

CD/DVD Player

Operating Instructions



DVP-SR650P

WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

The mains lead must only be changed at a qualified service shop.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.



Disposal of Old Electrical & Electronic Equipment

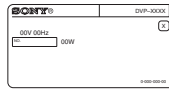
This symbol is applicable only in the European Union and other European countries with separate collection systems.

Precautions

Safety

- The power requirements and power consumption of this unit are indicated on the back of the unit. Check that the unit's operating voltage is identical with your local power supply.

Power requirements and power consumption



- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Installing

- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.

Lightning

For added protection for this set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the set due to lightning and power-line surges.

Notes about the discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface. Dust, fingerprints, or scratches on the disc may cause it to malfunction.



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



- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.
- Do not use the following discs:
 - A disc that has a non-standard shape (e.g., card, heart).
 - A disc with a label or sticker on it.
 - A disc that has cellophane tape or sticker adhesive on it.

Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not install this player in a confined space, such as a bookshelf or similar unit.
- Install the player so that the AC power cord (mains lead) can be unplugged from the wall socket immediately in the event of trouble.
- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- When you move the player, take out any discs. If you don't, the disc may be damaged.

On adjusting volume

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

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On cleaning discs, disc/lens cleaners

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




On replacement of parts

In the event that this unit is repaired, repaired parts may be collected for reuse or recycling purposes.

Copyrights

“DVD+RW,” “DVD-RW,” “DVD+R,” “DVD+R DL,” “DVD-R,” “DVD VIDEO,” and “CD” logos are trademarks.

About this manual

- Icons, such as  listed at the top of each explanation indicate what kind of media can be used with the function being explained. For details see “Playable Media” (page 40).
- Instructions in this manual describe the controls on the remote. You can also use the controls on the player if they have the same or similar names as those on the remote.
- “DVD” may be used as a general term for commercial DVDs, DVD+RWs/DVD+Rs/DVD+R DLs (+VR mode) and DVD-RWs/DVD-Rs/DVD-R DLs (VR mode, video mode).
- NEED-to-know information (to prevent incorrect operation) is listed under the  icon. NICE-to-know information (tips and other useful information) is listed under the  icon.

IMPORTANT NOTICE

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

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

Table of Contents

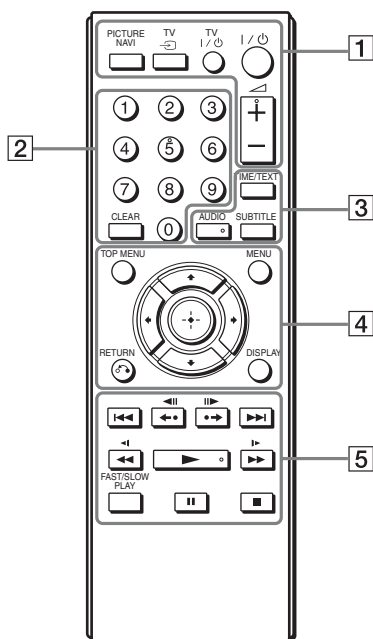
WARNING	2
Precautions	3
Guide to Parts and Controls.	6
<hr/>	
Hookups and Settings.	10
Step 1: Connecting the Video Cables	10
Step 2: Connecting the Audio Cables	11
Step 3: Connecting the Mains Lead.	12
Step 4: Preparing the Remote	12
Controlling TVs with the remote.	13
Step 5: Quick Setup.	14
Connecting a USB Device	16
<hr/>	
Playback	17
Playing Discs	17
Control Menu display	19
List of Control Menu items	20
Various Play Mode Functions	22
Creating your own programme (Programme Play)	22
Playing in random order (Shuffle Play)	23
Playing repeatedly (Repeat Play)	24
Repeating a specific portion (A-B Repeat Play).	24
Customizing the Playback Configuration	25
Adjusting the playback picture (CUSTOM PICTURE MODE)	25
Sharpening the picture (SHARPNESS)	25
Locking discs (PARENTAL CONTROL)	25
Playing Video, Photo, and Music Files.	26
Playing video, photo, and music files from USB device.	27
Selecting a photo file	27
Setting the pace for a slide show (INTERVAL)	28
Selecting the slides' appearance (EFFECT)	28
<hr/>	
Settings and Adjustments	29
Using the Setup Display.	29
LANGUAGE SETUP	29
SCREEN SETUP.	30
CUSTOM SETUP	32
AUDIO SETUP.	33
Setting the digital output signal	33
SPEAKER SETUP	35

Additional Information	37
Troubleshooting	37
Self-diagnosis Function (When letters/numbers appear on the screen)	39
Playable Media	40
Playable USB Devices	42
Specifications	43
Language Code List	44
Parental Control Area Code List	44
Index	45

Guide to Parts and Controls

For more information, see the pages indicated in parentheses.

Remote



◀ (volume) +, number 5, AUDIO, and ▶ buttons have a tactile dot. Use the tactile dot as a reference when operating the player.

1 PICTURE NAVI (27)

Divides the screen into 9 subscreens so you can choose the desired scene quickly.

Each time you press the button, the display changes as follows:

- CHAPTER VIEWER
- TITLE VIEWER
- TRACK VIEWER

The photo files in the album appear in 16 subscreens.

TV ↔ (input select) (13)

Switches between TV and other input sources.

TV I/⏻ (on/standby) (13)

Turns on the TV, or sets to standby mode.

I/⏻ (on/standby) (14)

Turns on the player, or sets to standby mode.

◀ (volume) +/- (13)

Adjusts the TV volume.

2 Number buttons

Enters the title/chapter numbers, etc.

CLEAR (20)

Clears the entry field.

3 TIME/TEXT

Displays the playing time and remaining time on the TV screen or front panel display. Press repeatedly to change the displayed information. CD/DVD text appears only when text is recorded on the disc.

If music file has an ID3 tag, the player will display the album name/track title from the ID3 tag information. This player supports ID3 versions 1.0/1.1 and 2.2/2.3.

AUDIO ()

Changes the audio language or audio channel.

When 4 digits are displayed, they indicate a language code. See “Language Code List” on page 44 to see which language the code represents.

SUBTITLE () (27)

- Changes the subtitles when subtitles are recorded on DVD VIDEOS/DVD-VR mode/DivX video files only.
- Displays lyrics for a music file when pressed during playback. For details see page 27.

4 TOP MENU

Displays the DVD's top menu.

MENU (26)

Displays the menu.

↶ RETURN (18)

Returns to the previous display.

DISPLAY (19)

Displays the playback information on the screen.

←/↑/↓/→ (20)

Moves the highlight to select a displayed item.

Centre button (ENTER) (14)

Enters the selected item.

5 ◀◀/▶▶ (previous/next)

Skips to the previous/next chapter, track, or scene in continuous play mode.

◀◦ ◀◀/▶▶ ◦▶ (replay/step/step/advance)

- Replays the scene^{*1*3}/briefly fast forward the scene^{*2*3} when pressed during playback.
- Plays backward^{*4}/forward^{*5} one frame at a time when pressed during pause mode.
- Changes the LUN (Logical Unit Number) devices when pressed during the list of albums or tracks is displayed (page 27).

◀◀◀/▶▶▶ (scan/slow)

- Fast reverses/fast forwards when pressed during playback. The speed changes when pressed repeatedly.
- Plays backward^{*4}/forward^{*5} in slow motion when pressed repeatedly during pause mode.

▶ (play)

Starts or re-starts playback.

|| (pause)

Pauses or re-starts playback.

■ (stop)

Stops playback.

FAST/SLOW PLAY

Plays in various speed with sound^{*6} when pressed repeatedly during playback.

*1 For DivX video files and DVDs except DVD+RWs/DVD+Rs/DVD+R DLs.

*2 For DVDs and DivX video files only.

*3 These functions may not work with some scenes.

*4 For DVD VIDEOS and DVD-VR mode only.

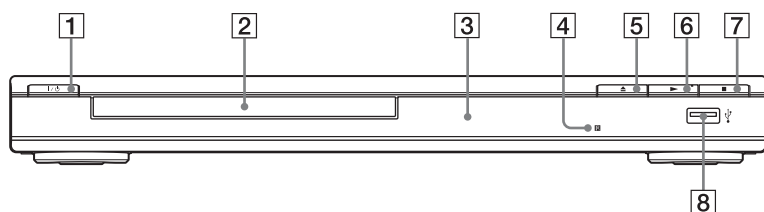
*5 For DVDs, VIDEO CDs, and DivX video files only.

*6 For DVDs and VIDEO CDs only.



Some playback functions may not work with unsupported MPEG-4 format (page 40).

Front panel



- 1 I/O (on/standby) button (14)
- 2 Disc tray (17)
- 3 Front panel display
- 4 R (remote sensor) (12)
- 5 ▲ (open/close) button (17)
Opens or closes the disc tray.
- 6 ▶ (play) button (17)
The ▶ button has a tactile dot*.
- 7 ■ (stop) button (17)
Stops playback.
- 8 ♀ USB jack (type A) (16, 27)
Connect a USB device to this jack.

* Use the tactile dot as a reference when operating the player.

To lock the disc tray (Child Lock)

You can lock the disc tray to prevent it being opened by mistake.

When the player is in standby mode, press ⏪ RETURN, ENTER, and then I/O on the remote.

The player turns on and “L C F” (LOCKED) appears on the front panel display. The ▲ button on the player does not work while the Child Lock is set.

To unlock the disc tray

When the player is in standby mode, press ⏪ RETURN, ENTER, and then I/O again.



Even if you select “RESET” under “SETUP” in the Control Menu (page 29), the disc tray remains locked.

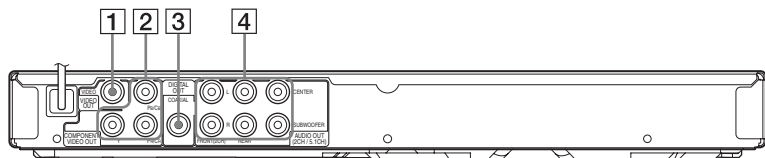
To change the colour systems

If the on-screen menu of the player does not appear on the connected TV, switch the player's colour system to match the colour system of the TV (NTSC or PAL). First turn off the player by pressing I/O. Next press DISPLAY, enter “0” using the number button, and then press I/O on the remote. The player turns back on, and the name of the colour system will appear on the front panel display.



When locking/unlocking the disc tray or changing the colour system, press the buttons within 5 seconds of each other.

