

**SONY**<sup>®</sup>

4-143-190-12(1)

# Micro HI-FI Component System

Operating Instructions  
CMT-DH70SWR  
CMT-DH50R



**HDMI**<sup>™</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE



**S-master**  
Digital Amplifier

## WARNING

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.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

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

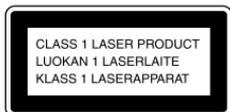
Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

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

## CAUTION

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

### Except for customers in the U.S.A. and Canada



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

### **Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.**

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan.

The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.

For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.



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

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.  
Applicable accessories: Remote commander



**Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)**

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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## About this manual

- The instructions in this manual are for models CMT-DH70SWR and CMT-DH50R. Each model consists of the following components.

### **CMT-DH70SWR**

Main Unit:

HCD-DH70SWR

Speaker system:

SS-CDH70SWR (Front speakers)

SA-WDH70SWR (Subwoofer)

### **CMT-DH50R**

Main Unit:

HCD-DH50R

Speaker system

European and Russian models:

SS-CDH50R2 (Front speakers)

Asian models:

SS-CDH50R (Front speakers)

In this manual, the CMT-DH70SWR is used for illustration purposes unless stated otherwise.

- Icons, such as **DVD-V**, listed at the top of each explanation indicate what kind of media can be used with the function being explained.
- The Control Menu items may be different depending on the disc.
- The Control Menu items may vary depending on the area.
- The Setup Menu items may be different depending on the area.
- The order of the displayed items may be different from the actual display.



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# Playable discs

Type	Disc logo	Characteristics	Icon
DVD VIDEO	     	<ul style="list-style-type: none"> <li>• DVD VIDEO</li> <li>• DVD-R/DVD-RW in DVD VIDEO format or video mode</li> <li>• DVD+R/DVD+RW in DVD VIDEO format</li> </ul>	
VR (Video Recording) mode	 	<ul style="list-style-type: none"> <li>• DVD-R/DVD-RW in VR (Video Recording) mode (except for DVD-R DL)</li> </ul>	
VIDEO CD		<ul style="list-style-type: none"> <li>• VIDEO CD (Ver. 1.1 and 2.0 discs)</li> <li>• Super VCD</li> <li>• CD-R/CD-RW/CD-ROM in video CD format or Super VCD format</li> </ul>	
CD		<ul style="list-style-type: none"> <li>• Audio CD</li> <li>• CD-R/CD-RW in audio CD format</li> </ul>	

Type	Disc logo	Characteristics	Icon
DATA CD		<ul style="list-style-type: none"> <li>CD-R/CD-RW/CD-ROM in DATA CD format, containing MP3 files, JPEG image files, DivX video files and MPEG4 video files, and conforming to ISO 9660 Level 1/Level 2, or Joliet (extended format)</li> </ul>	
DATA DVD		<ul style="list-style-type: none"> <li>DVD-ROM/DVD-R/DVD-RW/DVD+R/DVD+RW in DATA DVD format, containing MP3 files, JPEG image files, DivX video files and MPEG4 video files, and conforming to UDF (Universal Disk Format)</li> </ul>	

- MP3 files: MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data. MP3 files must be in MPEG1 Audio Layer 3 format.
- JPEG image files: 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” (JEITA)).
- DivX video files: DivX video files must be recorded in DivX format with the extension “.avi” or “.divx”.
- MPEG4 video files: MPEG4 video files must be recorded in MP4 file format with the extension “.mp4” or “.m4v”.
- ISO 9660: A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

## Discs that cannot be played

- CD-ROMs recorded in PHOTO CD format
- DATA CDs recorded in MP3 PRO format
- Data part of CD-Extras<sup>1)</sup>
- Data part of Mixed CDs<sup>2)</sup>
- Super Audio CDs
- DVD Audio discs
- DVD-RAMs
- CPRM compatible DVD-R/RW recorded in Copy-once programs<sup>3)</sup>
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched

<sup>1)</sup> CD-Extra: This format records audio (AUDIO CD data) on the tracks in session 1 and data on the tracks in session 2.

<sup>2)</sup> Mixed CD: This format records data on the first track and audio (AUDIO CD data) on the second and subsequent tracks of a session.

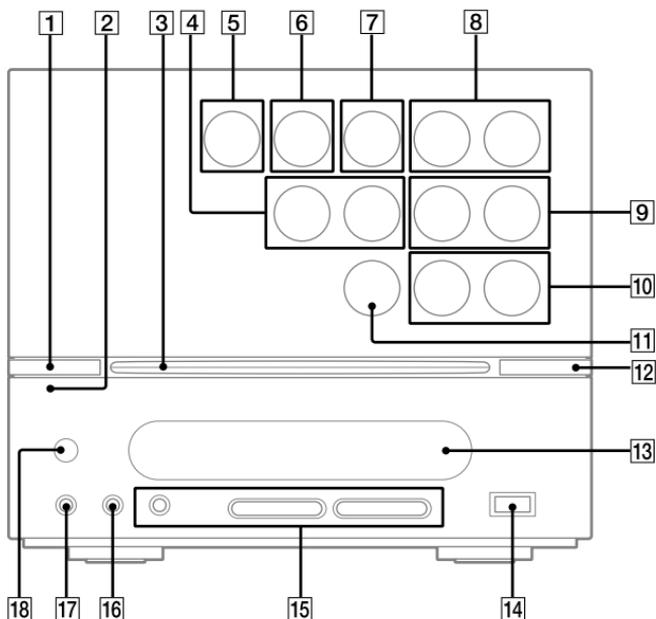
<sup>3)</sup> CPRM: “Content Protection for Recordable Media” is a coding technology that protects copyright for Copy-Once programs.

See “Region code of DVD VIDEOS you can play back on this system” and “Notes on discs” (page 117) regarding the region code and notes on discs.

## Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

### Main Unit



**1**  
I/⏻ (power) button (page 23, 71, 113)  
Press to turn on or off the system.

**2**  
STANDBY indicator (page 100)  
Lights up when the system is turned off.

**3**  
Disc slot

Continued

**4**

**⏮/⏭** (go backward/  
forward) buttons (page 34, 36, 40,  
52, 80)

Press to select a track, chapter or video  
file.

**PRESET +/-** buttons (page 68,  
84)

Press to select the preset station.

**5**

**▶** (play) button (page 25, 35, 36,  
71, 76, 79)

Press to start playback.

**6**

**⏸** (pause) button (page 36)

Press to pause playback.

**7**

**■** (stop) button (page 24, 36, 37,  
38, 40, 67, 70, 71)

Press to stop playback.

**8**

**FUNCTION +/-** buttons (page 25,  
67, 74, 75, 85, 113)

Press to select the function.

**9**

**📁 +/-** buttons (page 36, 74,  
113)

Press to select a folder.

**10**

**VOLUME +/-** buttons (page 17,  
35)

Turn to adjust the volume.

**11**

**REC TO USB** button (page 71, 76,  
77)

Press to transfer music from a disc or  
record the sound from an analog audio  
source to the connected optional USB  
device.

Press to mark track numbers during  
recording.

**12**

**⏏** (eject) button (page 24, 35)

Press to eject a disc.

**13**

**Display** (page 21)

**14****↔ (USB) port (page 70, 75, 77)**

Connect an optional USB device.

**15****(Except for European models)****MIC jack (page 85)**

Connect a microphone.

**MIC LEVEL +/- control (page 85)**

Press the left or right side of the control to adjust the microphone volume.

**ECHO LEVEL +/- control (page 85)**

Press the left or right side of the control to adjust the echo level.

**16****AUDIO IN jack (page 75, 98)**

Connect an optional component such as a portable audio player.

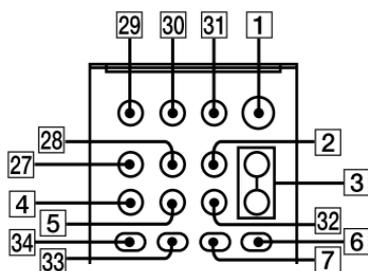
**17****PHONES jack**

Connect the headphones.

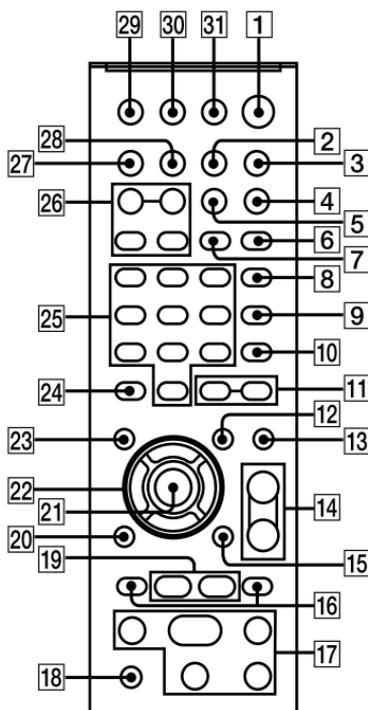
**18****Remote sensor**Continued 

## Remote

(European models only)



(Except for European models)



**1**

**I/⏻** (power) button (page 23, 71)  
Press to turn on or off the system.

**2**

**TIMER MENU** button (page 32, 90, 91)

Press to set the clock and the timers.

**3**

**FUNCTION** button (page 25, 67, 74, 75, 85, 113)

Press to select the function.

**FUNCTION +/-** buttons (page 25, 67, 74, 75, 85, 113)

Press to select the function.

**4**

**DISPLAY** button (page 25, 93, 113)

Press to change (to) the clock display.

**5**

**DIMMER** button (page 92)

Press to choose the brightness option for the display.

**6**

**PICTURE NAVI** button (page 51, 79)

Press to display the thumbnail pictures.

**7**

(European models only)

**REPEAT** button (page 51, 83)

Press to listen to a disc, a USB device, a single track or file repeatedly.

(Except for European models)

**REPEAT/FM MODE** button (page 50, 68, 83, 112)

Press to listen to a disc, a USB device, a single track or file repeatedly.

Press to select FM reception mode (monaural or stereo).

**8**

**AUDIO** button (page 38, 85, 96, 98)

Press to select the desired audio signal on the TV screen.

**9**

**SUBTITLE** button (page 37)

Press to switch the language of the subtitle (DVD VIDEO only).

Continued 

**10**

**ANGLE button (page 37)**

Press to change the angle (DVD VIDEO with multi-angles only).

**MEMORY SELECT button (page 71)**

Connect a Sony Ericsson mobile phone to the unit.

Press to choose the internal memory or a Memory Stick on the Sony Ericsson mobile phone, for playback or transferring music.

**11**

 **+/- buttons (page 36, 74)**

Press to select a folder.

**12**

(European models only)

**DVD/USB MENU button (page 38, 51, 54, 78, 99)**

Press to turn on or off the menu items on the TV screen.

(Except for European models)

**DVD/USB/TUNER MENU button (page 38, 51, 54, 67, 78, 99)**

Press to turn on or off the menu items on the TV screen.

Press to preset the radio station.

**13**

(European models only)

**EQ button (page 84)**

Press to choose "BASS" or "TREBLE" for adjustment.

(Except for European models)

**EQ/DSGX button (page 84)**

Press to choose "BASS" or "TREBLE" for adjustment, or "DSGX" to turn it on/off.

14

**VOLUME +/-<sup>2)</sup> buttons (page 35)**

Press to adjust the volume.

**TV VOL +/-<sup>1)2)</sup> buttons (page 32)**

Press to adjust the TV volume.

15

**☐ DISPLAY button (page 27, 34, 47, 72, 97, 124)**

Press to turn on or off the Control Menu on the TV screen.

The Control Menu is displayed only when the “DVD” function or “USB” function is selected.

16

**PRESET +/- buttons (page 68, 84)**

Press to select the preset station.

**⏮/⏭ (go backward/forward) buttons (page 34, 36, 40, 52, 80)**

Press to select a track, chapter or video file.

**TV CH +/-<sup>1)</sup> buttons (page 32)**

Press to change the TV channels.

17

**▶<sup>2)</sup> (play) button (page 35, 36, 71, 76, 79)**

Press to start playback.

**⏸ (pause) button (page 12, 36)**

Press to pause playback.

**■ (stop) button (page 36, 37, 38, 40, 67, 70, 71)**

Press to stop playback.

**⏮/⏭ (rewind/fast forward) buttons (page 36)**

Press to find a point in a track, file, chapter or video file.

**◀ SLOW/SLOW ▶ buttons (page 36)**

Press to watch the slow-motion play.

**TUNING +/- buttons (page 67)**

Press to tune in the desired station.

18

**TV<sup>1)</sup> button (page 32)**

Press to operate the TV functions.

Continued 

19

◀|| STEP ||▶ buttons (page 36)

Press to play one frame at a time when playback is paused.

ADVANCE ●→ button (page 36)

Press to advance the current scene during playback.

◀● REPLAY button (page 36)

Press to replay the previous scene during playback.

20

♻️ RETURN button (page 40, 52, 74, 80)

Press to return to the previous menu on the TV screen.

21

ENTER button (page 27, 32, 67, 72, 82, 87, 90, 114)

Press to enter the settings.

22

▲/▼/◀/▶ buttons (page 27, 31, 32, 36, 57, 67, 72, 73, 82, 84, 87, 90, 114)

Press to select the menu items.

23

DVD TOP MENU button (page 36)

Press to display the DVD title on the TV screen.

24

CLEAR button (page 33, 42, 47, 48, 52, 74, 80, 82)

Press to delete a pre-programmed track or file.

Press to delete files or folders from the connected optional USB device.

-/--<sup>1)</sup> button (page 32)

Press to enter a single digit or double digit number.

25

Numeric buttons<sup>2)</sup> (page 32, 36, 42, 57, 68)

Press to select a track, chapter or video file.

Press to enter a password.

10/0<sup>1)</sup> button

Press to enter a double digit number.

**26**

(Except for European models)  
**KEY CONTROL **b**/**#** buttons (page 86)**

Press to change the key to suit your vocal range.

**SCORE button (page 89)**

Press to start or stop calculating your vocal score.

**KARAOKE PON button (page 86)**

Press to activate the “Karaoke Pon” function.

**27**

**SLEEP button (page 90)**

Press to set the Sleep Timer.

**TV/VIDEO button<sup>1)</sup> (page 32)**

Press to switch the TV’s input source between the TV and other input sources.

**28**

**TIME/TEXT button (page 93, 95)**

Press to change the information appearing in the front panel display or on-screen display.

**29**

**THEATRE button (page 44)**

Press to operate the “Theater Mode” function (one of the convenient BRAVIA Sync features).

**30**

**ONE-TOUCH PLAY button (page 44)**

Press to operate the “One-Touch Play” function (one of the convenient BRAVIA Sync features).

**31**

**TV I/⏻ (power)<sup>1)</sup> button (page 32)**

Press to turn on or off the TV.

**32**

**DSGX button (page 84)**

Press to enter DSGX (Dynamic Sound Generator X-tra) mode.

Continued 

**33**

(European models only)

**FM MODE button (page 68, 112)**

Press to select FM reception mode (monaural or stereo).

**34**

(European models only)

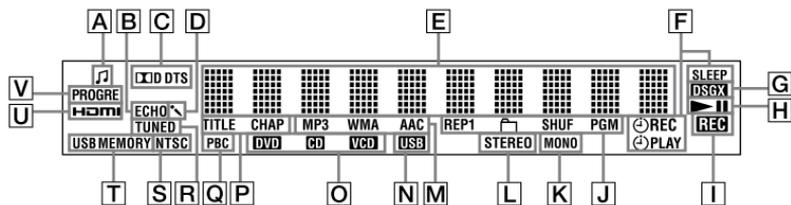
**TUNER MEMORY button (page 67)**

Press to preset the radio station.

<sup>1)</sup> This button is used to operate a Sony TV. For details, see "Operating a Sony TV" (page 32).

<sup>2)</sup> The numeric button 5, TV VOL +, VOLUME + and ▷ buttons on the remote have a tactile dot. Use the tactile dot as a reference when operating the system.

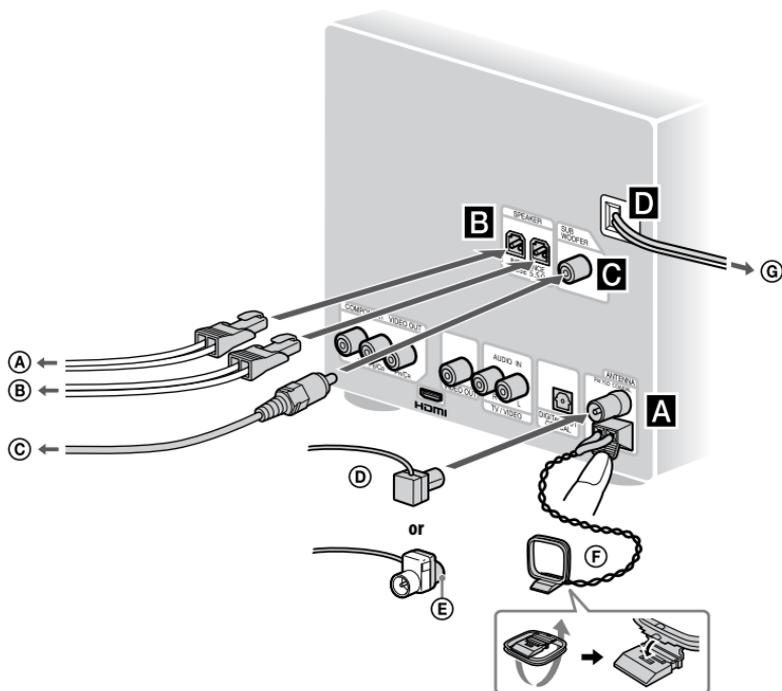
## Display



- A** Lights up when a track or file information is displayed.
- B** Lights up when the microphone echo is turned on (except for European models). (page 85)
- C** Indicates the current surround format.
- D** Lights up when the Karaoke mode is turned on (except for European models). (page 85)
- E** Displays the text information.
- F** Lights up when the timer is set. (page 90)
- G** Lights up while the DSGX (Dynamic Sound Generator X-tra) mode is On. (page 84)
- H** Indicates the playback status of the disc or USB device.
- I** Lights up during transferring or recording. (page 75)
- J** Indicates the selected play mode. (page 36, 46, 48, 49, 74, 82, 83)
- K** Lights up when monaural sound for an FM stereo program is selected. (page 67)
- L** Lights up when a FM stereo program is tuned in. (page 68)
- M** Indicates the file format.
- N** Lights up when the “USB” function is selected. (page 74)
- O** Indicates the type of disc being played back.
- P** Lights up when the title or chapter number is displayed.
- Q** Lights up when playing VIDEO CD with PBC function. (page 40)
- R** Lights up when a radio station is tuned in. (page 67)
- S** Lights up when the output video signal is NTSC.
- T** Lights up when the USB device is correctly connected. (page 70)
- U** Lights up when the HDMI OUT jack is correctly connected to a TV. (page 25, 26)
- V** Lights up when “PROGRESSIVE (COMPONENT OUT)” is set to “ON.” (page 30)

## Getting Started

### Hooking up the system securely



- A** To right speaker
- B** To left speaker
- C** To subwoofer (CMT-DH70SWR only)
- D** FM lead antenna (Extend it horizontally.)

- E** Connect Brown side
- F** AM loop antenna
- G** To wall outlet

**A FM/AM antennas**

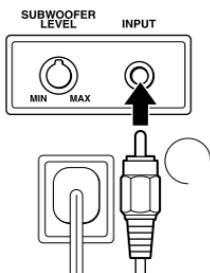
Find a location and an orientation that provide good reception, and then set up the antenna.

Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.

**B Speakers****C Subwoofer (CMT-DH70SWR only)**

Connect the supplied subwoofer to the unit using the supplied speaker cord. The subwoofer turns on when the unit turns on. The volume of the subwoofer will be adjusted automatically according to the volume of the unit.

If you want to adjust the bass level, turn SUBWOOFER LEVEL on the rear side of the subwoofer.

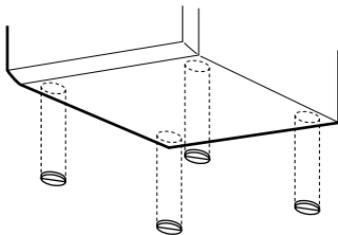
**D Power**

Connect the power cord to a wall outlet. Press I/O to turn on the system.

