SONY®

CD/DVD Player

Operating Instructions

DVP-NS318

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.

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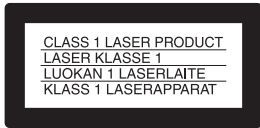
This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

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.

Notice for customers in the United Kingdom and Republic of Ireland

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a 5AMP fuse approved by ASTA or BSI to BS1362, (i.e., marked with ⓐ or ⓥ mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

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.

Europe Only

Pb

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.

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.

Precautions

Safety
- This unit operates on 220 – 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- 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 benzine, 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
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- "DVD+RW," "DVD-RW," "DVD+R," "DVD+R DL," "DVD-R," "DVD VIDEO," and "CD" logos are trademarks.

About this manual
- Icons, such as $\boxed{\text{DVD Video}}$, 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 34).
- 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 ϙ̈ 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.
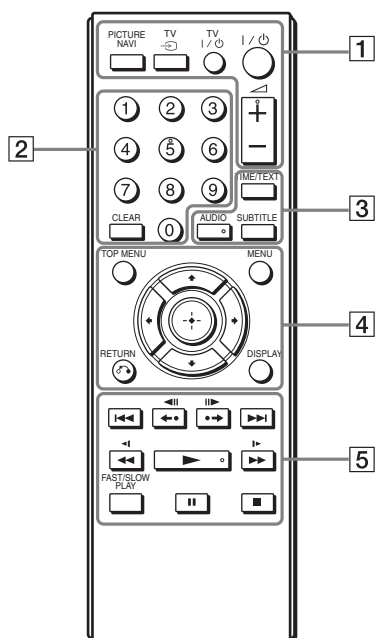
Table of Contents

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 (25)**

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) (14)

Switches between TV and other input sources.

TV I/⏻ (on/standby) (14)

Turns on the TV, or sets to standby mode.

I/⏻ (on/standby) (14)

Turns on the player, or sets to standby mode.

⊿ (volume) +/– (14)

Adjusts the TV volume.

2 **Number buttons**

Enters the title/chapter numbers, etc.

CLEAR (19)

Clears the entry field.

3 **TIME/TEXT (9)**

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 37 to see which language the code represents.

SUBTITLE (▭) (25)

– 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 25.

4 **TOP MENU**
Displays the DVD's top menu.

MENU (25)
Displays the menu.

⌒● RETURN (16)
Returns to the previous display.

DISPLAY (18)
Displays the playback information on the screen.

←/↑/↓/→ (19)
Moves the highlight to select a displayed item.

Centre button (ENTER) (14)
Enters the selected item.

5 **I◄◄ /►►I (previous/next)**
Skips to the previous/next chapter, track, or scene in continuous play mode.

←• ◄II /II► •→ (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.

◄I ◄◄/►► I► (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.

II (pause)
Pauses or re-start 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.
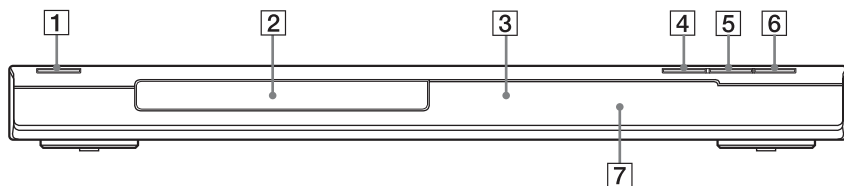[*4] For DVD VIDEOs and DVD-VR mode only.
[*5] For DVDs, VIDEO CDs, and video files only.
[*6] For DVDs and VIDEO CDs only.

۞
Some playback functions may not work with unsupported MPEG-4 format (page 34).

Front panel

1. $\mathbf{I}/\mathbb{O}$ (on/standby) button (14)

2. Disc tray (16)

3. Front panel display (9)

4. ▲ (open/close) button (16)
   Opens or closes the disc tray.

5. ► (play) button (16)
   The ► button has a tactile dot*.

6. ■ (stop) button (16)
   Stops playback.

7. ▥ (remote sensor) (13)

* 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 $\mathbf{I}/\mathbb{O}$ on the remote.

The player turns on and "LOCKED" appears on the front panel display. The ▲ button on the player does not work while the Child Lock is set.
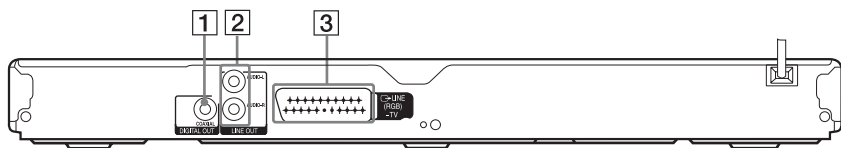
To unlock the disc tray

When the player is in standby mode, press ⟳ RETURN, ENTER, and then $\mathbf{I}/\mathbb{O}$ again.