Rear panel



1 VIDEO OUT jack (10)

2 COMPONENT VIDEO OUT jacks
(10)

3 DIGITAL OUT (COAXIAL) jack (11)

4 AUDIO OUT (2CH/5.1CH) jacks (11)

Hookups and Settings

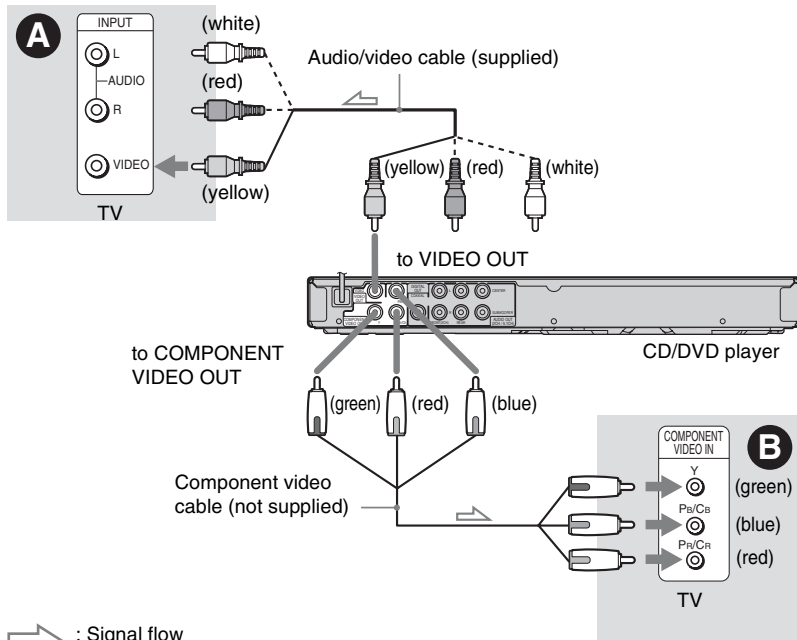
When unpacking, check the supplied accessories by referring to page 43.



- Plug cables securely to prevent unwanted noise.
- Refer to the operating instructions supplied with the components to be connected.
- Be sure to disconnect the mains lead of each component before connecting.

Step 1: Connecting the Video Cables

Connect this player to your TV using a video cable. Select pattern **A** or **B**, according to the input jack on your TV.



A Video input jack

You will enjoy standard quality images.

B Component video input jacks (Y, P_B/C_B, P_R/C_R)

You will enjoy accurate colour reproduction and high quality images.

When connecting to a standard 4:3 screen TV

Some images may not fit your TV screen. To change the picture size, see page 30.

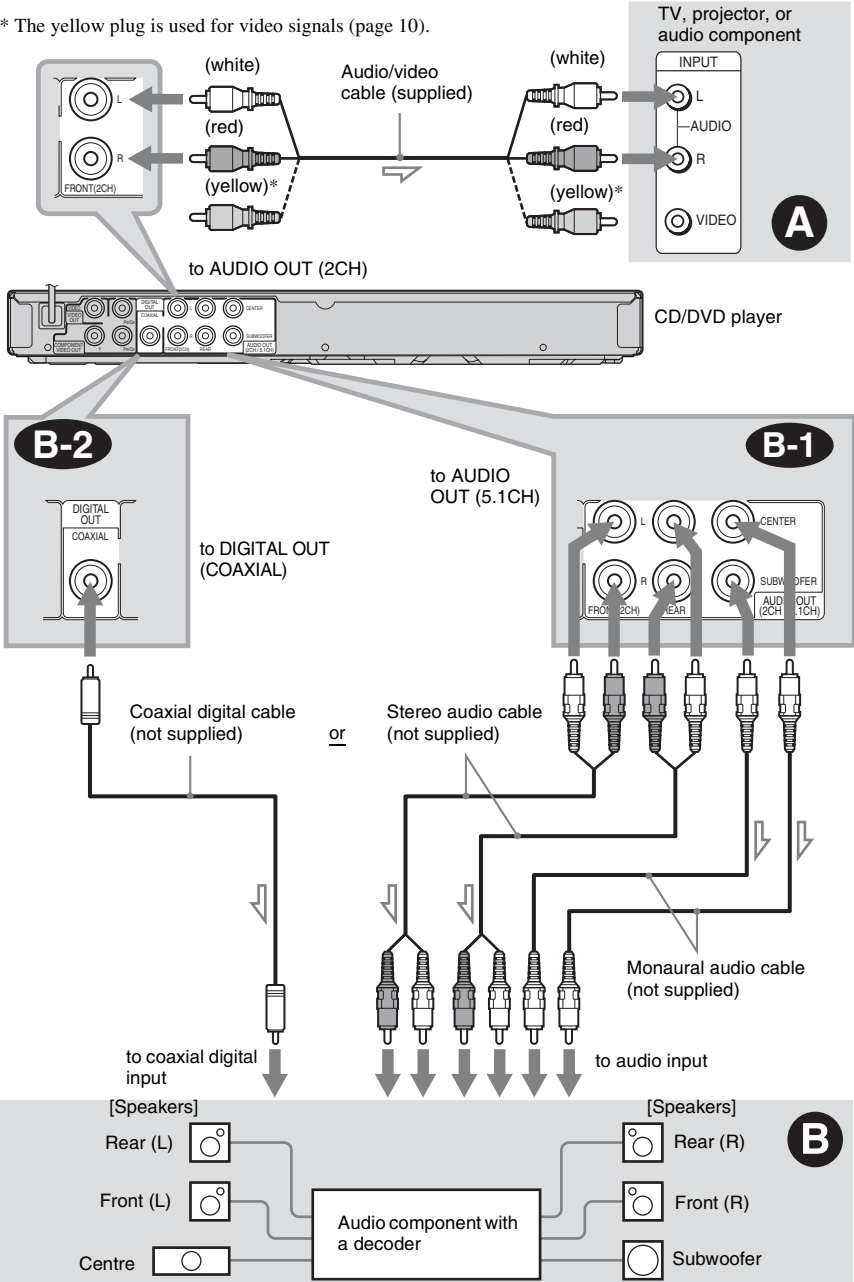


Do not connect a VCR, etc., between your TV and the player. If you pass the player signals via the VCR, you may not receive a clear image on the TV screen. If your TV has only one audio/video input jack, connect the player to this jack.

Step 2: Connecting the Audio Cables

Select one of the following patterns **A**, **B-1**, or **B-2**, according to the input jack on your TV monitor, projector, or audio component. This will enable you to listen to sound.

* The yellow plug is used for video signals (page 10).



A Audio L/R input jacks

This connection will use your TV's or audio component's two speakers for sound. Connect using the audio/video cable (supplied).

B 5.1 ch input jacks and/or digital audio input jack

B-1 : Connecting to the 5.1 ch input jacks

You can enjoy 5.1 ch surround sound using the internal Dolby Digital*¹ or MPEG audio decoder of this player.

Connect using stereo and monaural audio cables (not supplied).

*¹ Manufactured under license from Dolby Laboratories.

Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

B-2 : Connecting to a digital audio input jack

If your audio component has a Dolby Digital, DTS*², or MPEG audio decoder and a digital input jack, use this connection.

Connect using a coaxial digital cable (not supplied).

*² Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks and DTS Digital Out and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.




For connection B-2

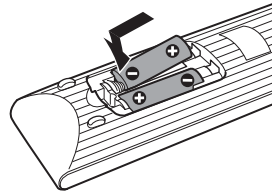
- After you have completed the connection, make the appropriate settings in Quick Setup (page 14). If your audio component has an MPEG audio decoder function, set "MPEG" to "MPEG" in "AUDIO SETUP" (page 34). Otherwise, no sound or a loud noise will come from your speakers.
- The TVS effects of this player cannot be used with connection **B-2**.
- In order to listen to DTS sound tracks, you must use connection **B-2**. DTS sound tracks are not output through the AUDIO OUT (5.1CH) jacks, even if you set "DTS" to "ON" in Quick Setup (page 14).
- When you connect an audio component that conforms to the 96 kHz sampling frequency, set "48kHz/96kHz PCM" in "AUDIO SETUP" to "96kHz/24bit" (page 34).

Step 3: Connecting the Mains Lead

Plug the player and TV mains lead (power cord) into a mains.

Step 4: Preparing the Remote

Insert two R6 (size AA) batteries by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor  on the player.



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

Controlling TVs with the remote

You can control the sound level, input source, and power switch of your Sony TV with the supplied remote.

Available buttons

Depending on the connected unit, you may not be able to control your TV using all or some of the buttons on the supplied remote.

Buttons	Operations
TV I/⏻	Turn the TV on or off
⏮ (volume) +/-	Adjust the volume of the TV
TV ↻ (input select)	Switch the TV's input source between the TV and other input sources

To control other TVs with the remote

You can control the volume, input source, and power switch of non-Sony TVs as well.

If your TV is listed in the table below, set the appropriate manufacturer's code.

- 1 While holding down TV I/⏻, press the number buttons to select your TV's manufacturer's code.
- 2 Release TV I/⏻.



When you replace the batteries of the remote, the code number may be reset to the default setting. Set the appropriate code number again.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01 (default)
Hitachi	24
JVC	33
LG/Goldstar	76
Panasonic	17, 49
Philips	06, 08, 72
Samsung	71
Sharp	29
Toshiba	38

Step 5: Quick Setup

Follow the steps below to make the minimum number of basic adjustments for using the player.

To skip an adjustment, press **▶▶**. To return to the previous adjustment, press **◀◀**. The on-screen displays differ depending on the player model.

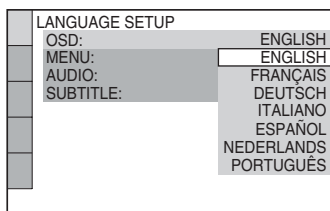
1 Turn on the TV, then press **I/⏻**.

2 Switch the input selector on your TV so that the signal from the player appears on your TV screen.

“Press [ENTER] to run QUICK SETUP” appears at the bottom of the screen. If this message does not appear, select “QUICK” under “SETUP” in the Control Menu to run Quick Setup (page 20).

3 Press **ENTER** without inserting a disc.

The Language Setup Display appears. The available languages differ depending upon the player model.

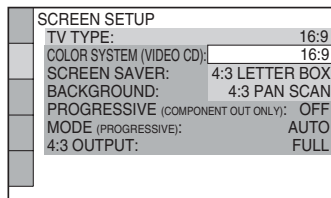


4 Press **↑/↓** to select a language.

The player displays the menu and subtitles in the selected language.

5 Press **ENTER**.

The Screen Setup Display appears.

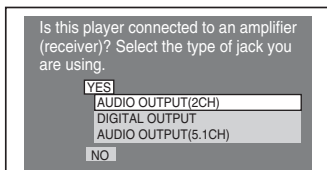


6 Press **↑/↓** to select the setting that matches your TV type.

- ◆ If you have a wide-screen TV or a 4:3 standard TV with a wide-screen mode
 - 16:9 (page 30)
- ◆ If you have a 4:3 standard TV
 - 4:3 LETTER BOX or 4:3 PAN SCAN (page 30)

7 Press **ENTER**.

The Setup Display for selecting the type of jack used to connect your audio component appears.