If the supplied adaptor on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adaptor).

**Attaching the speaker pads**

Attach the supplied speaker pads at each corner on the bottom of the speakers to prevent them from slipping.

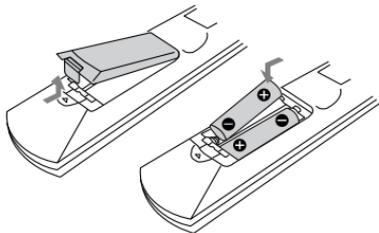
**Front speakers (Left (4)/Right (4))/ Subwoofer\* (4)**

\* CMT-DH70SWR only

Continued

## Inserting batteries

Slide and remove the battery compartment lid, and insert the two supplied R6 (size AA) batteries,  side first, matching the polarities shown below.



### Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

### Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

## When carrying this system

Perform the following procedure to protect the DVD mechanism. Use buttons on the unit for the operation.

- 1 Press  to turn on the system.
- 2 Press FUNCTION +/- repeatedly to select "DVD."
- 3 Make sure that no disc is inserted in the system and check that "No Disc" appears in the display.
- 4 Unplug the power cord.

## Hooking up the TV

If your TV is equipped with an HDMI input jack, connect the HDMI OUT jack to the TV's HDMI input jack.

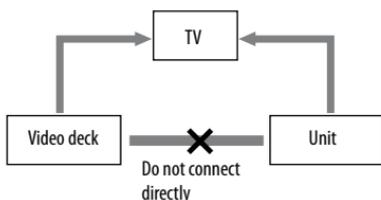
If your Sony TV has the BRAVIA Sync function, you can use the various BRAVIA Sync features (page 44) by establishing the HDMI connection.

Connection methods in order of best image quality are as follows:

HDMI OUT jack (page 26) →  
COMPONENT VIDEO OUT jacks (page 29) → VIDEO OUT jack (page 31)

### When connecting a video deck

Connect the video deck to the TV using a video cord (not supplied). However, do not connect this unit to the TV through the video deck. Otherwise, you may experience video leakage when watching video images from this system. Connect this unit directly to the TV as shown below.



## Changing the color system

(Except for European and Russian models)

Set the color system to PAL or NTSC depending on the color system of your TV.

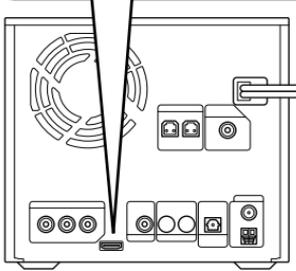
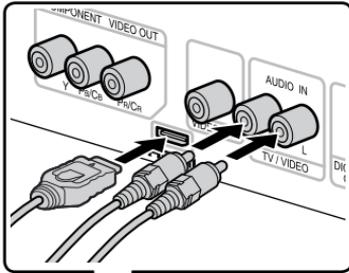
The default setting for color system is different depending on the area.

Each time you perform the procedure below, the color system changes as follows:

NTSC ↔ PAL

- 1 Press I/⏻ to turn on the system.
- 2 Press FUNCTION (or FUNCTION +/− on the unit) repeatedly to select “DVD.”
- 3 Press I/⏻ to turn off the system.
- 4 Press DISPLAY repeatedly until the clock appears in the display. (Skip this step if “CONTROL FOR HDMI” is set to “ON” (page 29).)
- 5 Press I/⏻ on the unit while holding down ► on the unit (page 12). The system turns on automatically and the color system is changed. “COLOR NTSC” or “COLOR PAL” appears in the display.

## Choosing the HDMI OUT connection



- 1 Connect the HDMI OUT jack to the TV's HDMI input jack using the optional HDMI cable.
- 2 Connect the TV/VIDEO AUDIO IN jacks to the TV's audio output jacks using the optional audio cords.

### Tip

You need to connect the TV/VIDEO AUDIO IN jacks to the TV's audio output jacks to use the "Theater Mode" and "System Audio Control" features among the five BRAVIA Sync features for the system.

### Selecting the type of video signal output from the HDMI OUT jack

When you have connected the unit to the TV with the HDMI cable, select the type of video signals output from the HDMI OUT jack according to your TV if necessary. For information on your TV, refer to your TV's operating instructions.

- 1 Turn on the TV and press I/⏻ to turn on the system.
- 2 Switch the TV to the input connected to the system's HDMI OUT jack.

- 3 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "DVD."
- 4 Press  DISPLAY when playback is stopped.  
The Control Menu appears on the TV screen.
- 5 Press  or  repeatedly to select  (SETUP), then press ENTER.  
The options for "SETUP" appear.
- 6 Press  or  repeatedly to select "CUSTOM," then press ENTER.  
The Setup Menu appears.
- 7 Press  or  repeatedly to select "HDMI SETUP," then press ENTER.  
The options for "HDMI SETUP" appear.
- 8 Press  or  repeatedly to select "HDMI RESOLUTION," then press ENTER.
- 9 Press  or  repeatedly to select the desired setting, then press ENTER.
  - AUTO (1920 × 1080p): The system outputs the optimal video signal for the connected TV.
  - 1920 × 1080i: The system outputs 1920 × 1080i<sup>1)</sup> video signals.
  - 1280 × 720p: The system outputs 1280 × 720p<sup>2)</sup> video signals.
  - 720 × 480/576p: The system outputs 720 × 480/576p<sup>2)</sup> video signals.

<sup>1)</sup> i: interlace

<sup>2)</sup> p: progressive

## Preparing to use the “BRAVIA Sync” features

By establishing the HDMI connection between the system and your TV equipped with the BRAVIA Sync function, you can use the following convenient BRAVIA Sync features (page 44):

- Theater Mode
- One-Touch Play
- System Power Off
- Language Follow
- System Audio Control

### Enabling the BRAVIA Sync function

You need to activate the Control for HDMI function for both the TV and the system to use the BRAVIA Sync function. If you perform the “QUICK” setup (page 33), you can change the Control for HDMI function setting during the procedure as well as the language and TV type settings. In this case, activate the Control for HDMI function for the TV later (refer to your TV’s operating instructions).

If your TV is compatible with the “Control for HDMI—Easy Setting” function, you may use this function to activate the Control for HDMI for both the TV and the system at the same time by operating the TV. For details, refer to your TV’s operating instructions.

If you need to perform the Control for HDMI procedure separately for the system, perform the following.

- 1 Turn on the TV and press I/⏻ to turn on the system.
- 2 Set the TV’s input source to the HDMI input.
- 3 Set the Control for HDMI function for the TV referring to your TV’s operating instructions.

Continue to the next step to set the Control for HDMI function for the system.

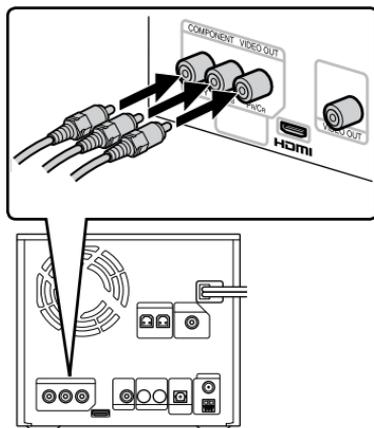
- 4 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select “DVD.”
- 5 Press ⏻ DISPLAY while the system is in stop mode.  
The Control Menu appears on the TV screen.
- 6 Press ⬆ or ⬇ repeatedly to select  (SETUP), then press ENTER.  
The options for “SETUP” appear on the TV screen.

- 7 Press **▲** or **▼** repeatedly to select "CUSTOM," then press ENTER.  
The Setup Display appears.
- 8 Press **▲** or **▼** repeatedly to select "HDMI SETUP," then press ENTER.  
The options for "HDMI SETUP" appear.
- 9 Press **▲** or **▼** repeatedly to select "CONTROL FOR HDMI," then press ENTER.  
The options for "CONTROL FOR HDMI" appear.
- 10 Press **▲** or **▼** repeatedly to select "ON," then press ENTER.
  - **ON:** The Control for HDMI function (page 63) on the system side is enabled.
  - **OFF:** The Control for HDMI function is disabled.

#### Notes

- If "Please verify the HDMI connection." appears, check that the HDMI connection is established correctly.
- Displayed items vary depending on the country model.

### Choosing the COMPONENT VIDEO OUT connections



- 1 Connect the COMPONENT VIDEO OUT jacks to your TV's component video input jacks using the optional component video cords.
- 2 Switch the TV to the input connected to the system's COMPONENT VIDEO OUT jacks.
- 3 Perform "Changing the format of the video signal output from COMPONENT VIDEO OUT jacks" (page 30).

Continued 

## Changing the format of the video signal output from COMPONENT VIDEO OUT jacks

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

You can output video signals from COMPONENT VIDEO OUT jacks in Interlace or Progressive format.

- 1 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "DVD."
- 2 Press  DISPLAY when playback is stopped.  
The Control Menu appears on the TV screen.
- 3 Press  or  repeatedly to select  (SETUP), then press ENTER.  
The options for "SETUP" appear.
- 4 Press  or  repeatedly to select "CUSTOM," then press ENTER.  
The Setup Menu appears.

- 5 Press  or  repeatedly to select "VIDEO SETUP," then press ENTER.  
The options for "VIDEO SETUP" appear.
- 6 Press  or  repeatedly to select "PROGRESSIVE (COMPONENT OUT)," then press ENTER.  
The options for "PROGRESSIVE (COMPONENT OUT)" appear.
- 7 Press  or  repeatedly to select the desired setting, then press ENTER.  
The default setting is underlined.
  - OFF: Outputs interlace signals.  
Select this setting when:
    - your TV does not accept progressive signals.
    - your TV is connected to jacks other than the COMPONENT VIDEO OUT jacks.
  - ON: Outputs progressive signals.  
Select this setting when:
    - your TV accepts progressive signals.
    - your TV is connected to the COMPONENT VIDEO OUT jacks.

When you select "ON," the confirmation display appears. Follow the steps below.

8 Press ◀ or ▶ repeatedly to select "START," then press ENTER.  
The system outputs the progressive signal for 5 seconds. Check that the screen is displayed correctly.

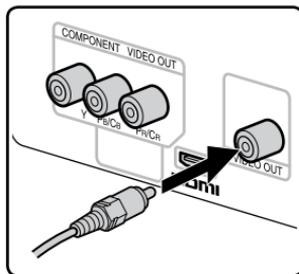
9 Press ◀ or ▶ repeatedly to select "YES."  
The system outputs the progressive signal. When you select "NO," the system does not output the progressive signal.

**Note**

There would be no image on your TV or the image is not clear if your setting does not match your TV or connection.

## Choosing the VIDEO OUT connection

Using the supplied video cord, connect the VIDEO OUT jack to the video input jack of your TV.



Continued

## When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

### Operating a Sony TV

You can use the following buttons to operate a Sony TV. These buttons have been marked in yellow.

For the BRAVIA Sync functions, see “Using the “BRAVIA Sync” features” (page 44).

To	Press
Turn the TV on or off	TV I/⏻
Switch the TV's input source between the TV and other input sources	TV/VIDEO while holding down TV
Select the TV channels	TV CH +/- or numeric buttons* while holding down TV
Adjust the volume of the TV speaker(s)	TV VOL +/- while holding down TV

\* For double digit number, hold down TV and press -/-, then press the number. (For example, hold down TV, press -/-, then 2 and 5 for entering 25.)

## Setting the clock

Use buttons on the remote to set the clock.

When you have connected the unit to the wall outlet for the first time, begin from Step 2 in the following procedures.

- 1 Press I/⏻ to turn on the system.
- 2 Press TIMER MENU.  
The hour indication flashes in the display.  
If “PLAY SET?” flashes in the display, press ↑ or ↓ repeatedly to select “CLOCK SET?,” then press ENTER.
- 3 Press ↑ or ↓ repeatedly to set the hour, and then press ENTER.
- 4 Use the same procedure to set the minutes.

### Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

### To save power in standby mode

You can turn off the clock display while the system is in standby mode to save power (page 93). To enter Power Saving Mode, “CONTROL FOR HDMI” must be set to “OFF” (page 29).

## Performing “QUICK” setup

Before using the system, you can make the minimum basic adjustments in “QUICK” setup. If you do not want to perform “QUICK” setup, press CLEAR in Step 3. The guide message will disappear from the TV screen.

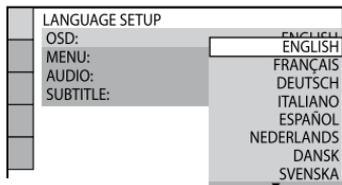
- 1 Turn on your TV and select the video input.
- 2 Press I/⏻ to turn on the system.

### Notes

- Make sure there is no disc in the unit. Otherwise, the guide message does not appear.
- Make sure that the headphone or microphone is not connected. Otherwise, you cannot perform “SPEAKER SETUP.”

- 3 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select “DVD.” The guide message appears at the bottom of the TV screen.

- 4 Press ENTER without inserting a disc. “LANGUAGE SETUP” appears on the TV screen.



- 5 Press ▲ or ▼ repeatedly to select a language, then press ENTER. The setting is selected and “VIDEO SETUP” appears on the TV screen.

### Tips

- The selected language is for “OSD,” “MENU” and “SUBTITLE.”
- The selectable language is different depending on the area.

Continued

- 6** Press **▲** or **▼** repeatedly to select the setting that matches your TV type, then press ENTER.

**If you have a 4:3 standard TV:**

Select “4:3 LETTER BOX” or “4:3 PAN SCAN” (page 61).

**If you have a wide-screen TV or a 4:3 standard TV with wide-screen mode:**

Select “16:9” (page 61).

The Setup Display for the Control for HDMI function appears.

- 7** Press **▲** or **▼** repeatedly to select the setting.

- **ON:** The Control for HDMI function (page 63) is set to on (activated).
- **OFF:** The Control for HDMI function is set to off (deactivated).

- 8** Press ENTER.

The setting is selected and “QUICK SETUP is complete.” appears on the TV screen.

The system is ready for playback. If you want to change each setting individually, see “Using the Setup Menu” (page 59).

**To quit “QUICK” setup**

Press **⏏** DISPLAY.

**To recall “QUICK” setup settings**

- 1** Press **⏏** DISPLAY when playback is stopped.  
The Control Menu appears on the TV screen.
- 2** Press **▲** or **▼** repeatedly to select **⚙️** (SETUP), then press ENTER.
- 3** Press **▲** or **▼** repeatedly to select “QUICK,” then press ENTER.

**Note**

The guide message appears at the bottom of the TV screen when you turn on the system for the first time or after performing “RESET” (page 114).

## Disc

### Playing a disc

DVD-V   DVD-VR   VIDEO 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 the disc.

#### Note on the maximum number of tracks, files and folders on a DATA CD/DVD

This system cannot play a DATA CD/DVD in the following cases.

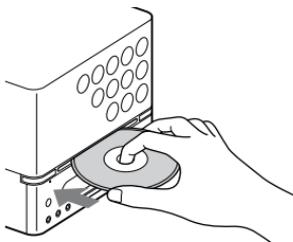
- When the number of tracks or files on a folder exceeds 150.
- When the number of folders on a disc exceeds 200.

These numbers may vary depending on the track structure, the file structure and the folder structure.

- 1 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "DVD."

- 2 Insert a disc in the disc slot with the label side facing up.

If playback does not start automatically, press  $\triangleright$  (or  $\blacktriangleright$  on the unit).



- 3 Press VOLUME +/- to adjust the volume.

#### Notes

- Depending on the system status, the volume level may not appear on the TV screen.
- When you turn on the system, the disc is not pulled into the disc slot until "No Disc" appears in the display. Do not attempt to push in the disc until "No Disc" appears.
- Do not insert an 8 cm disc with an adaptor. Doing so may cause the system to malfunction.

#### To remove a disc

- 1 Press  $\blacktriangle$ .
- 2 Hold the disc at its edges and pull it straight out of the disc slot. (Do not touch the surface of the disc.)

## Other operations

To	Do this
Stop playback	Press <b>■</b> . To resume playback where you stopped the disc, press <b>▷</b> (or <b>▶</b> on the unit). To play back from the beginning of the disc, press <b>■</b> twice, then press <b>▷</b> (or <b>▶</b> on the unit).
Pause playback	Press <b>  </b> <sup>1)</sup> . Press <b>  </b> again or press <b>▷</b> (or <b>▶</b> on the unit) to resume playback.
Select a track, audio file, chapter or video file <sup>2)</sup>	Press <b>◀◀</b> or <b>▶▶</b> repeatedly during playback. Or, press the numeric buttons when the Control Menu is turned off, then press ENTER <sup>3)</sup> .
Select a title <sup>4)</sup>	Press DVD TOP MENU, then press <b>▲/▼/◀/▶</b> or numeric buttons.
Select a folder <sup>5)</sup>	Press <b>📁 +/-</b> repeatedly during playback or when playback is paused.

To	Do this
Locate a point quickly in fast forward or fast reverse (Lock Search) <sup>6)</sup>	Press <b>◀◀</b> or <b>▶▶</b> during playback. Each time you press <b>◀◀</b> or <b>▶▶</b> , the playback speed changes cyclically <sup>7)</sup> . To return to normal playback, press <b>▷</b> (or <b>▶</b> on the unit).
Watch frame by frame (Slow-motion Play) <sup>8)</sup>	Press <b>◀   SLOW</b> or <b>SLOW ▶  </b> when playback is paused. Each time you press <b>◀   SLOW</b> or <b>SLOW ▶  </b> , the playback speed changes. <sup>9)</sup> To return to normal playback, press <b>▷</b> (or <b>▶</b> on the unit).
Play one frame at a time (Freeze Frame) <sup>8)</sup>	Press <b>◀   STEP</b> or <b>STEP   ▶</b> to reverse or advance frame by frame when playback is paused. Each time you press <b>◀   STEP</b> or <b>STEP   ▶</b> , the frame changes. <sup>9)</sup> To return to normal playback, press <b>▷</b> (or <b>▶</b> on the unit).
Replay the previous scene (Instant Replay) <sup>10)</sup>	Press <b>◀• REPLAY</b> during playback.
Briefly fast forward the current scene (Instant Advance) <sup>10)</sup>	Press <b>ADVANCE •▶</b> during playback.

To	Do this
Change the angle <sup>11)</sup>	Press ANGLE repeatedly during playback. Each time you press ANGLE, the angle changes.
Display the subtitle	Press SUBTITLE repeatedly during playback. Each time you press SUBTITLE, the subtitle language changes <sup>12)</sup> or turns off <sup>13)</sup> .
Switch to DVD function from another source	Press FUNCTION +/- (European models only)/ FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "DVD."

<sup>11)</sup> There may be some disturbance in the video image.

<sup>12)</sup> Except for JPEG image files. You cannot select an audio track or file during Lock Search operation of MP3 files.

<sup>13)</sup> DVD VIDEO, DVD-R/-RW in VR mode, VIDEO CD, AUDIO CD and video files only.

<sup>14)</sup> DVD VIDEO only.

<sup>15)</sup> MP3 files, JPEG image files and video files only.

<sup>16)</sup> Except for JPEG image files.

<sup>17)</sup> Depending on the disc, the actual speed may differ.

<sup>18)</sup> DVD VIDEO, DVD-R/-RW in VR mode, video files and VIDEO CD only.

<sup>19)</sup> Except for VIDEO CD and video files.

<sup>10)</sup> DVD VIDEO and DVD-R/-RW in VR mode only.

<sup>11)</sup> Multi-angle DVD VIDEO only.

<sup>12)</sup> For DVD VIDEO, DVD-R/-RW in VR mode or DivX video files with multilingual subtitles.

<sup>13)</sup> For DVD VIDEO, DVD-R/-RW in VR mode or DivX video files with a subtitle.

## Notes

- You cannot perform Resume Play during Shuffle Play or Program Play.
- Resume Play may not work properly with some discs.
- Resume Play is canceled when
  - you press **■** when playback is stopped.
  - you eject the disc.
  - you change the function.
  - you change the settings in the Setup Menu.
  - you changed the "PARENTAL CONTROL" level.
- You cannot search for a still picture on a DVD-R/-RW in VR mode.
- You may not be able to use the Instant Replay or Instant Advance function in Repeat Play mode or with some scenes.
- Depending on the DVD VIDEO, you may not be able to change the angle, even if multi-angles are recorded on the DVD VIDEO.
- Depending on the DVD VIDEO, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD VIDEO. You also may not be able to turn the subtitles off.
- You can change the subtitles if the DivX video file has an ".avi" or ".divx" extension and contains subtitle information within the same file.

