disc repeatedly. You can use a combination of Shuffle Play or Program Play modes.

- 1 Press © DISPLAY during playback.

 The Control Menu display appears on the
 TV screen.
- Press ↑/↓ to select ☐ [REPEAT], then press ⊕.

The options for [REPEAT] appear.

3 Press ↑/↓ to select the item to be repeated.

■ DVD VIDEO/DVD-VR

- [OFF]: Off.
- [ALL DISCS]: You can repeat all of the discs.
- [ONE DISC]: You can repeat all of the titles on the current disc. (When the system is playing a DVD-VR, you can repeat all of the titles of the selected disc.)
- [TITLE]: You can repeat the current title on a disc.
- [CHAPTER]: You can repeat the current chapter on a disc.

■ VIDEO CD/Super Audio CD/CD

- [OFF]: Off.
- [ALL DISCS]: You can repeat all of the discs.
- [ONE DISC]: You can repeat all of the tracks on the current disc.
- [TRACK]: You can repeat the current track.

■ DATA CD/DATA DVD

- [OFF]: Off.
- [ALL DISCS]: You can repeat all of the discs.
- [ONE DISC]: You can repeat all of the folders on the current disc.
- [FOLDER]: You can repeat the current folder.
- [TRACK] (MP3 files only): You can repeat the current file.

4 Press .

The item is selected.

To return to normal play

Press CLEAR, or select [OFF] in Step 3.

To turn off the Control Menu display

Press DISPLAY repeatedly until the Control Menu display is turned off.

Note

- You cannot use Repeat Play with a VIDEO CD or Super VCD with PBC playback.
- When the system is playing a DATA CD/DATA DVD which contains MP3 files and JPEG image files, and their playing time is not the same, the audio sound will not match the image.
- When you press CLEAR to return to normal play, Program Play and Shuffle Play are also canceled.

Searching/Selecting Disc Contents

Using the DVD's menu

DVD-V

A DVD is divided into many sections, which make up a picture or music feature. These sections are called "titles." When you play a DVD which contains several titles, you can select the title you want using DVD TOP MENU.

When you play a DVD that allows you to select items such as the language for the subtitles and the language for the sound, select these items using DVD MENU.

- **1** Press DVD TOP MENU or DVD MENU.

 The disc's menu appears on the TV screen.

 The contents of the menu vary depending
- 2 Press ←/↑/↓/→ or the number buttons to select the item you want to play or change.
- 3 Press (+).

on the disc.

To display the DVD's menu on the Control Menu display

- 1 Press © DISPLAY during playback.
 The Control Menu display appears on the
 TV screen.
- Press ↑/↓ to select ☐ [DISC MENU], then press ⊕.

The options for [DISC MENU] appear.

- 3 Press ↑/↓ to select [MENU] or [TOP MENU].
- 4 Press (+).

To turn off the Control Menu display

Press © DISPLAY repeatedly until the Control Menu display is turned off.

Selecting an original title or edited title on a DVD-VR

DVD-VR

This function is only available for DVD-VRs with a playlist created.

1 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen

Press ↑/↓ to select [ORIGINAL/ PLAY LIST], then press ⊕.

The options for [ORIGINAL/PLAY LIST] appear.

- 3 Press ↑/↓ to select a setting.
 - [PLAY LIST]: You can play the titles in the order of the existing playlist.
 - [ORIGINAL]: You can play the titles originally recorded.
- 4 Press .

Searching for a title/chapter/track/scene, etc.

DVD-V DVD-VR VIDEO CD Super Auto CD C D

DATA-CD DATA DVD

You can search a DVD VIDEO/DVD-VR by title or chapter, and you can search a VIDEO CD/Super Audio CD/CD/DATA CD/DATA DVD by track, index, or scene. For a DATA CD/DATA DVD, you can search by folder or file. As titles and tracks are assigned unique numbers on the disc, you can select the desired title or track by entering its number. Or, you can search for a scene using the time code.

1 Press © DISPLAY. (If [MEDIA] is set to [MUSIC/PHOTO], press © DISPLAY twice.)

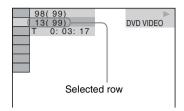
The Control Menu display appears on the TV screen.

2 Press ↑/↓ to select the search method.

Example: [CHAPTER]

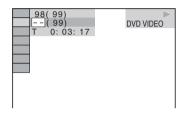
[** (**)] is selected (** refers to a number).

The number in parentheses indicates the total number of titles, chapters, tracks, indexes, scenes, folders, or files.



3 Press (+).

[**(**)] changes to [--(**)].



4 Press ↑/↓ or the number buttons to select the desired number of the title, chapter, track, index, scene, etc.

If you make a mistake, press CLEAR to cancel the number.

5 Press \oplus .

The system starts playback from the selected number.

Tip

 When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO/DVD-R/DVD-RW) or track (VIDEO CD/Super Audio CD/CD) by pressing the number buttons and ①.

To search for a scene using the time code

DVD-VR

1 In Step 2, select [TIME].

[T **:**:**] (playing time of the current title) is selected.

2 Press (+).
[T **:**:**] changes to [T --:--].

3 Input the time code using the number buttons.

For example, to find a scene at 2 hours, 10 minutes, and 20 seconds after the beginning: press 2, 1, 0, 2, 0 ([2:10:20]).

4 Press (+).

Note

 You cannot search for a scene on a DVD+RW using the time code.

Playing MP3 Files/JPEG Image Files

DATA-CD DATA DVD

You can play MP3 files or JPEG image files:

- which have the extension ".mp3" (MP3 file) or ".jpg"/".jpeg" (JPEG image file).
- which conform to the DCF* image file format.
- * "Design rule for Camera File system": Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEITA).

Note

- The system will play any files with the extension ".mp3," ".jpg," or ".jpeg" even if they are not in MP3 or JPEG format. Playing these files may generate a loud noise which could damage your speaker system.
- The system does not play back audio in MP3PRO format.
- The system can recognize up to 200 folders, and will not play any folders beyond the 200th. (Depending on the folder configuration, the number of folders that can be recognized by the system may decrease.)
- The system can recognize up to 150 MP3 files/JPEG image files in a folder.
- The system may take a longer time to play files when progressing to the following folder or jumping to other folders
- The system may not play certain types of JPEG image files (ex. a JPEG image file that is less than 8 (width) × 8 (height)).

Selecting an MP3 file or folder

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- **2** Load a DATA CD or DATA DVD.

After loading the disc, the list of folders appears on the TV screen.

3 Press
DISPLAY.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select [MEDIA], then press ⊕.

The options for [MEDIA] appear.

When [MUSIC] is selected, press DVD MENU. When other than [MUSIC] is selected, press ↑/↓ to select [MUSIC], then press ⊕.

A list of folders that contain MP3 files appears.

The selected folder is highlighted in yellow.



6 Press ↑/↓ to select a folder.

■ To play MP3 files in a folder

Press to start playing the selected folder.

■ To select an MP3 file

Press (+).

The list of files contained in the folder appears.



Press ↑/↓ to select a file and press ⊕.

The system starts playing the selected file.

You can turn the file list off by pressing

DVD MENU. Pressing DVD MENU again
will display the folder list.

To go to the next or previous page

Press $\bullet \rightarrow / \leftarrow \bullet$.

To stop playback

Press .

To play the next or previous MP3 file

Press ►►I to play the next MP3 file. Press I◄► twice to play the previous MP3 file.

When you press \blacktriangleleft once, you can go to the beginning of the current MP3 file.

Note that you can select the next folder by continuing to press ► after the last file on the current folder, but that you cannot return to the previous folder by pressing ► . To return to the previous folder, select the folder from the folder list

To return to the previous display

Press & RETURN.

To turn on/off the display

Press DVD MENU.

Other operations

See "Other operations" (page 32).

Selecting a JPEG image file or folder

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- **2** Load a DATA CD or DATA DVD.

After loading the disc, the list of folders appears on the TV screen.

3 Press 🕾 DISPLAY.

The Control Menu display appears on the TV screen.

4 Press ↑/↓ to select ☐ [MEDIA], then press ⊕.

The options for [MEDIA] appear.

When [PHOTO] is selected, press DVD MENU. When other than [PHOTO] is selected, press ↑/↓ to select [PHOTO], then press ⊕.

A list of folders that contain JPEG files appears.

The selected folder is highlighted in yellow.

FOLDER LIST

| 01 | Happy birthday | 02 | Travelling 01 | 03 | 2003.08.20 | 04 | Flowers | 05 | Travelling 02 | 06 | Animals | 07 | 2003.11.16 | 08 | 2003.12.03 | |

6 Press ≁/**↓** to select a folder.

- To go to the next or previous page Press •→/←•.
- To play JPEG image files in a folder Press > to start playing the selected folder.

The JPEG images are played as a slide show. You can change the interval of the slide show (page 43), and add effects to the slide show (page 44).

■ To select a JPEG image file by displaying the image browser Press PICTURE NAVI.

Previews of JPEG image files in the folder appear in 16 subscreens.

1	2	3	4	
5	6	7	8	
9	10	11	12	
13	14	15	16	

Press ←/↑/↓/→ to select the JPEG image file you want to view, then press ⊕.

To return to the previous screen, press ♂ RETURN.

To play the next or previous JPEG image file

Press →/← when the Control Menu display is not displayed. Note that you can select the next folder by continuing to press → after the last image on the current folder, but that you cannot return to the previous folder by pressing ←. To return to the previous folder, select the folder from the folder list.

To rotate a JPEG image file

When a JPEG image file is displayed on the TV screen, you can rotate the JPEG image file in 90 degree increments.

Press **↑/** while viewing a JPEG image file. Press CLEAR to return to normal view.

Note

• You cannot rotate the JPEG image file when you set [JPEG RESOLUTION] in [HDMI SETUP] to [(1920 × 1080i) HD] or [(1920 × 1080i) HD] (page 51).

To stop playback

Press .

To turn on/off the display

Press DVD MENU.

Other operations

See "Other operations" (page 32).

Playing a slide show with sound

You can play a slide show with sound by first placing both MP3 files and JPEG image files in the same folder on a DATA CD or DATA DVD.

- 1 Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- **2** Load a DATA CD or DATA DVD.

After loading the disc, the list of folders appears on the TV screen.

3 Press "DISPLAY.

The Control Menu display appears on the TV screen.

4 Press ↑/↓ to select ☐ [MEDIA], then press ⊕.

The options for [MEDIA] appear.

When [MUSIC/PHOTO] is selected, press DVD MENU. When other than [MUSIC/PHOTO] is selected, press ↑/↓ to select [MUSIC/PHOTO], then press ⊕.

The list of folders appears.

Press ↑/↓ to select the desired folder and press ▷. The system starts playing the selected folder.

You can turn the folder list on/off by pressing DVD MENU repeatedly.

Note

 If you play a large MP3 file and JPEG image file at the same time, the sound may skip. Sony recommends that you set the MP3 bit rate to 128 kbps or lower when creating the file. If the sound still skips, reduce the size of the JPEG image file.

Selecting the slide show duration of JPEG image files

1 Press © DISPLAY. (If [MEDIA] is set to [MUSIC/PHOTO], press © DISPLAY twice.)

The Control Menu display appears on the TV screen.

Press ↑/↓ to select [INTERVAL], then press ⊕.

The options for [INTERVAL] appear.

- 3 Press ↑/↓ to select a setting.
 - [NORMAL]: You can set to the standard duration.
 - [FAST]: You can set the duration shorter than [NORMAL].
 - [SLOW 1]: You can set the duration longer than [NORMAL].
 - [SLOW 2]: You can set the duration longer than [SLOW 1].
- 4 Press (+).

Note

 Some JPEG image files may take longer to display than the option you selected. Especially progressive JPEG image files or JPEG image files of 3,000,000 pixels or more.

Selecting an effect for JPEG image files in the slide show

1 Press © DISPLAY. (If [MEDIA] is set to [MUSIC/PHOTO], press © DISPLAY twice.)

The Control Menu display appears on the TV screen.

Press ↑/↓ to select [EFFECT], then press ⊕.

The options for [EFFECT] appear.

- 3 Press ↑/↓ to select a setting.
 - [MODE 1]: The JPEG image file sweeps in from top to bottom.
 - [MODE 2]: The JPEG image file stretches out from left to right of the TV screen.
 - [MODE 3]: The JPEG image file stretches out from the center of the TV screen.
 - [MODE 4]: The JPEG image files randomly cycle through the effects.
 - [MODE 5]: The next JPEG image file slides over the previous image.
 - [OFF]: Off.
- 4 Press \oplus .

Note

• The [EFFECT] setting is not effective when you set [JPEG RESOLUTION] in [HDMI SETUP] to [(1920 × 1080i) HD] or [(1920 × 1080i) HD] (page 51).

Selecting playback priority of the file type

You can select playback priority when mixed media (MP3 files or JPEG image files) are in the disc.

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- **2** Load a DATA CD or DATA DVD.

After loading the disc, the list of folders appears on the TV screen.

3 Press © DISPLAY.

The Control Menu display appears on the TV screen.