8 Press **↑/↓** to select the type of jack (if any) you are using to connect to an audio component, then press **ENTER**.

◆ **YES: AUDIO OUTPUT (2CH)**

Select this when connecting an audio component with audio L/R jacks only. Quick Setup finishes. All connections and setup operations are complete.



When you select this connection, you can adjust only the “FRONT” settings in “SPEAKER SETUP” (page 35). “CENTER,” “REAR,” and “SUBWOOFER” is automatically set to “NONE.”

◆ YES: DIGITAL OUTPUT

Select this when connecting an audio component using a coaxial digital cable. Follow the steps of “Audio Setup” (page 15).

◆ YES: AUDIO OUTPUT (5.1CH)

Select this when connecting an audio component with 5.1 channel audio jacks. Follow the steps of “Speaker Setup” (page 15).

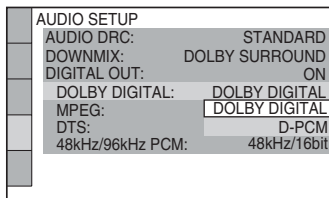
◆ NO

Select this if you do not connect an audio component.

Quick Setup finishes. All connections and setup operations are complete.

Audio Setup (page 33)**1 Press \uparrow/\downarrow to select the type of Dolby Digital signal to your audio component.**

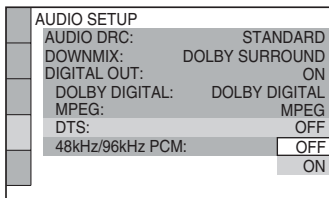
If your audio component has a Dolby Digital decoder, select “DOLBY DIGITAL.” Otherwise, select “D-PCM.”

**2**

If you select “D-PCM,” you can adjust only the “FRONT” settings in “SPEAKER SETUP” (page 35). “CENTER,” “REAR,” and “SUBWOOFER” is automatically set to “NONE.”

2 Press ENTER.

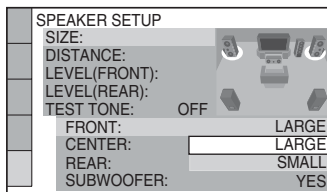
“DTS” is selected.

**3 Press \uparrow/\downarrow to select whether or not to send a DTS signal to your audio component.**

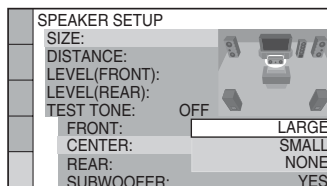
If your audio component has a DTS decoder, select “ON.” Otherwise, select “OFF.”

4 Press ENTER.

Quick Setup is finished and connections are complete.

Speaker Setup (page 35)**1 Press \uparrow/\downarrow to select the size of the front speaker.****2 Press ENTER.**

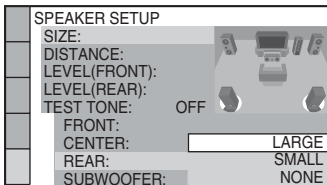
“CENTER” is selected.

**3 Press \uparrow/\downarrow to select the size of the centre speaker.**

If no centre speaker is connected, select “NONE.”

4 Press ENTER.

“REAR” is selected.

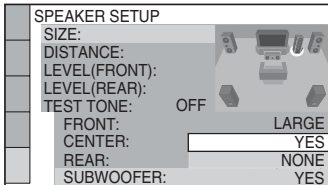


5 Press \uparrow/\downarrow to select the size of the rear speakers.

If no rear speaker is connected, select "NONE."

6 Press ENTER.

"SUBWOOFER" is selected.



7 Press \uparrow/\downarrow to select whether or not you have connected a subwoofer.

8 Press ENTER.

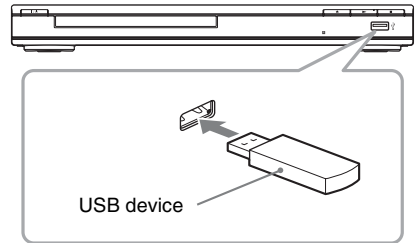
Quick Setup is finished. All connections and setup operations are complete.

Connecting a USB Device

You can connect a USB device to the USB jack of the player to play video, photo, or music files.

For a list of USB devices that can be connected to the player, see "Playable USB Devices" (page 42). For details on playable files, see "Playable Media" (page 40).

Refer to the operating instructions supplied with the USB device before connecting it to the player.



To play data files, see "Playing video, photo, and music files from USB device" (page 27).

To remove the USB device

Stop playback and disconnect the USB device from the USB jack.



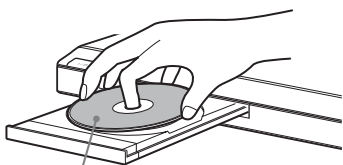
- Take the precaution of backing up important files on the USB device before connecting it to the player.
- Do not forcibly connect the USB device and make sure the plug is oriented correctly.
- Do not connect the player and the USB device through a USB hub.
- Make sure no virus-infected files are contained on a USB device before use.
- This player supports USB Mass Storage Class only.
- This player supports USB device with FAT12, FAT16, or FAT32 format only.
- Some USB devices may not work with this player.

Playing Discs **DVDVideo** **DVDVR**

VCD **CD** **DATA**

1 Switch the input selector on your TV so that the signal from the player appears on your TV screen.

2 Press **▲** on the player, and place a disc on the disc tray.



Playback side facing down

3 Press **▶**.

The disc tray closes. The player starts playback (continuous play). Adjust the volume on the TV or the audio component.

Depending on the disc, a menu may appear on the TV screen. For DVD VIDEOS, see page 7. For VIDEO CDs, see page 18.

If a disc is inside the player

Press **▶**.

To stop playback

Press **■**.

To pause playback

Press **⏸**.



You can have the player turned off automatically whenever you leave it in stop mode for more than 30 minutes. To turn this function on or off, set "AUTO POWER OFF" in "CUSTOM SETUP" to "ON" or "OFF" (page 32).



- Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with your disc.
- Discs created on DVD recorders must be correctly finalized before they can be played. For more information about finalizing, refer to the operating instructions supplied with the DVD recorder.

Note on playing DTS sound tracks on a DVD VIDEO

DTS audio signals are output only through the DIGITAL OUT (COAXIAL) jack.

To resume playback from the point where you stopped the disc (Multi-disc Resume)

DVDVideo **VCD**

When you press **▶** again after you stop playback, the player starts playback from the point when you pressed **■**. The player stores a resume playback point approx. every 5 minutes (real time).



- To play from the beginning of the disc, press **■** twice, then press **▶**.
- With DVD VIDEOS and VIDEO CDs, the player stores the point where you stopped the disc for up to 6 discs and resumes playback the next time you insert the same disc. If you store a resume playback point for the seventh disc, the resume playback point for the first disc is deleted.




- "MULTI-DISC RESUME" in "CUSTOM SETUP" must be set to "ON" (default) for this function to work (page 32).
- Resume Play does not work during Shuffle Play and Programme Play.
- With some discs, Resume Play may not work, depending on the point you stop playback, or if you press **⏸**.

To play VIDEO CDs with PBC functions (PBC Playback)

PBC (Playback Control) allows you to play VIDEO CDs interactively using the menu on your TV screen.



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

Select an item using the number buttons, and press ENTER. Then, follow the instructions in the menu (press  when "Press SELECT" appears).



To return to the menu

Press  RETURN.



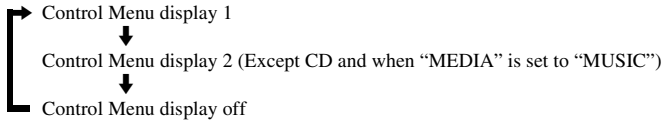
To play without using PBC, press  or the number buttons while the player is stopped to select a track, then press  or ENTER.

"Play without PBC" appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.

To return to PBC playback, press  twice then press .

Control Menu display

Use the Control Menu to select a function and to view related information. Press DISPLAY repeatedly to turn on or change the Control Menu display as follows:

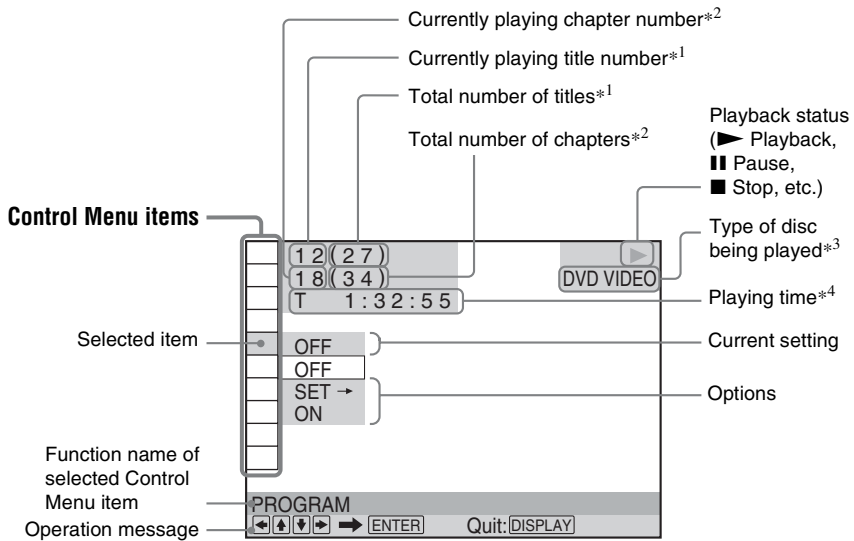


The Control Menu display 1 and 2 will show different items depending on the media type.

Example: Control Menu display 1 when playing a DVD VIDEO.

Press \uparrow/\downarrow to select the Control Menu item, then press ENTER.

For details about the item, see "List of Control Menu items" (page 20, 21).



*¹ Displays the album number for video, photo, and music files, scene number for VIDEO CDs (PBC is on), and track number for VIDEO CDs/CDs.

*² Displays the video, photo, music files numbers, and index numbers for VIDEO CDs.

*³ Displays Super VCD as "SVCD."


*⁴ Displays the date for photo files.

List of Control Menu items

Item	Item Name, Function
------	---------------------

	TITLE/SCENE/TRACK
--	--------------------------

	CHAPTER/INDEX
--	----------------------

	TRACK Selects the title, scene, track, chapter, or index to be played.
--	--


1 Press **↑/↓** to select the search method.

“** (**)” is selected (** refers to a number).