## On Multi-disc Resume

(DVD VIDEO and VIDEO CD only)

This system can store the point where you stopped the playback of the disc for up to 10 discs and resumes playback when you insert the same disc again.

If you store a playback resume point for the 11th disc, the playback resume point for the first disc will be deleted.

The default setting is “ON.”

To turn off this function, set “MULTI-DISC RESUME” in “SYSTEM SETUP” to “OFF” (page 66).

### Notes

- If “MULTI-DISC RESUME” in “SYSTEM SETUP” is set to “ON” and you play back a recorded disc such as DVD-R, the system may play back other recorded discs from the same playback resume point.  
To start playback from the beginning of the disc, press ■ twice and then press ▷ (or ► on the unit).
- The playback resume point is deleted when the power cord is disconnected.

## Changing the language/sound

Press AUDIO repeatedly during playback to select the desired audio format or mode.

The default setting is underlined.

### When playing a DVD VIDEO:

Depending on the DVD VIDEO, the option of language and audio format varies.

When a 4-digit number is displayed, the digits represent a language code (see “Language code list” (page 129)). When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats. Note that the sound changes automatically depending on the disc.

Some DVD VIDEOS allow you to select items such as the language for the subtitles and the language for the sound using DVD/USB MENU (European models only) or DVD/USB/TUNER MENU (except for European models).

### When playing a DivX video file:

The options for audio format differ depending on the DivX video files.

### When playing a DVD-R/-RW in VR mode:

The number of audio tracks recorded on a disc is displayed.

Example:

- 1: **MAIN**: the main sound of the audio track 1.
  - 1: **SUB**: the sub sound of the audio track 1.
  - 1: **MAIN+SUB**: the main and sub sound of the audio track 1.
  - 2: **MAIN\***: the main sound of the audio track 2.
  - 2: **SUB\***: the sub sound of the audio track 2.
  - 2: **MAIN+SUB\***: the main and sub sound of the audio track 2.
- \* These items do not appear if only one audio stream is recorded on the disc being played back.

### When playing a VIDEO CD, AUDIO CD, or MP3 file:

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. For example, when playing a track with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.

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

### When playing a Super VCD:

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

#### Note

While the system is playing a Super VCD on which the audio track 2 is not recorded, no sound will come out when you select "2: STEREO," "2: 1/L" or "2: 2/R."

## Playing VIDEO CDs with PBC functions (PBC Playback) (Version 2.0)

### VIDEO CD

You can use the PBC (Playback Control) menus included on the VIDEO CDs (Version 2.0 only) on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

- 1 Press  (or  on the unit) to start playing a VIDEO CD.

The PBC menu appears on the TV screen. Depending on the VIDEO CD, the menu may not appear.

- 2 Press the numeric buttons to select the desired item number.

- 3 Press ENTER.

Depending on the VIDEO CD, "Press ENTER" may appear as "Press SELECT" in the operating instructions supplied with the disc. In this case, press .

- 4 Continue playback according to the instructions on the menus.

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

## To return to the previous menu

Press  RETURN.

### Note

PBC playback is canceled when Shuffle Play, Program Play or Repeat Play is activated.

## To cancel playback with PBC functions

- 1 Press  or  repeatedly or press the numeric buttons to select a track when playback is stopped.

- 2 Press  or ENTER.

Playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press  twice, then press .

## Selecting “ORIGINAL” or “PLAY LIST”

### DVD-VR

This function is only available for DVD-Rs/-RWs in VR mode with a playlist created.

- 1 Press  DISPLAY when playback is stopped.

The Control Menu appears on the TV screen.

- 2 Press  or  repeatedly to select  (ORIGINAL/PLAY LIST), then press ENTER.

The options for “ORIGINAL/PLAY LIST” appear on the TV screen.

- 3 Press  or  repeatedly to select the desired setting.

- PLAY LIST: plays back according to the playlist created on the disc.
- ORIGINAL: plays back according to the originally recorded sequence.

- 4 Press ENTER.

## Searching for items on a disc by the assigned numbers

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

You can search by different information recorded on a disc, such as title, track, and folder. Each item is assigned a unique number on the disc, and you can select the numbered item you want from the Control Menu. You can also search for a particular point using the time code (Time Search) (DVD VIDEO and DVD-R/-RW in VR mode only).

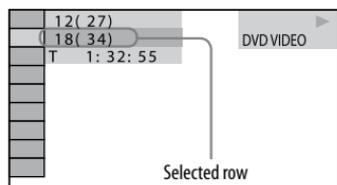
- 1 Press  DISPLAY. (If “MEDIA” is set to “MUSIC/PHOTO,” press  DISPLAY twice.)

The Control Menu appears on the TV screen.

- 2** Press **▲** or **▼** repeatedly to select the search item.

Example: when you select  (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 ENTER.

“\*\* (\*\*)” change to “- - (\*\*)”.

- 4** Press **▲** or **▼** repeatedly or the numeric buttons to select the title, track, folder or file, etc.

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

- 5** Press ENTER.

The system starts playback from the selected title, track, folder or file, etc.

### Tip

When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO and DVD-R/-RW in VR mode) or track (AUDIO CD and VIDEO CD) or file (video files in DATA CD/DVD) by pressing the numeric buttons and ENTER.

### To search for a particular point using the time code (Time Search)

(DVD VIDEO and DVD-R/-RW in VR mode only)

- 1** Press  DISPLAY.

- 2** Press **▲** or **▼** repeatedly to select  (TIME).

“T \*\*: \*\*: \*\*” (elapsed playing time of the current title) is selected.

- 3** Press ENTER.

“T \*\*: \*\*: \*\*” changes to “T --:--:--”.

- 4** Input the time code using the numeric buttons, then press ENTER.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter “21020”.

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

### Note

Depending on the disc, you cannot perform Time Search.

## Displaying the DVD's menu (Only when the HDMI connection is established)

### DVD-V

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (DISC MENU), then press ENTER.  
The options for "DISC MENU" appear on the TV screen.
- 3 Press  or  repeatedly to select "MENU" or "TOP MENU."
- 4 Press ENTER.

## Displaying the DVD's menu (Only when the HDMI connection is established)

### DATA CD DATA DVD

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (BROWSING), then press ENTER.  
The options for "BROWSING" appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.  
The default setting is underlined.
  - FOLDER LIST: The list of folders appears. Follow Step 5 of "Selecting a folder/file using the on-screen display" (page 50).
  - PICTURE LIST (JPEG image files only): Previews of JPEG image files in the folder appear in 16 subscreens. Follow Step 5 of "Selecting a folder/file using the on-screen display" (page 50).
- 4 Press ENTER.

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## Using the “BRAVIA Sync” features

With the HDMI connection between the system and your TV equipped with the BRAVIA Sync function (page 25, 26), you can use the various BRAVIA Sync features such as “Theater Mode,” “One-Touch Play,” “System Power Off” and “Language Follow.”

### Theater Mode

You can use this feature while you are watching TV programs (particularly movies).

By pressing THEATRE on the system’s remote, you can obtain optimal image suited for movies.

At the same time, the system turns on and the TV sound from the TV/VIDEO AUDIO IN jacks is output from the system’s speakers (the system’s function is switched to “TV/VIDEO”).  
The TV speakers will be muted.

### One-Touch Play

By pressing ONE-TOUCH PLAY on the system’s remote, you can turn on both the TV and the system and switch the TV’s input source to “HDMI.”

At the same time, the system starts DVD playback and the sound is output from the system’s speakers.  
The TV speakers will be muted.

### Notes

- The beginning of playback may not appear depending on the TV.
- It may take a while to start playback depending on the disc.

### System Power Off

If you turn off the TV, the system turns off automatically if the system is set to “DVD” or “USB” and is playing movies or pictures such as video files and JPEG image files.

### Note

You need to set the TV’s power synchronicity function before using this function. Refer to the TV’s operating instructions.

### 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.

### Note

This function does not work while the system’s on-screen display appears.

## System Audio Control

This function controls the TV and system audio outputs. The “Theater Mode” and “One-Touch Play” features already explained on page 44 are included in this function.

The function also controls the following.

- If you change the system function to “TV/VIDEO” while you are watching TV, TV audio is automatically output from the system speakers.  
The TV speakers will be muted.
- If you change the system function to “DVD,” “USB” or “AUDIO IN” while the TV is On, the audio from the source switched to is output from the system speakers.  
The TV speakers will be muted.
- If you turn on the system while the TV is On, the system function will automatically switch to “DVD,” “USB” or “AUDIO IN” and the audio from the source switched to is output from the system speakers.  
The TV speakers will be muted.
- If the TV speakers are muted, the mute is automatically deactivated when you turn off the system.
- You can control the system volume using the TV remote.

## Note

While the TV is in PAP (picture and picture) mode, the System Audio Control function will not work. If you exit PAP mode on your TV, the TV output method will return to the mode before PAP mode.

## Tip

You can also operate the System Audio Control function using the TV menu. For details, refer to the TV’s operating instructions.

# Using play mode

## Creating your own program (Program Play)

VIDEO CD   CD

You can make a program of up to 99 steps in the order you want them to be played back.

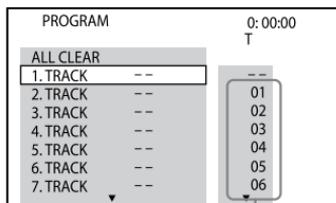
- 1 Press  DISPLAY when playback is stopped.

The Control Menu appears on the TV screen.

- 2 Press  or  repeatedly to select  (PROGRAM), then press ENTER.

The options for "PROGRAM" appear on the TV screen.

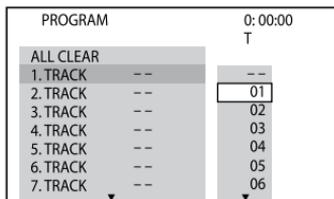
- 3 Press  or  repeatedly to select "SET →," then press ENTER.



Track number

- 4 Press .

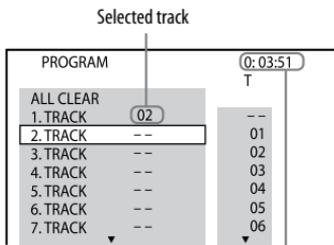
The cursor moves to the track list "T" (in this case, "01").



- 5 Select the track you want to program.

For example, select track "02."

Press  or  repeatedly to select "02" under "T," then press ENTER.



Total time of the programmed tracks

- 6 To program other tracks, repeat steps 4 and 5.

- 7** Press  $\triangleleft$  (or  $\blacktriangleright$  on the unit).  
Program Play starts.  
When the Program Play ends, you can restart the same program by pressing  $\triangleleft$  (or  $\blacktriangleright$  on the unit).

**To change a programmed step:**

Press  $\uparrow$  or  $\downarrow$  repeatedly to select the programmed step number you want to change. Then, press  $\rightarrow$  and select the desired track number.

**To delete a programmed step:**

Press  $\uparrow$  or  $\downarrow$  repeatedly to select the programmed step number you want to delete. Then, press CLEAR.

**To delete all of the programmed steps in the program list:**

Press  $\uparrow$  to select "ALL CLEAR." Then, press ENTER.

**To cancel Program Play**

Press CLEAR or select "OFF" in Step 3.  
To play back the same program again, select "ON" in Step 3 and press ENTER.

**Notes**

- When Program Play is activated, the "REPEAT" setting is automatically changed to "ON" if the current setting is "DISC" or "TRACK."
- You cannot perform Program Play with VIDEO CDs during PBC playback.

**Tip**

The Program Play is canceled and the program list is cleared when

- you eject the disc.
- you turn off the system.
- you change the function.

## Playing in random order (Shuffle Play)

VIDEO CD   C D   DATA CD   DATA DVD

You can play back the tracks on the disc in random order. Each time you perform Shuffle Play, the playing order may differ.

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (SHUFFLE), then press ENTER.  
The options for “SHUFFLE” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.

### When playing a VIDEO CD or AUDIO CD:

- TRACK: All tracks on the disc is played back randomly.

### When Program Play is activated:

- ON: All tracks in the program list is played back randomly.

### When playing a DATA CD/DVD (except for video files):

- ON (MUSIC): All MP3 files in the selected folder on the disc are played back randomly.  
When no folder is selected, the first folder is played back randomly.

4 Press ENTER.

5 Press  (or  on the unit).  
Shuffle Play starts.  
To cancel Shuffle Play, press CLEAR or select “OFF” in Step 3.

### Notes

- You cannot perform Shuffle Play with VIDEO CDs during PBC playback.
- The same song may be played back repeatedly for MP3 files.

### Tip

Shuffle Play is canceled when

- you eject the disc.
- you turn off the system.
- you change the function.
- you perform Track/Index Search.
- you set “MEDIA” to “PHOTO” when playback is stopped.
- you perform CD Synchro Recording.
- you transfer music from a disc to a USB device.

## Playing repeatedly (Repeat Play)

DVD-V

DVD-VR

VIDEO CD

C D

DATA CD

DATA DVD

You can play the contents on a disc repeatedly.

You can select Shuffle Play and Program Play at the same time.

### 1 Press DISPLAY.

The Control Menu appears on the TV screen.

### 2 Press or repeatedly to select (REPEAT), then press ENTER.

The options for “REPEAT” appear on the TV screen.

### 3 Press or repeatedly to select the desired setting.

The default setting is underlined.

#### When playing a DVD VIDEO or DVD-R/DVD-RW in VR mode:

- OFF: does not play back repeatedly.
- DISC: repeats all the titles on the disc.
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

#### When playing a VIDEO CD or AUDIO CD:

- OFF: does not play back repeatedly.
- DISC: repeats all the tracks on the disc.
- TRACK: repeats the current track.

#### When playing a DATA CD or DATA DVD:

- OFF: does not play back repeatedly.
  - DISC: repeats all the folders on the disc.
  - FOLDER: repeats the current folder.
  - TRACK<sup>1)</sup>: repeats the current audio file.
  - FILE<sup>2)</sup>: repeats the current file.
- <sup>1)</sup> MP3 files only.  
<sup>2)</sup> Video files only.

#### When Program Play or Shuffle Play is activated:

- OFF: does not play back repeatedly.
- ON: repeats the Program Play or Shuffle Play.

### 4 Press ENTER.

### 5 Press (or on the unit).

Repeat Play starts.

To cancel Repeat Play, press CLEAR or select “OFF” in Step 3.

## Notes

- You can also change the Repeat Play setting by pressing REPEAT (European models only) or REPEAT/FM MODE (except for European models) repeatedly.
- “REP” lights up in the display when Repeat Play is set to “DISC,” “FOLDER” or “ON.”
- “REP1” lights up in the display when Repeat Play is set to “TITLE,” “CHAPTER,” “TRACK” or “FILE.”
- Depending on the DVD VIDEO, you cannot perform Repeat Play.
- You cannot perform Repeat Play with VIDEO CDs during PBC playback.
- When playing a DATA CD/DVD which contains MP3 files and JPEG image files, the audio sound will not match the image if their playing times are different.
- Repeat Play is canceled when
  - you eject the disc.
  - you turn off the system.
  - you change the function.
  - you perform CD Synchro Recording.
  - you transfer music from a disc to a USB device.

## Selecting a folder/file using the on-screen display

DATA CD DATA DVD

- 1** Insert a disc.  
“FOLDER LIST” appears on the TV screen.
- 2** Press  DISPLAY (when playback is stopped).  
The Control Menu appears on the TV screen.
- 3** Press  or  repeatedly to select  (MEDIA), then press ENTER.  
The options for “MEDIA” appear on the TV screen.  
The default setting is underlined.
  - MUSIC/PHOTO: for playing both MP3 files and JPEG image files in the same folder as a slide show (page 128)
  - MUSIC: for playing MP3 files
  - VIDEO: for playing video files
  - PHOTO: for playing JPEG image files

- 4 Press **▲** or **▼** repeatedly to select the desired option, then press **ENTER**. When the desired option has already been selected, press **DVD/USB MENU** (European models only) or **DVD/USB/TUNER MENU** (except for European models).

A list of folders that contain the files of the selected file type appears on the TV screen.

- 5 Press **▲** or **▼** repeatedly to select a folder.

#### Playing a folder:

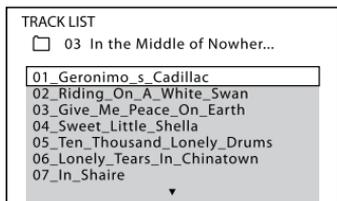
Press **▷** (or **▶** on the unit).

The system starts playback from the first file of the selected folder.

To stop playback, press **■**.

#### Playing an MP3 file:

- 1 Press **ENTER**.  
“TRACK LIST” appears.



- 2 Press **▲** or **▼** repeatedly to select the desired MP3 file, then press **ENTER**.

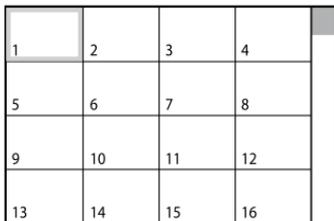
The system starts playing the selected MP3 file.

To stop playback, press **■**.

#### Playing an image file:

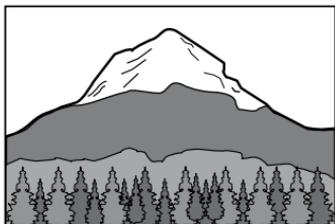
- 1 Press **PICTURE NAVI**.

Thumbnail picture for the first 16 JPEG image files in the selected folder is displayed.



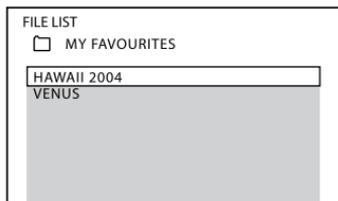
If there are more than 16 image files in the selected folder, the scroll bar appears at the right.

- 2 Press  $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$  to select the image you want to view, then press  $\triangleleft$  (or  $\blacktriangleright$  on the unit). The slide show starts from the selected image file. To stop playback, press  $\blacksquare$ .



### Playing a video file:

- 1 Press ENTER. “FILE LIST” appears.



- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to select the desired video file, then press ENTER. The system starts playing the selected video file. To stop playback, press  $\blacksquare$ .

To	Do this
Display the next or previous page of “TRACK LIST,” “FOLDER LIST” or “FILE LIST”	Press $\blacktriangleleft$ or $\blacktriangleright$ repeatedly.
Play back the next folder of MP3 files or video files	Press $\blacktriangleright\blacktriangleright$ repeatedly until the last file of the current folder, then press $\blacktriangleright\blacktriangleright$ once. To select the previous folder, select the folder from “FOLDER LIST”
Return to “FOLDER LIST” when “TRACK LIST” or “FILE LIST” is displayed	Press $\blacktriangleleft$ RETURN.
Play back the next folder of JPEG image files	Press $\blacktriangleright$ repeatedly until the last file of the current folder, then press $\blacktriangleright$ once. To select the previous folder, select the folder from “FOLDER LIST.”
Rotate the image by 90 degrees*	Press $\blacktriangle$ or $\blacktriangledown$ repeatedly while viewing an image. To return to the original view, press CLEAR.

\* You cannot rotate the JPEG image file when you set “JPEG RESOLUTION” in “HDMI SETUP” to “(1920 x 1080i)HD  $\square$ ” or “(1920 x 1080i)HD” (page 64).