4 Press ↑/↓ to select → [MEDIA], then press ⊕.

The options for [MEDIA] appear.

- 5 Press ↑/↓ to select a setting.
 - [MUSIC/PHOTO]: You can play both JPEG image files and MP3 files in the same folder as a slide show.
 - [MUSIC]: MP3 file playback has priority.
 - [PHOTO]: JPEG image file playback has priority. You can play JPEG image files as a slide show.
- 6 Press \oplus .

For details of the playback priority of file types under the [MEDIA] setting, see "Playback priority of file types" (page 89).

Displaying a list of MP3 files/ JPEG image files

- 1 Press © DISPLAY during playback.

 The Control Menu display appears on the
 TV screen.
- 3 Press ↑/↓ to select the desired list, then press ⊕.
 - [FOLDER LIST]: The list of folders appears. Follow Step 6 of "Selecting an MP3 file or folder" (page 41) or "Selecting a JPEG image file or folder" (page 42).
 - [PICTURE LIST] (JPEG image files only): Previews of JPEG image files in the folder appear in 16 subscreens. Follow Step 6 of "Selecting a JPEG image file or folder" (page 42).

Adjusting the Delay Between the Picture and Sound

[A/V SYNC]

DVD-V DVD-VR VID€O CD

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

- 1 Press T DISPLAY.
 - The Control Menu display appears on the TV screen.
- Press ↑/→ to select [A/V SYNC], then press ⊕.

The options for [A/V SYNC] appear.

- 3 Press ↑/↓ to select a setting.
 - [OFF]: Off.
 - [ON]: You can adjust the delay between picture and sound.
- 4 Press (+).

Note

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

Restricting Playback of the Disc

[PARENTAL CONTROL]

DVD-V

The [PARENTAL CONTROL] function allows you to restrict playback of DVDs that have ratings. Scenes may be blocked or replaced with different scenes.

You can set the playback restriction by registering a password. When you set the [PARENTAL CONTROL] function to on, you need to enter the password to play restricted discs.

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- Press
 DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

The options for [SETUP] appear.

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

The Setup Display appears.

5 Press ↑/↓ to select [SYSTEM SETUP], then press ⊕.

The options for [SYSTEM SETUP] appear.

- Press ↑/↓ to select [PARENTAL CONTROL →], then press ⊕.
 - If you have not entered a password

The display for registering a new password appears.



Enter a 4-digit password using the number buttons, then press \oplus .

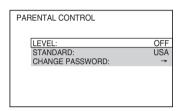
The display for confirming the password appears.

■ When you have already registered a password

The display for entering the password appears.

Enter or re-enter your 4-digit password using the number buttons, then press
+.

The display for setting the playback limitation level appears.



Press ↑/↓ to select [STANDARD], then press ⊕.

The selection items for [STANDARD] are displayed.

9 Press ↑/↓ to select a geographic area as the playback limitation level, then press ⊕.

The area is selected.

When you select [OTHERS →], select and enter a standard code from "Parental Control Area Code List" (page 90) using the number buttons.

10 Press ↑/↓ to select [LEVEL], then press ⊕.

The selection items for [LEVEL] are displayed.

11 Press ↑/↓ to select the desired level, then press ⊕.

[PARENTAL CONTROL] setting is complete.

The lower the value, the stricter the limitation.

To turn off the [PARENTAL CONTROL] function

Set [LEVEL] to [OFF] in Step 11.

To play a disc for which [PARENTAL CONTROL] is set

1 Load the disc and press ⊳.

The display for entering your password appears.

2 Enter your 4-digit password using the number buttons, then press (+).

The system starts playback.

Tin

• If you forget your password, remove the disc and repeat Steps 1 to 6 of "Restricting Playback of the Disc" (page 45). When you are asked to enter your password, enter "199703" using the number buttons, then press ⊕. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the unit and press ▷. When the display for entering your password appears, enter your new password.

Changing the password

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- 2 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

3 Press ↑/↓ to select ☐ [SETUP], then press ⊕.

The options for [SETUP] appear.

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

The Setup Display appears.

Press ↑/↓ to select [SYSTEM SETUP], then press ⊕.

The options for [SYSTEM SETUP] appear.

Press ↑/↓ to select [PARENTAL CONTROL →], then press ⊕.

The display for entering the password appears.

- 7 Enter your 4-digit password using the number buttons, then press (+).
- Press ↑/↓ to select [CHANGE PASSWORD →], then press ⊕.
- **9** Enter a new 4-digit password using the number buttons, then press (+).
- 10 To confirm your password, re-enter it using the number buttons, then press

 .

If you make a mistake entering your password

Press \leftarrow before you press \oplus , then input the correct number.

Changing the System Settings by Using the Setup Display

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

Displayed items vary depending on the area.

Note

- Playback settings stored in the disc take priority over the Setup Display settings and not all the functions described may work.
- 1 Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

Press ↑/↓ to select [SETUP], then press ⊕.

The options for [SETUP] appear.

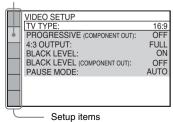
4 Press ↑/↓ to select [CUSTOM], then press ⊕.

The Setup Display appears.

- **5** Press ↑/↓ to select the setup item, then press ⊕.
 - [LANGUAGE SETUP] (page 48)
 - [VIDEO SETUP] (page 48)
 - [HDMI SETUP] (page 50)
 - [AUDIO SETUP] (page 51)
 - [SYSTEM SETUP] (page 52)
 - [SPEAKER SETUP] (page 52)

Example: [VIDEO SETUP]

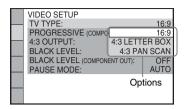
Selected item



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

⊕. The ontions for the selec

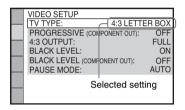
The options for the selected item appear. Example: [TV TYPE]



7 Press ↑/↓ to select a setting, then press ⊕.

The setting is selected and setup is complete.

Example: [4:3 LETTER BOX]



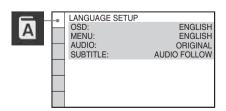
To reset all of the [SETUP] settings

To reset all of the [SETUP] settings, see "Returning the [SETUP] settings to the default" (page 74).

Setting the display or sound track language

[LANGUAGE SETUP]

Set various languages for the on-screen display or sound track.



■ [OSD] (On-Screen Display)

You can switch the display language on the TV screen.

■ [MENU] (DVD VIDEO only)

You can switch the language for the disc's menu.

■ [AUDIO] (DVD VIDEO only)

You can switch the language of the sound track. When you select [ORIGINAL], the language given priority on the disc is selected.

■ [SUBTITLE] (DVD VIDEO only)

You can switch the language of the subtitles recorded on the DVD VIDEO.

When you select [AUDIO FOLLOW], the language for the subtitles changes according to the language you selected for the sound track.

Note

 When you select a language in [MENU], [AUDIO], or [SUBTITLE] that is not recorded on the DVD VIDEO, one of the recorded languages will be automatically selected (depending on the disc, the language may not be selected automatically).

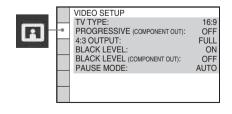
qiT

 If you select [OTHERS →] in [MENU], [AUDIO], and [SUBTITLE], select and enter a language code from "Language Code List" (page 90) using the number buttons.

Settings for the display

[VIDEO SETUP]

Select settings according to the TV to be connected.



■ [TV TYPE]

You can select the aspect ratio of the connected TV.

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



[4:3 LETTER BOX]: Select this when you connect a 4:3 standard TV. The system displays a wide picture with bands on the upper and lower portions of the TV screen.



[4:3 PAN SCAN]: Select this when you connect a 4:3 standard TV. The system automatically displays a wide picture on the entire screen and cuts off the portions that do not fit.



Note

 Depending on the DVD, [4:3 LETTER BOX] may be selected automatically instead of [4:3 PAN SCAN] or vice versa.

■ [PROGRESSIVE (COMPONENT OUT)]

You can set the progressive signal that is output from the COMPONENT VIDEO OUT jacks to on/off. For details, see "Does your TV accept progressive signals?" (page 26).

[OFF]: The system outputs interlace signals. [ON]: The system outputs progressive signals. When you select [ON], follow the Steps below.

Select [ON], then press \oplus . The confirmation display appears.

Press ←/→ to select [START], then press ⊕.

The system outputs a progressive signal for 5 seconds. Check that the screen is displayed correctly.

3 Press ←/→ to select [YES], then press

The system outputs a progressive signal. If you select [NO], the system will not output a progressive signal.

Note

• [PROGRESSIVE (COMPONENT OUT)] is effective only when you connect the unit and TV with a component video cable (page 17).

■ [4:3 OUTPUT]

When you use a 16:9 aspect ratio TV, you can adjust the aspect ratio to watch 4:3 aspect ratio signals. If you can change the aspect ratio on your TV, change the setting on your TV, not the system.

[FULL]: Select this when you can change the aspect ratio on your TV.

[NORMAL]: Select this when you cannot change the aspect ratio on your TV. A 16:9 aspect ratio signal with black bands on left and right sides of the image appears.



16:9 aspect ratio TV

Note

• [4:3 OUTPUT] is effective only when you set [TV TYPE] in [VIDEO SETUP] to [16:9].

■ [BLACK LEVEL]

You can select the black level (setup level) for the video signals output from the jacks other than COMPONENT VIDEO OUT/HDMI OUT.

[ON]: The standard level.

[OFF]: You can lower the standard black level. Use this when the picture becomes too white.

■ [BLACK LEVEL (COMPONENT OUT)]

You can select the black level (setup level) for the video signals output from the COMPONENT VIDEO OUT jacks. You cannot select this and the setting is not effective when the system outputs a progressive signal.

<u>[OFF]</u>: You can set the black level of the output signal to the standard level.

[ON]: You can raise the standard black level. Use this when the picture becomes too black.

■ [PAUSE MODE] (DVD VIDEO/DVD-R/DVD-RW only)

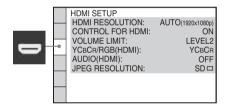
You can select the picture in pause mode.

[AUTO]: The picture, including subjects that move dynamically, is output with no jitter. This setting is for normal usage.

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

Settings for HDMI

[HDMI SETUP]



■ [HDMI RESOLUTION]

You can select the type of video signal that is output from the HDMI OUT jack. For details, see "To select the type of video signal output from the HDMI OUT jack" (page 26).

[AUTO ($1920 \times 1080p$)]: The system outputs the optimal video signal for the connected TV. [$1920 \times 1080i$]: The system outputs $1920 \times 1080i$ * video signals.

 $[1280 \times 720p]$: The system outputs $1280 \times 720p$ * video signals.

 $[720 \times 480p]^{**}$: The system outputs $720 \times 480p^{*}$ video signals.

* i: interlace, p: progressive

** Depending on the area, $[720 \times 480/576p]$ may appear.

■ [CONTROL FOR HDMI]

You can set the [CONTROL FOR HDMI] function to on/off. This function is available when you connect the system and TV with an HDMI cable. For details, see "Using the Control for HDMI Function for "BRAVIA" Sync" (page 58).

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

[OFF]: Off.

■ [VOLUME LIMIT]

If you change the output method of the TV to the system speakers via the TV menu (or by pressing THEATER), the System Audio Control (page 59) is activated and loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume.

[LEVEL3]: Maximum volume level is set to 10. [LEVEL2]: Maximum volume level is set to 15. [LEVEL1]: Maximum volume level is set to 20. [OFF]: Off.

Note

• This function is available only when [CONTROL FOR HDMI] is set to [ON].

■ [YCBCR/RGB (HDMI)]

You can select the type of HDMI signal output from the HDMI OUT jack.

[YC_BC_R]: The system outputs YC_BC_R signals. [RGB]: The system outputs RGB signals.

Note

- If the playback picture becomes distorted, set [YCBCR] to [RGB].
- If the HDMI OUT jack is connected to a component with a DVI jack, [RGB] signals will be automatically output even when you select [YCBCR].

■ [AUDIO (HDMI)]

You can select the audio output status from the HDMI OUT jack.

[OFF]: The system does not output sound from the HDMI OUT jack.

[ON]: The system outputs audio signals by converting Dolby Digital, DTS, or 96 kHz/24-bit PCM signals to 48 kHz/16-bit PCM.

Note

- When you connect the unit and TV with an HDMI cable and [ON] is selected, [AUDIO DRC], [A/V SYNC], DYNAMIC BASS, "DEC. MODE," and sound mode are not applied to the sound that is output from the TV.
- When you set the function to other than "DVD," the system does not output the sound from the HDMI OUT jack even if you set [AUDIO (HDMI)] to [ON].

■ [JPEG RESOLUTION]

You can select the resolution of JPEG image files output from the HDMI OUT jack.

[SD]: The system outputs standard resolution with a black frame.

[HD \square]: The system outputs HD resolution with a black frame.

[HD]: The system outputs the HD resolution without a black frame.