✆
Even if you select "RESET" under "SETUP" in the Control Menu (page 27), the disc tray remains locked.
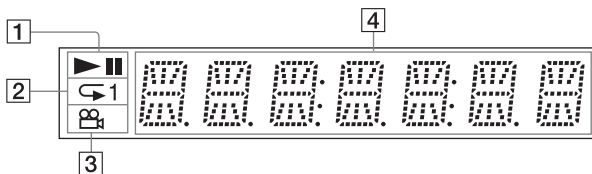
Rear panel

1. DIGITAL OUT (COAXIAL) jack (12)

2. LINE OUT L/R (AUDIO) jacks (12)

3. LINE (RGB)-TV jack (10)

Front panel display

[1] ▶, ❚❚

Lights up during playback or pause.

[2] ⤸1

Lights up during Repeat Play.

[3] 🎥

Lights up when you can change the angle.

[4] **Playback information**

You can view the time and text information by pressing the TIME/TEXT button on the remote repeatedly. The display changes as follows:

When playing a DVD

Current title playing time
↓
Current title remaining time
↓
Current chapter playing time
↓
Current chapter remaining time
↓
Text
↓
Current title and chapter number
(Returns to top automatically)

When playing music or video files

Current file[*1] or track[*2] playing time and number
↓
Current file[*1] or track name/MP3 ID3 track title[*2]
↓
Current album and file[*1] or track[*2] number
(Returns to top automatically)

[*1] for video file
[*2] for music file

When playing a VIDEO CD (without PBC functions) or CD

Current track playing time and number
↓
Current track remaining time
↓
Disc playing time
↓
Disc remaining time
↓
Text

9

When unpacking, check the supplied accessories by referring to page 36.

✪
• Plug cords 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 to Your TV

Connect this player to your TV using an audio/video (SCART) cord. This connection will use your TV speakers for sound.

INPUT

TV

SCART cord
(not supplied)

to LINE (RGB)-TV

CD/DVD player

⟹ : Signal flow
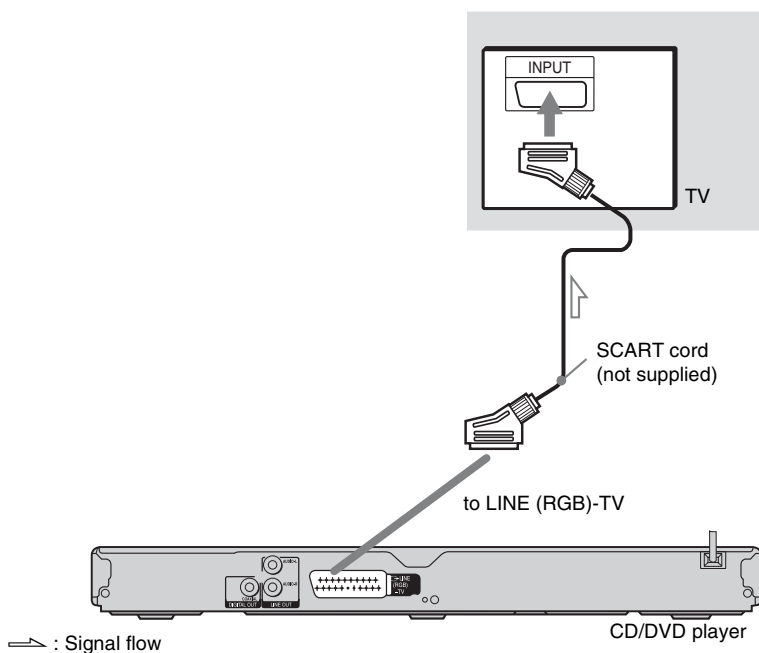
SCART input jack

Be sure to make the connections firmly to avoid hum and noise.

When using this connection, check that the TV conforms to RGB signals. Refer to the operating instructions supplied with the TV to be connected. Also, when you set "LINE" to "RGB" under "SCREEN SETUP" in the Setup Display (page 28), use a SCART cord that conforms to each signal.

When connecting to a standard 4:3 screen TV

Some images may not fit your TV screen. To change the picture size, see page 28.