## Notes

- The system can play back MP3 files, JPEG image files and video files (DivX/MPEG4). The system will play back any data with the extension “.mp3,” “.jpg,” “.jpeg,” “.mp4,” “.avi” and “.divx” even if they are unsupported format. Playing this data may generate a loud noise which could damage your speaker system.
- Depending on the encoding/writing software, recording device, or the recording media used to record an MP3 file, you may encounter problems such as cannot play back, sound interruptions and noise.
- The following discs/situations can increase the time it takes to start playback:
  - a disc recorded with a complicated tree structure.
  - a disc recorded in Multi Session.
  - a disc to which data can be added (non-finalized disc).
  - when the tracks or files in another folder have just been played back.
- Some CD-Rs/-RWs or DVD-Rs/-RWs/+Rs/+RWs cannot be played back on the system depending on the file format.
- The system can play back to a depth of 8 folders only.
- The system may not play certain types of JPEG image files (ex. a JPEG image file that is less than 8 (width) × 8 (height)).
- When you press ◀ or ▶ to select the next or previous image, the image will return to its original view even if you have rotated the image previously.
- The slide show stops when you press ▲ or ▼.
- The system may not play back a video file when the file has been combined from two or more video files.
- The system cannot play back a video file size of more than 720 (width) × 576 (height)/2GB.
- Depending on the video file, the picture may be unclear or the sound may skip.
- The system cannot play back some video files that are longer than 3 hours.
- Depending on the video file, the picture may pause or be unclear. In this case, it is recommended that you create the file at a lower bit rate. If the sound is still noisy, MP3 is the recommended audio format. Note that, this system does not conform to WMA (Windows Media Audio)/AAC (Advanced Audio Coding) format.
- Due to the compression technology used for video files, it may take some time after you press ▷ for the picture to appear.
- Depending on the video file, the sound may not match the pictures on the screen.

## Tip

If the number of viewing times has been preset, you can play back the DivX video files as many times as the preset number. The following occurrences are counted:

- when the system is turned off.
- when the disc is removed.
- when another video file is played back.

## MPEG4 video files that the system can play

The system can play files that are recorded in MP4 format, and which have the extension “.mp4” or “.m4v.” The system will not play files with the extension “.mp4” or “.m4v” if they do not contain a MPEG4 video.

### Note

Compatibility with all MPEG4 video encoding/writing software, recording device, and recording media cannot be guaranteed.

## To play MP3 files and JPEG image files as a slide show with sound

(DATA CD and DATA DVD only)

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

- 1 Press  DISPLAY (when playback is stopped).  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (MEDIA), then press ENTER.  
The options for “MEDIA” appear on the TV screen.

- 3 Press  or  repeatedly to select “MUSIC/PHOTO,” then press ENTER.  
When “MUSIC/PHOTO” has already been selected, press DVD/USB MENU (European models) or DVD/USB/TUNER MENU (except for European models).  
“FOLDER LIST” appears on the TV screen.

- 4 Press  or  repeatedly to select the desired folder, then press  (or  on the unit).  
The slide show with sound starts from the selected folder.  
To stop playback, press .  
To cancel the slide show with sound, select “MUSIC” or “PHOTO” in Step 3.

### Note

If you play back a large data size of MP3 files and JPEG image files at the same time, the sound may skip.

## To specify the slide show speed

(JPEG image files only)

- 1 Press  DISPLAY repeatedly until the Control Menu for JPEG image files appears on the TV screen.
- 2 Press  or  repeatedly to select  (INTERVAL), then press ENTER. The options for “INTERVAL” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired transition interval. The default setting is underlined.
  - NORMAL: sets to the standard duration.
  - FAST: sets the duration shorter than “NORMAL.”
  - SLOW 1: sets the duration longer than “NORMAL.”
  - SLOW 2: sets the duration longer than “SLOW 1.”
- 4 Press ENTER. The selected setting takes effect.

### Note

Some JPEG image files (especially progressive JPEG image files or JPEG image files with 3,000,000 pixels or more) may take a longer time to display than others, which may make the transitions seem longer than that of the option you selected.

## To select a transition effect for image files in the slide show

(JPEG image files only)

- 1 Press  DISPLAY repeatedly until the Control Menu for JPEG image files appears on the TV screen.
- 2 Press  or  repeatedly to select  (EFFECT), then press ENTER. The options for “EFFECT” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting. The default setting is underlined.
  - MODE 1: The image sweeps in from top to bottom of the screen.
  - MODE 2: The image sweeps in from left to right of the screen.
  - MODE 3: The image stretches out from the center of the screen.
  - MODE 4: The image randomly cycles through the effects.
  - MODE 5: The next image slides over the current image.
  - OFF: Turns off this function.
- 4 Press ENTER. The selected setting takes effect.

### Note

The “EFFECT” setting is not effective when you set “JPEG RESOLUTION” in “HDMI SETUP” to “(1920 × 1080i)HD ” or “(1920 × 1080i)HD” (page 64).

## To select playback priority of the file type

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

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (MEDIA), then press ENTER.  
The options for “MEDIA” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.  
The default setting is underlined.
  - MUSIC/PHOTO: See page 128.
  - MUSIC: MP3 file playback has priority.
  - VIDEO: Video file playback has priority.
  - PHOTO: JPEG image file playback has priority.
- 4 Press ENTER.  
For details of the playback priority of file types under “MEDIA” setting, see “Playback priority of file types” (page 128).

## Adjusting the delay between the picture and sound (“A/V SYNC”)

DVD-V DVD-VR VIDEO CD DATA CD DATA DVD

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

“A/V SYNC” does not work for MP3 files and JPEG image files in DATA CD/DVD.

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (A/V SYNC), then press ENTER.  
The options for “A/V SYNC” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.  
The default setting is underlined.
  - OFF: does not adjust.
  - ON: adjusts the difference between picture and sound.
- 4 Press ENTER.

### Note

Depending on the input stream, this function may not be effective.

## Restricting playback of the disc (PARENTAL CONTROL)

### DVD-V

You can limit the playback of some DVD VIDEOS according to a predetermined level such as the age of the users. When a limited scene is played back, that scene may be skipped or replaced with different scenes.

- 1 Press  DISPLAY when playback is stopped.

The Control Menu appears on the TV screen.

- 2 Press  or  repeatedly to select  (SETUP), then press ENTER.

The options for “SETUP” appear on the TV screen.

- 3 Press  or  repeatedly to select “CUSTOM,” then press ENTER.

The Setup Menu appears on the TV screen.

- 4 Press  or  repeatedly to select “SYSTEM SETUP,” then press ENTER.

- 5 Press  or  repeatedly to select “PARENTAL CONTROL,” then press ENTER.

### If you have not registered a password:

The display for registering a new password appears on the TV screen.



Enter a 4-digit password using the numeric buttons, then press ENTER. The display for confirming the password appears on the TV screen.

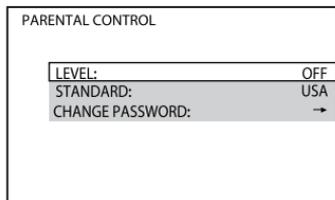
### When you have already registered a password:

The display for entering the password appears on the TV screen.

### If you make a mistake when entering your password:

Press  repeatedly to delete the number you have entered, then re-enter your password again.

- 6** Enter or re-enter your 4-digit password using the numeric buttons, then press ENTER.  
The display for setting the playback limitation level appears on the TV screen.



- 7** Press **▲** or **▼** repeatedly to select “STANDARD,” then press ENTER.  
The options for “STANDARD” appear on the TV screen.
- 8** Press **▲** or **▼** repeatedly to select a geographic area as the playback limitation level, then press ENTER.  
The area is selected.  
When you select “OTHERS →,” enter the area code for the geographic area you want by using the numeric buttons (see “Parental Control area code list” (page 130)).

- 9** Press **▲** or **▼** repeatedly to select “LEVEL,” then press ENTER.  
The options for “LEVEL” appear on the TV screen.

- 10** Press **▲** or **▼** repeatedly to select the desired level, then press ENTER.  
“PARENTAL CONTROL” setting is completed.  
The lower the value, the stricter the limitation.

### To turn off the “PARENTAL CONTROL” function

Set “LEVEL” to “OFF” in Step 10.

### To change the password

- 1** Press **▲** or **▼** repeatedly to select “CHANGE PASSWORD,” then press ENTER in Step 7 of “Restricting playback of the disc (PARENTAL CONTROL)” (page 57).
- 2** Enter a new 4-digit password using the numeric buttons, then press ENTER.
- 3** To confirm your password, re-enter it using the numeric buttons, then press ENTER.

## If you forget your password

Remove the disc and repeat steps 1 to 5 of “Restricting playback of the disc (PARENTAL CONTROL)” (page 57). When you are asked to enter your password, enter “199703” using the numeric buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, reinsert the disc and press  (or  on the unit). When the display for entering your password appears, enter your new password.

## To play back a disc for which “PARENTAL CONTROL” is set

- 1 Insert the disc and press  (or  on the unit).  
The display for entering your password appears on the TV screen.
- 2 Enter your 4-digit password using the numeric buttons, then press ENTER.  
The system starts playback.

### Notes

- When you play back DVD VIDEOS which do not have the “PARENTAL CONTROL” function, playback cannot be limited on this system.
- Depending on the DVD VIDEO, you may be asked to change the “PARENTAL CONTROL” level while playing the disc. In this case, enter your password, then change the level. If Resume Play is canceled, the level returns to the original level.

## Using the Setup Menu

By using the Setup Menu, you can make various adjustments to items such as picture and sound. Displayed items vary depending on the country or region.

### Note

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

- 1 Press  DISPLAY when playback is stopped.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (SETUP), then press ENTER.  
The options for “SETUP” appear on the TV screen.
- 3 Press  or  repeatedly to select “CUSTOM,” then press ENTER.  
The Setup Menu appears on the TV screen.

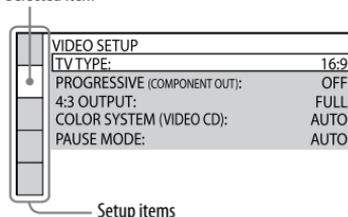
- 4** Press **▲** or **▼** repeatedly to select the setup item from the displayed list, then press **ENTER**.  
The setup item is selected.

Setup items:

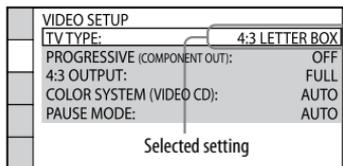
-  LANGUAGE SETUP
-  VIDEO SETUP
-  HDMI SETUP
-  AUDIO SETUP
-  SYSTEM SETUP

Example: “VIDEO SETUP”

Selected item



- 6** Press **▲** or **▼** repeatedly to select the desired setting, then press **ENTER**.  
The setting is selected and setup is completed.



## Setting the language — “LANGUAGE SETUP”

Set various languages for the on-screen display or sound track.  
The default setting is underlined.

### OSD

(On-Screen Display)

Switches the language of the on-screen display.

### MENU\*

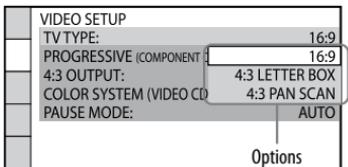
(DVD VIDEO only)

Select the language for the DVD menu.

- 5** Press **▲** or **▼** repeatedly to select the desired item, then press **ENTER**.

The options for the selected item appear on the TV screen.

Example: “TV TYPE”



**AUDIO\***

(DVD VIDEO only)

Switches the language of the sound track. When you select "ORIGINAL," the language given priority in the disc is selected.

**SUBTITLE\***

(DVD VIDEO only)

Switches the language of the subtitle. When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

\* When you select a language in "MENU," "AUDIO," or "SUBTITLE" that is not recorded on the DVD VIDEO, one of the recorded language is automatically selected. However, depending on the disc, the language may not be selected automatically. If you select "OTHERS →" in "MENU," "AUDIO," and "SUBTITLE" enter a language code using the numeric buttons (see "Language code list" (page 129)).



## Setting the TV screen — "VIDEO SETUP"

Choose the settings according to the TV you connected.

The default setting is underlined.

**TV TYPE**

(DVD VIDEO only)

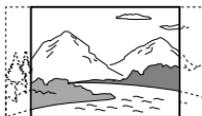
**16:9:** Select this when you connect a wide-screen TV or a TV with a wide mode function.



**4:3 LETTER BOX:** Select this when you connect a 4:3 screen TV. This setting displays a wide picture with bands on the upper and lower portions of the screen.



**4:3 PAN SCAN\*:** Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.



Continued

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**PROGRESSIVE (COMPONENT OUT)**

Sets the progressive signal output from the COMPONENT VIDEO OUT jacks to on or off.

**OFF:** Outputs interlace signals.

**ON:** Outputs progressive signals.

For details, see “Changing the format of the video signal output from COMPONENT VIDEO OUT jacks” (page 30).

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**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.

Change the aspect ratio on your TV if possible; if not, change the settings on the system side.

**FULL:** Select this option when you can change the aspect ratio on your TV.

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

**Note**

“4:3 OUTPUT” is effective only when you set “TV TYPE” in “VIDEO SETUP” to “16:9”

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**COLOR SYSTEM (VIDEO CD)**

(Except for European and Russian models)

Select the output video signal when you play back a VIDEO CD.

**AUTO:** Outputs the video signal according to the color system of the disc, either PAL or NTSC.

**PAL:** Changes the video signal of an NTSC disc and output it in PAL system.

**NTSC:** Changes the video signal of a PAL disc and output it in NTSC system.

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**PAUSE MODE**

(DVD VIDEO and DVD-R/-RW in VR mode only)

**AUTO:** The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.

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

---

\* Depending on the DVD VIDEO, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.



## Setting HDMI — “HDMI SETUP”

If you establish the HDMI connection between the system and your TV, perform the following settings according to your needs.

The default setting is underlined>.

---

### HDMI RESOLUTION

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

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### CONTROL FOR HDMI

If your Sony TV has the BRAVIA Sync function, set this setting to “ON” to use the BRAVIA Sync features. (The “CONTROL FOR HDMI” setting for the TV must also be set to “ON.”) For details, see “Preparing to use the “BRAVIA Sync” features” (page 28).

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### YCbCr/RGB (HDMI)

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

**YCbCr:** The system outputs YCbCr signals.

**RGB:** The system outputs RGB signals.

### Notes

- 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.

### Notes

- When you connect the unit to the TV with an HDMI cable and “ON” is selected, “DSGX” and “EQ” are not applied to the sound that is output from the TV.
  - If you set the function other than to “DVD” or “USB,” 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 images with a black frame.

**HD** : The system outputs HD resolution images with a black frame.

**HD**: The system outputs the HD resolution images without a black frame.

**(1920 × 1080i)HD** : The system outputs full size HD resolution images with a black frame.

**(1920 × 1080i)HD**: The system outputs full size HD resolution images without a black frame.

### Notes

- “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 a resolution 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 connect or remove a USB device.
- 



## Setting the audio options — “AUDIO SETUP”

Configure audio related settings.  
The default setting is underlined.

---

### AUDIO DRC<sup>1)</sup> (Dynamic Range Compression)

(DVD VIDEO only)

OFF: No compression of dynamic range.

**STANDARD**: Reproduces the sound track with the kind of dynamic range that the recording engineer intended. Useful for watching movies at low volume late at night.

**MAX**: Narrows the dynamic range fully.

---

### TRACK SELECTION

(DVD VIDEO only)

Gives priority to the sound track which contains the highest number of channels when you play back a DVD VIDEO on which multiple audio (PCM, DTS, MPEG audio, or Dolby Digital) formats<sup>2)</sup> are recorded.

OFF: No priority given.

**AUTO**<sup>3)</sup>: Priority given.

---

- 1) "AUDIO DRC" can only be performed with Dolby Digital sources.
- 2) If each audio sound track has the same number of channels, the system selects the audio sound tracks in the order from PCM, DTS, Dolby Digital, to MPEG.
- 3) When you set "TRACK SELECTION" to "AUTO," the language may change. The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 61). However, depending on the disc, this function may not be performed.



## Setting the system — "SYSTEM SETUP"

The default setting is underlined.

### SCREEN SAVER

The screen saver will help prevent your display device from becoming damaged (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:** The screen saver does not appear.

### BACKGROUND

Selects the background color or picture to be displayed on the TV screen. The background color or picture is displayed when playback is stopped or while playing an AUDIO CD and MP3 files.

**JACKET PICTURE:** The jacket picture (still picture) appears in the background, but only when the jacket picture is already recorded on the disc (DVD VIDEO, 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 in the background.

**BLUE:** The background color is blue.

**BLACK:** The background color is black.

### PARENTAL CONTROL

Sets the playback restrictions. For details, see "Restricting playback of the disc (PARENTAL CONTROL)" (page 57).

Continued 

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**DivX**

Displays the registration code for this system.

For more information, go to <http://www.divx.com> on the Internet.

---

**MULTI-DISC RESUME**

(DVD VIDEO and VIDEO CD only)

**ON:** Stores the resume playback point in the memory for up to 10 discs.

**OFF:** Does not store the resume playback point in the memory. Playback starts at the resume playback point only for the current disc in the system.

---

**RESET\***

Returns “SETUP” settings to the default settings. For details, see “To return the “SETUP” settings to the default settings\*, perform reset as follows:” (page 114).

---

\* Except for “PARENTAL CONTROL” settings

## Tuner

### Listening to the radio

You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

- 1 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "TUNER FM" or "TUNER AM."
- 2 Perform tuning.

#### For automatic scanning:

Press and hold TUNING +/- until the frequency indication changes and then release.

Scanning stops automatically when a station is tuned in and "TUNED" lights up in the display. When a FM stereo program is tuned in, "STEREO" lights up in the display.



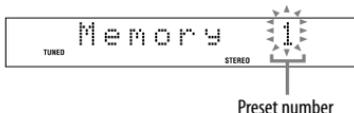
If "TUNED" does not appear and the scanning does not stop, press ■ and perform manual tuning (below).

#### For manual tuning:

Press TUNING +/- repeatedly.

### Presetting a radio station

- 1 Tune in the desired station.
- 2 Press TUNER MEMORY (European models only) or DVD/USB/TUNER MENU (except for European models). "Memory?" flashes in the display.
- 3 Press ENTER or → (except for European models). A preset number flashes in the display. The stations are stored from preset number 1.



- 4 Press ↑ or ↓ repeatedly to select the desired preset number.
- 5 Press ENTER. "Complete!" appears in the display. The station is stored.

## 6 Repeat steps 1 to 5 to store other stations.

You can preset up to 20 FM stations and 10 AM stations.

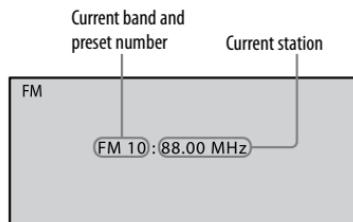
To cancel presetting, press TUNER MEMORY (European models only) or DVD/TUNER MENU (except for European models).

## 7 To call up a preset number, press PRESET +/- repeatedly to select the desired preset number.

You can also press the numeric buttons, then press ENTER to select a preset station.

### Tips

- To improve broadcast reception, adjust the supplied antennas, or connect an external antenna.
- When an FM stereo program has static noise, press FM MODE (European models only) or REPEAT/FM MODE (except for European models) repeatedly until "MONO" lights up in the display. There will be no stereo effect, but the reception will improve.
- You can also set the frequency by viewing the tuner information on the TV screen.



- To change the AM tuning interval, see "To change the AM tuning interval" (page 113).

## USB Device

### Before using the USB device with this system

Check the websites below for the information about compatible USB devices (including Sony Ericsson mobile phone).

For customers in Europe and Russia:

<<http://support.sony-europe.com/>>

For customers in Asia:

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

#### Notes

- When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected. Refer to the operating instructions supplied with the USB device to be connected for details on the operation method.
- It may take about 10 seconds before “Reading” appears in the display depending on the type of USB device connected.

- Do not remove the USB device during transfer, recording or delete operations. Doing so may corrupt the data on the USB device or damage the USB device itself.
- Do not connect the system and the USB device through a USB hub.
- When the USB device is inserted, the system reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
- Always turn off the system before removing the USB device. Removing the USB device while the system is on may corrupt the data on the USB device.
- Compatibility with all encoding/writing software, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.

#### Note on the maximum number of files and folders on a USB device

This system cannot transfer or record music from an audio source or play a USB device in the following cases.

- When the number of files in a folder exceeds 150.
- When the number of folders on a USB device exceeds 200.

These numbers may vary depending on the file structure and the folder structure. Do not save other types of files or unnecessary folders on a USB device that has audio files, video files or JPEG image files.

## Transferring music from a disc to a USB device

You can connect an optional USB device (including Sony Ericsson mobile phone)\* to the  (USB) port on the unit and transfer music from a disc to the USB device.

\* Check the information on the websites about compatible USB devices (page 69).

You can transfer music only from an AUDIO CD or DATA CD/DVD (MP3 files only).