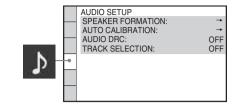
[(1920 × 1080i) HD □]: The system outputs full size HD resolution with a black frame. [(1920 × 1080i) HD]: The system outputs full size HD resolution without a black frame.

Note

- [JPEG RESOLUTION] is effective only when you set [TV TYPE] in [VIDEO SETUP] to [16:9], and you set [HDMI RESOLUTION] in [HDMI SETUP] to other than [720 × 480p] or [720 × 480/576p].
- You can select [(1920 × 1080i) HD □] or [(1920 × 1080i) HD] only when you set [HDMI RESOLUTION] in [HDMI SETUP] to [1920 × 1080i]
- The HDMI signal will stop momentarily when:
 - the system is loading or unloading a DATA CD or DATA DVD.
 - you change the disc from a DATA CD or DATA DVD.
 - you play a DATA CD or DATA DVD to the end and the system stops playback automatically.

Settings for the audio

[AUDIO SETUP]



■ [SPEAKER FORMATION]

You can select the position of the speakers for better surround sound. For details, see "Getting Optimal Surround Sound for a Room" (page 66).

■ [AUTO CALIBRATION]

You can calibrate the appropriate settings automatically. For details, see "Calibrating the Appropriate Settings Automatically" (page 67).

■ [AUDIO DRC] (DVD VIDEO only)

You can compress the dynamic range of the sound track. [AUDIO DRC] is useful for watching movies at low volume late at night.

[OFF]: No compression of dynamic range. [STANDARD]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.

[MAX]: The system compresses dynamic range fully.

Note

• [AUDIO DRC] works only for Dolby Digital.

■ [TRACK SELECTION] (DVD VIDEO only)

You can give the sound track which contains the highest number of channels priority when you play a DVD VIDEO on which multiple audio formats (PCM, DTS, Dolby Digital, or MPEG audio) are recorded.

[OFF]: Off.

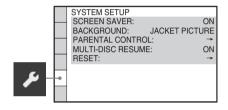
[AUTO]: The system selects the sound track automatically according to the priority.

Note

- When you set the item to [AUTO], the language may change. The [TRACK SELECTION] setting has higher priority than the [AUDIO] settings in [LANGUAGE SETUP] (page 48). (Depending on the disc, this function may not work.)
- If PCM, DTS, Dolby Digital sound, and MPEG audio have the same number of channels, the system selects PCM, DTS, Dolby Digital sound, and MPEG audio in this order.

Other Settings

[SYSTEM SETUP]



■ [SCREEN SAVER]

You can reduce the damage to the display device (ghosting). Press any button (e.g., ▷) to cancel the screen saver.

[ON]: The screen saver image appears if you do not operate the system for about 15 minutes. [OFF]: Off.

■ [BACKGROUND]

You can select the background color or picture on the TV screen.

[JACKET PICTURE]: The jacket picture (still picture) appears, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the [GRAPHICS] picture appears.

[GRAPHICS]: A preset picture stored in the system appears.

[BLUE]: The background is blue. [BLACK]: The background is black.

■ [PARENTAL CONTROL]

You can set the playback restrictions. For details, see "Restricting Playback of the Disc" (page 45).

■ [MULTI-DISC RESUME] (DVD VIDEO/ VIDEO CD only)

You can set the [MULTI-DISC RESUME] function to on/off.

[ON]: The system stores the resume points in memory for up to 10 discs.

[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.

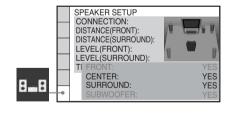
■ [RESET]

You can return the [SET UP] settings other than [PARENTAL CONTROL] to the default settings. For details, see "Returning the [SETUP] settings to the default" (page 74).

Settings for the speakers

[SPEAKER SETUP]

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.



■ [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.

[SURROUND]

[YES]: Normally select this.

[NONE]: Select this if no surround speakers are used.

[SUBWOOFER]

[YES]

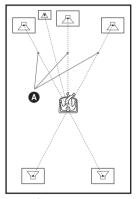
Note

 When you change the [CONNECTION] setting, the [STANDARD] of [SPEAKER FORMATION] setting remains the same, but the other settings of [SPEAKER FORMATION] return to [STANDARD].

■ [DISTANCE (FRONT)]

When you move the front speakers and center speaker, be sure to set the parameters of the distance (\mathbf{A}) from the listening position to the speakers.

You can set the parameters from 1.0 to 7.0 meters $^{1)}$ (3 to 23 ft) for the front speakers, from 0.0 to 7.0 meters $^{2)}$ (0 to 23 ft) for the center speaker.



[L/R] $\underline{3.0 \text{ m/}10 \text{ ft}}^{3)}$: Set the front speaker distance.

[CENTER] $3.0 \text{ m/}10 \text{ ft}^{3/4}$: Set the center speaker distance (up to 1.6 meters (5 ft) closer to the front speakers).

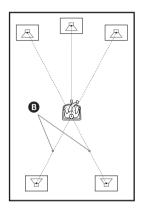
1)0.9 to 6.9 meters for North American models.

⁴⁾This item appears when you set [CENTER] to [YES] in the [CONNECTION] setting.

■ [DISTANCE (SURROUND)]

When you move the surround speakers, be sure to set the parameters of the distance (**3**) from the listening position to the speakers.

You can set the parameters from 0.0 to 7.0 meters¹⁾ (0 to 23 ft).



[L/R] $\underline{3.0 \text{ m/10 ft}^{2)3}}$: Set the surround speaker distance (up to 5.0 meters (16 ft) closer to the front speakers).

Note

- If all front and surround speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.
- Do not place the surround speakers farther away from your listening position than the front speakers.
- Depending on the input stream, the [DISTANCE] setting may not be effective.

■ [LEVEL (FRONT)]

You can adjust the sound level of the front speakers, center speaker, and subwoofer. You can set the parameters from -6.0 dB to 0 dB for [L/R], and from -6.0 dB to +6.0 dB for [CENTER] and [SUBWOOFER]. Be sure to set [TEST TONE] to [ON] for easy adjustment.

[L/R] 0.0 dB: Set the front speaker level.

²⁾0.0 to 6.9 meters for North American models.

³⁾When you perform the Quick Setup (page 24), the default settings are changed.

¹⁾0.0 to 6.9 meters for North American models.

²⁾When you perform the Quick Setup (page 24), the default settings are changed.

³⁾This item appears when you set [SURROUND] to [YES] in the [CONNECTION] setting.

[CENTER] <u>0.0 dB</u>*: Set the center speaker level.

[SUBWOOFER] $\pm 2.0 \text{ dB}$: Set the subwoofer level.

* This item appears when you set [CENTER] to [YES] in the [CONNECTION] setting.

■ [LEVEL (SURROUND)]

You can adjust the sound level of the surround speakers. You can set the parameter from -6.0 dB to +6.0 dB. Be sure to set [TEST TONE] to [ON] for easy adjustment.

[L/R] 0.0 dB*: Set the surround speaker level.

* This item appears when you set [SURROUND] to [YES] in the [CONNECTION] setting.

■ [TEST TONE]

The speakers will emit a test tone to adjust [LEVEL (FRONT)] and [LEVEL (SURROUND)].

<u>[OFF]</u>: The test tone is not emitted from the speakers.

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

Adjust the sound level as follows.

- 1 Set the [TEST TONE] to [ON].
- 2 Press ←/↑/↓/→ repeatedly to select the desired speaker and the level.
- **3** Press (+).
- 4 Repeat Steps 1 to 3.
- Press ←/↑/↓/→ repeatedly to set [TEST TONE] to [OFF] after adjusting the speaker level.

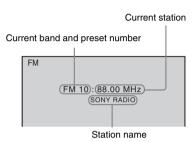
Tip

- To adjust the volume of all the speakers at one time, turn the VOLUME control on the unit, or press VOLUME +/- on the remote.
- To return to the default setting when changing a setting, select the item, then press CLEAR. Note that only the [CONNECTION] setting does not return to the default setting.

Tuner

Presetting Radio Stations

You can preset 20 FM stations, and 10 AM stations. Before tuning, make sure to turn down the volume to minimum.



- 1 Press FUNCTION +/- repeatedly until "TUNER FM" or "TUNER AM" appears in the front panel display.
- 2 Press and hold TUNING +/- until the auto scanning starts.

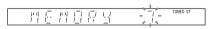
Scanning stops when the system tunes in a station. "TUNED" and "ST" (stereo program) appear in the front panel display.

- **3** Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "MEMORY" appears in the front panel display.
- **5** Press ⊕ or **→**.

A preset number appears in the front panel display.



6 Press ↑/↓ to select the preset number you want.



Tip

• You can select the preset number directly by pressing the number buttons.

- 7 Press (+).
 - "COMPLETE" appears in the front panel display, and the station is stored.
- Repeat Steps 2 to 7 to store other stations.
- **9** Press SYSTEM MENU.

The system menu turns off.

To change the preset number

Select the desired preset number by pressing PRESET +/- (page 56), then perform the procedure from Step 3.

To change the AM tuning interval (except for CIS and Middle Eastern models)

The AM tuning interval can be set to either 10 kHz or 9 kHz.

To change the AM tuning interval, first tune in any AM station, then turn off the system by pressing **I**/⁽¹⁾ on the unit. Press **I**/⁽¹⁾ on the unit while pressing **▶►I** on the unit. The tuning interval changes. If you change the interval, AM preset stations will be erased.

To reset the interval, repeat the same procedure.

Listening to the Radio

Preset radio stations in the system's memory first (see "Presetting Radio Stations" (page 55)).

Press FUNCTION +/- repeatedly until "TUNER FM" or "TUNER AM" appears in the front panel display.

The last received station is tuned in.

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

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.
- 3 Adjust the volume by pressing VOLUME +/-.

To turn off the radio

Press I/(1).

To listen to non-preset radio stations

Use manual or automatic tuning in Step 2. For manual tuning, press TUNING +/– repeatedly.

For automatic tuning, press and hold TUNING +/-. The automatic tuning stops automatically when the system receives the radio station. To stop the automatic tuning manually, press TUNING +/- or ■.

To listen to radio stations when you know the frequencies

Press D.TUNING in Step 2, press the number buttons to select the frequencies, then press (+).

Tip

• To improve reception, reorient the connected antennas (aerials).

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 SYSTEM MENU.

Press ↑/↓ repeatedly until "FM MODE" appears in the front panel display.

- **3** Press ⊕ or **→**.
- 4 Press ↑/↓ to select "MONO."
 - <u>"STEREO"</u>: Stereo reception.
 - "MONO": Monaural reception.
- **5** Press (+).

The setting is made.

6 Press SYSTEM MENU.

The system menu turns off.

Naming preset stations

You can enter a name for preset stations. These names (for example, "ABC") appear in the front panel display when a station is selected. Only one name can be entered for each preset station.

1 Press FUNCTION +/- repeatedly until "TUNER FM" or "TUNER AM" appears in the front panel display.

The last received station is tuned in.

- 2 Press PRESET +/- repeatedly to select the preset station you want to create an index name for.
- **3** Press SYSTEM MENU.
- 4 Press ↑/↓ repeatedly until "NAME IN" appears in the front panel display.



- **5** Press ⊕ or **→**.
- **6** Create a name by using $\leftarrow/\uparrow\uparrow/\downarrow/\rightarrow$.

Press \uparrow / \downarrow to select a character, then press \Rightarrow to move the cursor to the next position.



You can input letters, numbers, and other symbols for a radio station.

If you make a mistake

Press ←/→ repeatedly until the character to be changed flashes, then press ↑/↓ to select the desired character.

To erase the character, press ←/→ repeatedly until the character to be erased flashes, then press CLEAR.

7 Press (+).

"COMPLETE" appears in the front panel display, and the station name is stored.

8 Press SYSTEM MENU.

The system menu turns off.

Viewing the station name or frequency in the front panel display

When the system is set to "TUNER FM" or "TUNER AM," you can check the frequency using the front panel display.

Press DISPLAY.

Each time you press DISPLAY, the display changes:

$$0 \rightarrow 2 \rightarrow \rightarrow 0 \rightarrow$$

■ "TUNER FM"

When the station name is set

1 Station name

Ex. "SONY RADIO"

2 Frequency

Ex. "FM1 87.50"

(3) The "FM MODE" setting Ex. "STEREO"

When the station name is not set

1 Frequency

Ex. "FM1 87.50"

② The "FM MODE" setting Ex. "STEREO"

■ "TUNER AM"

When the station name is set

1) Station name

Ex. "SONY RADIO"

② Frequency Ex. "AM1 576"

When the station name is not set

① Frequency Ex. "AM1 576"

Control for HDMI/External Audio Device

Using the Control for HDMI Function for "BRAVIA" Sync

This function is available on TVs with the "BRAVIA" Sync function only.

By connecting Sony components that are compatible with the Control for HDMI function with an HDMI cable, operation is simplified as below:

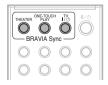
- Theater Mode (page 59)
- One-Touch Play (page 59)
- System Power Off (page 59)
- System Audio Control (page 59)
- Volume Limit (page 60)
- Language Follow (page 60)

Control for HDMI is a mutual control function standard used by CEC (Consumer Electronics Control) for HDMI (High-Definition Multimedia Interface).