2 Press **ENTER**.
“** (**)” changes to “-- (**).”

3 Press the number buttons to select the number you want to search.

4 Press **ENTER**.

	TIME/TEXT Checks the elapsed time and the remaining playback time.
--	--


Input the time code for picture and music searching (DVD and DivX video files only).


1 Press **ENTER**.


2 Input the time code using the number buttons, then press **ENTER**.


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


ⓘ
You cannot search for a scene on a DVD+RW/DVD+R/DVD+R DL using the time code.


	DISC/USB (page 27) Selects either USB or DISC playback mode.
--	--


	ORIGINAL/PLAY LIST Selects the type of titles (DVD-VR mode) to be played, the ORIGINAL one, or an edited PLAY LIST.
--	---


	PROGRAM (page 22) Selects the title, chapter, or track to play in the order you want.
--	---

	SHUFFLE (page 23) Plays the title, chapter, or track in random order.
--	---


	REPEAT (page 24) Plays all titles/tracks/albums or a single title/chapter/track/album/file repeatedly.
--	--


	A-B REPEAT (page 24) Specifies the parts you want to play repeatedly.
---	---


	PARENTAL CONTROL (page 25) Set to prohibit playback on this player.
---	---


	SETUP (page 14, 29) QUICK: Use Quick Setup to choose the desired language of the on-screen display, the aspect ratio of the TV and the audio output signal. CUSTOM: In addition to the Quick Setup setting, you can adjust various other settings.
---	---

RESET:
Returns the settings in “SETUP” to the default setting.

	ZOOM Magnifies the image up to four times the original size, and scroll using ←/↑/↓/→ . To return to normal view, press CLEAR . This function is available for all pictures except a background image.
---	--

	ANGLE Changes the angle.
---	------------------------------------

	CUSTOM PICTURE MODE (page 25) Selects the picture quality that best suits the programme you are watching.
--	---

	SHARPNESS (page 25) Exaggerates the outline of the image to produce a sharper picture.
---	--

**TVS (TV Virtual Surround)**

Selects surround sound effect when connecting a stereo TV or 2 front speakers. This only works when playing a multichannel Dolby audio sound track. Furthermore, if the player is set up to output the signal from the DIGITAL OUT (COAXIAL) jack, the surround effect will only be heard when “DOLBY DIGITAL” is set to “D-PCM” and “MPEG” is set to “PCM” in “AUDIO SETUP” (page 33).

The default setting is underlined.

- OFF

Cancels the setting.

- TVS DYNAMIC THEATER
- TVS DYNAMIC
- TVS WIDE

This mode is effective when the distance between the front L and R speakers is short, such as with built-in speakers on a stereo TV.

- TVS NIGHT

This feature is useful when you want to hear the dialogue and enjoy the surround sound effects of “TVS WIDE” at low volume.



- TVS STANDARD

Use this setting when you want to use TVS with 2 separate speakers.












- When you select one of the TVS modes, turn off the surround setting of the connected TV or audio component.
- The TVS effects do not work when using the Fast Play or Slow Play functions, even though you can change the TVS modes.



The Control Menu icon indicator lights up in green  →  when you select any item except “OFF” (“PROGRAM,” “SHUFFLE,” “REPEAT,” “A-B REPEAT,” “SHARPNESS,” “ZOOM,” “TVS” only). The “ORIGINAL/PLAY LIST” indicator lights up in green when you select “PLAY LIST” (default setting). The “ANGLE” indicator lights up in green when you can change the angle. The “CUSTOM PICTURE MODE” indicator lights up in green when any setting other than “STANDARD” is selected.

◆ Items for DATA discs or USB

Item	Item Name, Function
	ALBUM Selects the album that contains music and photo files to be played.
	FILE Selects the photo file to be played.
	ALBUM Selects the album that contains video file to be played.
	FILE Selects the video file to be played.
	DATE Displays the date the picture was taken by a digital camera.
	INTERVAL (page 28) Specifies the duration for which the slides are displayed on the screen.
	EFFECT (page 28) Selects the effects to be used for changing slides during a slide show.
	MEDIA Selects a file type. VIDEO: plays video files. PHOTO/MUSIC: plays photo and music files as a slide show. PHOTO: plays photo files. MUSIC: plays music files.
	<ul style="list-style-type: none"> • For details on playable files, see “Playable Media” (page 40). • Depending on the contents, the player will play all files regardless of the “MEDIA” settings.

Various Play Mode Functions

You can set the following play modes:

- Programme Play (page 22)
- Shuffle Play (page 23)
- Repeat Play (page 24)
- A-B Repeat Play (page 24)



The play mode is cancelled when:

- you open the disc tray.
- you remove the USB device.
- you press I/O and the player enters standby mode.
- you change the setting of “DISC/USB.”

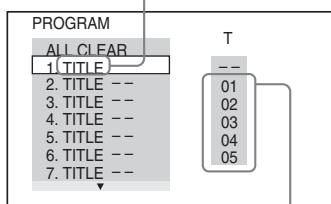
Creating your own programme (Programme Play)

DVDVideo **VCD** **CD**

You can play the contents in the order you want. You can programme up to 99 titles, chapters, and tracks.

- 1 After selecting (PROGRAM) on the Control Menu (page 19), press \uparrow/\downarrow to select “SET \rightarrow ,” then press ENTER.

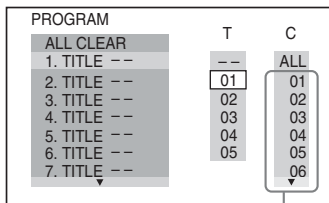
“TRACK” is displayed when you play a VIDEO CD or CD.



Recorded titles or tracks

- 2 Press \rightarrow .

The cursor moves to the title or track row “T” (in this case, “01”).



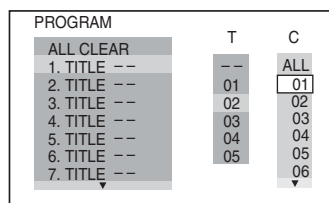
Recorded chapters

- 3 Select the title, chapter, or track you want to programme.

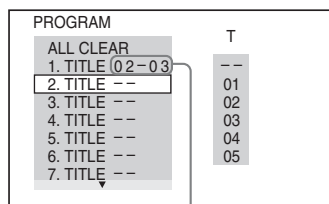
◆ When playing a DVD VIDEO

For example, select chapter “03” of title “02.”

Press \uparrow/\downarrow to select “02” under “T,” then press ENTER.



Next, press \uparrow/\downarrow to select “03” under “C,” then press ENTER.

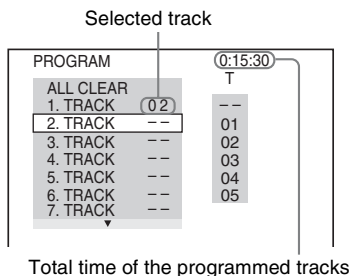


Selected title and chapter

◆ When playing a VIDEO CD or CD

For example, select track “02.”

Press \uparrow/\downarrow to select “02” under “T,” then press ENTER.



4 Repeat steps 2 to 3, to programme other titles, chapters, or tracks.

The programmed titles, chapters, and tracks are displayed in the selected order.

5 Press ►.

Programme Play begins.

When the programme ends, you can restart the same programme again by pressing ►.

To return to normal play

Press CLEAR, or select "OFF" in step 1. To play the same programme again, select "ON" in step 1 and press ENTER.

To change or cancel a programme

- Follow step 1 of "Creating your own programme (Programme Play)."
- Select the programme number of the title, chapter, or track you want to change or cancel using \uparrow/\downarrow and press \rightarrow . If you want to delete the title, chapter, or track from the programme, press CLEAR.
- Follow step 3 of "Creating your own programme (Programme Play)" for new programming. To cancel a programme, select "--" under "T," then press ENTER.

To cancel all of the titles, chapters, or tracks in the programmed order

Press \uparrow and select "ALL CLEAR" in step 2 of "Creating your own programme (Programme Play)" and press ENTER.



You can perform Repeat Play or Shuffle Play of programmed titles, chapters, or tracks. During Programme Play, follow the steps of Repeat Play (page 24) or Shuffle Play (page 23).



- When you programme tracks on a Super VCD, the total playing time is not displayed.
- You cannot use this function with VIDEO CDs or Super VCDs with PBC playback.

Playing in random order (Shuffle Play) DVDVideo VCD CD

You can have the player "shuffle" titles, chapters, or tracks. Subsequent "shuffling" may produce a different playing order.

1 After selecting (SHUFFLE) on the Control Menu (page 19), press \uparrow/\downarrow to select the item to be shuffled.

◆ When playing a DVD VIDEO

- TITLE
- CHAPTER

◆ When playing a VIDEO CD or CD

- TRACK

◆ When Programme Play is activated

- ON: shuffles titles, chapters, or tracks selected in Programme Play

2 Press ENTER.

Shuffle Play starts.

To return to normal play

Press CLEAR, or select "OFF" in step 1.



- You can set Shuffle Play while the player is stopped. After selecting the "SHUFFLE" option, press ►. Shuffle Play starts.
- Up to 200 chapters in a disc can be played in random order when "CHAPTER" is selected.



You cannot use this function with VIDEO CDs or Super VCDs with PBC playback.


Playing repeatedly

(Repeat Play)    

DATA

You can play all of the titles or tracks, or a single title, chapter, or track repeatedly.

You can use a combination of Shuffle or Programme Play modes.

1 After selecting  (REPEAT) on the Control Menu (page 19), press **↑/↓** to select the item to be repeated.

- DISC: repeats all of the titles, tracks, or albums. (Select ORIGINAL or PLAY LIST in DVD-VR mode)
- USB: repeats all albums
- TITLE: repeats the current title
- CHAPTER: repeats the current chapter
- TRACK: repeats the current track
- FILE (video files only): repeats the current file
- ALBUM: repeats the current album

◆ **When Programme Play or Shuffle Play is activated**

- ON: repeats Programme Play or Shuffle Play

2 Press **ENTER**.

Repeat Play starts.

To return to normal play

Press **CLEAR**, or select “OFF” in step 1.




You cannot use this function with VIDEO CDs or Super VCDs with PBC playback.

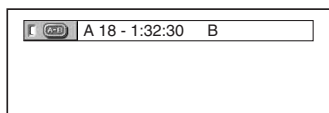
Repeating a specific portion (A-B Repeat Play)

You can play a specific portion of a title, chapter, or track repeatedly.

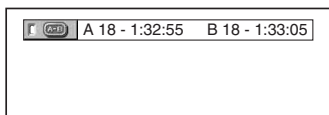
1 After selecting  (A-B REPEAT) on the Control Menu (page 19), press **↑/↓** to select “SET →,” then press **ENTER**.