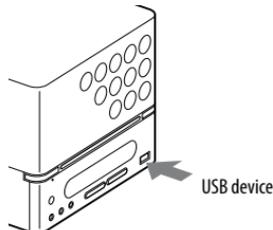
The audio format of files transferred by this system is MP3. When transferring music from an AUDIO CD, the tracks are transferred as 128 kbps MP3 files.

When transferring music from a DATA CD/DVD, MP3 files are transferred with the same bit rate as the original MP3 files. The amount of free space required on the USB device is about 1 MB per minute when transferring music from an AUDIO CD.

Required free space may be larger when transferring music from a DATA CD/DVD (MP3 files only).

You can easily transfer all the music on a disc to a USB device (CD SYNCHRO). You can also transfer a single audio track or file during playback (REC 1).

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



### Note

Operation of unlisted models is not guaranteed. Operation may not always be ensured even when using compatible USB devices.

- 2 Press **FUNCTION +/-** (European models only)/**FUNCTION** (except for European models) or **FUNCTION +/-** on the unit repeatedly to select "DVD," then insert the disc you want to transfer.

When the system automatically starts playback, press  twice to cancel resume play.

- 3 If you connected a Sony Ericsson mobile phone, press MEMORY SELECT repeatedly to choose a transferring destination.

You can choose the internal memory or a Memory Stick (if inserted) on the Sony Ericsson mobile phone.

- 4 Set the USB device to standby for transferring.

#### **Synchronized transfer (CD SYNCHRO):**

Press REC TO USB on the unit.

#### **REC 1:**

Start playback of the track or MP3 file you want to transfer, then press REC TO USB on the unit.

The USB device stands by for transferring.

- 5 Start transferring.

Press  (or  on the unit).

Transferring starts.

When the transfer is completed, access to the USB device and the disc player stops automatically.

#### **When using REC 1**

When the transfer is completed, access to the USB device and the disc stops automatically.

#### **To stop transferring**

Press .

#### **To remove the USB device**

- 1 Press  to stop playback.
- 2 Press I/ to turn off the system.
- 3 Remove the USB device.

## Using the on-screen display

You can also transfer music using the on-screen display.

- 1 Press  DISPLAY when playback is stopped.

The Control Menu appears on the TV screen.

- 2 Press  or  repeatedly to select

 (USB TRANSFER), then press ENTER.

The options for “USB TRANSFER” appear on the TV screen.

- 3 Press  or  repeatedly to select the desired option, then press ENTER.

### For AUDIO CD:

- TRACK: The tracks on the AUDIO CD appear. You can transfer the desired track.

### For DATA CD/DVD:

- TRACK: The folders on the DATA CD/DVD appear. You can transfer the desired MP3 file.
- FOLDER: The folders on the DATA CD/DVD appear. You can transfer all MP3 files in the folder. “Reading.” appears, and the tracks or folders appear on the TV screen.

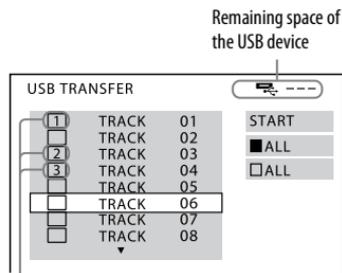
### Note

It may take some time to display the tracks or folders depending on the number of tracks or folders.

- 4 Select the tracks you want to transfer.

**For AUDIO CD:**

Press  $\uparrow$  or  $\downarrow$  repeatedly to select the track, then press ENTER. The tracks are marked in the order that you select. To cancel the selection, press ENTER again.



Tracks to be transferred

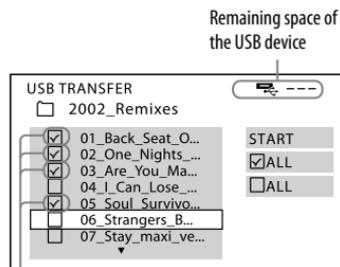
**To select all tracks on the AUDIO CD**

Press  $\uparrow/\downarrow/\leftarrow/\rightarrow$  repeatedly to select "■ ALL," then press ENTER. To cancel the selection, select "□ ALL," then press ENTER.

**For DATA CD/DVD:**

Press  $\uparrow$  or  $\downarrow$  repeatedly to select the MP3 files or folders, then press ENTER.

The MP3 files or folders are marked. To cancel the selection, press ENTER again.



MP3 files or folders to be transferred

**To select all tracks or folders on the DATA CD/DVD**

Press  $\uparrow/\downarrow/\leftarrow/\rightarrow$  repeatedly to select "☑ ALL," then press ENTER. To cancel the selection, select "☐ ALL," then press ENTER.

- 5 Press  $\uparrow/\downarrow/\leftarrow/\rightarrow$  repeatedly to select "START," then press ENTER. The system starts transferring and the transfer status appears. No sound is output during transfer. To stop transferring, press ■.

## Folder and file names and generation rules

When first transferring music to the USB device, a "MUSIC" folder is created directly below the "ROOT" folder. Folders and files are generated within this "MUSIC" folder as follows.

### CD SYNCHRO<sup>1)</sup>

Music source	Folder name	File name
AUDIO CD	"FLDR001" <sup>2)</sup>	"TRACK001" <sup>2)</sup>
MP3 (DATA CD)	Same as the music source <sup>3)</sup>	

### REC 1

Music source	Folder name	File name
AUDIO CD	"REC1-CD" <sup>4)</sup>	"TRACK001" <sup>2)</sup>
MP3 (DATA CD/DVD)	"REC1-MP3" <sup>4)</sup>	Same as the music source <sup>3)</sup>

- <sup>1)</sup> Except when resuming playback.
- <sup>2)</sup> Folder and file numbers are assigned serially thereafter.
- <sup>3)</sup> Up to 64 characters of folder name and 60 characters of file name are assigned.
- <sup>4)</sup> A new file is created in the "REC1-CD" or "REC1-MP3" folder each time REC 1 is performed.

## To return to the previous display

Press  RETURN.

## To delete audio files or folders from the USB device

You can delete audio files or folders on the USB device. Note that you cannot delete files and folders in shuffle play mode or program play mode.

- 1** Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "USB."
- 2** Press  +/- repeatedly to select a folder.  
To delete all files in a folder, press CLEAR.  
To delete a file, press ENTER. "FILE LIST" appears.  
Press  or  repeatedly to select the desired file, then press CLEAR.
- 3** Press  or  repeatedly to select "YES."  
To cancel the delete operation, select "NO."
- 4** Press ENTER.  
The selected file or folder is deleted.

## Notes

- When transferring music from a CD, the tracks are transferred as 128 kbps MP3 files. When transferring music from an MP3 disc, MP3 files are transferred with the same bit rate as the original MP3 files.
- If you start transferring in shuffle play mode or repeat play mode, the selected play mode is automatically canceled and the play mode switches to normal play mode.
- CD text information is not transferred in the created MP3 files.
- If you cancel music being transferred from an MP3 disc partway, an incomplete MP3 file generated on the USB device will be deleted.
- Transferring stops automatically if:
  - you change the function.
  - you turn off the system.
  - the USB device runs out of space during the transfer process.
  - the number of tracks and folders on the USB device reaches the limit for the number that the system can recognize.
- If the folder to be deleted contains non-MP3/WMA (Windows Media Audio)/AAC (Advanced Audio Coding) audio files or sub folders, these are not deleted.
- If a folder or audio file that you are trying to transfer already exists on the USB device with the same name, a sequential number is added after the name without overwriting the original folder or file.

## Recording analog audio to a USB device

You can record the sound from analog audio sources. The sound is recorded as 128 kbps MP3 file.

- 1 Connect the USB device to the  (USB) port.
- 2 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select the desired source.
  - TUNER FM/AM: To record from this system's tuner.
  - AUDIO IN: To record from the optional component connected to the AUDIO IN jack.
  - TV/VIDEO AUDIO IN: To record from the TV or video equipment connected to the TV/VIDEO AUDIO IN jacks.

- 3** If you connected a Sony Ericsson mobile phone, press **MEMORY SELECT** repeatedly to choose a recording destination. You can choose the internal memory or a Memory Stick (if inserted) on the Sony Ericsson mobile phone.

Memory number  
(varies depending on the mobile phone model)



- 4** Press **REC TO USB** on the unit. “Please Wait” appears and the display switches between “xxMB Free” (free space on the USB device) and “Push PLAY.” The USB device stands by for recording.
- 5** Start playing the desired source to record, then press **▷** (or **▶** on the unit). “USB” and “REC” light up and recording starts.

## Note

Recording stops automatically when:

- you change the function.
- you change the band.
- you turn off the system.
- the USB device runs out of space during the recording.
- the number of files or folders on the USB device reaches the limit for the number that the system can recognize.

## Folder and file names and generation rules

When first recording an analog audio to the USB device, a “MUSIC” folder is created directly below the “ROOT” folder.

Folders and files are generated within this “MUSIC” folder as follows.

Music source	Folder name	File name
TUNER	“FM001”* or “AM001”*	“TRACK001”*
AUDIO IN	“AUDIO001”*	“TRACK001”*
TV/VIDEO AUDIO IN	“TV001”*	“TRACK001”*

\* Folder and file numbers are assigned serially thereafter.

## To stop recording

Press **■**.

## To delete audio files or folders from the USB device

See page 74.

## To mark track numbers

You can mark the track numbers during recording of any source.

Press REC TO USB on the unit at the point you want to add a track mark.

The system pauses recording for a few seconds and adds track mark, showing message “New Track.” No sound is recorded during pause time.

### Note

The track numbers are automatically marked when you record more than 60 minutes.

## To remove the USB device

- 1 Press  to stop playback.
- 2 Press  to turn off the system.
- 3 Remove the USB device.

## Playing a file of the USB device

You can listen to music stored in the USB device.

The audio formats that can be played back by this system are as follows: MP3\*/WMA\*/AAC\*.

You can view image files and video files stored in the USB device.

The image file and video file formats that can be played back by this system are as follows: JPEG/DivX/MP4.

\* Files with copyright protection (Digital Rights Management) cannot be played back by this system.

- 1 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select “USB.”
- 2 Connect the USB device to the  (USB) port.  
When the USB device is connected, “Reading” appears and “USB MEMORY” lights up in the display.

- 3** If you connected a Sony Ericsson mobile phone, press MEMORY SELECT repeatedly to choose either the internal memory or a Memory Stick (if inserted).

Memory number  
(varies depending on the mobile phone model)



- 4** Press  DISPLAY (when playback is stopped).  
The Control Menu appears on the TV screen.

- 5** Press  or  repeatedly to select  (MEDIA), then press ENTER.

The options for “MEDIA” appear on the TV screen.

- MUSIC: for playing audio files
- VIDEO: for playing video files
- PHOTO: for playing JPEG image files

- 6** Press  or  repeatedly to choose the desired option, then press ENTER. When the desired option has already been selected, press DVD/USB MENU (European models only) or DVD/USB/TUNER MENU (except for European models).

A list of folders that contain the files of the selected file type appears on the TV screen.

- 7** Press **▲** or **▼** repeatedly to select a folder.

**Playing a folder:**

Press **▷** (or **▶** on the unit).  
The system starts playback from the first file of the selected folder.  
To stop playback, press **■**.

**Playing an audio file:**

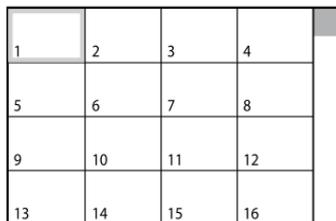
- 1** Press **ENTER**.  
“TRACK LIST” appears.



- 2** Press **▲** or **▼** repeatedly to select the desired audio file, then press **ENTER**.  
The system starts playing the selected audio file.  
To stop playback, press **■**.

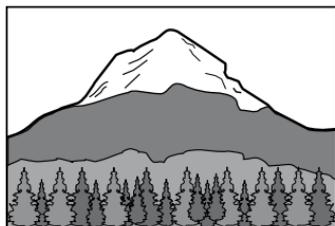
**Playing an image file:**

- 1** Press **PICTURE NAVI**.  
Thumbnail picture for the first 16 JPEG image files in the selected folder is displayed.



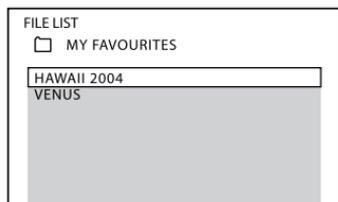
If there are more than 16 image files in the selected folder, the scroll bar appears at the right.

- 2** Press **▲/▼/◀/▶** to select the image you want to view, then press **▷** (or **▶** on the unit).  
The slide show starts from the selected image file.  
To stop playback, press **■**.  
The slide show stops when you press **▲** or **▼**.



## Playing a video file:

- 1 Press ENTER.  
“FILE LIST” appears.



- 2 Press  $\uparrow$  or  $\downarrow$  repeatedly to select the desired video file, then press ENTER.

The system starts playing the selected of video files.

To stop playback, press  $\blacksquare$ .

## Other operations

To	Do this
Display the next or previous page of “TRACK LIST,” “FOLDER LIST” or “FILE LIST”	Press $\leftarrow \bullet \bullet \rightarrow$ repeatedly.
Play back the next folder of audio files or video files	Press $\blacktriangleright \blacktriangleright \blacktriangleright$ repeatedly until the last file of the current folder, then press $\blacktriangleright \blacktriangleright \blacktriangleright$ once. To select the previous folder, select the folder from “FOLDER LIST.”
Return to “FOLDER LIST” when “TRACK LIST,” or “FILE LIST” is displayed	Press $\hookrightarrow$ RETURN.
Play back the next folder of JPEG image files	Press $\blacktriangleright$ repeatedly until the last file of the current folder, then press $\blacktriangleright$ once. To select the previous folder, select the folder from “FOLDER LIST.”
Rotate the image by 90 degrees	Press $\uparrow$ or $\downarrow$ repeatedly while viewing an image. To return to the original view, press CLEAR.

## To remove the USB device

- 1 Press **■** to stop playback.
- 2 Press **I/⏻** to turn off the system.
- 3 Remove the USB device.

### Notes

- The file formats that this system can play are as follows:
  - MP3: file extension “.mp3”
  - WMA: file extension “.wma”
  - AAC: file extension “.m4a”
  - JPEG: file extension “.jpg” or “.jpeg”
  - MP4: file extension “.3gp” or “.mp4”
  - DivX: file extension “.avi” or “.divx”

Note that even when file names have the above file extensions, if the actual files differ, playing these files may generate a loud noise which could damage the speaker system and the system may malfunction.
- The following USB devices/situations can increase the time it takes to start playback:
  - a USB device recorded with a complicated tree structure.
  - when the files in another folder have just been played back.
- The system can playback to a depth of 8 folders only.
- Resume Play is canceled when you turn off the system or change the function.
- This system does not necessarily support all the functions provided in a connected USB device.
- The playback order for the system may differ from the order of the connected USB device.
- Folders that have no audio files or JPEG image files are skipped.

## To specify the slide show speed

(JPEG image files only)

- 1 Press **⏻** DISPLAY repeatedly until the Control Menu for JPEG image files appears on the TV screen.
- 2 Press **▲** or **▼** repeatedly to select **INTERVAL** (INTERVAL), then press **ENTER**. The options for “INTERVAL” appear on the TV screen.
- 3 Press **▲** or **▼** repeatedly to select the desired transition interval. The default setting is underlined.
  - NORMAL: Sets to the standard duration.
  - FAST: Sets the duration shorter than “NORMAL.”
  - SLOW 1: Sets the duration longer than “NORMAL.”
  - SLOW 2: Sets the duration longer than “SLOW 1.”
- 4 Press **ENTER**. The selected setting takes effect.

### Note

Some JPEG image files (especially progressive JPEG image files or JPEG image files with 3,000,000 pixels or more) may take a longer time to display than others, which may make the transitions seem longer than that of the option you selected.

## To select a transition effect for image files in the slide show

(JPEG image files only)

- 1 Press  DISPLAY repeatedly until the Control Menu for JPEG image files appears on the TV screen.
- 2 Press  or  repeatedly to select  (EFFECT), then press ENTER. The options for “EFFECT” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.  
The default setting is underlined.
  - MODE 1: The image sweeps in from top to bottom of the screen.
  - MODE 2: The image sweeps in from left to right of the screen.
  - MODE 3: The image stretches out from the center of the screen.
  - MODE 4: The image randomly cycles through the effects.
  - MODE 5: The next image slides over the current image.
  - OFF: Turns off this function.
- 4 Press ENTER.  
The selected setting takes effect.

## Playing in random order (Shuffle Play)

You can play back the files on the USB device in random order. Each time you perform Shuffle Play, the playing order may differ.

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (SHUFFLE), then press ENTER.  
The options for “SHUFFLE” appear on the TV screen.
- 3 Press  or  repeatedly to select the desired setting.
  - ON (MUSIC): All audio files in the selected folder on the USB device are played back randomly.  
When no folder is selected, the first folder is played back randomly.
- 4 Press ENTER.  
Shuffle Play starts.  
To cancel Shuffle Play, press CLEAR or select “OFF” in Step 3.

**Notes**

- Shuffle Play is canceled when:
  - you remove the USB device.
  - you turn off the system.
  - you change the function.
  - you set “MEDIA” to “PHOTO” or “VIDEO” when playback is stopped.
- The same song may be played back repeatedly for audio files.

**Playing repeatedly (Repeat Play)**

You can play the audio files and JPEG image files on the USB device repeatedly. You can select Shuffle Play at the same time.

- 1 Press  DISPLAY.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (REPEAT), then press ENTER.  
The options for “REPEAT” appear on the TV screen.

- 3 Press  or  repeatedly to select the desired setting.

- MEMORY: repeats all the folders on the USB device.
- FOLDER: repeats the current folder.
- TRACK: repeats the current file.

**When Shuffle Play is activated:**

- ON: repeats the Shuffle Play.

- 4 Press ENTER.
- 5 Press  (or  on the unit).  
Repeat Play starts.  
To cancel Repeat Play, press CLEAR or select “OFF” in Step 3.

**Notes**

- “REP” lights up in the display when Repeat Play is set to “MEMORY,” “FOLDER” or “ON.”
- “REP1” lights up in the display when Repeat Play is set to “TRACK.”
- Repeat Play is canceled when:
  - you remove the USB device.
  - you turn off the system.
  - you change the function.

**Tip**

You can also change the Repeat Play setting by pressing REPEAT (European models only) or REPEAT/FM MODE (except for European models) repeatedly.

## Sound Adjustment

### Generating a more dynamic sound (DSGX—Dynamic Sound Generator X-tra)

You can reinforce the bass and create a more powerful sound. The DSGX mode is ideal for music sources.

When the DSGX mode is On, the “DSGX” indicator is displayed in the display.

(European models only)

- 1 Press DSGX repeatedly to turn on/off the “DSGX” indicator.

(Except for European models)

- 1 Press EQ/DSGX until “DSGX” appears on the message area of the display.
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to turn on/off the “DSGX” indicator.

### Adjusting the bass and treble levels

- 1 Press EQ (European models only) or EQ/DSGX (except for European models) repeatedly to select “BASS” or “TREBLE.”
- 2 Press PRESET +/- repeatedly to adjust the level.

## Singing along: Karaoke (except for European models)

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

You can enjoy Karaoke by setting the system to Karaoke Mode.

- 1 Press **FUNCTION** (or **FUNCTION +/-** on the unit) to select “**DVD**” or “**USB**.”
- 2 Press **MIC LEVEL -** on the unit repeatedly until “**MIN**” appears in the display (to minimize the microphone volume).
- 3 Connect a microphone to **MIC** jack on the unit.  
 The Karaoke Mode is turned on. “**KARAOKE MODE: ON**” appears on the TV screen and “” appears in the display.

- 4 Start playing the music and adjust the volume.

### **DVD VIDEO, DVD-R/-RW in VR mode and video files:**

The system outputs the audio format that you have selected.

### **AUDIO CD, VIDEO CD, MP3 files:**

The audio setting automatically changes to “**1/L**” and the system outputs the left channel audio.

### **If you want to hear vocal:**

Press **AUDIO** repeatedly to select another audio channel.

- 5 Start singing along with the music and adjust the microphone volume by turning **MIC LEVEL**.

### **To turn off the Karaoke Mode**

Disconnect the microphone. “**KARAOKE MODE: OFF**” appears on the TV screen.