The Control for HDMI function will not work in the following cases:

- When you connect this system to a component which is not compatible with the Control for HDMI function.
- A component does not have an HDMI jack.

There are convenient buttons on the system's remote for operating the TV, such as THEATER, ONE-TOUCH PLAY, TV \(\frac{1}{2} \). For details, see "Controlling the TV with the Supplied Remote" (page 68) and refer to the operating instructions of the TV.



Note

- Depending on the connected component, the Control for HDMI function may not work. Refer to the operating instructions supplied with the component.
- The Control for HDMI function may not work if you connect a component other than a Sony component, even if the component is compatible with the Control for HDMI function.

Preparing the Control for HDMI function

(Control for HDMI - Easy Setting)

The system is compatible with the Control for HDMI - Easy Setting function. If the TV is compatible with the Control for HDMI - Easy Setting function, you can set the system's [CONTROL FOR HDMI] function automatically by setting the TV. For details, refer to the operating instructions of the TV.

If the TV is not compatible with the Control for HDMI - Easy Setting function, set the Control for HDMI function of the system and TV manually.

- Make sure that the system and the TV are connected with an HDMI cable.
- 2 Turn on the TV and press I/\(\theta\) to turn on the system.
- 3 Switch the input selector on your TV so that the signal from the system through the HDMI input appears on the TV screen.
- 4 Set the Control for HDMI function of the system and TV.

For details of the system settings, see the following Steps. For details of the setting of the TV, refer to the operating instructions of the TV (depending on the TV, the default setting of the Control for HDMI function may be set to off).

To set the [CONTROL FOR HDMI] function to on/off

Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display. Press DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

The options for [SETUP] appear.

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

The Setup Display appears.

Press ↑/↓ to select [HDMI SETUP], then press ⊕.

The options for [HDMI SETUP] appear.

- 6 Press ↑/↓ to select [CONTROL FOR HDMI], then press ⊕.
- Press ↑/↓ to select the setting, then press ⊕.
 - [ON]: On.
 - [OFF]: Off.

Using the Theater Mode

(Theater Mode)

If your TV is compatible with the Theater Mode, you can enjoy optimal image and sound quality suited for movies, and sound is output from the system's speakers automatically by pressing THEATER.

Watching a DVD by a single button press

(One-Touch Play)

By only pressing ONE-TOUCH PLAY, the TV turns on, the TV is set for DVD input mode, and the system starts playing a disc automatically.

Note

One-Touch Play does not work when you press ►.

The system and TV work as follows (e.g.):

This system	TV
Turns on. (If not already	Turns on. (If not already
turned on.)	turned on.)
\downarrow	↓
Switches to "DVD"	Switches to HDMI input.
function.	Ţ
ļ	Minimizes sound level.
Starts playing the disc and outputs the sound.	(System Audio Control)

Turning the system off in sync with the TV

(System Power Off)

When you turn the TV off by using the POWER button on the TV's remote or TV I/U on the system's remote, the system turns off automatically.

Note

- Before using the System Power Off function, set the function for TV power. For details, refer to the operating instructions of the TV.
- Depending on the status of the system (ex. while using other than "DVD" or "TV/VIDEO" functions, or playing a CD), the system may not turn off automatically.

Enjoying TV sound from the speakers by this system

(System Audio Control)

You can enjoy TV sound via this system easily. To use this function, connect the system and the TV with an audio cord and an HDMI cable (pages 17, 18).

Depending on the TV, when you set the system to the "TV/VIDEO" function, the System Audio Control function is activated. TV sound is output from the system speakers, and the volume of the TV speakers is minimized automatically.

You can use the System Audio Control function as follows:

 While you are watching the TV and the function of the system is switched to "TV/ VIDEO," TV sound is output from the system speakers automatically.

- While you are watching the TV and the function of the system is switched to "DVD," sound of the "DVD" function is output from the system speakers; TV sound is not output via the TV speakers.
- You can control the system's volume by the remote of the TV.
- If you turn the system off or set the function of the system to other than "TV/VIDEO" or "DVD," TV sound is output from the TV speakers.

You can also operate the System Audio Control function via the TV menu. For details, refer to the operating instructions of the TV.

Note

 While the TV is in PAP (picture and picture) mode, the System Audio Control function will not work.
 When the TV exits PAP mode, the output method of the TV returns to the one before PAP mode.

Tip

 You can connect the system and the TV audio digitally. For details, see page 18.

Setting the Maximum Volume Level of the System

(Volume Limit)

If you change the output method of the TV to the system speakers via the TV menu (or by pressing THEATER), loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume. For details, see "[VOLUME LIMIT]" (page 50).

Changing the language for the on-screen display of the TV

(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. However, when the system's on-screen display is displayed, this function does not work.

Using the DIGITAL MEDIA PORT Adapter

The DIGITAL MEDIA PORT (DMPORT) adapter is for enjoying sound from a portable audio source or computer. By connecting a DIGITAL MEDIA PORT adapter, you can enjoy sound from the connected component on the system.

Available DIGITAL MEDIA PORT adapters vary in each area.

For details on connecting the DIGITAL MEDIA PORT adapter, see page 19.

Note

- Do not connect an adapter other than the DIGITAL MEDIA PORT adapter.
- Do not connect or disconnect the DIGITAL MEDIA PORT adapter to/from the unit while the system is turned on.
- When you use the system and the Bluetooth Wireless Audio Adapter (such as TDM-BT1, not supplied) at the same time, transmission distance between the Bluetooth transmitter and Bluetooth Wireless Audio Adapter may be reduced. In this case, place the Bluetooth transmitter as far as possible from the system, or move the Bluetooth Wireless Audio Adapter closer to the Bluetooth transmitter.
- When you use the system and the Wireless Network Audio Adapter (such as TDM-NC1, not supplied) at the same time, place the Wireless Network Audio Adapter as far as possible from the system.

Playing the connected component on the system

- 1 Press FUNCTION +/- repeatedly until "DMPORT" appears in the front panel display.
- 2 Start playback of the connected component.

The sound and images from the connected component are played on the system or connected TV.

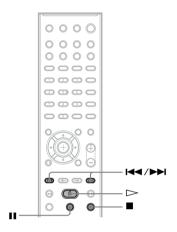
For operation details, refer to the operating instructions of the DIGITAL MEDIA PORT adapter.

Note

 Depending on the type of DIGITAL MEDIA PORT adapter, images are also output. In this case, the system outputs the composite video signal only, regardless of the type of video signal.

Tip

 Depending on the type of DIGITAL MEDIA PORT adapter, you may be able to operate a connected component using either the buttons on the remote or the unit. The following illustration shows an example of buttons that can be used in this case.



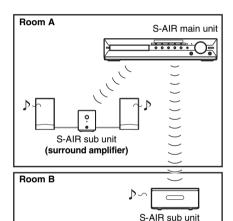
Using an S-AIR Product

The unit is compatible with the S-AIR function (page 88), which allows sound transmission between S-AIR products.

About S-AIR products

There are two types of S-AIR products.

- S-AIR main unit (this unit): This is for transmitting sound. You can use up to three S-AIR main units. (The number of usable S-AIR main units depends on the use environment.)
- S-AIR sub unit: This is for receiving sound.
 - Surround amplifier: You can enjoy surround speaker sound wirelessly.
 - S-AIR receiver: You can enjoy system sound in another room.



Note

 You cannot operate this function if you do not insert the wireless transceiver into the unit correctly (page 22).

(S-AIR receiver)

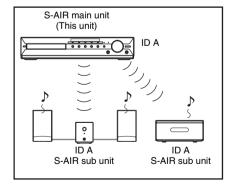
Establishing sound transmission between the unit and S-AIR sub unit (ID setting)

For the surround amplifier For the S-AIR receiver

Simply by matching the ID of the unit and the S-AIR sub unit, you can establish sound transmission

To set the ID of the unit

- 1 Press I/ on the unit.
 The system turns on.
- 2 Press SYSTEM MENU.
- 3 Press ↑/↓ repeatedly until "S-AIR ID" appears in the front panel display, then press ⊕ or →.
- 4 Press ↑/↓ to select the desired ID. You can select any ID (A, B, or C).
- **5** Press \oplus . The setting is made.
- **6** Press SYSTEM MENU.
 The system menu turns off.
- **7** Set the S-AIR sub unit to the same ID. Sound transmission is established as follows (example):



Tip

• To confirm the current ID, perform Steps 1 to 3 above. When you pair the unit with the S-AIR sub

unit (page 64), "(PAIRING)" appears beside ID in the front panel display.

To set the ID of the surround amplifier

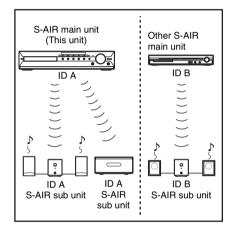
Refer to the operating instructions of the surround amplifier.

To set the ID of the S-AIR receiver

Refer to the operating instructions of the S-AIR receiver.

To use multiple S-AIR main units

You can use multiple S-AIR main units by setting a different ID for each component.



Enjoying the system's sound in another room

For the S-AIR receiver

You can enjoy the system's sound by using the S-AIR receiver. The S-AIR receiver can be placed in another room for enjoying the system's sound there.

For details of the S-AIR receiver, refer to the operating instructions of the S-AIR receiver.

- **1** Press SYSTEM MENU.
- 2 Press ↑/↓ repeatedly until "S-AIR MODE" appears in the front panel display, then press ⊕ or →.

3 Press ↑/↓ to select the desired setting.

- "PARTY": The S-AIR receiver outputs sound according to functions set on the unit.
- "SEPARATE": You can set the desired function for the S-AIR receiver while unit functions do not change.
- 4 Press .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Select the desired function on the S-AIR receiver.

■ When "PARTY" is set

The **S-AIR receiver's** function changes sequentially as you press FUNCTION +/- of the main unit (page 27) or S-AIR CH of the S-AIR receiver.

■ When "SEPARATE" is set

The **S-AIR receiver's** function changes by pressing S-AIR CH of the S-AIR receiver as follows.

```
"MAIN UNIT" → "TUNER FM" →
"TUNER AM" → "DMPORT" →
"AUDIO" → ...
```

To enjoy the same function as the unit, select "MAIN UNIT."

When "TUNER FM" or "TUNER AM" is selected on the unit, you can only select the same band for the tuner on the S-AIR receiver. In this case, when you select other than "TUNER FM" or "TUNER AM" on the unit, you can select any band for the tuner on the S-AIR receiver.

7 Adjust the volume on the S-AIR receiver.

Note

 When the sound is other than 2 channel stereo, multichannel sound is downmixed to 2 channel.

To set "S-AIR MODE" via the remote

Press S-AIR MODE.

The S-AIR mode appears in the front panel display. Each time you press S-AIR MODE, the S-AIR mode changes.

To control the system from the S-AIR receiver

You can control the system from the S-AIR receiver by using the following buttons.

Press	Operation
> , II , ■ ,	Share the same operations on the
I ≪ ✓/►►I	remote and unit.
S-AIR CH	Change the function of the system.

For details, refer to the operating instructions of the S-AIR receiver.

Enjoying the S-AIR receiver while the unit is in standby mode

For the S-AIR receiver

You can enjoy the S-AIR receiver while the unit is in standby mode by setting "S-AIR STBY" to "STBY ON."

- 1 Press SYSTEM MENU.
- 2 Press ↑/↓ repeatedly until "S-AIR STBY" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select the desired setting.
 - "STBY ON": You can enjoy the S-AIR receiver while the unit is in standby mode or turned on. The power consumption during the standby mode increases.
 - "STBY OFF": You cannot enjoy the S-AIR receiver while the unit is in standby mode.

The default setting differs depending on the area.

4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Note

 When you turn the system off while "S-AIR STBY" is set to "STBY ON," "S-AIR" flashes (when sound transmission between the unit and S-AIR receiver is not established), or lights up (when sound transmission between the unit and S-AIR receiver is established) in the front panel display.

Identifying the unit with a specific S-AIR sub unit (Pairing operation)

For the surround amplifier For the S-AIR receiver

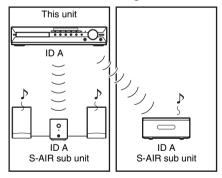
It is easy to set the same ID for the unit and an S-AIR sub unit, such as a surround amplifier or S-AIR receiver, to establish sound transmission. However, neighbors may also receive your system's sound if IDs are the same, or you may receive sound from neighbors. To prevent this, you can identify the unit with a specific S-AIR sub unit by performing the pairing operation.

■ Before pairing

Sound transmission is established by ID (example).

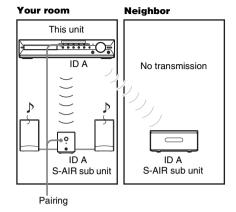
Your room

Neighbor



■ After pairing

Sound transmission is established between the paired unit and S-AIR sub unit(s) only.