The “A-B REPEAT” setting bar appears.



2 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press **ENTER**.

The starting point (point A) is set.



3 When you reach the ending point (point B), press **ENTER** again.

The set points are displayed and the player starts repeating this specific portion.

To return to normal play

Press **CLEAR**, or select “OFF” in step 1.



- A-B Repeat Play does not work across multiple titles.
- You may not set A-B Repeat Play for contents in DVD-VR mode that contains still pictures.

Customizing the Playback Configuration

Adjusting the playback picture (CUSTOM PICTURE MODE)

DVDVideo **DVDVr** **VCD** **DATA**

You can adjust the video signal from the player to obtain the picture quality you want.

1 After selecting (CUSTOM PICTURE MODE) on the Control Menu (page 19), press \uparrow/\downarrow to select the setting you want.

The default setting is underlined.

- STANDARD: displays a standard picture
- DYNAMIC 1: produces a bold dynamic picture by increasing the picture contrast and the colour intensity
- DYNAMIC 2: produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and colour intensity
- CINEMA 1: enhances details in dark areas by increasing the black level
- CINEMA 2: white colours become brighter and black colours become richer, and the colour contrast is increased
- MEMORY \rightarrow : adjusts the picture in greater detail

PICTURE	Changes the contrast.
BRIGHTNESS	Changes the overall brightness.
COLOR	Makes the colours deeper or lighter.
HUE	Changes the colour balance.

2 Press ENTER.

The selected setting takes effect.



When you watch a movie, "CINEMA 1" or "CINEMA 2" is recommended.



The "BRIGHTNESS" setting is not effective if you connect the player via the VIDEO OUT jack and select "PROGRESSIVE (COMPONENT OUT ONLY)" to "ON" using the "SCREEN SETUP."

Sharpening the picture (SHARPNESS)

DVDVideo **DVDVr** **VCD** **DATA**

You can enhance the outlines of images to produce a sharper picture.

1 After selecting (SHARPNESS) on the Control Menu (page 19), press \uparrow/\downarrow to select a level.

The default setting is underlined.

- OFF: cancels this option
- 1: enhances the outline
- 2: enhances the outline more than 1

2 Press ENTER.

The selected setting takes effect.

Locking discs (PARENTAL CONTROL)

DVDVideo

Playback of some DVD VIDEOS can be limited according to a predetermined level such as the age of the users.

The "PARENTAL CONTROL" function allows you to set a playback limitation level.

1 After selecting (PARENTAL CONTROL) on the Control Menu (page 19), press \uparrow/\downarrow to select "PLAYER \rightarrow ," then press ENTER.

The password is required.

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

The display for setting the playback limitation level appears.

3 Press \uparrow/\downarrow to select "STANDARD," then press ENTER.

The selection items for "STANDARD" are displayed.

4 Press \uparrow/\downarrow to select a geographic area as the playback limitation level, then press ENTER.

The area is selected.

When you select “OTHERS →,” select and enter a standard code in the table on page 44 using the number buttons.

5 Press ↑/↓ to select “LEVEL,” then press ENTER.

The selection items for “LEVEL” are displayed.

6 Select the level you want using ↑/↓, then press ENTER.

Parental Control setting is complete. The lower the value, the stricter the limitation.

To turn off the Parental Control function

Set “LEVEL” to “OFF” in step 6.

To set or change your password

After selecting “PARENTAL CONTROL” on the Control Menu, select “PASSWORD →,” then press ENTER.



If you forget your password, remove the disc and repeat step 1 of “Locking discs (PARENTAL CONTROL).” When you are asked to enter your password, enter “199703” using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the player and press ►. When the display for entering your password appears, enter your new password.



Depending on the disc, 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 the Resume Play mode is cancelled, the level returns to the previous level.

Playing Video, Photo, and Music Files **DATA**

The player can play video, photo, or music files. For details on playable files, see “Playable Media” (page 40).



If you play an album containing video, photo or music files, select a file type by setting “MEDIA” in the Control Menu (page 21).



DATA CDs recorded in KODAK Picture CD format automatically start playing when inserted.

1 Press MENU.

The list of albums appears.

2 Press ↑/↓ to select the album.

3 Press ►.

Playback starts from the selected album.

To select a specific video or music file, press ENTER and press ↑/↓ to select a track or file, and then press ENTER.

To select a specific photo file, see “Selecting a photo file” (page 27).

To stop playback

Press ■.

To go to the next or previous page

Press → or ←.

To return to the previous display

Press ⏪ RETURN.

To go to the next or previous music and video files

Press ►► or ◀◀ during playback.

Note that you cannot return to the previous album by using ◀◀, and that you need to select the previous album from the album list.

To turn the display on or off

Press MENU repeatedly.

To play music with lyrics

Press **SUBTITLE** while playing music files that contain unsynchronized lyric information. To display next/previous line, press **↑/↓**.



- By setting “MEDIA” to “PHOTO/MUSIC,” you can view a slideshow with sound when the music and photo files are placed in the same album.
- Set “MEDIA” to “MUSIC” to enable lyrics function.
- Depending on the contents, the player will play all files regardless of the “MEDIA” settings.
- If the number of viewing times is preset, you can play DivX video files as many times as the preset number. The following occurrences are counted:
 - when the disc tray is opened.
 - when another file is played.
 - when “DISC/USB” or “MEDIA” settings are changed.
 - when the player is turned off. This includes when the player is automatically turned off by the Auto Power Off function. Press **II** instead of **■** to stop viewing.



The player supports MP3 ID3 Lyrics only.

Playing video, photo, and music files from USB device

1 After connecting the USB device (page 16), select  (DISC/USB) on the Control Menu (page 19).

2 Press **ENTER**.

The default setting is underlined.

- DISC: plays files from a disc
- USB: plays files from a USB device

3 Select “USB” and follow steps 2 and 3 of “Playing Video, Photo, and Music Files” (page 26) to start playback.

You can change to DISC mode automatically by pressing **△** without turning on the Control Menu display. Press **▶** to start disc playback.



- For some device, LUN (Logical Unit Number) may appear. To change the LUN or original storage, press **III▶ ●▶** when the list of albums or tracks is displayed.

- If the number of viewing times is preset, you can play DivX video files as many times as the preset number. The following occurrences are counted:
 - when **△** is pressed.
 - when another file is played.
 - when the player is turned off. This includes when the player is automatically turned off by the Auto Power Off function. Press **II** instead of **■** to stop viewing.
 - when USB device is removed.
 - when “DISC/USB” or “MEDIA” settings are changed.

Selecting a photo file

1 Press **MENU**.

The list of albums appears.

2 Press **↑/↓** to select the album, then press **PICTURE NAVI**.

The image files in the album appear in 16 subscreens. A scroll box is displayed on the right.

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

To display additional images, select a bottom image and press **↓**. To return to a previous image, select a top image and press **↑**.

3 Press **←/↑/↓/→** to select the image you want to view, and press **ENTER**.

The selected image appears.

To go to the next or previous photo file

Press **←** or **→** during playback.

Note that you cannot return to the previous album by using **←**. Select the previous album from the album list.

To rotate a photo image


Press **↑/↓** while viewing the image. Each time you press **↑**, the image rotates counterclockwise by 90 degrees.


To return to normal view, press **CLEAR**.

Note that the view also returns to normal if you press **←/→** to go to the next or previous image.

To display photo information

Press **SUBTITLE** while viewing photo files. The detailed information for the selected photo file appears.

 is displayed when the picture was taken using flash.

 is displayed when the image is automatically rotated.

To hide the information, press **SUBTITLE**. Note that the above information may not appear depending on the digital camera.

To stop viewing the photo

Press **■**.




PICTURE NAVI does not work if "MUSIC" is selected in "MEDIA" (page 21).



Setting the pace for a slide show (INTERVAL)

You can set the time the slides are displayed on the screen.

1 After selecting  (INTERVAL) on the Control Menu (page 19), press **↑/↓** to select a setting.

The default setting is underlined.


- NORMAL: sets to standard duration
- FAST: sets a duration shorter than NORMAL
- SLOW 1: sets a duration longer than NORMAL
- SLOW 2: sets a duration longer than SLOW 1

2 Press **ENTER**.



Selecting the slides' appearance (EFFECT)

You can select the way the slides are displayed during a slide show.

1 After selecting  (EFFECT) on the Control Menu (page 19), press **↑/↓** to select a setting.

The default setting is underlined.

- MODE 1: the images randomly cycle through the effects
- MODE 2: the next image sweeps in from top left to bottom right
- MODE 3: the image sweeps in from top to bottom
- MODE 4: the image sweeps in from left to right
- MODE 5: the image stretches out from the centre of the screen
- OFF: turns off this function

2 Press **ENTER**.

Using the Setup Display

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

For details on each Setup Display item, see pages from 29 to 36.



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

1 Press DISPLAY when the player is in stop mode.

The Control Menu appears.

2 Press \uparrow/\downarrow to select (SETUP), then press ENTER.

The options for “SETUP” appear.

- QUICK: makes the basic adjustments (page 14)
- CUSTOM: makes various adjustments
- RESET: resets all the settings explained on pages 29 to 36

3 Press \uparrow/\downarrow to select “CUSTOM,” then press ENTER.

The Setup Display appears.

Select the setup category and adjust each item following the instructions on pages 29 to 36.

LANGUAGE SETUP	
OSD:	ENGLISH
MENU:	ENGLISH
AUDIO:	ORIGINAL
SUBTITLE:	ENGLISH



LANGUAGE SETUP

You can set various languages for the on-screen display or sound track.

◆ OSD (On-Screen Display)

Switches the display language on the screen.

◆ MENU (DVD VIDEO only)

You can select the desired language for the disc’s menu.

◆ 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 recorded on the DVD VIDEO.

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



If you select “OTHERS →” in “MENU,” “SUBTITLE,” or “AUDIO,” select and enter a language code from “Language Code List” on page 44 using the number buttons.



If you select a language in “MENU,” “SUBTITLE,” or “AUDIO” that is not recorded on a DVD VIDEO, one of the recorded languages will be automatically selected.



SCREEN SETUP

Choose settings according to the TV to be connected.

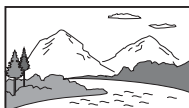
The default settings are underlined and differ depending on the player model.

◆ TV TYPE

Selects the aspect ratio of the connected TV (4:3 standard or wide).

<u>16:9</u>	Select this when connecting to a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when connecting to a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when connecting to a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

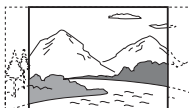
16:9



4:3 LETTER BOX



4:3 PAN SCAN



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

◆ COLOR SYSTEM (VIDEO CD)

Selects the colour system when you play a VIDEO CD.