✪
• 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.
• When you connect the player to your TV via the SCART jack, the TV's input source is set to the

player automatically when you start playback. In this case, press TV ⏻ (input select) on the remote to return the input to the TV.

When you play a disc recorded in the NTSC colour system, the player outputs the video signal or the Setup Display etc. in the NTSC colour system and the picture may not appear on the PAL colour system televisions. In this case, open the tray and remove the disc.

Step 2: Connecting to Your Audio Component

Select one of the following patterns **Ⓐ** or **Ⓑ**, according to the input jack on your TV monitor, projector, or audio component such as an AV amplifier (receiver).
This will enable you to listen to sound.

: Signal flow
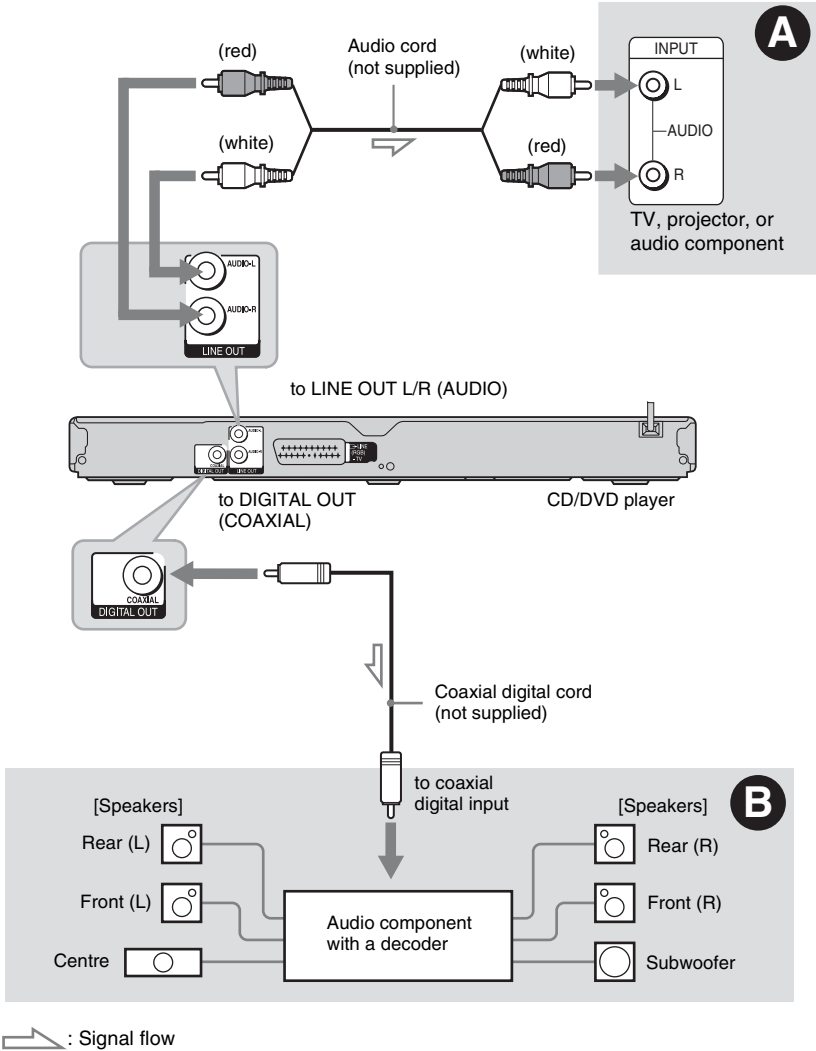
ᄬ
For correct speaker location, see the operating instructions supplied with the connected components.

A Audio L/R input jacks

This connection will use your TV's or audio component's two speakers for sound.

B Digital audio input jack

If your audio component has a Dolby*[1] Digital, DTS*[2], or MPEG audio decoder and a digital input jack, use this connection. You can enjoy Dolby Digital (5.1ch), DTS (5.1ch), and MPEG audio (5.1ch) surround effect.

[1] Manufactured under license from Dolby Laboratories.
Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.
[2] Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

🔅
- 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 31). Otherwise, no sound or a loud noise will come from your speakers.
- The TVS effects of this player cannot be used with this connection.
- In order to listen to DTS sound tracks, you must use this connection. DTS sound tracks are not output through the LINE OUT L/R (AUDIO) jacks, even if you set "DTS" to "ON" in Quick Setup (page 14).

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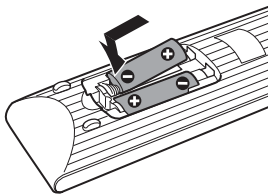
🔅
- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct light from the sun or a lighting apparatus. Doing so may cause a malfunction.
- If you do not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

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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.