To perform pairing

Place the S-AIR sub unit that you want to pair near the unit.

Note

- Remove headphones from the surround amplifier (if connected).
- 2 Match the IDs of the unit and the S-AIR sub unit.
 - To set the ID of the unit, see "To set the ID of the unit" (page 62).
 - To set the ID of the S-AIR receiver, refer to the operating instructions of the S-AIR receiver.
 - To set the ID of the surround amplifier, refer to the operating instructions of the surround amplifier.
- 3 Press SYSTEM MENU.
- 4 Press ↑/↓ repeatedly until "PAIRING" appears in the front panel display, then press ⊕ or →.
- **5** After "START" appears in the front panel display, press \oplus .

The unit starts pairing and "SEARCH" flashes in the front panel display.

To cancel pairing, press SYSTEM MENU.

6 Start pairing of the S-AIR sub unit.

■ For the surround amplifier

Refer to the operating instructions of the surround amplifier.

When sound transmission is established, "PAIRING" and "COMPLETE" appear alternately in the front panel display.

■ For the S-AIR receiver

Refer to the operating instructions of the S-AIR receiver.

When sound transmission is established, "PAIRING" and "COMPLETE" appear alternately in the front panel display.

Note

- Press SYSTEM MENU.

 The system menu turns off.

To cancel pairing

Perform the ID setting of the unit according to the procedure of "To set the ID of the unit." If you select a new ID, pairing is canceled.

If sound transmission is unstable

For the surround amplifier For the S-AIR receiver

If you use multiple wireless systems which share the 2.4 GHz band, such as wireless LAN or Bluetooth, the transmission of S-AIR products or other wireless systems may be unstable. In this case, the transmission may be improved by changing the following "RF CHANGE" setting.

- **1** Press SYSTEM MENU.
- 2 Press ↑/↓ repeatedly until "RF CHANGE" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select the desired setting.
 - "AUTO": Normally select this. The system changes "RF CHANGE" to "ON" or "OFF" automatically.
 - "ON": The system transmits sound by searching for the better channel for transmitting.

- "OFF": The system transmits sound by fixing the channel for transmitting.
- 4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

When you set "RF CHANGE" to "OFF," select the ID so that sound transmission is most stable (page 62).

Note

- In most cases, you will not need to change this setting.
 - If "RF CHANGE" is set to "OFF," transmission between the unit and S-AIR sub unit can be performed using one of the following channels.
 - S-AIR ID A: equivalent channel for IEEE 802.11b/g channel 1
 - S-AIR ID B: equivalent channel for IEEE 802.11b/g channel 6
- S-AIR ID C: equivalent channel for IEEE 802.11b/g channel 11
- 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).

Changing the RF output power

(Only when using the EZW-RT10A wireless transceiver.)

- **1** Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "RF POWER" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select the desired setting.
 - · "HIGH": Normally select this.
 - "LOW": The RF output power is decreased.
- 4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Other Operations

Getting Optimal Surround Sound for a Room

[SPEAKER FORMATION]

Depending on the shape of the room, you cannot install some speakers. For better surround sound, Sony recommends that first you decide the position of the speakers.

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- 2 Press DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

3 Press ↑/↓ to select ☐ [SETUP], then press ⊕.

The options for [SETUP] appear.

Press ↑/↓ to select [CUSTOM], then press ⊕.

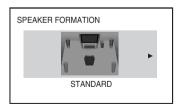
The Setup Display appears.

Fress ↑/↓ to select [AUDIO SETUP], then press ⊕.

The options for [AUDIO SETUP] appear.

6 Press ↑/↓ to select [SPEAKER FORMATION], then press ⊕.

The options for [SPEAKER FORMATION] appear.



Press ←/→ to select a setting.

- [STANDARD]: Select this when you install all the speakers normally.
- [NO CENTER]: Select this when you install the front and surround speakers only
- [NO SURROUND]: Select this when you install the center and front speakers only.
- [FRONT ONLY]: Select this when you install the front speakers only.
- [ALL FRONT]: Select this when you install all the speakers in front of the listening position.
- [ALL FRONT NO CENTER]: Select this when you install the front and surround speakers in front of the listening position.

8 Press \oplus .

The setting is made and the confirmation display appears.

- 9 Press ←/→ to select [YES] or [NO], then press ⊕.
 - [YES]: Continue with [AUTO CALIBRATION]. Follow the procedure from Step 7 of "Calibrating the Appropriate Settings Automatically" (page 67).
 - [NO]: Exit [SPEAKER FORMATION].

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 FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

The options for [SETUP] appear.

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

The Setup Display appears.

5 Press ↑/↓ to select [AUDIO SETUP], then press ⊕.

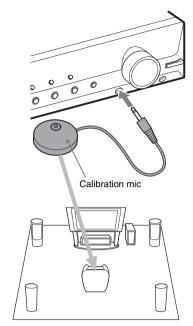
The options for [AUDIO SETUP] appear.

- 6 Press ↑/↓ to select [AUTO CALIBRATION], then press ⊕.

 The options for [AUTO CALIBRATION] appear.
- 7 Connect the calibration mic (supplied) to the A.CAL MIC jack on the front 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.



- 8 Press ←/→ to select [YES].
- 9 Press .

[AUTO CALIBRATION] starts. 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.
- The environment of the room in which the system is installed may affect measurements. When the measurements differ considerably from the status of the speaker installation, perform the speaker settings manually by following "Settings for the speakers" (page 52).
- 10 Press ←/→ to select [YES] or [NO], then press ⊕.

■ The measurement is OK.

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

When you want to cancel the measurement and retry [AUTO CALIBRATION], select [NO].

■ The measurement is not OK.

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

Note

- While the Auto Calibration function is working, do not operate the system.
- The measurement for [SUBWOOFER] is always [YES] since the system does not perform subwoofer calibration, but the [SUBWOOFER] level in [SPEAKER SETUP] returns to the default setting when you perform [AUTO CALIBRATION].

Controlling the TV with the Supplied Remote

You can control the TV (Sony only) by using the following buttons. Use these buttons (other than TV I/U), THEATER, TV INPUT, and TV VOL +/-) while pressing the TV button.

Note

• Depending on the TV, you may not be able to control your TV or to use some of the buttons.

By pressing	You can
TV I/Ů	Turn the TV on/off.
THEATER	Enjoy optimal image quality suited for movies.
TV INPUT	Switch the TV's input source between the TV and other input sources.
TV VOL +/-	Adjust the TV volume.
TV CH +/-*	Select the TV channel.
Number buttons*, ⊙*, ENTER*	Select the TV channel.
TOOLS*	Displays the operation menu for the current display.
RETURN*	Return to the previous channel or layer on the menu of the TV.
MENU*	Display the menu of the TV.
MUTING*	Turn off the TV sound temporarily.
←/↑/↓/→ *, ⊕ *	Select the item on the menu.

^{*} Use these buttons while pressing the TV button.

Using the Sound Effect

Reinforcing bass frequencies

You can reinforce bass frequencies.

Press DYNAMIC BASS.

"D. BASS ON" appears in the front panel display and bass frequencies are effectively reinforced.

To turn off the sound effect

Press DYNAMIC BASS again.

Enjoying the sound at low volume

You can enjoy sound effects or dialogue, as you would in a movie theater, even at low volume. It is useful for watching movies at night.

Press NIGHT.

"NIGHT ON" appears in the front panel display and the sound effect is activated.

Note

- This effect does not work for a Super Audio CD.
 When you load a Super Audio CD during "NIGHT ON," the sound effect turns off automatically.
- When 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, or you are using the headphones,
 the system optimally adjusts the volume.

To turn off the sound effect

Press NIGHT again.

Enhancing compressed sound

You can enhance compressed sound such as an MP3 audio file.

This effect is activated automatically when all the following conditions are satisfied:

 The function is set to "DMPORT" or "AUDIO".

- "DEC. MODE" is set to "A.F.D. STD,""A.F.D. MULTI," or "2CH STEREO".
- Headphones are not connected.

When all the conditions above are satisfied, you can activate/deactivate the effect by pressing DMPORT BOOSTER on the unit. The DMPORT BOOSTER indicator turns on.

To turn off the sound effect

Press DMPORT BOOSTER on the unit so that the DMPORT BOOSTER indicator turns off.

Selecting the Effect to Suit the Source

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

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

- "AUTO": The system automatically selects "MOVIE" (the MOVIE indicator lights up) or "MUSIC" (the MUSIC indicator lights up) to produce the sound effect depending on the source.
- "MOVIE": The system provides the sound for movies. The MOVIE indicator lights up.
- "MUSIC": The system provides the sound for music. The MUSIC indicator lights up.

Note

- When you play a Super Audio CD, this function does not work.
- You cannot operate these setup items when you connect headphones to the unit or surround amplifier.
- When changing the sound mode while using the S-AIR receiver, sound from the S-AIR receiver may skip.

Enjoying Multiplex Broadcast Sound

(DUAL MONO)

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

Note

 To receive a Dolby Digital signal, you need to connect a TV or other component to the unit with an optical or coaxial digital cord (page 18) and set the digital output mode of the TV or other component to Dolby Digital.

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.

Changing the Input Level of the Sound from Connected Components

Distortion may occur when you listen to a component connected to the TV/VIDEO jacks on the rear panel, or to the AUDIO IN jack on the front panel. Distortion is not a malfunction and will depend on the component connected. To prevent distortion, reduce the input level on the unit.

- Press FUNCTION +/- repeatedly until "TV/VIDEO" or "AUDIO" appears in the front panel display.
- 2 Press SYSTEM MENU.
- 3 Press ↑/↓ repeatedly until "ATTENUATE" appears in the front panel display, then press ⊕ or →.
- 4 Press ↑/↓ to select a setting.
 - "ATT ON": You can attenuate the input level. The output level is changed.
 - "ATT OFF": Normal input level.
- **5** Press \oplus .

The setting is made.

6 Press SYSTEM MENU.

The system menu turns off.

Using the Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music. You can preset the time in 1 or 10-minute increments.

Press SLEEP.

Each time you press SLEEP, the minutes display (the remaining time) changes by 10 minutes. When you set the sleep timer, "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.

To cancel the sleep timer function

Press SLEEP repeatedly until "SLEEP OFF" appears in the front panel display.

To set the sleep timer using the system menu

- 1 Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "SLEEP" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select a setting.

The minutes display (the remaining time) changes by 10 minutes.

Tip

- You can select the remaining time by pressing the number buttons. In this case, you can preset the time in 1-minute increments.
- 4 Press \oplus .
- The setting is made and "SLEEP" flashes in the front panel display.
- **5** Press SYSTEM MENU.

The system menu turns off.

Changing the Brightness of the Front Panel Display

You can set the brightness of the front panel display to either of 2 levels.

- 1 Press SYSTEM MENU.
- Press ↑/↓ repeatedly until "DIMMER" appears in the front panel display, then press ⊕ or →.
- 3 Press ↑/↓ to select the brightness of the front panel display.
 - "DIMMER OFF": The front panel display is bright.
 - "DIMMER ON": The front panel display is dark
- 4 Press \oplus .

The setting is made.

5 Press SYSTEM MENU.

The system menu turns off.

Viewing Information About the Disc

 DVD-V
 DVD-VR
 VID€O CD
 Sper Active D
 C D

 DATA-CD
 DATA DVD
 C D
 C D
 C D

Viewing the playing time and remaining time in the front panel display

Press DISPLAY repeatedly.

Each time you press DISPLAY while playing the disc, the display changes:

Some displayed items may disappear after a few seconds.

■ DVD VIDEO/DVD-VR

- 1 Playing time of the current title
- 2 Remaining time of the current title
- 3 Playing time of the current chapter
- 4 Remaining time of the current chapter
- (5) Disc name
- 6 Title and chapter

■ VIDEO CD (without PBC functions)/ Super Audio CD/CD

- 1 Playing time of the current track
- 2 Remaining time of the current track
- 3 Playing time of the disc
- 4 Remaining time of the disc
- (5) Track name
- Track and index*
- * VIDEO CD/Super Audio CD only.

■ Super VCD

- 1 Playing time of the current track
- 2 Track text
- Track and index number

■ DATA CD (MP3 file)/DATA DVD (MP3 file)

- Playing time and current track number
- Track (file) name*
- * If an MP3 file has an ID3 tag, the system will display an album name or title name from the ID3 tag information.

The system can support ID3 ver 1.0/1.1/2.2/2.3. ID3 ver 2.2/2.3 tag information display has priority when both ID3 ver 1.0/1.1 and ver 2.2/2.3 tags are used for a single MP3 file.

Note

- The system can only display the first level of the DVD/CD text, such as the disc name or title.
- If a file name of the MP3 file cannot be displayed, "*" will appear in the front panel display instead.
- The disc name or track name may not be displayed depending on the text.
- Playing time of MP3 files may not be displayed correctly.

Tip

• When the system is playing a VIDEO CD with PBC functions, the playing time is displayed.