### **To adjust the microphone echo level**

Press **ECHO LEVEL +/-** on the unit repeatedly.

To cancel the echo effect, press **ECHO LEVEL -** on the unit repeatedly until “**MIN**” appears in the display.

Continued 

## Notes

- The sound input from the microphone is not output from the DVD DIGITAL OUT jack.
- Karaoke Mode is automatically turned off when you:
  - turn off the system.
  - change the function.
  - connect the headphones.
- If howling occurs:
  - move the microphone away from the speakers.
  - change the direction of the microphone.
  - lower the MIC LEVEL or ECHO LEVEL.
  - press VOLUME — repeatedly.

## Changing the key (Key Control)

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

Press KEY CONTROL **b/#** to suit your vocal range in Karaoke mode.

You can adjust the key higher or lower in 13 steps (**b6** – **#6**).

## Notes

- Depending on the disc, you may not be able to change the key.
- The key automatically returns to the original key when:
  - you turn off the system.
  - you change the function.
  - you eject the disc.
  - you stop playback.
  - the title, track or audio file changes.
  - you change the folder.
  - the play item is changed during PBC playback.
  - you perform Lock Search.
  - you cancel Karaoke mode.
  - DVD layer is changed.

## Playing karaoke with any stereo disc (“Karaoke Pon”)

You can enjoy karaoke with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the sound of the vocals.

Press KARAOKE PON in Karaoke mode.

To cancel “Karaoke Pon” mode, press KARAOKE PON again.

## Notes

- This function may not work well when:
  - only a few instruments are playing.
  - a duet is playing.
  - the vocals on the disc deviate from the center.
  - playing monaural-recorded discs (the accompaniment is also reduced).
  - playing multiplex discs.
- During “Karaoke Pon” mode, the stereo effect is reduced.
- “Karaoke Pon” mode is automatically canceled when:
  - you turn off the system.
  - you change the function.
  - you eject the disc.
  - you press AUDIO.
  - you set “VOCAL SELECT” to other than “OFF”
  - you cancel Karaoke mode.

## Selecting the vocals (Vocal Select)





When playing a DVD with the “Dolby Digital Karaoke” format in Karaoke mode, you can turn on or off the guide vocal recorded in the karaoke track. When playing a VIDEO CD or AUDIO CD in Karaoke mode, you can listen to the vocals.

You can also change the guide vocal channel. You can select different kinds of vocals.

- 1 Press  DISPLAY in Karaoke mode.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (VOCAL SELECT), then press ENTER.  
The options for “VOCAL SELECT” appear on the TV screen.

Continued 

### 3 Press **↑** or **↓** repeatedly to select the desired vocal channel.

The output channel changes as follows.

The default setting is underlined.

#### When playing a DVD VIDEO

- OFF: Turns off the guide vocal.
- 1+2: Guide vocal 1+2
- 1: Guide vocal 1
- 2: Guide vocal 2

#### When playing a VIDEO CD or AUDIO CD

- OFF: Turns off the guide vocal.
- L+R: The same sound is output from both speakers.
- STEREO: The standard stereo sound

#### When playing a Super VCD

- OFF: Turns off the guide vocal.
- 1:L+R: The same sound of the audio track 1 is output from both speakers.
- 1:STEREO: The stereo sound of the audio track 1
- 2:L+R: The same sound of the audio track 2 is output from both speakers.
- 2:STEREO: The stereo sound of the audio track 2

### 4 Press **ENTER**.

#### Notes

- When playing a DVD VIDEO, the function works only with the “Dolby Digital Karaoke” format.
- Depending on the disc, you may not be able to change the guide vocal channel.
- The channel returns to the default setting when:
  - you turn off the system.
  - you change the function.
  - you eject the disc.
  - you press AUDIO.
  - you cancel Karaoke mode.
  - you set “Karaoke Pon” mode to on.
- When playing a DVD VIDEO recorded only with one kind of guide vocal, select “1.”

### Selecting the scoring mode (Score Mode)

When karaoke mode is turned on, you can use the scoring mode.

Your score is calculated by comparing your voice with the music source.

#### 1 Press **DISPLAY** in Karaoke mode.

The Control Menu appears on the TV screen.

- 2** Press **▲** or **▼** repeatedly to select **★★★** (SCORE MODE), then press ENTER.

The options for “SCORE MODE” appear on the TV screen.

- 3** Press **▲** or **▼** repeatedly to select a setting.

The default setting is underlined.

- **BEGINNER 1**: Beginner level. The score updates every 3 seconds.
- **BEGINNER 2**: Beginner level.
- **EXPERT 1**: Advance level. The score updates every 3 seconds.
- **EXPERT 2**: Advance level.
- **DEMO**: Demonstration mode. The score is displayed regardless of singing.

- 4** Press ENTER.

- 5** Start playing the music.

- 6** Press SCORE before singing a song in Karaoke mode.

The previous highest score appears on the TV screen and the display changes as follows according to the level selected for “SCORE MODE.”

**★○○**: When you select “BEGINNER 1” or “EXPERT 1.”

**★--**: When you select “BEGINNER 2” or “EXPERT 2.”

**★DEMO**: When you select “DEMO.”

- 7** After singing for more than a minute, press SCORE again to view your score.

Your score is calculated from a scale of 0 to 99.

Your score is displayed for 5 seconds, during which time the system enters pause mode.

After your score, the ranking is displayed as follows:

- The ranking is displayed as a list with top 3 scores.
- Your score and ranking for the last song flash.
- If you are in the top 10, your ranking is displayed. If not, “10+” is displayed.
- If your score is “0,” your score is not displayed in the ranking list.

#### Notes

- The highest score is reset when the system is turned off.
- The “SCORE MODE” function may be canceled when certain remote buttons are pressed.
- In some cases, you may not be able to use the scoring mode.

#### Tip

The “SCORE MODE” setting is automatically changed to “BEGINNER 1” when the system is turned off.

## Other Operations

### Using the timers

The system offers three timer functions. You cannot activate both the Play Timer and the Rec Timer at the same time. If you use either with the Sleep Timer, the Sleep Timer has priority. Use buttons on the remote to use the timer functions.

#### Sleep Timer

You can fall asleep to music. This function works even if the clock is not set.

Press SLEEP repeatedly.

Each press of the button sets the sleep timer as follows:  
SLEEP 90m → SLEEP 80m → ... →  
SLEEP 10m → SLEEP OFF → SLEEP  
90m → ...

#### Play Timer

You can wake up to DVD, tuner or optional USB device at a preset time. Make sure you have set the clock. If you connected the unit to the TV using the HDMI cable, turn off the TV before using the Play Timer.

#### Rec Timer

You can record from a preset radio station at a specified time. Make sure you have set the clock.

**1** Prepare the sound source.

#### For Play Timer:

Prepare the sound source, and then press VOLUME +/- to adjust the volume.

#### For Rec Timer:

Tune in the desired preset radio station.

**2** Press TIMER MENU.

**3** Press **▲** or **▼** repeatedly to select "PLAY SET?" or "REC SET?," then press ENTER. "ON TIME" appears and the hour indication flashes in the display.

**4** Set the time to start playback or recording.

Press **▲** or **▼** repeatedly to set the hour, then press ENTER.

The minute indication flashes in the display. Use the procedure above to set the minute. "OFF TIME" appears and the hour indication flashes in the display.

**5** Use the same procedure as in Step 4 to set the time to stop playback or recording.

- 6** Select the function when using Play Timer, or prepare a USB device when using Rec Timer.

**For Play Timer:**

Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until the desired sound source appears, and then press ENTER. The display shows the timer settings.

**For Rec Timer:**

When recording to a USB device, perform steps 1 to 3 in "Playing a file of the USB device" (page 77).

- 7** Press  $I/\text{OFF}$  to turn off the system.

When you set the Rec Timer, the system turns on 90 seconds before the preset time. When you set the Play Timer, the system turns on 30 seconds before the preset time. Do not operate the system from the time the system turns on until the play or recording starts.

**To check the setting**

- 1 Press TIMER MENU.  
"TIMER SEL?" flashes in the display.
- 2 Press ENTER.
- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to select "PLAY SEL?" or "REC SEL?"
- 4 Press ENTER.

**To change the setting**

Start over from Step 1.

**To cancel the timer**

- 1 Press TIMER MENU.  
"TIMER SEL?" flashes in the display.
- 2 Press ENTER.
- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly to select "TIMER OFF."
- 4 Press ENTER.

**Notes**

- The timers may not operate properly if a Sony Ericsson mobile phone is used.
- The Play Timer and Rec Timer will not be activated if the system is turned on or if "STANDBY" flashes in the display. Be sure to turn off the system at least 120 seconds before the preset time.
- The volume is reduced to minimum during Rec Timer.
- The track numbers are automatically marked when you record more than 60 minutes.

**Tips**

- The Play Timer setting remains as long as the setting is not canceled manually.
- The Rec Timer will be canceled automatically once the Rec Timer is performed.

---

## Turning off the beep sound

You can turn off the beep sound of the system.

Use buttons on the unit for the operation.

- 1 Press I/⏻ to turn on the system.
- 2 Press I/⏻ and VOLUME — at the same time and hold until “BEEP OFF” appears in the display.

### To turn on the beep sound

Repeat the above procedure, until “BEEP ON” appears in the display.

---

## Changing the display

### Changing the brightness of the display

You can choose the brightness option for the display from the following (the default setting is underlined):

- DIMMER OFF: The display is always bright.
- DIMMER ON: The display is always dimmed.
- AUTO: The display becomes bright only when the any button is pressed.

Press DIMMER repeatedly until your desired dimmer option appears.

## Turning off the display (Power Saving Mode)

The clock display can be turned off to minimize the amount of power consumed during standby mode (Power Saving Mode).

Press DISPLAY repeatedly while the system is turned off.

No display (Power Saving Mode) ↔ Clock\*

\* The clock display automatically turns to Power Saving Mode after 8 seconds.

### Note

You cannot perform the following operations during Power Saving Mode:

- Setting the clock (page 32).
- Changing the AM tuning interval (except for European and Russian models) (page 113).
- Changing the color system (except for European and Russian models) (page 25).

## Viewing information about the disc in the front panel display

Press DISPLAY.

Each time you press DISPLAY, the display changes from ① → ② → ③ → ① → ...

- ① Disc information
- ② Clock display (for 8 seconds)
- ③ Effect name (for 4 seconds)

## Checking the elapsed playing time, remaining time and titles

Press TIME/TEXT during playback.

Each time you press TIME/TEXT, the display changes from ① → ② → ... → ① → ...

### **When playing a DVD VIDEO or DVD-R/-RW in VR mode:**

- When the menu or the title without a chapter is played back
  - ① Elapsed playing time of the menu or the current title
  - ② Disc title<sup>1)</sup>
- When a chapter other than above condition is played back
  - ① Elapsed playing time of the current title
  - ② Remaining time of the current title
  - ③ Elapsed playing time of the current chapter
  - ④ Remaining time of the current chapter
  - ⑤ Disc title<sup>1)</sup>
  - ⑥ Title and chapter<sup>2)</sup>

### **When playing an AUDIO CD or VIDEO CD without PBC function:**

- ① Elapsed playing time of the current track
- ② Remaining time of the current track
- ③ Elapsed playing time of the disc<sup>3)</sup>
- ④ Remaining time of the disc<sup>3)</sup>
- ⑤ Track name<sup>1)</sup>
- ⑥ Track and index<sup>4)5)</sup>

### **When playing a VIDEO CD with PBC function:**

- ① Elapsed playing time of the current scene
- ② Disc title<sup>1)</sup>
- ③ Scene number<sup>6)</sup>

### **When playing MP3 files or video files on a DATA CD/DVD:**

- ① Elapsed playing time of the current file
- ② File name<sup>7)8)</sup>

### **Checking the total playing time and titles**

Press TIME/TEXT repeatedly when playback is stopped.

Each time you press TIME/TEXT, the display changes from ① → ② → ① → ...

### **DVD VIDEO or DVD-R/-RW in VR mode:**

- ① Total number of titles on the disc
- ② Disc title<sup>1)</sup>

### **AUDIO CD or VIDEO CD without PBC playback:**

- ① Total number of the tracks on the disc and the total playing time of the disc
- ② Disc title<sup>1)</sup>

### **VIDEO CD with PBC playback:**

- ① Total number of scenes on the disc
- ② Disc title<sup>1)</sup>

<sup>1)</sup> "NO TEXT" appears in the display if the DVD VIDEO is not a DVD-TEXT disc, the AUDIO CD is not a CD-TEXT disc or the VIDEO CD does not have text information.

<sup>2)</sup> Title and chapter are displayed for 2 seconds before the display returns to the elapsed playing time.

- 3) When Program Play or Shuffle Play is turned on, the elapsed playing time and the remaining time of the disc would be skipped.
- 4) VIDEO CD only
- 5) The current track number and the current index number (for a disc without PBC) or the current scene number (for a disc with PBC) are displayed for 2 seconds before the display returns to the elapsed playing time.
- 6) The current scene number is displayed for 2 seconds before the display returns to the elapsed playing time.
- 7) When playing video files, the current folder number and the current file number are displayed for 2 seconds before the display returns to elapsed playing time when you press TIME/TEXT during display of title of the file.
- 8) 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 supports 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 are used for a single MP3 file.

## Notes

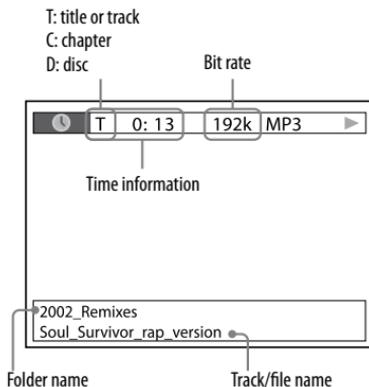
- If you play back a disc containing JPEG image files only, "JPEG" or "No Audio" appears in the display.
- You cannot use TIME/TEXT to change the display of disc information when:
  - a JPEG image file is played back.
  - playback is stopped for DATA CD/DVD with MP3 files and/or JPEG image files.
  - playback is stopped for DATA CD/DVD with video files.
- Characters that cannot be displayed appear as "\_".
- The elapsed playing time of MP3 files and video files may not be displayed correctly.

## Viewing information about the disc in the on-screen display

### Press TIME/TEXT.

Each time you press TIME/TEXT while playing the disc, the display changes from ① → ② → ... → ① → ...

The time display that you can view on the TV screen depends on the disc you are playing.



### Note

The Control Menu display will show different items depending on the disc type.

### When playing a DVD VIDEO or DVD-R/-RW in VR mode:

- ① Elapsed playing time of the current title
- ② Remaining time of the current title
- ③ Elapsed playing time of the current chapter
- ④ Remaining time of the current chapter
- ⑤ Elapsed playing time of the current title and disc title

### When playing a VIDEO CD with PBC function:

- ① Elapsed playing time of the current scene
- ② Disc title

### When playing an AUDIO CD or VIDEO CD without PBC function:

- ① Elapsed playing time of the current track
- ② Remaining time of the current track
- ③ Elapsed playing time of the disc
- ④ Remaining time of the disc
- ⑤ Elapsed playing time of the current track and track name

### When playing MP3 files or video files on a DATA CD/DVD:

Elapsed playing time of the current file and folder/file name\*

- \* 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 supports 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.

### Notes

- Only alphabet letters, numbers and some symbols can be displayed.
- Depending on the disc, the system can only display a limited number of characters.
- For MP3 files with format other than ISO 9660 Level 1 and Level 2, folder name and file name may not be displayed.

### Displaying the audio information of the disc

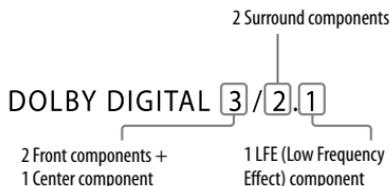
(DVD VIDEO and video files only)  
When you press AUDIO repeatedly during playback, the format of the current audio signal is displayed on the TV screen.

### When playing a DVD VIDEO:

For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD VIDEO.

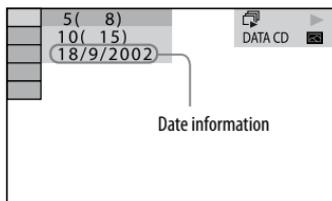
Example:

For Dolby Digital 5.1 channel:



## Checking the date information of JPEG image files

When “Exif”\* tag is recorded in the JPEG image files, you can check the date information in the Control menu by pressing  DISPLAY during playback.



\* “Exchangeable Image File Format” is a digital camera image format defined by the “Japan Electronics & Information Technology Industries Association” (JEITA).

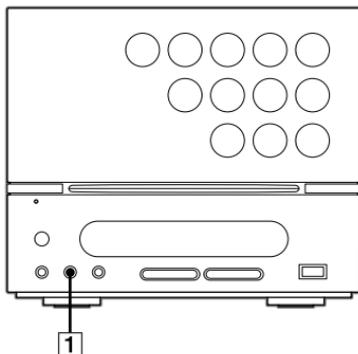
### Note

The date information format varies depending on the area.

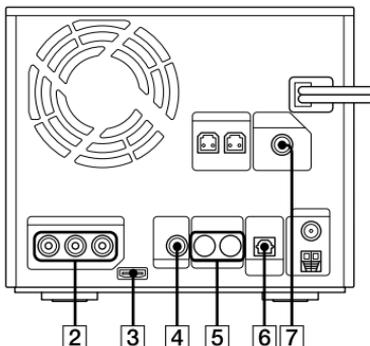
## Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.

### Front panel



### Rear panel



Continued 

### 1 AUDIO IN jack

Connect the audio output jack of an optional component (portable audio player, etc.).

### 2 COMPONENT VIDEO OUT jacks

Connect the component video input jacks of the TV or projector.  
For details, see “Hooking up the TV” (page 25, 29).

### 3 HDMI OUT jack

Connect the HDMI input jack of the TV or projector.  
For details, see “Hooking up the TV” (page 25, 26).

### 4 VIDEO OUT jack

Connect the video input jack of the TV or projector.  
For details, see “Hooking up the TV” (page 25, 31).

### 5 TV/VIDEO AUDIO IN jacks

Connect the audio output jacks of the TV, projector or video.  
(If you want to use the “Theater Mode” and “System Audio Control” features of the BRAVIA Sync function, connect to the TV.)

### 6 DIGITAL OUT OPTICAL jack

Connect the digital optical input jack of an optional digital component (such as amplifier). You can enjoy 5.1 channel sound, if the connected amplifier equipped with Dolby Digital or DTS decoder.

#### Notes

- Sound is output only when the system function is set to “DVD” or “USB”
- If you press AUDIO or the buttons related to Karaoke Mode, or if you connect or disconnect microphones or headphones, the sound cuts off for a moment.

### 7 SUBWOOFER OUT jack (CMT-DH70SWR only)

Connect the audio input jack of the supplied subwoofer.

#### Note

The effect may be limited or noise may occur depending on the type of music being played back.

## Changing the input level of the sound from connected components

You can reduce the audio input level if the sound from the TV/VIDEO AUDIO IN jacks is distorted.

- 1 Press **I/⏻** to turn on the system.
- 2 Press **DVD/USB MENU** (European models only) or **DVD/USB/TUNER MENU** (except for European models).  
The current setting appears. (The default setting is underlined.)
  - ATT OFF: Normal audio input level (attenuation is off)
  - ATT ON: The audio input level is lowered (attenuation is on).
- 3 To change the setting to the other, press **DVD/USB MENU** (European models only) or **DVD/USB/TUNER MENU** (except for European models) again while “ATT OFF” or “ATT ON” is displayed.

## Enjoying the multi channel sound with the optional amplifier

- 1 Connect the digital optical cord.  
See “Hooking up optional components” (page 97).
- 2 Connect the speakers (not supplied) to an optional amplifier equipped with a decoder.  
For the speakers placement, refer to the operating instructions supplied with the connected amplifier.
- 3 Start playing a multi channel source, such as a DVD VIDEO.
- 4 Select the desired audio format.  
See “Changing the language/sound” (page 38).

## Additional Information

### Troubleshooting

Should you encounter a problem with your system, do the following:

- 1 Make sure the power cord and speaker cords are connected correctly and firmly.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer.

#### **If the STANDBY indicator flashes**

Immediately unplug the power cord, and check the following items.