✪

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

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

2 Release TV I/⏻.

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.

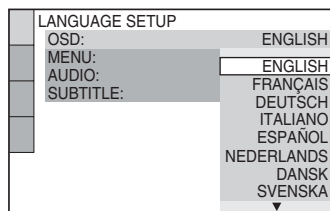| Manufacturer	Code number
Sony	01 (default)
Hitachi	24
JVC	33
LG/Goldstar	76
Panasonic	17, 49
Philips	06, 08, 72
Samsung	71
Sharp	29
Toshiba	38

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 ▶▶I. To return to the previous adjustment, press I◀◀ .

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 19).

3 Press ENTER without inserting a disc.

The Language Setup Display appears.

```
LANGUAGE SETUP
OSD:                    ENGLISH
MENU:
AUDIO:                  ENGLISH
SUBTITLE:              FRANÇAIS
                       DEUTSCH
                       ITALIANO
                        ESPAÑOL
                    NEDERLANDS
                          DANSK
                       SVENSKA
                            ▼
```
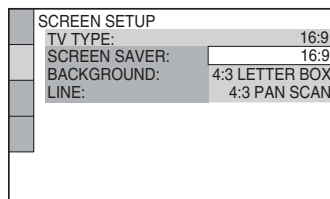
4 Press ↑/↓ to select a language.

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

5 Press ENTER.

The Screen Setup Display appears.

```
SCREEN SETUP
TV TYPE:                    16:9
SCREEN SAVER:               16:9
BACKGROUND:        4:3 LETTER BOX
LINE:                4:3 PAN SCAN
```

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**
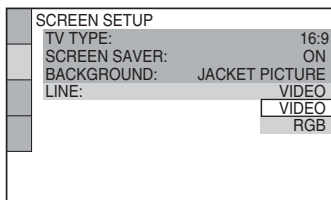• 16:9 (page 28)

◆ **If you have a 4:3 standard TV**
• 4:3 LETTER BOX or 4:3 PAN SCAN (page 28)

7 Press ENTER.

The Setup Display for selecting the type of video signal output from the LINE (RGB)-TV jack appears.

```
SCREEN SETUP
TV TYPE:                        16:9
SCREEN SAVER:                    ON
BACKGROUND:         JACKET PICTURE
LINE:                         VIDEO
                              VIDEO
                                RGB
```

8 Press ↑/↓ to select the type of signal you want to output from the LINE (RGB)-TV jack.

◆ **Video signals**
• VIDEO (page 28)

◆ **RGB signals**
• RGB (page 28)

9 Press ENTER.

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

```
Is this player connected to an amplifier
(receiver) ? Select the type of jack you
are using.
   YES
      LINE OUTPUT L/R (AUDIO)
      DIGITAL OUTPUT
   NO
```
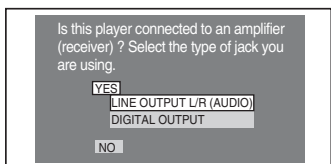
10 Press ↑/↓ to select the type of jack (if any) you are using to connect to an audio component, then press ENTER.
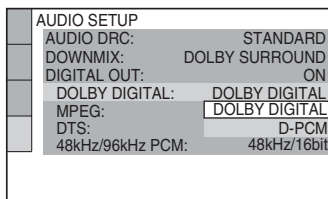
Select "NO," if you do not connect an audio component, then go to step 14.

Select "YES: LINE OUTPUT L/R (AUDIO)," if you connect an audio component using an audio cord, then go to step 14.
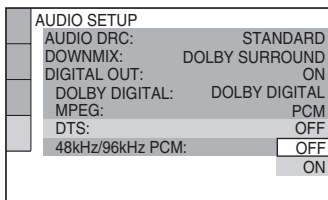Select "YES: DIGITAL OUTPUT," if you connect an audio component using a digital coaxial cord.