Viewing the playing time and remaining time on the TV screen

1 Press DISPLAY during playback.

The following display appears on the TV screen.



2 Press DISPLAY repeatedly to change the time information.

The display and the kinds of time that you can check depend on the disc you are playing.

■ DVD VIDEO/DVD-VR

• T **:**

Playing time of the current title

• T-**·**

Remaining time of the current title

• C **:**:**

Playing time of the current chapter

• C-**·**

Remaining time of the current chapter

■ VIDEO CD (with PBC functions)

• **:**

Playing time of the current scene

■ VIDEO CD (without PBC functions)/ Super Audio CD/CD

• T **:**

Playing time of the current track

• T-****

Remaining time of the current track

• D **:**

Playing time of the current disc

• D-**:**

Remaining time of the current disc

■ DATA CD (MP3 file)/DATA DVD (MP3 file)

• T **:**

Playing time of the current track

Note

- Characters/marks may not be displayed in some languages.
- Depending on the type of disc being played, the system can only display a limited number of characters. Also, depending on the disc, not all text characters will be displayed.

Checking the play information of the disc

To check DVD/Super Audio CD/CD text

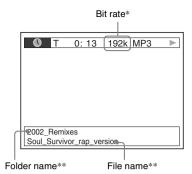
Press DISPLAY repeatedly during playback to display text recorded in the DVD/Super Audio CD/CD.

The DVD/Super Audio CD/CD text appears only when text is recorded in the disc. You cannot change the text. If the disc does not contain text, "NO TEXT" appears.



To check DATA CD/DATA DVD (MP3 file) text

By pressing DISPLAY while playing MP3 files on a DATA CD/DATA DVD, you can display the name of the folder/MP3 file, and the audio bit rate (the amount of data per second of the current audio) on the TV screen.



- * The bit rate appears when the system is playing an MP3 file on a DATA CD/DATA DVD.
- **If an MP3 file has the ID3 tag, the system will display an album name or title name from the ID3 tag information.

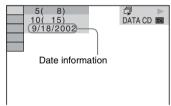
The system can support ID3 ver 1.0/1.1/2.2/2.3. ID3 ver 2.2/2.3 tag information display has priority when both ID3 ver 1.0/1.1 and ver 2.2/2.3 tags are used for a single MP3 file.

Checking the date information of a JPEG image file

You can check the date information during playback when the Exif* tag is recorded in the JPEG image file.

Press DISPLAY during playback.

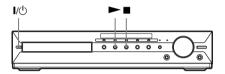
The Control Menu display appears on the TV screen.



 "Exchangeable Image File Format" is a digital camera image format defined by the Japan Electronics and Information Technology Industries Association (JEITA).

Returning to the Default Settings

Returning the system parameters, such as preset stations, to the default settings



- 1 Press I/ $^{\circ}$ to turn on the system.
- Press ■, ►, and I/() on the unit at the same time.

"COLD RESET" appears in the front panel display and the system returns to default settings.

Returning the [SETUP] settings to the default

You can return the [SETUP] settings (page 47) other than [PARENTAL CONTROL] to the default settings.

- Press FUNCTION +/- repeatedly until "DVD" appears in the front panel display.
- 2 Press © DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

The options for [SETUP] appear.

Press ↑/↓ to select [CUSTOM], then press ⊕.

The Setup Display appears.

Press ↑/↓ to select [SYSTEM SETUP], then press ⊕.

The options for [SYSTEM SETUP] appear.

- **6** Press ↑/↓ to select [RESET] and press →.
- 7 Press ←/→ to select [YES].

You can also quit the process and return to the Control Menu display by selecting [NO] here.

8 Press \oplus .

Do not press **I**/**(**) while resetting the system as it takes a few seconds to complete.

Note

• The [MEDIA], [INTERVAL], [EFFECT], and [MULTI/2CH] settings also return to the default settings.

Additional Information

Precautions

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 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.
- Keep the system and discs away from components with strong magnets, such as microwave ovens, or large loudspeakers.
- · Do not place heavy objects on the system.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the unit. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any disc. If you don't, 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 benzine.

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 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

- 1 Press FUNCTION +/- repeatedly to select "DVD."
- 2 Make sure that all discs are removed from the unit.
- Press

 and I/
 imultaneously. "MECHA LOCK" and "UNPLUG" appear alternately in the front panel display.
- 4 Remove the AC power cord (mains lead) from the wall outlet (mains).

About S-AIR function

- As the S-AIR product(s) transmits sound by radio waves, sound may skip when radio waves are obstructed. This is a characteristic of radio waves and is not malfunction.
- As the S-AIR product(s) transmits sound by radio waves, equipment that generates electromagnetic energy, such as a microwave oven, may prevent sound transmission.
- As the S-AIR product(s) uses the radio waves that share the same frequency as other wireless systems, such as wireless LAN or Bluetooth devices it may occur interference or poor transmission as a result. In this case, take the following steps to enhance the transmission of signals:
 - Avoid placing the S-AIR product(s) near other wireless systems.
 - Avoid using the S-AIR product(s) and the other wireless systems spontaneously.
 - 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).
- The transmission distance differs depending on the usage of environment. Find a location where transmission between the S-AIR main unit and sub unit is most effective, and install the S-AIR main unit and sub unit there.
- Place the S-AIR product(s) on the stable surface off the floor.
- Poor transmission may occur and the transmission distance may be too short if the following conditions exist:
 - There is a wall/floor made of reinforced concrete or stone between the S-AIR product(s).
- There is an iron divider/door or furniture/electric product made of fireproof glass, metal, etc., between the S-AIR product(s).

Notes about the Discs

On handling discs

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





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

On cleaning

• Before playing, clean the disc with a cleaning cloth.

Wipe the disc from the center out.



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

This system can only play 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.

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 S-AIR function, have a Sony dealer check the entire system together (main unit and S-AIR sub unit).

Power

Symptom	Remedy	
The power is not turned on.	• Check that the AC power cord (mains lead) is connected securely.	
	• Press I/O after "STANDBY" disappears from the front panel display.	
If "PROTECTOR" and "PUSH	Press \(\frac{1}{\cup} \) to turn off the system, and check the following items after	
POWER" appear alternately in	"STANDBY" disappears.	
the front panel display.	• 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. 	

Picture

Symptom Remedy			
There is no picture.	• The video connecting cords are not connected securely.		
	• The video connecting cords are damaged.		
	• The unit is not connected to the correct TV input jack (page 17).		
	• The video input on the TV is not set so that you can view pictures from the		
	system.		
	• Check the output method on your system (page 17).		
	 You have set progressive format but your TV cannot accept the signal in progressive format. In this case, return the setting to interlace format (the default setting) (page 26). 		
	• Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set progressive format. In this case, return the setting to interlace format (the default setting) (page 26).		
	• Re-connect the connecting cord securely.		
	• 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 17).		
	• If the HDMI OUT jack is used for video output, change the type of video signal output from the HDMI OUT jack. It may solve the problem (page 26). Connect the TV and the unit using a video jack other than the HDMI OUT, and switch the TV's input to the connected video input so that you can see the onscreen displays. Change the type of video signal output from the HDMI OUT jack, and switch the TV's input back to HDMI. If the picture still does not appear, repeat the Steps and try other options. • You have set [PROGRESSIVE (COMPONENT OUT)] in [VIDEO SETUP] to		
	 [ON] (page 49) even though your TV cannot accept the progressive signal. In this case, disconnect the HDMI cable from the unit and then set it to [OFF]. • If you are using the "DMPORT" function, the video signal is output from the NIDEO OUT inch cash. 		
Diatura naisa annaara	VIDEO OUT jack only.		
Picture noise appears.	 The disc is dirty or flawed. If the picture output from your system goes through your VCR to get to your TV, the copy-protection signal applied to some DVD programs could affect picture quality. If you experience problems when you connect your unit through your VCR, try connecting your unit to your TV's video input directly (page 17). 		
Even though you set the aspect ratio in [TV TYPE] of [VIDEO SETUP], 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.		
	• If the speakers are used with a CRT-based TV or projector, install the speakers at least 0.3 meters (1.0 ft) from the TV set.		
	\bullet If the color irregularity persists, turn off the TV set once, then turn it on after 15 to 30 minutes.		
	 If howling occurs, reposition the speakers farther away from the TV set. Make sure that no magnetic object (magnetic latch on a TV stand, health care device, toy, etc.) is placed near the speakers. 		

Sound

Symptom	Remedy			
There is no sound.	• The speaker cord is not connected securely.			
	• Press MUTING on the remote if "MUTING ON" is displayed in the front panel display.			
	• The system is in pause mode or in Slow-motion Play mode. Press ▷ to return to normal play mode.			
	• Fast forward or fast reverse is being performed. Press ▷ to return to normal play mode.			
	• Check the speaker settings (page 52).			
	• Super Audio CD audio signals are not output from the HDMI OUT jack.			
	 The component connected to the HDMI OUT jack does not conform to the audio signal format, in this case set [AUDIO (HDMI)] in [HDMI SETUP] to [ON] (page 50). 			
No sound is output from the	• Set [AUDIO (HDMI)] in [HDMI SETUP] to [ON] (page 50).			
HDMI OUT jack.	• The HDMI OUT jack is connected to a DVI (Digital Visual Interface) device (DVI (Digital Visual Interface) jacks do not accept audio signals).			
	• The HDMI OUT jack does not output Super Audio CD sound.			
	• Try the following: ① Turn the system off and on again. ② Turn the connected component off and on again. ③ Disconnect and then connect the HDMI cable again.			
The left and right sounds are unbalanced or reversed.	• Check that the speakers and components are connected correctly and securely.			
There is no sound from the subwoofer.	• Check the speaker connections and settings (pages 16, 52).			
Severe hum or noise is heard.	Check that the speakers and components are connected securely.			
	• Check that the connecting cords are away from a transformer or motor, and at least 3 meters (10 ft) away from your TV set or a fluorescent light.			
	• Move your TV away from the audio components.			
	• The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.			
	• Clean the disc.			
The sound loses stereo effect	• Select stereo sound by pressing AUDIO (page 33).			
when you play a VIDEO CD, a CD, or an MP3 file.	• Make sure the unit is connected properly.			
The surround effect is difficult to	• Check the "DEC. MODE" setting (page 28).			
hear when you are playing a	• Check the speaker connections and settings (pages 16, 52).			
sound track of Dolby Digital,	• Depending on the DVD, the output signal may not be the entire 5.1 channel. It			
DTS, or MPEG audio.	may be monaural or stereo even if the sound track is recorded in Dolby Digital or MPEG audio format.			
The sound comes from the center speaker only.	Depending on the disc, the sound may come from the center speaker only.			
No sound is heard from the	• Check the speaker connections and settings (pages 16, 52).			
center speaker.	• Check the "DEC. MODE" setting (page 28).			
	• Depending on the source, the effect of the center speaker may be less noticeable.			
	• A 2 channel source is being played.			

Symptom	Remedy	
No sound or only a very low-	Check the speaker connections and settings (pages 16, 52).	
level sound is heard from the	 Check the "DEC. MODE" setting (page 28). 	
surround speakers.	• Depending on the source, the effect of the surround speakers may be less noticeable.	
	• A 2 channel source is being played.	
There is no sound from the	• The sampling frequency of the input stream is more than 48 kHz.	
DIGITAL IN COAXIAL/		
OPTICAL jack.		
Noise is heard on AM radio.	• Check the location of the AM loop antenna (aerial) and cord (page 21).	

Operation

Symptom	Remedy		
Radio stations cannot be tuned in.	Check that the antenna (aerial) is connected securely. Adjust the antenna (aerial) or connect an external antenna (aerial) if necessary.		
	• The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning.		
	 No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (page 55). 		
The remote does not function.	• There are obstacles between the remote and the unit.		
	• The distance between the remote and the unit is too far.		
	• The remote is not pointed at the remote sensor on the unit.		
	• The batteries in the remote are weak.		
The disc does not play.	• There is no disc inserted.		
	• The disc is upside down.		
	Insert the disc with the playback side facing down.		
	• The disc is skewed on the disc tray.		
	• The system cannot play CD-ROMs, etc. (page 7).		
	• 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.		
The MP3 file 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).		
	• The MP3 file does not have the extension ".mp3."		
	• The data is not formatted in MP3 even though it has the extension ".mp3."		
	• The data is not MPEG1 Audio Layer 3 data.		
	• The system cannot play audio tracks in MP3PRO format.		
	• Check the [MEDIA] setting (page 44).		
The JPEG image file cannot be	• The DATA CD is not recorded in ISO 9660 Level 1/Level 2, or Joliet.		
played.	• The DATA DVD is not recorded in UDF (Universal Disk Format).		
	• It has an extension other than ".jpeg" or ".jpg."		
	• It is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in progressive JPEG image file which is mainly used on Internet Web sites.		
	• It does not fit the TV screen (those images are reduced).		
	• Check the [MEDIA] setting (page 44).		
The titles of folder/file/file name are not displayed correctly.	• The system can only display numbers and letters of the alphabet. Other characters are displayed as [*].		