- Are you using only the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

After the STANDBY indicator stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

### General

#### **“--:--” appears in the display.**

- A power failure has occurred. Set the clock (page 32) and timer settings (page 90) again.

#### **The system does not turn on.**

- Is the power cord plugged in?

#### **The clock or timer setting is canceled.**

- The power cord is disconnected or a power failure occurred. Redo “Setting the clock” (page 32). If you have set the timer, redo “Using the timers” (page 90).

#### **There is no sound.**

- Press VOLUME + repeatedly.
- The headphones are connected to the PHONES jack.
- Check the speaker connections (page 22).
- There is no audio output during Rec Timer.
- The system is in pause mode, in Slow-motion Play or in Lock Search. Press  (or  on the unit) to start the playback.
- No sound is output when transferring music to the USB device.

**There is no microphone sound (except for European models).**

- Press VOLUME + repeatedly or press MIC LEVEL + on the unit repeatedly to adjust the microphone volume.
- Make sure the microphone is connected to MIC jack correctly.
- Make sure the microphone is turned on.

**There is severe hum or noise.**

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.
- Move the unit away from the source of noise.
- Connect the unit to a different wall outlet.
- Install a noise filter (commercially available) to the power cord.

**The timer does not function.**

- Check the timer setting and set the correct time (page 90).
- Cancel the Sleep Timer function.

**The remote does not function.**

- Remove the obstacles between the remote and the unit.
- Move the remote closer to the unit.
- Point the remote at the unit's sensor.
- Replace the batteries (R6/size AA).
- Locate the unit away from the fluorescent light.

**There is acoustic feedback (except for European models).**

- Reduce the volume.
- Move the microphone away from the speakers or change the direction of the microphone.

**The color irregularity on the TV screen persists.**

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

## Speakers

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### Sound comes from one channel or unbalanced left and right volume.

- Place the speakers as symmetrically as possible.
- Check that the speakers are connected securely and correctly.
- The source being played back is monaural.

### There is no sound from the subwoofer (CMT-DH70SWR only).

- Set the subwoofer level to the appropriate level (page 23).
- Check that the subwoofer is connected securely and correctly.

## Disc Player

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### The disc does not eject.

- You cannot eject the disc when performing CD Synchro Recording. Press **■** to cancel the operation, then press **▲** on the unit to eject the disc.
- Consult your nearest Sony dealer or local authorized Sony service facility.

### Playback does not start.

- Check whether a disc is inserted.
- Wipe the disc clean (page 117, 118).
- Reinsert the disc.
- Insert the disc that this system can play back (page 8).
- Insert the disc with the label side facing up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press **▷** (or **▶** on the unit) to start playback.
- The region code on the DVD VIDEO does not match the system.

**The sound skips.**

- Wipe the disc clean (page 117, 118).
- Reinsert the disc.
- Move the unit to a place without vibration (e.g., on top of a stable stand).
- Move the speakers away from the unit, or place them on separate stands. When you listen to a track or file with bass sounds at high volume, the speaker vibration may cause the sound to skip.

**Playback does not start from the first track.**

- Shuffle Play mode, Program Play mode or Repeat Play mode is selected.
- Resume Play has been selected. Press ■ twice. Then, press ▷ (or ► on the unit) to start playback (page 36).
- The title of DVD VIDEO or PBC menu automatically appears on the TV screen.

**Playback starts automatically.**

- The DVD VIDEO features an auto playback function.

**Playback stops automatically.**

- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at auto pause signal.

**You cannot perform some functions such as Stop, Lock Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.**

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

**The DATA CD/DVD (MP3 file/JPEG image file/video file) cannot be played back.**

- The DATA CD is not recorded in a format that conforms to ISO 9660 Level 1, Level 2, or Joliet (expansion format).
- The DATA DVD is not recorded in a format that conforms to UDF (Universal Disk Format).
- The MP3 file does not have the extension “.mp3”.
- The data is not stored in the desired format.

- The audio file is not stored in MP3 (MPEG1 Audio Layer 3) format.
- The system can play back to a depth of 8 folders only.
- The disc contains more than 200 folders.
- The folder contains more than 150 files.
- The JPEG image file does not have the extension “.jpg” or “.jpeg”.
- The JPEG image file is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG mode which is mainly used on the Internet website.
- JPEG image files with a high width to length ratio cannot be played back.
- The MPEG4 video file does not have the extension “.mp4” or “.m4v.”
- The DivX video file does not have the extension “.avi” or “.divx”.
- The video file is larger than 720 (width) × 576 (height).
- If you cannot change the “MEDIA” setting, reload the disc, or turn the system off, then on.

### **The MP3 files take longer time to play back than others.**

- After the system reads all the MP3 files on the disc, playback may take more time than usual if:
  - the number of folders or MP3 files on the disc is very large.
  - the file structure is extremely complex.

### **“Data error” appears on the TV screen when playing a DATA CD/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 JPEG image file has the extension “.jpg” or “.jpeg”, but is not in JPEG format.
- The DivX video file has the extension “.avi” or “.divx”, but is not in DivX format.
- The DivX video file does not conform to a DivX Certified profile.
- The MPEG4 video file has the extension “.mp4” or “.m4v,” but is not in MP4 format.

**The disc title, CD-TEXT and DVD-TEXT characters do not appear properly.**

- The disc is recorded in format other than ISO 9660 Level 1, Level 2, or Joliet (expansion).
- The character code that can be displayed by this system are as follows:
  - Upper cases (A to Z)
  - Numbers (0 to 9)
  - Symbols (< > \* + , ? / [ ] \ \_)Other characters appear as “\_”.

**The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG audio sound track.**

- Check the speaker connection (page 22).
- Depending on the DVD VIDEO, the output signal may not be the entire 5.1 channel. It may be monaural or stereo, even if the sound track is recorded in Dolby Digital or MPEG audio format.

**The sound loses stereo effect when you play back a DVD VIDEO, VIDEO CD, AUDIO CD, MP3 file or video file.**

- Unplug the microphone.
- Make sure the system is connected properly.
- Check the speaker connection (page 22).

**USB device**

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**You cannot start transferring or recording to a USB device.**

- The following problems may have occurred.
  - The USB device is full.
  - The number of files and folders on the USB device has reached the upper limit.
  - The USB device is write-protected.

**Transferring or recording is stopped before it is finished.**

- You are using an unsupported USB device. Check the information on the websites about compatible USB devices (page 69).
- The USB device is not formatted correctly. Refer to the operating instructions supplied with the USB device for how to format.
- Turn off the system and remove the USB device. If the USB device has a power switch, turn the USB device off and then on again after removing it from the system. Then perform transferring again.
- If the transfer, recording and delete operations are repeated multiple times, the file structure within the USB device becomes fragmented. Refer to the operating instructions supplied with the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

**Transferring or recording results in an error.**

- You are using an unsupported USB device. Check the information on the websites about compatible USB devices (page 69).
- Turn off the system and remove the USB device. If the USB device has a power switch, turn the USB device off and then on again after removing it from the system. Then perform transferring again.
- The USB device was disconnected or the power was turned off during the transfer process. Delete the partially-transferred file or partially-recorded file, and perform transferring or recording again. If this does not fix the problem, the USB device may be broken. Refer to the operating instructions supplied with the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

**MP3 files or folders on the USB device cannot be deleted.**

- Check if the USB device is write-protected.
- The USB device was disconnected or the power was turned off during the delete operation. Delete the partially-deleted file. If this does not fix the problem, the USB device may be broken. Refer to the operating instructions supplied with the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

**Are you using a supported USB device?**

- If you connect an unsupported USB device, the following problems may occur. Check the information on the websites about compatible USB devices (page 69).
  - The USB device is not recognized.
  - File or folder names are not displayed on this system.
  - Playback is not possible.
  - The sound skips.
  - There is noise.
  - A distorted sound is output.
  - Transferring or recording stops before it is finished.

**“Over” and “Current” appears alternately.**

- A problem has been detected with the level of electrical current from the  (USB) port. Turn off the system and remove the USB device from the  (USB) port. Make sure there is no problem with the USB device. If this display pattern persists, contact your nearest Sony dealer.

**There is no sound.**

- The USB device is not connected correctly. Turn off the system and reconnect the USB device, then turn on the system and check if “USB MEMORY” lights up.

**There is noise, skipping, or distorted sound.**

- Turn off the system, then reconnect the USB device.
- The music data itself contains noise, or the sound is distorted. Noise may have entered during the transfer process or recording. Delete the file, and try transferring or recording again.
- The bit rate used when encoding audio files was low. Send audio files with higher bit rate to the USB device.

### **The USB device cannot be connected into the (USB) port.**

- The USB device is being connected backwards. Connect the USB device in the correct orientation.

### **“Reading” is displayed for an extended time, or it takes a long time before playback starts.**

- The reading process can take a long time in the following cases.
  - There are many folders or files on the USB device.
  - The file structure is extremely complex.
  - The memory capacity is excessive.
  - The file size is extremely large.
  - The internal memory is fragmented.Thus, we recommend following these guidelines.
  - Total folders on USB device: 200 or less
  - Total files per folder: 150 or less

### **Erroneous display**

- Send the music data to the USB device again, as the data stored in the USB device may have been corrupted.
- The character code that can be displayed by this system are as follows:
  - Upper cases (A to Z)
  - Numbers (0 to 9)
  - Symbols (< > \* + , ? / [ ] \ \_)Other characters appear as “\_”.

### **The USB device is not recognized.**

- Turn off the system and reconnect the USB device, then turn on the system.
- Check the information on the websites about compatible USB devices (page 69).
- The USB device does not work properly. Refer to the operating instructions supplied with the USB device for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

### **“Data Error” appears in the display when playing a USB device.**

- The audio file/video file/JPEG image file you want to play is broken.
- The JPEG image file format does not conform to DCF.
- The JPEG image file has the extension “.jpg” or “.jpeg”, but is not in JPEG format.

### **Play does not start.**

- Turn off the system and reconnect the USB device, then turn on the system.
- Check the information on the websites about compatible USB devices (page 69).
- Press  (or  on the unit) to start play.

### **Play does not start from the first track.**

- Set the play mode to Normal Play mode.

### **Files cannot be played back.**

- The MP3 file does not have the extension “.mp3.”
- The WMA file does not have the extension “.wma.”
- The AAC file does not have the extension “.m4a.”
- The MPEG4 file does not have the extension “.mp4.”
- The DivX video file does not have the extension “.avi” or “.divx.”
- The audio file is not stored in MP3/WMA/AAC format.
- The video file is not stored in MP4/DivX format.
- The JPEG image file does not have the extension “.jpg” or “.jpeg.”
- The JPEG image file is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG mode which is mainly used on the Internet website.
- JPEG image files with a high width to length ratio cannot be played back.
- Check the “MEDIA” setting (page 78, 128).

- USB device formatted with file systems other than FAT12, FAT16 or FAT32 are unsupported.\*
  - The MP3 file is not stored in MP3 (MPEG1 Audio Layer 3) format.
  - The WMA file stored in WMA DRM/WMA Lossless/WMA PRO format cannot be played back.
  - The AAC file stored in copy-right protected AAC or AAC Lossless format cannot be played back.
  - AAC files encoded at a sampling frequency of 96 kHz cannot be played back.
  - If you use a partitioned USB device, only audio files on the first partition can be played.
  - The system can play back to a depth of 8 folders only.
  - The number of folders has exceeded 200.
  - The number of files has exceeded 150.
  - Files that are encrypted or protected by passwords, etc. cannot be played back.
- \* This system supports FAT12, FAT16 and FAT32, but some USB devices may not support all of these FAT. For details, refer to the operating instructions of each USB device or contact the manufacturer.

## Picture

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### **There is no picture.**

- Check that the system is connected securely.
- The video cord is damaged. Replace it with a new one.
- Make sure you connect the unit to the TV and perform the settings correctly (page 25, 26, 29, 31).
- Make sure you turn on the TV and operate the TV correctly.
- Make sure you select the video input on the TV so that you can view the pictures from the system.
- Make sure you set the color system correctly, according to your TV's color system (except for European and Russian models).
- Set "PROGRESSIVE (COMPONENT OUT)" to "OFF" if you connect your TV to the COMPONENT VIDEO OUT jacks and your TV cannot accept progressive signal.
- You have set to progressive format but your TV cannot accept the signal in progressive format. In this case, connect the VIDEO OUT jack to the TV and set to the Interlace format (page 29, 30, 31).

- Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set to progressive format. In this case, set to interlace format (the default setting) (page 30).

### **Picture noise appears.**

- Wipe the disc clean (page 117, 118).
- If video signal from your system has to go through your VCR to your TV, the copy-protection applied to some DVD VIDEO programs could affect the picture quality.
- When you play back a VIDEO CD recorded in a different color system from the one you set to the system, the picture image may be distorted (except for European and Russian models) (page 62).
- When you connect your TV to the COMPONENT VIDEO OUT jacks and play back video-based software in progressive signal format, some sections of the image may appear unnatural due to the conversion process.
- Set the color system to match your TV (except for European and Russian models) (page 25).

**The aspect ratio of the TV screen cannot be changed even though you can set “TV TYPE” under “VIDEO SETUP” in the Setup Menu when you play back a wide picture.**

- The aspect ratio is fixed on your DVD VIDEO.
- Depending on the TV, you may not change the aspect ratio.

**Messages do not appear on the TV screen in your language you want.**

- Select the language for the on-screen display in “OSD” under “LANGUAGE SETUP” in the Setup Menu (page 60).

**The language for the sound track cannot be changed.**

- Multilingual tracks are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the language for the sound track.

**The subtitles language cannot be changed.**

- Multilingual subtitles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the subtitles.

**The subtitles cannot be turned off.**

- The DVD VIDEO prohibits turning off subtitles.

**The angles cannot be changed.**

- Multi-angles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the angles.

## Tuner

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### **There is severe hum or noise. ("TUNED" or "STEREO" flashes in the display.)**

- Set the proper band and frequency (page 67).
- Connect the antenna properly (page 22).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend that you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords and the power cord as possible, to avoid picking up noise.
- Try turning off the surrounding electrical equipment.

### **A stereo FM program cannot be received in stereo.**

- Press FM MODE (European models only) or REPEAT/FM MODE (except for European models) repeatedly until "MONO" disappears from the display.

## Optional components

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### **There is no sound.**

- Refer to General item "There is no sound." (page 100) and check the condition of the system.
- Connect the component properly (page 22, 26, 97) while checking:
  - if the cords are connected properly.
  - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.

## To change the AM tuning interval

(Except for European and Russian models)

The AM tuning interval is factory-preset to 9 kHz or 10 kHz (for some areas).

- 1 Press FUNCTION +/- (European models only)/FUNCTION (except for European models) or FUNCTION +/- on the unit repeatedly to select "TUNER AM."
- 2 Press I/⏻ to turn off the system.
- 3 Press DISPLAY repeatedly until the clock appears in the display.
- 4 Press I/⏻ on the unit while holding down  — on the unit. "AM 9k Step" or "AM10k Step" appears in the display.  
When you change the interval, all the AM preset stations are deleted.

## If the system still does not operate properly after performing the above measures or other troubles not described above occur, reset the system as follows:

Use buttons on the unit to reset the system to its factory default settings.

- 1 Unplug the power cord.
- 2 Plug the power cord back in.
- 3 Press I/⏻ to turn on the system.
- 4 Press I/⏻ and  + at the same time and hold for more than three seconds.  
"RESET" appears in the display. The system is reset to the factory settings except for the "SETUP" settings. You should set the settings you made, such as the preset stations, clock and timer.

## To return the "SETUP" settings to the default settings\*, perform reset as follows:

- 1 Press  DISPLAY when playback is stopped.  
The Control Menu appears on the TV screen.
- 2 Press  or  repeatedly to select  (SETUP), then press ENTER.
- 3 Press  or  repeatedly to select "CUSTOM," then press ENTER.  
The Setup Menu appears.
- 4 Press  or  repeatedly to select "SYSTEM SETUP," then press ENTER.
- 5 Press  or  repeatedly to select "RESET," then press ENTER.
- 6 Press  or  repeatedly to select "YES," then press ENTER.  
It takes a few seconds to complete.  
Do not press  when resetting the system.

\* Except for "PARENTAL CONTROL" settings

## 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 the front panel display. In this case, check the following table.

First 3 characters of the service number	Cause and corrective action
C 13	This disc is dirty. <ul style="list-style-type: none"><li>• Clean the disc with a soft cloth (page 117, 118).</li></ul> <hr/> <p>The disc is a format that the system cannot play.</p>
C 31	The disc is not inserted correctly. <ul style="list-style-type: none"><li>• Restart the system, then re-insert the disc correctly.</li></ul>
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. <ul style="list-style-type: none"><li>• Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10</li></ul>

## When displaying the version number 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.



## Messages

One of the following messages may appear or flash in the front panel display during operation.

### Cannot Play

- A disc that cannot be played back was inserted.
- A DVD VIDEO with unsupported region code was inserted.

### Data Error

You tried to play a file on the USB device that is not playable.

### Data Error (for DATA CD/DVDs)

- The MP3 file, JPEG image file or video file you want to play back is damaged.
- The MP3 file does not conform to MPEG1 Audio Layer 3 format.
- The JPEG image file does not conform to DCF format.
- The MP3 file has the extension “.mp3” but it is not in MP3 format.
- The JPEG image file has the extension “.jpg” or “.jpeg” but it is not in JPEG format.
- The DivX video file does not conform to a DivX Certified profile.
- The DivX video file has the extension “.avi” or “.divx” but it is not in DivX format.
- The MPEG4 video file has the extension “.mp4” or “.m4v,” but is not in MP4 format.

**Device Error**

The USB device could not be recognized or an unknown device is connected.

**Device Full**

The USB device is full.

**Delete Error**

Delete of audio files or folders on the USB device failed.

**Fatal Error**

The USB device has been disconnected while transferring to the USB device.

**Folder Full**

The number of folders on the USB device has reached the maximum.

**INVALID**

You have pressed an invalid button.

**JPEG**

The playback mode is "PHOTO" and a JPEG image file is being played back.

**No Audio**

The connected USB device or the inserted DATA CD/DVD does not contain audio files.

**No Device**

No USB device is connected.

**No Disc**

There is no disc.

**No Image**

The connected USB device or the inserted DATA CD/DVD does not contain image files.

**Not In Use**

You have pressed a button whose operation is not allowed or invalid at that time.

**Not Supported**

- An unsupported USB device is connected.
- The USB device is connected to this system through a hub.

**Over Current**

An over current from the  (USB) port was detected.

**Please Wait**

- The system is doing initialization process.
- The system is readying for usage of a USB device.

**Protected**

The USB device is write-protected.

**Push STOP**

You have pressed the buttons whose operation is only possible when playback is stopped.

## Reading

- The system is reading information of the disc. Some buttons are not available.
- The system is recognizing the USB device.

## Rec Error

Transferring did not start, stopped partway, or otherwise could not be performed.

## TIME NG!

The on time and off time of Play Timer or Rec Timer is the same.

## Track Full

The number of audio files on the USB device has reached the maximum.

# Precautions

## Notes on discs

- Before playing, wipe the disc with a cleaning cloth from the center out to the edge.
- Do not clean discs with solvents, such as benzene, thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

## Region code of DVD VIDEOS you can play back on this system

Your system has a region code printed on the back of the unit and will only play back DVD VIDEOS labeled with identical region code. DVD VIDEOS labeled  will also be played back on this system.

If you try to play back any other region code 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 labeled even though playing the DVD VIDEO is prohibited by area restrictions.

## Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

## Notes on CD-R/-RW and DVD-R/-RW/+R/+RW

- In some cases, CD-Rs/-RWs and DVD-Rs/-RWs/+Rs/+RWs cannot be played back 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 be played back 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+Rs/+RWs, even if they have been correctly finalized. In this case, view the disc by normal playback.
- A disc created in Packet Write format cannot be played back.

## Note on playback operations of DVD VIDEOS and VIDEO CDs

Some playback operations of DVD VIDEOS and VIDEO CDs may be intentionally set by software producers. Since this system play back DVD VIDEOS and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVD VIDEOS or VIDEO CDs.

## Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

## Notes on Multi Session disc

- If the first session is recorded in AUDIO CD or VIDEO CD format, only the first session will be played back.
- The system will recognize a Multi Session disc as an AUDIO CD if there is a session recorded in AUDIO CD format on the disc. However, the system will only play back the disc if the first session is recorded in AUDIO CD format.
- This system can play back Multi Session discs when an MP3 file, a JPEG image file or a video file is contained in the first session. Any subsequent MP3 files, JPEG image files or video files recorded in later sessions can also be played back.
- With DATA CD or DATA DVD, the system will only play back video files even if it contains MP3 files or JPEG image files.

## Note on copyright-protected content

The transferred music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.

## On cleaning discs, disc/lens cleaner

Do not use a commercially available cleaning disc or disc/lens cleaner (wet or spray type). These may cause apparatus to malfunction.

## On safety

- Completely disconnect the power cord (mains lead) from the wall outlet (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
- Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.

### On placement

- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- 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 lens inside the DVD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

### On heat buildup

- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not obstruct the ventilation holes.

### In case color irregularity is observed on a nearby TV screen

With the magnetically shielded type of speakers, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

#### IMPORTANT NOTICE

**Caution:** If you leave a still video image or on-screen display image displayed on your TV for an extended period of time via this system, you risk permanent damage to your TV screen. Projection TVs are especially susceptible to this.

### Cleaning the cabinet

Clean this system 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 thinner, benzine, or alcohol.

# Specifications

## Main unit

### Amplifier section

#### CMT-DH70SWR

- DIN power output (rated)  
45 + 45 watts (5.5 ohms at 1 kHz,  
DIN)
- Continuous RMS power output (reference)  
60 + 60 watts (5.5 ohms at 1 kHz, 10%  
THD)
- Music power output (reference):  
60 + 60 watts (5.5 ohms at 1 kHz, 10%  
THD)

#### CMT-DH50R

- DIN power output (rated)  
60 + 60 watts (4 ohms at 1 kHz, DIN)
- Continuous RMS power output (reference)  
80 + 80 watts (4 ohms at 1 kHz, 10%  
THD)
- Music power output (reference):  
80 + 80 watts (4 ohms at 1 kHz, 10%  
THD)

## Inputs

- TV/VIDEO AUDIO IN (phono jack):  
voltage 450 mV/250 mV, impedance  
47 kilohms
- AUDIO IN (stereo mini jack):  
voltage 700 mV, impedance  
47 kilohms
- MIC (mini jack):  
sensitivity 0.8 mV, impedance  
10 kilohms

## Outputs

- VIDEO OUT (phono jack):  
max. output level 1 Vp-p, unbalanced,  
Sync negative, load impedance  
75 ohms
- COMPONENT VIDEO OUT:  
Y: 1 Vp-p, 75 ohms  
PB/CB: 0.7 Vp-p, 75 ohms  
PR/CR: 0.7 Vp-p, 75 ohms
- HDMI OUT: Type A (19 pins)
- DIGITAL OUT OPTICAL (square optical  
connector jack, rear panel):  
Wavelength 660 nm
- PHONES (stereo mini jack):  
accepts headphones of 8 ohms or  
more
- FRONT SPEAKER  
CMT-DH70SWR: Use only the  
supplied speakers SS-CDH70SWR.  
CMT-DH50R: Use only the supplied  
speakers SS-CDH50R2 (only for  
European and Russian models)/SS-  
CDH50R (only for Asian models).
- SUBWOOFER (CMT-DH70SWR only):  
Use only the supplied subwoofer SA-  
WDH70SWR.

**USB section**

Supported bit rate

MP3 (MPEG1 Audio Layer-3):

32 — 320 kbps

WMA: 48 — 192 kbps

AAC: 48 — 320 kbps

Sampling frequencies

MP3 (MPEG1 Audio Layer-3):

32/44.1/48 kHz

WMA: 44.1 kHz

AAC: 44.1 kHz

 (USB) port:

Maximum current:

500 mA

**Disc player section**

System:

Compact disc and digital audio and video system

Laser Diode Properties

Emission duration: Continuous

Laser Output\*: Less than 1000 $\mu$ W

\* 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.

Frequency response

DVD (PCM 48 kHz): 2 Hz — 22 kHz ( $\pm 1$  dB)CD: 2 Hz — 20 kHz ( $\pm 0.5$  dB)

Video color system format

European and Russian models: PAL

Other models: NTSC and PAL

**Tuner section**

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range:

87.5 — 108.0 MHz (50 kHz step)

Antenna:

FM lead antenna

Antenna terminals:

75 ohms unbalanced

Intermediate frequency:

10.7 MHz

AM tuner section

Tuning range:

European and Russian models:

531 — 1,602 kHz (9 kHz step)

Other models:

531 — 1,602 kHz (9 kHz step)

530 — 1,610 kHz (10 kHz step)

Antenna:

AM loop antenna

Antenna terminals:

External antenna terminal

Intermediate frequency:

450 kHz

## Speaker

### Front speaker (SS-CDH70SWR) for CMT-DH70SWR

Speaker system:

2-way, Bass reflex, Magnetically shielded

Speaker unit

Woofer: 80 mm, cone type

Tweeter: 40 mm

Rated impedance: 5.5 ohms

Dimensions (w/h/d):

Approx. 114 × 171 × 213 mm

Mass:

Approx. 1.6 kg

### Front speaker (SS-CDH50R2 (only for European and Russian models)/SS-CDH50R (only for Asian models)) for CMT-DH50R

Speaker system:

2-way, Bass reflex, Magnetically shielded

Speaker unit

European and Russian models (SS-CDH50R2)

Woofer: 100 mm × 2, cone type

Tweeter: 40 mm

Asian models (SS-CDH50R)

Woofer: 120 mm, cone type

Tweeter: 40 mm

Rated impedance: 4 ohms

Dimensions (w/h/d):

Approx. 146 × 295 × 213 mm (SS-CDH50R2)/150 × 250 × 213 mm (SS-CDH50R)

Mass:

Approx. 3.2 kg (SS-CDH50R2)/2.4 kg (SS-CDH50R)

### Subwoofer (SA-WDH70SWR) for CMT-DH70SWR

DIN power output (rated):

75 watts (6 ohms at 70 Hz, DIN)

Continuous RMS power output (reference):

100 watts (6 ohms at 70 Hz, 10% THD)

Music power output (reference):

180 watts (6 ohms at 70 Hz, 10% THD)

Speaker system:

Subwoofer system, Bass reflex

Speaker unit

Subwoofer: 130 mm, cone type

Rated impedance: 6 ohms

Dimensions (w/h/d):

Approx. 171 × 300 × 315.6 mm

Mass:

Approx. 7.0 kg

## General

### Power requirements

- Main unit
- Taiwan model:
  - AC 120 V, 50/60 Hz
- Other models:
  - AC 220 — 240 V, 50/60 Hz
- Subwoofer (SA-WDH70SWR) for CMT-DH70SWR:
  - AC 230 V, 50/60 Hz

### Power consumption

- CMT-DH70SWR
  - Main unit: 50 watts (0.5 W in Power Saving Mode)
  - Subwoofer: 70 watts (0.5 W in Power Saving Mode)
- CMT-DH50R: 55 watts (0.5 W in Power Saving Mode)

### Dimensions (w/h/d) (excl. speakers)

- CMT-DH70SWR:
  - Approx. 200 × 171.2 × 210.6 mm
- CMT-DH50R:
  - Approx. 200 × 171.2 × 210.6 mm

### Mass (excl. speakers)

- CMT-DH70SWR: Approx. 3.0 kg
- CMT-DH50R: Approx. 3.0 kg

### Supplied accessories:

- Remote Commander (1)
- AM loop antenna (1)
- FM lead antenna (1)
- Video cord (1)
- Speaker pads
  - (12) (CMT-DH70SWR)/
  - (8) (CMT-DH50R)
- R6 (Size AA) batteries (2)
- Speaker cord (1) (CMT-DH70SWR)

## Supported file format

### MP3 (MPEG1 Audio Layer-3)

- File extension: .mp3
- Bitrate: 32 kbps — 320 kbps
- Sampling frequencies: 32/44.1/48 kHz

### DivX

- File extension: .avi/.divx
- Video codec: DivX video
- Bitrate: 8 Mbps (MAX)
- Frame rate: 30 fps
- Resolution: 720 × 576
- Audio codec: MP3

### MPEG4

- File format: MP4 File Format
- File extension: .mp4/.m4v
- Video codec:
  - MPEG4 Simple Profile (AVC is not compatible.)
- Bitrate: 4 Mbps
- Frame rate: 30 fps
- Resolution: 720 × 576
- Audio codec:
  - AAC-LC (HE-AAC is not compatible.)
- DRM: Not compatible

Design and specifications are subject to change without notice.

- Standby power consumption: 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

# Guide to the Control Menu display

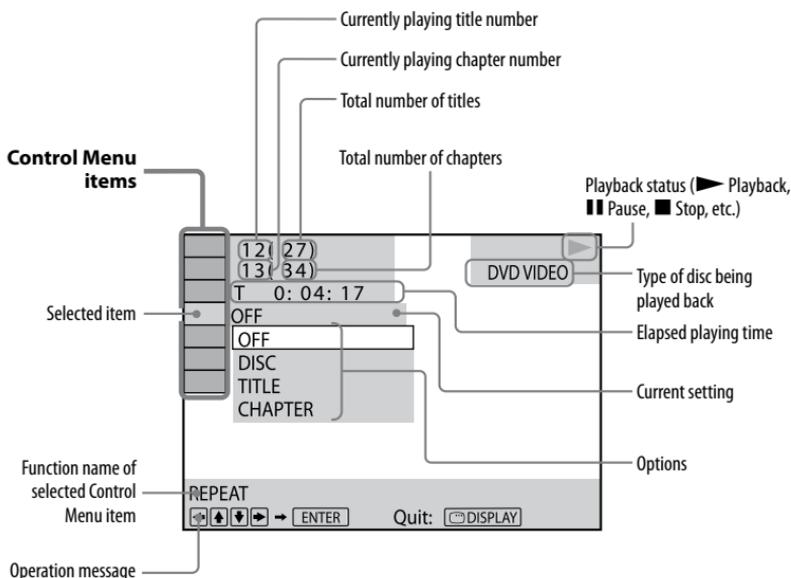
Use the Control Menu to select a function and to view related information. Press  DISPLAY repeatedly to turn on, turn off or change the Control Menu display as follows:

Control Menu display 1 → Control Menu display 2\* → Control Menu display off → Control Menu display 1 → ...

\* Control Menu display 2 appears when available.

## Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type. Example: Control Menu display 1 when playing a DVD VIDEO



## To turn off the Control Menu

Press  DISPLAY repeatedly until the Control Menu disappears from the TV screen.

## List of Control Menu items

Item	Item Name, Function, Relevant Disc Type
	<b>[TITLE]/[SCENE]/[TRACK] (page 36)</b> Selects the title, scene, track or file to be played back. <b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b>
	<b>[CHAPTER]/[INDEX] (page 36)</b> Selects the chapter or index to be played back. <b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b>
	<b>[TRACK]<sup>1)</sup> (page 36)</b> Selects the track or audio file to be played back. <b>&lt; D</b> <b>DATA CD</b> <b>DATA DVD</b>
	<b>[ORIGINAL/PLAY LIST] (page 41)</b> Selects the playback sequence either to the originally recorded sequence or to the playlist created on the disc. <b>DVD-VR</b>
	<b>[TIME]<sup>1)</sup> (page 42)</b> Checks the elapsed playing time and the remaining time. You can play from a desired point by inputting the time code (DVD VIDEO/DVD-VR only). <b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>&lt; D</b> <b>DATA CD</b> <b>DATA DVD</b>
	<b>[PROGRAM] (page 46)</b> Plays back the tracks in the order you want. <b>VIDEO CD</b> <b>&lt; D</b>
	<b>[SHUFFLE]<sup>1)</sup> (page 48, 82)</b> Plays back the tracks or audio files in random order. <b>VIDEO CD</b> <b>&lt; D</b> <b>DATA CD</b> <b>DATA DVD</b>
	<b>[REPEAT]<sup>1)</sup> (page 49, 83)</b> Plays back a disc repeatedly, the entire disc (all titles/all tracks/all files/all folders) repeatedly or one title/chapter/track/folder/file repeatedly. <b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>&lt; D</b> <b>DATA CD</b> <b>DATA DVD</b>

Item	Item Name, Function, Relevant Disc Type
	<p><b>[A/V SYNC] (page 56)</b>            You can adjust the delay between the picture and sound.</p> <p><b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[DISC MENU] (page 43)</b>            You can display the DVD's menu.</p> <p><b>DVD-V</b></p>
	<p><b>[BROWSING]<sup>1)</sup> (page 43)</b>            You can display the list of folders/JPEG image files.</p> <p><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[SETUP]<sup>1)</sup> (page 27, 28, 30, 34, 57, 59, 114)</b>  <b>QUICK</b>            Use "QUICK" setup to choose the language of the on-screen display and the aspect ratio of the TV screen.  <b>CUSTOM</b>            In addition to the "QUICK" setup setting, you can adjust other settings.</p> <p><b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>C D</b> <b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[FOLDER]<sup>1)</sup> (page 49, 72)</b>            Selects the folder to be played back.</p> <p><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[FILE]<sup>1)</sup> (page 49)</b>            Selects the JPEG image file or video file to be played back.</p> <p><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[DATE]<sup>1)</sup> (page 97)</b>            Displays the date when the picture was taken by a digital camera.</p> <p><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[INTERVAL]<sup>1)</sup> (page 55, 81)</b>            Specifies the duration for which the slides are displayed on the TV screen.</p> <p><b>DATA CD</b> <b>DATA DVD</b></p>

Item	Item Name, Function, Relevant Disc Type
	<p><b>[EFFECT]<sup>1)</sup> (page 55, 82)</b>            Selects the transition effects to be used for changing slides during a slide show.</p> <p style="text-align: right;"><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[MEDIA]<sup>1)</sup> (page 41, 50, 54, 56, 78, 128)</b>            Selects the data type (audio file, JPEG image file, video file, or both audio file and JPEG image file) to be played back.</p> <p style="text-align: right;"><b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[USB TRANSFER] (page 72)</b>            Transfers music on an AUDIO CD or DATA CD/DVD to a USB device.</p> <p style="text-align: right;"><b>CD</b> <b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[KARAOKE MODE]<sup>1)</sup> (page 85)</b>            Sets Karaoke mode to on or off.</p> <p style="text-align: right;"><b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>CD</b> <b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[SCORE MODE]<sup>1)2)</sup> (page 89)</b>            Calculates your vocal score by comparing your voice with the music source.</p> <p style="text-align: right;"><b>DVD-V</b> <b>DVD-VR</b> <b>VIDEO CD</b> <b>CD</b> <b>DATA CD</b> <b>DATA DVD</b></p>
	<p><b>[VOCAL SELECT]<sup>2)</sup> (page 87)</b>            Selects the guide vocal recorded on the “Dolby Digital Karaoke” Format disc (DVD VIDEO only).            Selects the vocal type recorded on the disc (VIDEO CD, AUDIO CD only).            Turns off the vocal.</p> <p style="text-align: right;"><b>DVD-V</b> <b>VIDEO CD</b> <b>CD</b></p>

<sup>1)</sup> These functions are the same when using a USB device. However, some menu items may not be available.

<sup>2)</sup> This function is only available during Karaoke mode.

## Playback priority of file types

The table below describes the playback priority of file types under the “MEDIA” setting.

File type on a disc or USB device	“MEDIA” setting				
	VIDEO		MUSIC/ PHOTO	MUSIC	PHOTO
	Disc	USB device	Disc	Disc/USB device	Disc/USB device
Video files only	Video files	Video files	Video files	Video files	Video files
JPEG image files only	JPEG image files	JPEG image files	JPEG image files	JPEG image files	JPEG image files
Audio files only	MP3 files	Audio files	MP3 files	Audio files*	Audio files*
Video files and JPEG image files	Video files	Video files	JPEG image files	Video files	JPEG image files
Video files and audio files	Video files	Video files	MP3 files	Audio files*	Audio files*
Audio files and JPEG image files	MP3 files and JPEG image files with slide show	Audio files	MP3 files and JPEG image files with slide show	Audio files*	JPEG image files
Video files, audio files, and JPEG image files	Video files	Video files	MP3 files and JPEG image files with slide show	Audio files*	JPEG image files

\* When using a disc, you can play MP3 files only.

# 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	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese	1703	Not specified
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoa		
1171	Faroese	1334	Latvian; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

## Parental Control area code list

<b>Code</b>	<b>Area</b>	<b>Code</b>	<b>Area</b>	<b>Code</b>	<b>Area</b>	<b>Code</b>	<b>Area</b>
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 Kingdom
2079	Canada	2254	Italy	2424	Philippines		
2090	Chile	2276	Japan	2436	Portugal		
2092	China	2304	Korea	2489	Russia		
2115	Denmark	2363	Malaysia	2501	Singapore		

---

## Glossary

### Auto Pause

An automatic pause according to the signal encoded on the disc while playing a VIDEO CD. If the CD/DVD player does not resume play for a long time, perform resume play manually.

### Chapter

Subdivision of a title on a DVD VIDEO. A title is composed of several chapters.

### DivX®

Digital video technology created by DivX, Inc. Videos encoded with DivX technology are among the highest quality with a relatively small file size.

### 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” because the subwoofer channel is counted as 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 Digital Karaoke” format

(DVD VIDEO only)

The Dolby Digital format, which reproduces surround sound using 5 channels, can also contain the “Dolby Digital Karaoke” format which is specialized for karaoke. In the “Dolby Digital Karaoke” format discs, guide melody and guide vocal tracks are recorded in addition to the accompaniment. You can select guide vocal when Karaoke Mode is turned on.

## **DTS**

Digital audio compression technology developed by DTS, Inc. This technology conforms to 5.1-channel surround. The surround channel is stereo and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

## **DVD VIDEO**

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as an AUDIO CD. The data capacity of a single-layer and single-sided DVD VIDEO, at 4.7 GB (Giga Byte), is 7 times that of an AUDIO CD. Furthermore, the data capacity of a dual-layer and single-sided DVD VIDEO is 8.5 GB, a single-layer and double-sided DVD VIDEO 9.4 GB, and a dual-layer and double-sided DVD VIDEO 17 GB. The picture data uses the MPEG2 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD VIDEO also uses variable rate coding technology that changes the data to be allocated according to the status of the picture. The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD VIDEO.

## DVD-RW

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

## DVD+RW

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

## File

Audio file (MP3/WMA/AAC file), JPEG image file or video file (DivX/MPEG4) recorded on a DATA CD, DATA DVD or USB device. ("File" is an exclusive definition for this system.) A single file consists of a single image.

## Film based software, Video based software

DVD VIDEOS can be classified as Film based or Video based software. Film based DVD VIDEOS contain the same images (24 frames per second) that are shown at movie theaters. Video based DVD VIDEOS, such as television dramas or sitcoms, displays images at 30 frames (or 60 fields) per second.

## Folder

Section of a music or picture piece on a DATA CD, DATA DVD or USB device containing MP3 files, JPEG image files or video files (DivX/MPEG4).

## 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.

## **Menu Playback**

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

## **Multi-angle function**

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVD VIDEOS.

## **Multilingual function**

Several languages for the sound or subtitles in a picture are recorded on some DVD VIDEOS.

## **Multi Session**

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session disc is a disc having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

## **Parental Control**

A function of the DVD VIDEO to limit playback of the disc by the age of the 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.

## **Playback Control (PBC)**

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, 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, 625 lines for PAL 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.

## Region Code

This system is used to protect copyrights. A region code is allocated on each DVD system or DVD VIDEO according to the sales region. Each region code is shown on the unit as well as on the disc packaging. The system can play back the discs that match its region code. The system can also play back discs with the “” mark. Even when the region code is not shown on the DVD VIDEO, the region limit may still be activated.

## Scene

On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.”

## Title

The longest section of a picture or a music piece on a DVD VIDEO; a movie, etc., for a picture piece on video software, or the entire album in audio software.

## Track

Section of a music piece or a picture on a VIDEO CD, or section of a music piece on a CD.

## VIDEO CD

A compact disc that contains moving pictures.

The picture data uses the MPEG1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data.

Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional AUDIO CDs.

There are 2 versions of VIDEO CDs.

- Version 1.1: You can play back only moving pictures and sounds.
- Version 2.0: You can play back high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

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