<u>AUTO</u>	Outputs the video signal in the system of the VIDEO CD, either PAL or NTSC. If your TV is the DUAL system, select AUTO.
PAL	Changes the video signals of an NTSC VIDEO CD and outputs it in the PAL system.
NTSC	Changes the video signals of a PAL VIDEO CD and outputs it in the NTSC system.

◆ SCREEN SAVER

The screen saver image appears when the player in pause or stop mode for 15 minutes, or when you play a CD, or music files for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press ► to turn off the screen saver.

<u>ON</u>	Turns on the screen saver.
OFF	Turns off the screen saver.

◆ BACKGROUND

Selects the background colour or picture on the TV screen when the player is in stop mode or while playing a CD, or music files.

<u>JACKET PICTURE</u>	The jacket picture (still picture) appears, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the "GRAPHICS" picture appears.
GRAPHICS	A preset picture stored in the player appears.
BLUE	The background colour is blue.
BLACK	The background colour is black.

◆ PROGRESSIVE (COMPONENT OUT ONLY)

If your TV accepts progressive (525p/625p) format signals, set “PROGRESSIVE (COMPONENT OUT ONLY)” to “ON.” Note that you must connect to a progressive format TV using the COMPONENT VIDEO OUT jacks (page 10).

OFF	To output normal (interlace) signals.
ON	To output progressive signals.

To output progressive signals

- 1 Select “PROGRESSIVE (COMPONENT OUT ONLY),” and press ENTER.
- 2 Select “ON,” and press ENTER. The display asks for confirmation.
- 3 Select “Start,” and press ENTER. The video switches to a progressive signal for 5 seconds.
- 4 If the picture appears normal, select “YES,” and press ENTER. If not, select “NO,” and press ENTER.

To reset the setting

If the picture does not appear normal or goes blank, press **I/⏻** to turn off the player, and enter “369” using the number buttons on the remote, then press **I/⏻** to turn on the player again.



When resetting the setting, press the buttons within 5 seconds of each other.

◆ MODE (PROGRESSIVE)

In order for these images to appear natural on your screen when output in progressive mode, the progressive video signal needs to be converted to match the type of DVD software that you are watching. This setting is effective only when you set “PROGRESSIVE (COMPONENT OUT ONLY)” in “SCREEN SETUP” to “ON.”

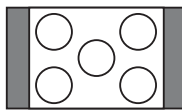
AUTO	Automatically detects the software type (film-based or video-based) and selects the appropriate conversion mode. Normally, select this position.
VIDEO	Fixes the conversion mode to the mode for video-based software.

◆ 4:3 OUTPUT

This setting is effective only when you set “TV TYPE” in “SCREEN SETUP” to “16:9.”

Adjust this to watch 4:3 aspect ratio progressive signals. If you can change the aspect ratio on your progressive format (525p/625p) compatible TV, change the setting on your TV, not the player. This setting is effective only when “PROGRESSIVE (COMPONENT OUT ONLY)” is set to “ON” in “SCREEN SETUP.”

FULL	Select this when you can change the aspect ratio on your TV.
NORMAL	Select this when you cannot change the aspect ratio on your TV. Shows a 16:9 aspect ratio signal with black bands on left and right sides of the image.



16:9 aspect ratio TV



CUSTOM SETUP

Use this to set up playback related and other settings.

The default settings are underlined and differ depending on the player model.

◆ AUTO POWER OFF

Switches the Auto Power Off setting on or off.

<u>OFF</u>	Switches this function off.
ON	The player enters standby mode when left in stop mode for more than 30 minutes.

◆ AUTO PLAY

Switches the Auto Play setting on or off. This function is useful when the player is connected to a timer (not supplied).

<u>OFF</u>	Switches this function off.
ON	Automatically starts playback when the player is turned on by a timer (not supplied).

◆ PAUSE MODE (DVDs only)

Selects the picture in pause mode.

<u>AUTO</u>	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.

◆ TRACK SELECTION (DVD VIDEO only)

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

<u>OFF</u>	No priority given.
AUTO	Priority given.



- When you set the item to "AUTO," the language may change. The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 29).
- If you set "DTS" to "OFF" (page 34), the DTS sound track is not played even if you set "TRACK SELECTION" to "AUTO."
- If PCM, DTS, MPEG audio, and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS, MPEG audio, and Dolby Digital sound tracks in this order.

◆ MULTI-DISC RESUME (DVD VIDEO/VIDEO CD only)

Switches the Multi-disc Resume setting on or off. Resume playback can be stored in memory for up to 6 different DVD VIDEOS/VIDEO CDs (page 17).

<u>ON</u>	Stores the resume setting in memory for up to 6 discs.
OFF	Does not store the resume setting in memory. Playback restarts at the resume point only for the current disc in the player.



If you run Quick Setup, Multi-disc Resume setting stored in memory may return to the default settings.

◆ DivX

Displays the registration code for this player. For more information, go to <http://www.divx.com/vod> on the Internet.



AUDIO SETUP

You can set the sound according to the playback and connection conditions.

The default settings are underlined and differ depending on the player model.

◆ AUDIO DRC (Dynamic Range Control) (DVDs only)

Makes the sound clear when the volume is turned down when playing a DVD that conforms to "AUDIO DRC."

This function affects the output from the following jacks:

- AUDIO OUT (2CH/5.1CH) jacks
- DIGITAL OUT (COAXIAL) jack only when "DOLBY DIGITAL" is set to "D-PCM" (page 33).

<u>STANDARD</u>	Normally, select this position.
TV MODE	Makes low sounds clear even if you turn the volume down.
<u>WIDE RANGE</u>	Gives you the feeling of being at a live performance.

◆ DOWNMIX (DVDs only)

Switches the method for mixing down to 2 channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format. This function affects the output of the following jacks:

- AUDIO OUT (2CH) jacks
- DIGITAL OUT (COAXIAL) jack when "DOLBY DIGITAL" is set to "D-PCM" (page 33).

<u>DOLBY SURROUND</u>	Normally, select this position. Multi-channel audio signals are output to 2 channels for enjoying surround sounds.
<u>NORMAL</u>	Multi-channel audio signals are downmixed to 2 channels for use with your stereo.

◆ DIGITAL OUT

Selects if audio signals are output via the DIGITAL OUT (COAXIAL) jack.

<u>ON</u>	Normally, select this position. When you select "ON," see "Setting the digital output signal" for further settings.
OFF	The influence of the digital circuit upon the analogue circuit is minimal.

Setting the digital output signal

Switches the method of outputting audio signals when you connect a component such as an audio component or MD deck with a digital input jack.

For connection details, see page 11. Select "DOLBY DIGITAL," "MPEG," "DTS," and "48kHz/96kHz PCM" after setting "DIGITAL OUT" to "ON."

If you connect a component that is incompatible with the selected audio signal, a loud noise (or no sound) may be heard from the speakers, risking damage to your ears or speakers.

◆ DOLBY DIGITAL (DVDs only)

Selects the type of Dolby Digital signal.

<u>DOLBY DIGITAL</u>	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.
D-PCM	Select this when the player is connected to an audio component without a built-in Dolby Digital decoder. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the "DOWNMIX" item in "AUDIO SETUP" (page 33).



When "CENTER," "REAR," or "SUBWOOFER" in "SPEAKER SETUP" is set to other than "NONE," "DOLBY DIGITAL" is automatically selected. If you select "D-PCM," first set "CENTER," "REAR," and "SUBWOOFER" to "NONE" (page 35).

◆ MPEG (DVDs only)

Selects the type of MPEG audio signal.

<u>MPEG</u>	Select this when the player is connected to an audio component with a built-in MPEG decoder.
PCM	Select this when the player is connected to an audio component without a built-in MPEG decoder. If you play multi-channel MPEG audio sound tracks, only the Front (L) and Front (R) signals will be output from your two front speakers.



The analogue audio signals from the AUDIO OUT (5.1CH) jacks are not affected by this setting and keep their original sampling frequency level.



When "CENTER," "REAR," or "SUBWOOFER" in "SPEAKER SETUP" is set to other than "NONE," "MPEG" is automatically selected. If you select "PCM," first set "CENTER," "REAR," and "SUBWOOFER" to "NONE" (page 35).

◆ DTS

Selects whether or not to output DTS signals.

<u>OFF</u>	Select this when the player is connected to an audio component without a built-in DTS decoder.
ON	Select this when the player is connected to an audio component with a built-in DTS decoder.



When you play a DVD VIDEO with DTS sound tracks, set "DTS" to "ON." If you connect the player to audio equipment without a DTS decoder, do not set "DTS" to "ON." A loud noise may come out from the speakers, affecting your ears or causing the speakers to be damaged.

◆ 48kHz/96kHz PCM (DVD VIDEO only)

Selects the sampling frequency of the audio signal.

<u>48kHz/16bit</u>	The audio signals of DVD VIDEOS are always converted to 48 kHz/16 bit.
96kHz/24bit	All types of signals including 96 kHz/24 bit are output in their original format. However, if the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit.

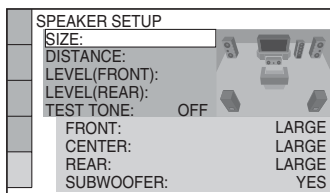


SPEAKER SETUP

To obtain the best possible surround sound, set the size of the speakers you have connected and their distance from your listening position. Then use the test tone to adjust the volume of the speakers to the same level.

This setting is effective when connecting the speaker with AUDIO OUT (5.1CH) jacks (page 11).

1 Select "SPEAKER SETUP" in the Setup Display, then press ENTER.



2 Set the following items in the order that they are explained below.

The default settings are underlined.

To return to the default setting

Select the item, then press CLEAR. Note that only the "SIZE" setting does not return to the default setting.

◆ SIZE

Selects the size of the speakers.

• FRONT

<u>LARGE</u>	Normally select this position.
SMALL	Select this when the speaker cannot reproduce adequate bass frequencies.

• CENTER

<u>LARGE</u>	Normally select this position.
SMALL	Select this when the speaker cannot reproduce adequate bass frequencies.
NONE	Select this if you do not connect a centre speaker.

• REAR

<u>LARGE</u>	Normally select this position.
SMALL	Select this when the sound distorts or the surround effects are difficult to hear.
NONE	Select this if you do not connect rear speakers.

• SUBWOOFER

<u>YES</u>	Select this if you connect a subwoofer to output the LFE (Low Frequency Effect) signals from the subwoofer.
NONE	Select this if you do not connect a subwoofer.