Symptom	Remedy		
A disc does not start playing from the beginning.	 Program Play, Shuffle Play, or Repeat Play has been selected. Press CLEAR to cancel these functions before playing a disc. 		
	 Resume Play has been selected. During stop, press ■ on the unit or the remote and then start playback (page 35). 		
	• The title, DVD or PBC menu automatically appears on the TV screen.		
The system starts playing the disc automatically.	The DVD features an auto playback function.		
Playback stops automatically.	• Some discs may contain an auto pause signal. While playing such a disc, the system stops playback at the auto pause signal.		
You cannot perform some functions such as stop, search, Slow-motion Play, or Repeat Play.	• Depending on the disc, you may not be able to perform some of these operations. Refer to the operating instructions supplied with the disc.		
Messages do not appear on the TV screen in the language you want.	• In the Setup Display, select the desired language for the on-screen display in [OSD] under [LANGUAGE SETUP] (page 48).		
The language for the sound track cannot be changed.	 Multilingual tracks are not recorded on the DVD being played. The DVD prohibits changing the language for the sound track. 		
The subtitle language cannot be changed.	 Multilingual subtitles are not recorded on the DVD being played. The DVD prohibits changing the subtitles. 		
The subtitle cannot be turned off.	• The DVD prohibits turning off subtitles.		
The angles cannot be changed.	 Multi-angles are not recorded on the DVD being played (page 33). The DVD prohibits changing the angles. 		
A disc cannot be ejected and "LOCKED" appears in the front panel display.	Contact your Sony dealer or local authorized Sony service facility.		
[Data error] appears on the TV screen when playing a DATA CD or DATA DVD.	The MP3 file/JPEG image file you want to play is broken. The data is not MPEG1 Audio Layer 3 data. The JPEG image file format does not conform to DCF.		
The system does not work normally.	 The file has the extension ".jpg" or ".jpeg," but is not in JPEG format. Disconnect the AC power cord (mains lead) from the wall outlet (mains), ther reconnect after several minutes. 		
The Control for HDMI function does not work.	When "HDMI" does not light up in the front panel display, check the HDMI connection (page 17). Set [CONTROL FOR HDMI] in [HDMI SETUP] to [ON] (page 50). Make sure that the connected component is compatible with the [CONTROL FOR HDMI] function. Check that the AC power cord (mains lead) of the connected component is connected securely.		
	 Check the connected component's setting for the Control for HDMI function Refer to the operating instructions supplied with the component. If you change the HDMI connection, connect and disconnect the AC power cord (mains lead), or have a power failure, set [CONTROL FOR HDMI] in [HDMI SETUP] to [OFF], then set [CONTROL FOR HDMI] in [HDMI SETUP] to [ON] (page 50). For details, see "Using the Control for HDMI Function for "BRAVIA" Sync' (page 58). 		

Symptom	Remedy
No sound is output from the	• Set [AUDIO (HDMI)] in [HDMI SETUP] to [ON] (page 50).
system and TV while using the System Audio Control function.	• Make sure that the connected TV is compatible with the System Audio Control function.
	 For details, see "Using the Control for HDMI Function for "BRAVIA" Sync" (page 58).

The S-AIR function

Symptom	Remedy		
S-AIR connection is not established (sound transmission	• If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away		
is not established), e.g., the	• Confirm the S-AIR IDs of the unit and S-AIR sub unit (page 62).		
indicator of the S-AIR sub unit does the following:	 Another S-AIR sub unit is paired to the S-AIR main unit. Pair the desired S-AIR sub unit with the S-AIR main unit (page 64). 		
• Turns off. • Flashes.	• Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.		
• Turns red.	Avoid using any other wireless devices.		
	• The S-AIR sub unit is turned off. Make sure the AC power cord (mains lead) is connected and turn on the S-AIR sub unit.		
No sound is heard from the S-AIR sub unit.	• If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away from the S-AIR main unit you are using.		
	• Confirm the S-AIR IDs of the unit and S-AIR sub unit (page 62).		
	• Confirm the pairing setting (page 64).		
	• Place so that the S-AIR main unit and S-AIR sub unit closer together.		
	 Avoid use of equipment that generates electromagnetic energy, such as a microwave oven. 		
	• Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.		
	• Avoid using any other wireless devices.		
	• Change the "RF CHANGE" setting (page 65).		
	• Change the S-AIR ID settings of the S-AIR main unit and S-AIR sub unit.		
	• Turn off the system and S-AIR sub unit, then turn on them.		
There is noise or the sound skips.	• If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away from the S-AIR main unit you are using.		
	• Place so that the S-AIR main unit and S-AIR sub unit closer together.		
	• Avoid use of equipment that generates electromagnetic energy, such as a		
	microwave oven.		
	• Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.		
	• Avoid using any other wireless devices.		
	• Change the "RF CHANGE" setting (page 65).		
	• Change the S-AIR ID settings of the S-AIR main unit and S-AIR sub unit.		

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the TV screen or front panel display. In this case, check the following table.



First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty.
	→ Clean the disc with a soft cloth (page 77).
C 31	The disc is not inserted correctly.
	→ Restart the system, then re-insert the disc correctly.
EXX	To prevent a malfunction, the
(XX is a	system has performed the self-
number)	diagnosis function.
	→Contact your nearest Sony
	dealer or local authorized Sony
	service facility and give the 5-
	character service number.
	Example: E 61 10

When the version number appears on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.



Specifications

AUDIO POWER SPECIFICATIONS for the U.S. model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

> With 3 ohms loads, both channels driven from 180 - 20,000 Hz; rated 84 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milli

watts to rated output.

Amplifier Section

Surround mode (reference) RMS output power

FL/FR/C/SL/SR*: 144 watts (per channel at 3 ohms, 1 kHz, 10% THD) Subwoofer*: 280 watts (at 1.5 ohms, 80 Hz, 10% THD)

* Depending on the decoding mode settings and the source, there may be no sound output.

Inputs (Analog)

TV/VIDEO (AUDIO IN) Sensitivity: 450/250 mV Sensitivity: 250/125 mV AUDIO IN

Inputs (Digital)

TV/VIDEO (COAXIAL IN/OPTICAL IN)

Impedance: 75 ohms/-Input Stream: Dolby Digital 5.1ch/DTS 5.1ch/

Linear PCM 2ch (Sampling Frequency: less

than 48 kHz)

Outputs (Analog)

Phones Accepts low- and highimpedance headphones.

Super Audio CD/DVD System

Laser Diode Properties **Emission Duration:**

Continuous

Laser Output: Less than

44.6µW

* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

Signal format system NTSC

Tuner Section

System PLL quartz-locked digital

synthesizer

FM tuner section Tuning range

North American 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

10.7 MHz

Intermediate frequency

AM tuner section Tuning range

North American, Mexican, and Latin American

models:

530 kHz - 1.710 kHz (with the interval set at 10 kHz) 531 kHz - 1,710 kHz (with the interval set at 9 kHz)

European, CIS, and Middle Eastern models:

531 kHz - 1,602 kHz (with the interval set at 9 kHz)

Australian and New Zealand models:

531 kHz - 1.710 kHz (with the interval set at 9 kHz) 530 kHz - 1,710 kHz (with the interval set at 10 kHz)

Other models: 531 kHz - 1.602 kHz (with

> the interval set at 9 kHz) 530 kHz - 1.610 kHz (with the interval set at 10 kHz)

Antenna (aerial) AM loop antenna (aerial)

Intermediate frequency 450 kHz

Video Section

VIDEO: 1 Vp-p 75 ohms Outputs

> COMPONENT: Y: 1 Vp-p 75 ohms Рв/Св, Pr/Cr: 0.7 Vp-p

75 ohms

HDMI OUT: Type A (19

pin)

Speakers

Front (SS-TS94)

Speaker system Full range Bass reflex Speaker unit 65 mm (2 5/8 in) cone type

Rated impedance 3 ohms

 $103 \text{ mm} \times 225 \text{ mm} \times 91$ Dimensions (approx.)

mm $(4^{-1}/8 \text{ in} \times 8^{-7}/8 \text{ in} \times$

 $3^{5}/8$ in) (w/h/d) Mass (approx.) 0.7 kg (1 lb 9 oz)

Center (SS-CT91)

Speaker system Full range Bass reflex,

> Magnetically Shielded $65 \text{ mm} (2^{5}/8 \text{ in}) \text{ cone type}$

Speaker unit

Rated impedance 3 ohms Dimensions (approx.) $265 \text{ mm} \times 94 \text{ mm} \times 77 \text{ mm}$

 $(10^{1/2} \text{ in} \times 3^{3/4} \text{ in} \times 3^{1/8} \text{ in})$

(w/h/d)

Mass (approx.) 0.7 kg (1 lb 9 oz)

Surround (SS-TS92)

Speaker system Full range Bass reflex

Speaker unit 65 mm (2 ⁵/₈ in) cone type

Rated impedance 3 ohms

Dimensions (approx.) $103 \text{ mm} \times 164 \text{ mm} \times 94$

mm $(4^{1}/8 \text{ in} \times 6^{1}/2 \text{ in} \times$

3 ³/₄ in) (w/h/d)

Mass (approx.) 0.5 kg (1 lb 2 oz)

Subwoofer (SS-WS95)

Speaker system Subwoofer Bass reflex Speaker unit 160 mm (6 3/8 in) cone type

Rated impedance 1.5 ohms

Dimensions (approx.) $225 \text{ mm} \times 395 \text{ mm} \times 325$

mm (8 7 /s in × 15 5 /s in ×

12 ⁷/s in) (w/h/d)

Mass (approx.) 6.5 kg (14 lb 6 oz)

General

Power requirements 120 V AC, 60 Hz

Power consumption On: 160 W

Standby: 0.3 W (at the

Power Saving mode)
Output voltage (DIGITAL MEDIA PORT)

DC 5 V

Output current (DIGITAL MEDIA PORT)

700 mA

Dimensions (approx.) $430 \text{ mm} \times 85 \text{ mm} \times 420$

mm (17 in \times 3 ³/s in \times 16 ⁵/s in) (w/h/d) incl. projecting parts

430 mm \times 85 mm \times 450 mm (17 in \times 3 $^{3}/_{8}$ in \times 17 $^{3}/_{4}$ in) (w/h/d) with the wireless transceiver

inserted

Mass (approx.) 5.2 kg (11 lb 8 oz)

Wireless transceiver (EZW-RT10/EZW-RT10A)

Communication system S-AIR Specification

version 1.0

Frequency band 2.4000 GHz - 2.4835 GHz

Modulation method DSSS

Power requirements DC 3.3 V, 350 mA

Dimensions (approx.) $50 \text{ mm} \times 13 \text{ mm} \times 60 \text{ mm}$

 $(2 \text{ in} \times \frac{17}{32} \text{ in} \times 2^{3}/8 \text{ in}) (\text{w/}$

h/d)

Mass (approx.) 24 g (1 oz)

Supported file format

MP3 (MPEG 1 Audio Layer-3)

File Extension: mp3

Bitrate: 32 kbps - 320 kbps Sampling frequencies: 32/44.1/48 kHz

Design and specifications are subject to change

without notice.

Glossary

Digital Cinema Auto Calibration

Digital Cinema Auto Calibration was developed by Sony to automatically measure and adjust the speaker settings to your listening environment in a short period of time.

Digital Direct Twin Drive Subwoofer

Utilizing Sony proprietary S-master technology, the Digital Direct Twin Drive Subwoofer features two S-master Digital Amplifiers that provide dedicated power to a strategically located subwoofer for astounding sound performance. Easy to set up, Digital Direct Twin Drive Subwoofer provides a stable sound field over a much larger listening area without having to adjust frequency levels.

Dolby Digital

This movie theater sound format is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range, and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" with the subwoofer channel designed as the 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately for superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from 2 channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

■ Movie mode

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced sound field directionality that approaches the quality of discrete 5.1-channel sound.

■ Music mode

The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space.

Dolby Surround Pro Logic

As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from 2 channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Surround Pro Logic, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.

DTS

Digital audio compression technology developed by DTS, Inc. This technology conforms to 5.1-channel surround. This format is comprised of a stereo rear channel and a discrete subwoofer channel. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized due to the all channel data being recorded discretely and processed digitally.

HDMI (High-Definition Multimedia Interface)

HDMI is an interface that supports both video and audio on a single digital connection, allowing you to enjoy high quality digital picture and sound. The HDMI specification supports HDCP (High-bandwidth Digital Content Protection), a copy protection technology that incorporates coding technology for digital video signals.

Interlace format (Interlaced scanning)

The interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice - alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

Parental Control

A function of the DVD to limit playback of the disc by the age of users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated,

playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Progressive format (sequential scanning)

In contrast to the interlace format, the progressive format can reproduce 50 - 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

S-AIR (Sony Audio Interactive Radio frequency)

Recent times have seen the rapid spread of DVD media, Digital Broadcasting, and other high-quality media.

To ensure that the subtle nuances of these highquality media are transmitted with no deterioration, Sony has developed a technology called "S-AIR" for the radio transmission of digital audio signals with no compression, and has incorporated this technology into the EZW-RT10/EZW-RT10A/EZW-T100.

This technology transfers digital audio signals with no compression using the 2.4 GHz band range of ISM band (Industrial, Scientific, and Medical band), also used by wireless LANs and Bluetooth applications.

Super Audio CD

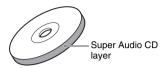
Super Audio CD is a new high-quality audio disc standard where music is recorded in the DSD (Direct Stream Digital) format (conventional CD is recorded in the PCM format). The DSD format, using a sampling frequency 64 times higher than that of a conventional CD, and with 1-bit quantization, achieves both a wide frequency range and a wide dynamic range across the audible frequency range, and so provides music reproduction extremely faithful to the original sound.

■ Super Audio CD types

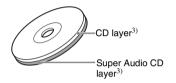
There are two types of discs, depending on the Super Audio CD layer and CD layer combination

- Super Audio CD layer: A high-density signal layer for Super Audio CD
- CD layer¹⁾: A layer that is readable by a conventional CD player

Single layer disc (a disc with a single Super Audio CD layer)

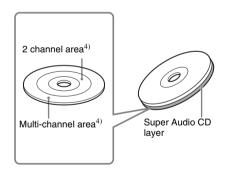


 $\label{eq:hybrid} \mbox{Hybrid disc}^{2)} \mbox{ (a disc with a Super Audio CD layer and a CD layer)}$



A Super Audio CD layer consists of the 2 channel area or the multi-channel area.

- 2 channel area: An area in which 2 channel stereo tracks are recorded
- Multi-channel area: An area in which multichannel (up to 5.1 channels) tracks are recorded



¹⁾You can play the CD layer on a conventional CD player.

²⁾Since both layers are on one side, it is not necessary to turn the disc over.

³⁾To select a layer, see "Changing a playback layer for a hybrid Super Audio CD" (page 34).

⁴⁾To select an area, see "Selecting a playback area for a Super Audio CD" (page 34).

Playback priority of file types

The table below describes the playback priority of file types under the [MEDIA] setting.

File type			
	[MUSIC/PHOTO]	[РНОТО]	[MUSIC]
JPEG image files only	JPEG image files	JPEG image files	JPEG image files
MP3 files only	MP3 files	MP3 files	MP3 files
MP3 files and JPEG image files	MP3 files and JPEG image files with slide show	JPEG image files	MP3 files

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-	1684 Chinese
1166 Fiji	1332 Lithuanian	Croatian	1697 Zulu
1171 Faroese	1334 Latvian;	1503 Singhalese	
1174 French	Lettish	1505 Slovak	
1181 Frisian	1345 Malagasy	1506 Slovenian	1703 Not specified
	ũ,		•

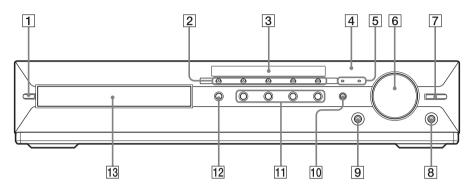
Parental Control Area Code List

Code Area	Code Area	Code Area	Code Area
Code Area	Code Area	Code Area	Code Area
2044 Argentina	2165 Finland	2362 Mexico	2149 Spain
2047 Australia	2174 France	2376 Netherlands	2499 Sweden
2046 Austria	2109 Germany	2390 New Zealand	2086 Switzerland
2057 Belgium	2248 India	2379 Norway	2528 Thailand
2070 Brazil	2238 Indonesia	2427 Pakistan	2184 United
2079 Canada	2254 Italy	2424 Philippines	Kingdom
2090 Chile	2276 Japan	2436 Portugal	
2092 China	2304 Korea	2489 Russia	
2115 Denmark	2363 Malaysia	2501 Singapore	

Index to Parts and Control

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

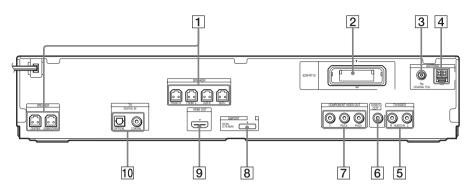
Front panel



- 1 I/U (on/standby) (24, 74)
- 2 DISC 1-5 buttons/indicators (31)
- 3 Front panel display (93)
- 4 (remote sensor) (11)
- 5 MOVIE/MUSIC indicator (70)
- 6 VOLUME control (31)
- 7 DMPORT BOOSTER (69)

- 8 PHONES jack (31)
- 9 AUDIO IN/A.CAL MIC jack (19, 24, 67)
- 10 FUNCTION (27)
- 11 Play operation buttons (31)
- 12 **△** (open/close) (31)
- 13 Disc tray (31)

Rear panel

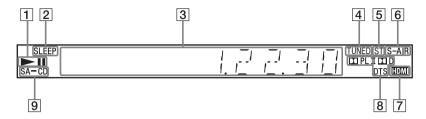


- 1 SPEAKER jacks (16)
- 2 EZW-RT10 slot (22)
- 3 COAXIAL 75 Ω FM jack (21)
- 4 AM terminal (21)
- 5 TV/VIDEO (AUDIO IN R/L) jacks (18)
- 6 VIDEO OUT jack (17)

- 7 COMPONENT VIDEO OUT jacks (17)
- 8 DMPORT (DIGITAL MEDIA PORT) jack (19, 60)
- 9 HDMI OUT jack (17)
- 10 TV/VIDEO (DIGITAL IN COAXIAL/ OPTICAL) jacks (18)

Front panel display

About the indications in the front panel display



- 1 Playing status
- 2 Flashes when the sleep timer is set. (71)
- 3 Displays the system's status such as chapter, title, or track number, time information, radio frequency, playing status, decoding mode, etc.
- 4 Lights up when a station is received. (Radio only) (55)
- 5 Stereo/Monaural effect (Radio only) (56)
- 6 Lights up when the S-AIR transceiver is inserted in the unit and the system transmits the sound. (61)

- Zights up when the HDMI OUT jack is correctly connected to HDCP (Highbandwidth Digital Content Protection) compliant device with HDMI or DVI (Digital Visual Interface) input. (17)
- 8 Current surround format (Except for JPEG image file)
- 9 Lights up when a Super Audio CD/CD is loaded. (34)

Remote control

ALPHABETICAL ORDER

A - O

ANGLE 3 (33)
AUDIO 16 (33)
CLEAR 22 (36, 56)
D.TUNING 22 (56)
DISC SKIP 33 (31)
DISPLAY 21 (57, 72)
DVD MENU 25 (39)
DVD TOP MENU 13 (39)
DYNAMIC BASS 6 (69)
ENTER 24 (68)

FUNCTION +/- 2 (27, 31) MENU 25 (68)

MUTING **7** (31) NIGHT **23** (69)

ONE-TOUCH PLAY 35 (59)

P – Z

PICTURE NAVI 15 (42)
PRESET +/- 27 (56)
S-AIR MODE 4
SLEEP 17 (71)

SOUND MODE **5** (70) SUBTITLE **22** (33)

SYSTEM MENU **24** (23, 28, 55,

THEATER 18 (58) TOOLS 26 (68)

TUNING +/- 10 (55)

TV 29 (68) TV CH +/- 27 (68)

TV INPUT 20 (68)
TV VOL. +/- 34 (68)

VOLUME +/- **8** (31)

BUTTON DESCRIPTIONS

Number buttons 14 (35, 55, 68) (1) (on/standby) 1 (23, 24, 31)

TV 1/() (on/standby) 19 (68)

←/↑/→/ ⊕ 12 (23, 24, 34, 36, 55, 66)

←•/•→ REPLAY/ADVANCE 9 (31)

► 27 (31)

◄◄/▶▶ 10 (31)

STEP **◄**II/II▶ **9** (31) SLOW **◄**I/I▶ **10** (31)

SLOW \triangleleft [10] (31) \triangleright (play) $\boxed{30}$ (31)

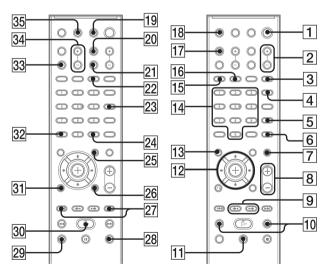
(stop) 28 (31)

■ (stop) [28] (31)
■ (pause) [11] (31)

DISPLAY* **26** (24, 34, 36, 47,

60, 93)
8 RETURN 31 (35, 68)

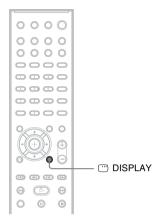
· 32 (68)



* This button is available for the "DVD" or "DMPORT" function. Depending on the DIGITAL MEDIA PORT adapter, this button may not work.

Guide to the Control Menu Display

You can use the Control Menu display to select a function and to view related information.



Press DISPLAY repeatedly.

Each time you press DISPLAY, the Control Menu display changes:

$$0 \rightarrow 2 \rightarrow ... \rightarrow 0 \rightarrow ...$$

- ① Control Menu display 1
- ② Control Menu display 2 (appears when available)
- 3 Control Menu display off

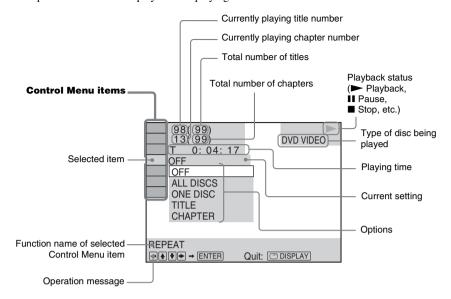
Note

• The Control Menu Display appears during the "DVD" function.

Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type. For details, see the pages in parentheses.

Example: Control Menu display 1 when playing a DVD VIDEO.



To turn off the display

Press
DISPLAY.

List of Control Menu items

Item	Item Name, Function, Relevant Disc Type
0≦	[TITLE] (page 39)/[SCENE] (page 39)/[TRACK] (page 39) You can select the title, scene, or track to be played. DVD-V DVD-V VIDCO CD
	[CHAPTER] (page 39)/[INDEX] (page 39) You can select the chapter or index to be played.
	[INDEX] (page 39) You can display the index and select the index to be played.
Л	TRACK] (page 39) You can select the track to be played. CD DATA-CD DATA DVD Some AutoCD
۰۲	[ORIGINAL/PLAY LIST] (page 39) You can select the type of titles (DVD-RW/DVD-R) to be played, the [ORIGINAL] one, or an edited [PLAY LIST].
0	TIME] (page 40) You can check the elapsed time and the remaining playback time. You can play from a desired point by inputting the time code (DVD VIDEO/DVD-VR only).
СН	[MULTI/2CH] (page 34) You can select the playback area on a Super Audio CD when available.
9 ‡	[SUPER AUDIO CD/CD LAYER] (page 34) You can select the playback layer on a Super Audio CD when available.
900 m	[PROGRAM] (page 36) You can select the track to play in the order you want.

⁶ 66	[SHUFFLE] (page 37) You can play the tracks/files in random order. VIDGO CD DATA-CD DATA-CD DATA-DD D
Ģ	[REPEAT] (page 38) You can play all discs repeatedly, the entire disc (all titles/all tracks/all folders/all files) repeatedly, or one title/chapter/track/folder/file repeatedly. DVD-V
• = 2	[A/V SYNC] (page 45) You can adjust the delay between the picture and sound. DVD-VI
C ₌	[DISC MENU] (page 39) You can display the DVD's menu.
	[BROWSING] (page 44) You can display the list of folders/JPEG image files. DATE-CD DATE-DD
≘	[SETUP] (page 47) [QUICK] (page 24) You can make the basic adjustments. Use Quick Setup to select the desired language of the on-screen display, the aspect ratio of the TV, and select yes or no to start the Auto Calibration. [CUSTOM] In addition to the Quick Setup setting, you can adjust various other settings. DVD-V DVD-V VIDCO CD DATA DVD SQC ALCD
	[FOLDER] (page 39) You can select the folder to be played. DATA-CD DATA-CD DATA-CD
	[FILE] (page 39) You can select the JPEG image file to be played. DATE-CD DATE-CD DATE-CD
	[DATE] (page 74) You can display the date the picture was taken by a digital camera. DATA-CD DATA-CD DATA-CD
5 0	[INTERVAL] (page 43) You can select the duration for which the slides are displayed on the TV screen. DATA DVD
	[EFFECT] (page 44) You can select the effects to be used for changing slides during a slide show.
S⇔⊠	[MEDIA] (page 44) You can select the data type (MP3 file, JPEG image file, or both MP3 file and JPEG image file) to be played on a DATA CD/DATA DVD.

Tip

[•] The Control Menu icon indicator lights up in yellow when you select any item except [OFF] ([PROGRAM], [SHUFFLE], [REPEAT], and [A/V SYNC] only). The [ORIGINAL/PLAY LIST] indicator lights up in yellow when you select [PLAY LIST] (default setting). The [MULTI/2CH] indicator lights up in yellow when you select the multi-channel playback area on a Super Audio CD.

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