- The cut off frequency for the subwoofer is fixed at 120 Hz.
- If your speakers are too small to reproduce low bass frequencies, utilize a subwoofer for low frequency sound. When you set the speaker settings to "SMALL," the bass redirection circuitry will be activated and the bass frequencies for the speakers are output from the subwoofer.
- Even if there are fewer than 6 speakers connected, the player distributes the audio signal components to the front speakers.

◆ DISTANCE

Sets the distance from your listening position to the speakers.

Change the "Distance" setting each time you move the speakers. Start from the front speakers. The default adjustments are in parentheses.

<u>FRONT (3m)</u>	Set this between 1 and 7 m in 0.2 m increments.
<u>CENTER (3m)</u>	Set this within -1.6 and +0.6 m of the "FRONT" setting in 0.2 m increments. For example, if "FRONT" is set to 6 m, "CENTER" can be set between 4.4 and 6.6 m.
<u>REAR (3m)</u>	Set this within -5 and +0.6 m of the "FRONT" setting in 0.2 m increments. For example, if "FRONT" is set to 6 m, "REAR" can be set between 1 and 6.6 m.

SUBWOOFER (3m)	Set this within -1.6 and +0.6 m of the "FRONT" setting in 0.2 m increments. For example, if "FRONT" is set to 6 m, "SUBWOOFER" can be set between 4.4 and 6.6 m.
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To adjust the volume of all the speakers at one time, use the audio component's volume control.



The test tone signals are not output from the DIGITAL OUT (COAXIAL) jack.



If each of the front or rear speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.

◆ LEVEL (FRONT)

Varies the level of the front speakers. Be sure to set "TEST TONE" to "ON" for easy adjustment.

The default adjustments are in parentheses.

L (0 dB)	Set this between -6 dB and 0 dB in 1 dB increments.
R (0 dB)	Set this between -6 dB and 0 dB in 1 dB increments.
CENTRE (0 dB)	Set this between -12 dB and 0 dB in 1 dB increments.
SUBWOOFER (0 dB)	Set this between -15 dB and 0 dB in 1 dB increments.

◆ LEVEL (REAR)

Varies the level of the rear speakers. Be sure to set "TEST TONE" to "ON" for easy adjustment.

The default adjustments are in parentheses.

L (0 dB)	Set this between -12 dB and 0 dB in 1 dB increments.
R (0 dB)	Set this between -12 dB and 0 dB in 1 dB increments.

◆ TEST TONE

The speakers will emit a test tone. Use this when you use the AUDIO OUT (5.1CH) jacks and adjust "LEVEL (FRONT)" and "LEVEL (REAR)."

<u>OFF</u>	The test tone is not emitted from the speakers.
ON	The test tone is emitted from each speaker in sequence while adjusting level.

Troubleshooting

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

Power

The power is not turned on.

- ➔ Check that the mains lead is connected securely.

Picture

There is no picture/picture noise appears.

- ➔ Re-connect the connecting cable securely.
- ➔ The connecting cables are damaged.
- ➔ Check the connection to your TV (page 10) and switch the input selector on your TV so that the signal from the player appears on the TV screen.
- ➔ The disc is dirty or flawed.
- ➔ The disc is recorded in a colour system that is different from your TV.
- ➔ You set the "PROGRESSIVE (COMPONENT OUT ONLY)" to "ON" in "SCREEN SETUP" (page 31) even though your TV cannot accept the progressive signal. In this case, refer to page 31 to reset the setting.
- ➔ If the colour system of your player does not match with that of your TV, change the colour system of the player. For details, see page 8. (You cannot change the colour system of the DVD disc itself.)
- ➔ Even if your TV is compatible with progressive format 525p/625p signals and connected using COMPONENT VIDEO OUT jacks, the image may be affected when you set the player to progressive format. In this case, set the "PROGRESSIVE (COMPONENT OUT ONLY)" in "SCREEN SETUP" to "OFF" (page 30) so that the player is set to normal (interlace) format.

Sound

There is no sound.

- ➔ Re-connect the connecting cable securely.
- ➔ The connecting cable is damaged.
- ➔ The player is connected to the wrong input jack on the audio component (page 11).
- ➔ The audio component input is not correctly set.
- ➔ The player is in pause mode or in Slow-motion Play mode.
- ➔ The player is in fast forward or fast reverse mode.
- ➔ If the audio signal does not come through the DIGITAL OUT (COAXIAL) jack, check the audio settings (page 33).
- ➔ While 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." Press AUDIO to select the recorded track.
- ➔ When playing multichannel MPEG audio sound tracks, only the Front (L) and Front (R) signals will be output from two front speakers.

The sound volume is low.

- ➔ The sound volume is low on some DVDs. The sound volume may improve if you set "AUDIO DRC" in "AUDIO SETUP" to "TV MODE" (page 33).

Operation

The remote does not function.

- ➔ The batteries in the remote are weak.
- ➔ There are obstacles between the remote and the player.
- ➔ The distance between the remote and the player is too far.
- ➔ The remote is not pointed at the remote sensor on the player.

The disc does not play.

- ➔ The disc is turned over. Insert the disc with the playback side facing down.
- ➔ The disc is skewed.
- ➔ The player cannot play certain discs (page 2).
- ➔ The region code on the DVD does not match the player.
- ➔ Moisture has condensed inside the player (page 3).

- ➔ The player cannot play a recorded disc that is not correctly finalized (page 41).

The album/track/file names are not displayed correctly.

- ➔ The player can only display numbers and alphabet. Other characters are displayed as “*”.

The disc does not start playing from the beginning.

- ➔ Programme Play, Shuffle Play, Repeat Play, or A-B Repeat Play is selected (page 22).
- ➔ Resume play has taken effect (page 17).

“Copyright lock” appears and the screen turns blue when playing in DVD-VR mode.

- ➔ Images taken from digital broadcasts, etc., may contain copy protection signals, such as complete copy protection signals, single copy signals, and restriction-free signals. When images that contain copy protection signals are played, a blue screen may appear instead of the images. It may take a while when looking for playable images. (For player that cannot play images that contain a copy protection only)

Some functions such as Stop, Fast Play, Slow Play, Slow-motion Play, Repeat Play, Shuffle Play, or Programme Play cannot be performed.

- ➔ Depending on the disc, you may not be able to do some of the operations above.

The player does not operate properly.

- ➔ When static electricity, etc., causes the player to operate abnormally, unplug the player.

5 numbers or letters are displayed on the screen.

- ➔ The self-diagnosis function was activated. (See the table on page 39.)

The disc tray does not open and “L C R” (LOCKED) appears on the front panel display.

- ➔ Child Lock is set (page 8).

The disc tray does not open and “L C R” (TRAY LOCKED) appears on the front panel display.

- ➔ Contact your Sony dealer or local authorized Sony service facility.

“Data error” appears on the TV screen when playing video, photo, and music files.

- ➔ The video, photo, and music files you want to play is broken.

USB

The player does not detect a USB device connected to the player.

- ➔ The USB device is not securely connected to the player (page 16).
- ➔ The USB device or a cable is damaged.
- ➔ Disc mode has not been switched to USB mode (page 27).
- ➔ Compatibility with all encoding/writing softwares, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.














Self-diagnosis Function

(When letters/numbers appear on the screen)

When the self-diagnosis function is activated to prevent the player from malfunctioning, a five-character service number (e.g., C 13 50) with a combination of a letter and four digits appears on the screen. In this case, check the following table.

First three characters of the service number	Cause and/or corrective action
C 13	The disc is dirty or recorded in a format that this player cannot play (page 40). ➔ Clean the disc with a cleaning cloth or check its format.
C 31	The disc is not inserted correctly. ➔ Re-insert the disc correctly.

Playable Media

Type	Disc Logo	Icon	Characteristic
DVD VIDEO	  		<ul style="list-style-type: none"> • Commercial DVD • DVD+RWs/DVD+Rs/ DVD+R DLs in +VR mode • DVD-RWs/DVD-Rs/DVD-R DLs in video mode
DVD-VR mode	  		<ul style="list-style-type: none"> • DVD-RWs/DVD-Rs/DVD-R DLs in VR (Video Recording) mode
CD			<ul style="list-style-type: none"> • Music CD • CD-Rs/CD-RWs in music format
VIDEO CD			<ul style="list-style-type: none"> • Super VCDs • CD-Rs/CD-RWs in video CD/Super VCD format
DATA disc or USB	–		<ul style="list-style-type: none"> • DATA CD/DATA DVD or USB devices containing video, photo, or music files

Notes about video, photo, or music files that the player can play

The player can play the following files:

File Type	File format	Extension
Video	DivX ^{*1}	“.avi” or “.divx”
	MPEG-1 ^{*2}	“.mpg” or “.mpeg”
	MPEG-4 (simple profile) ^{*1*3}	“.mp4” or “.m4v”
Photo	JPEG	“.jpeg” or “.jpg”
Music	MP3 ^{*4}	“.mp3”
	WMA ^{*3}	“.wma”
	AAC ^{*3}	“.m4a”
	LPCM/WAVE	“.wav”

^{*1} DivX[®] is a video file compression technology, developed by DivX, Inc. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

^{*2} Only support movie data of cyber shot.

^{*3} Files with copyright protection (Digital Right Management) cannot be played.

^{*4} MP3 (MPEG-1 Audio Layer III) is a standard format defined by ISO (International Organization for Standardization)/IEC (International Electrotechnical Commission) MPEG which compresses audio data. MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

The player will play any file in the above table, even if the file format differs. Playing such data may generate noise that can result in speaker damage. The player can play the following files:

- Photo files that conform to the DCF^{*1} image file format.
- DATA CDs recorded according to ISO 9660^{*2} Level 1/Level 2, or its extended format, Joliet.
- DATA DVDs recorded according to UDF (Universal Disk Format).

^{*1} “Design rule for Camera File system”: Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).

^{*2} A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).




- If you add numbers (01, 02, 03, etc.) to the front of the file names, the files will be played in that order.
- To play a complex hierarchy of folders may take some time. Create albums with no more than two hierarchies.
- Set "MEDIA" to "PHOTO/MUSIC" to repeat both music and photo files. See "Playing repeatedly (Repeat Play)" (page 24).



- Some video, photo, and music files may not play, depending on the encoding/recording condition.
- To start playback and proceed to the next or another album may take some time.
- The player cannot play music files in mp3PRO or WMA Pro format.
- If the playing time of either music or photo is longer, the longer one continues without sound or image.
- To display Progressive photo files or photo files of 3,000,000 pixels or more may take time and the duration may seem longer than your selected setting.
- The player will recognize a maximum of 200 albums, regardless of the selected mode. It can recognize up to 300 music files and 300 photo files when "PHOTO/MUSIC" is selected, 600 music files when "MUSIC" is selected, 600 photo files when "PHOTO" is selected, and 600 video files when "VIDEO" is selected.
- The player may not play a combination of two or more video files.
- The player cannot play a video file of size more than 720 (width) × 576 (height)/2 GB.
- The player may not play certain video files that are longer than 3 hours.
- Depending on the file, normal playback may not be possible. The picture may be unclear, playback may not appear smooth, the sound may skip, etc. You are recommended to create the file at a lower bit rate.
- The player may not playback the high bit rate video file on the DATA CD smoothly. You are recommended to playback using DATA DVD.
- When playing visual data that is not supported by MPEG-4 format, only sound will be heard.

Region code

Your player has a region code printed on the back of the unit and only will play commercial DVDs (playback only) labelled with identical region codes. This system is used to protect copyrights.

Commercial DVDs labelled  will also play on this player.

Depending on the commercial DVD, there may be no region code indication, even though playing the commercial DVD is prohibited by area restrictions.



Region code



Notes about recordable media

- **Notes about recordable media**
Some recordable media cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs/DVD+R DLs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA discs created in Packet Write format cannot be played.
- **Music discs encoded with copyright protection technologies**

This product is designed to playback discs that conform to the Compact Disc (CD) standard. 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.

- **For player that cannot play images that contain a copy protection only**

Images in DVD-VR mode with CPRM* protection may not be played if they contain a copy protection signal, "Copyright lock" appears on the screen.

* CPRM (Content Protection for Recordable Media) is a coding technology that protects the copyright of images.

- **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.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the operating instructions supplied with the DVDs or VIDEO CDs.

About MPEG-4 VISUAL

THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR DECODING VIDEO IN COMPLIANCE WITH THE MPEG-4 VISUAL STANDARD (“MPEG-4 VIDEO”) THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, LLC. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)

Playable USB Devices

You can playback only verified Sony USB devices on this player. See the table.



- Do not use USB devices other than these USB devices. Operation of models not listed here is not guaranteed.
- Operation may not always be ensured even when using these USB devices.
- Some of these USB devices may not be available for purchase in certain areas.
- It may take some time to finish loading the USB device.

Verified Sony USB devices (as of November 2008)

Product Name	Model Name
MICROVAULT	USM 4GJ/2GJ/1GJ/512J/256J
	USM 4GJX/2GJX/1GJX/512JX
	USM 8GL/4GL/2GL/1GL
	USM 16GLX/8GLX/4GLX/2GLX/1GLX
Walkman®	NWZ-S618F/S616F/S615F/S516/S515
	NWZ-A829/A828/A826/A729/A728/A726
Digital Camera	DSC-T700/T300/T200/T100/T77/T70/T25/T20
	DSC-W300/W200/W170/W150/W130/W120/W110/W90
	DSC-H50/H9/H7
	DSC-G1
	DSLR-A350/A300/A250
IC Recorder	ICD-UX80/UX70

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Specifications

System

Laser: Semiconductor laser

Inputs/Outputs

(**Jack name:** Jack type/Output level/Load impedance)

AUDIO OUT (2CH/5.1CH):

Phono jack/2 Vrms/10 kilohms

DIGITAL OUT (COAXIAL):

Phono jack/0.5 Vp-p/75 ohms

COMPONENT VIDEO OUT (Y, P_B/C_B, P_R/C_R):

Phono jack/Y: 1.0 Vp-p, P_B/C_B, P_R/C_R:
0.7 Vp-p/75 ohms

VIDEO OUT:

Phono jack/1.0 Vp-p/75 ohms

USB:

USB jack Type A, maximum current
500 mA (For connecting USB device)

General

Power requirements:

110 – 240 V AC, 50/60 Hz

See page 2 for further information.

Power consumption: 10 W

Dimensions (approx.):

320 × 38 × 209 mm (width/height/depth)
incl. projecting parts

Mass (approx.): 1.2 kg

Operating temperature: 5 °C to 35 °C

Operating humidity: 25 % to 80 %

Supplied accessories

- Audio/Video cable (phono plug × 3 ↔ phono plug × 3) (1)
- Remote commander (remote) (1)
- R6 (size AA) batteries (2)

Specifications and design are subject to change without notice.

Language Code List

For details, see pages 7, 29.

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code Language	Code Language	Code Language	Code Language
1027 Afar	1183 Irish	1347 Maori	1507 Samoan
1028 Abkhazian	1186 Scots Gaelic	1349 Macedonian	1508 Shona
1032 Afrikaans	1194 Galician	1350 Malayalam	1509 Somali
1039 Amharic	1196 Guarani	1352 Mongolian	1511 Albanian
1044 Arabic	1203 Gujarati	1353 Moldavian	1512 Serbian
1045 Assamese	1209 Hausa	1356 Marathi	1513 Siswati
1051 Aymara	1217 Hindi	1357 Malay	1514 Sesotho
1052 Azerbaijani	1226 Croatian	1358 Maltese	1515 Sundanese
1053 Bashkir	1229 Hungarian	1363 Burmese	1516 Swedish
1057 Byelorussian	1233 Armenian	1365 Nauru	1517 Swahili
1059 Bulgarian	1235 Interlingua	1369 Nepali	1521 Tamil
1060 Bihari	1239 Interlingue	1376 Dutch	1525 Telugu
1061 Bislama	1245 Inupiak	1379 Norwegian	1527 Tajik
1066 Bengali;	1248 Indonesian	1393 Occitan	1528 Thai
Bangla	1253 Icelandic	1403 (Afan)Oromo	1529 Tigrinya
1067 Tibetan	1254 Italian	1408 Oriya	1531 Turkmen
1070 Breton	1257 Hebrew	1417 Punjabi	1532 Tagalog
1079 Catalan	1261 Japanese	1428 Polish	1534 Setswana
1093 Corsican	1269 Yiddish	1435 Pashto;	1535 Tonga
1097 Czech	1283 Javanese	Pushto	1538 Turkish
1103 Welsh	1287 Georgian	1436 Portuguese	1539 Tsonga
1105 Danish	1297 Kazakh	1463 Quechua	1540 Tatar
1109 German	1298 Greenlandic	1481 Rhaeto-	1543 Twi
1130 Bhutani	1299 Cambodian	Romance	1557 Ukrainian
1142 Greek	1300 Kannada	1482 Kirundi	1564 Urdu
1144 English	1301 Korean	1483 Romanian	1572 Uzbek
1145 Esperanto	1305 Kashmiri	1489 Russian	1581 Vietnamese
1149 Spanish	1307 Kurdish	1491 Kinyarwanda	1587 Volapük
1150 Estonian	1311 Kirghiz	1495 Sanskrit	1613 Wolof
1151 Basque	1313 Latin	1498 Sindhi	1632 Xhosa
1157 Persian	1326 Lingala	1501 Sangho	1665 Yoruba
1165 Finnish	1327 Laothian	1502 Serbo-	1684 Chinese
1166 Fiji	1332 Lithuanian	Croatian	1697 Zulu
1171 Faroese	1334 Latvian;	1503 Singhalese	
1174 French	Lettish	1505 Slovak	
1181 Frisian	1345 Malagasy	1506 Slovenian	1703 Not specified

Parental Control Area Code List

For details, see page 25.

Code Area	Code Area	Code Area	Code Area
2044 Argentina	2165 Finland	2362 Mexico	2149 Spain
2047 Australia	2174 France	2376 Netherlands	2499 Sweden
2046 Austria	2109 Germany	2390 New Zealand	2086 Switzerland
2057 Belgium	2248 India	2379 Norway	2528 Thailand
2070 Brazil	2238 Indonesia	2427 Pakistan	2184 United 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	

Index

Numerics

16:9 30
4:3 LETTER BOX 30
4:3 OUTPUT 31
4:3 PAN SCAN 30
48kHz/96kHz PCM 34
5.1 Channel Surround 12

A

A-B REPEAT 20, 24
A-B Repeat Play 24
Advance 7
ALBUM 21
ANGLE 20
AUDIO 29
AUDIO DRC 33
AUDIO SETUP 33
AUTO PLAY 32
AUTO POWER OFF 32

B

BACKGROUND 30
Batteries 12

C

CD 17, 40
CHAPTER 20
CHAPTER VIEWER 6
Child Lock 8
COLOR SYSTEM (VIDEO CD) 30
Connecting 10
Continuous play
 CD/VIDEO CD 17
 DVD 17
Control Menu 19
CUSTOM 29
CUSTOM PICTURE MODE 20, 25
CUSTOM SETUP 32

D

DATA CD 40
DATA DVD 40
DATE 21
DIGITAL OUT 33
Digital output 33
Display
 Control Menu display 19
 Setup Display 29
DISTANCE 35
DivX[®] 32
DOLBY DIGITAL 33
DOWNMIX 33
DTS 34
DVD 7, 17
DVD+RW 7, 40
DVD-RW 40

E

EFFECT 21, 28

F

Fast forward 7
Fast reverse 7
FAST/SLOW PLAY 7
FILE 21
Film based software 31

H

Handling discs 2

I

ID3 tag 7
INDEX 20
INTERVAL 21, 28

J

JPEG 40

L

LANGUAGE SETUP 29
LEVEL 36

M

MEDIA 21
MEMORY 25
MENU 29
MODE (PROGRESSIVE) 31
MP3 40
MPEG 34
MULTI-DISC RESUME 32
Multi-disc Resume 17

N

NTSC 8

O

On-screen display
 Control Menu display 19
 Setup Display 29
ORIGINAL 20
ORIGINAL/PLAY LIST 20
OSD 29

P

PAL 8
PARENTAL CONTROL 20, 25
PAUSE MODE 32
PBC Playback 18
PICTURE NAVI 6, 27
PLAY LIST 20
Playable Media 40
PROGRAM 20, 22
Programme Play 22

PROGRESSIVE
(COMPONENT OUT ONLY) 31

Q

QUICK 20
Quick Setup 14

R

Remote 6, 12, 13
REPEAT 20, 24
Repeat Play 24
Replay 7
RESET 20
Resume 17, 32

S

SCENE 20
SCREEN SAVER 30
SCREEN SETUP 30
SETUP 20, 29
Setup Display 29
SHARPNESS 20, 25
SHUFFLE 20, 23
Shuffle Play 23
SIZE 35
Slow-motion Play 7
SPEAKER SETUP 35
SUBTITLE 28, 29

T

TEST TONE 36
TIME/TEXT 20
TITLE 20
TITLE VIEWER 6
TRACK 20
TRACK SELECTION 32
TRACK VIEWER 6
Troubleshooting 37
TV TYPE 30
TVS 21

U

USB 16, 27

V

Video based software 31
VIDEO CD 17, 40

Z

ZOOM 20



* 1 - 4 1 1 5 6 7 6 1 3 2 *

4-115-676-13(1)