11 Press ↑/↓ 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."

```
AUDIO SETUP
AUDIO DRC:                   STANDARD
DOWNMIX:             DOLBY SURROUND
DIGITAL OUT:                      ON
  DOLBY DIGITAL:      DOLBY DIGITAL
  MPEG:               DOLBY DIGITAL
  DTS:                        D-PCM
  48kHz/96kHz PCM:       48kHz/16bit
```

12 Press ENTER.

"DTS" is selected.

```
AUDIO SETUP
AUDIO DRC:                   STANDARD
DOWNMIX:             DOLBY SURROUND
DIGITAL OUT:                      ON
  DOLBY DIGITAL:      DOLBY DIGITAL
  MPEG:                         PCM
  DTS:                          OFF
  48kHz/96kHz PCM:              OFF
                                 ON
```

13 Press ↑/↓ 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."

14 Press ENTER.

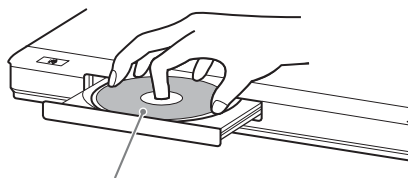Quick Setup is finished and connections are complete.
If your audio component has an MPEG audio decoder, set "MPEG" to "MPEG" (page 31).

Hookups and Settings

15

Playing Discs DVD_{Video} DVD_{VR} 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 16.

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 29).

☹
• 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) DVD_{Video} VCD
When you press ▶ again after you stop playback, the player starts playback from the point when you pressed ■.

☼
• 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 29).
• 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 I/⏻.

To play VIDEO CDs with PBC functions (PBC Playback) VCD
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.

ピ
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 ▶.

Playback

Control Menu display (Magic Pad)

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:

➤ Control Menu display 1
↓
Control Menu display 2 (Except CD and when "MEDIA" is set to "MUSIC")
↓
Control Menu display off
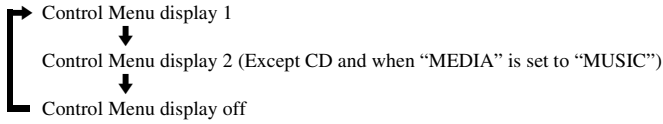
The Control Menu display 1 and 2 will show different items depending on the media type.

Example: Control Menu display 1 when playing a DVD VIDEO.
Press ↑/↓ to select the Control Menu item, then press ENTER.
For details about the item, see "List of Control Menu items" (page 19, 20).

Currently playing chapter number*[2]
Currently playing title number*[1]
Total number of titles*[1]
Total number of chapters*[2]

Playback status
(► Playback,
❙❙ Pause,
■ Stop, etc.)

Type of disc being played*[3]

Control Menu items

Selected item

1 2 (2 7)
1 8 (3 4)
DVD VIDEO

T   1 : 3 2 : 5 5

Playing time*[4]

OFF
OFF
SET →
ON

Current setting

Options

Function name of selected Control Menu item

Operation message

PROGRAM
◄ ▲ ▼ ► ➡ ENTER   Quit: DISPLAY

*[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." ❻ You cannot search for a scene on a DVD+RW/DVD+R/DVD+R DL using the time code.
	ORIGINAL/PLAY LIST Selects the type of titles (DVD-VR mode) to be played, the ORIGINAL one, or an edited PLAY LIST.
	PROGRAM (page 21) Selects the title, chapter, or track to play in the order you want.
	SHUFFLE (page 22) Plays the title, chapter, or track in random order.
	REPEAT (page 22) Plays all titles/tracks/albums or a single title/chapter/track/album/file repeatedly.

Item	Item Name, Function
	A-B REPEAT (page 23) Specifies the parts you want to play repeatedly.
	PARENTAL CONTROL (page 24) Set to prohibit playback on this player.
	SETUP (page 14, 27) 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 23) Selects the picture quality that best suits the programme you are watching.
	SHARPNESS (page 24) Exaggerates the outline of the image to produce a sharper picture.

Playback

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 30).

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 [icon] → [icon] 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**

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 26)	Specifies the duration for which the slides are displayed on the screen.
EFFECT (page 26)	Selects the effects to be used for changing slides during a slide show.
MEDIA	VIDEO: plays video files. PHOTO/MUSIC: plays photo and music files as a slide show. PHOTO: plays photo files. MUSIC: plays music files.

🔆
• For details on playable files, see "Playable Media" page 34.
• 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 21)
- Shuffle Play (page 22)
- Repeat Play (page 22)
- A-B Repeat Play (page 23)

✪

The play mode is cancelled when:
– you open the disc tray.
– you press I/⏻ and the player enters standby mode.

⌐ 🎮. 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 18), press ↑/↓ to select "SET →," then press ENTER.

"TRACK" is displayed when you play a VIDEO CD or CD.

```
PROGRAM
ALL CLEAR
1. TITLE          T
2. TITLE --       --
3. TITLE --       01
4. TITLE --       02
5. TITLE --       03
6. TITLE --       04
7. TITLE --       05
```

Recorded titles or tracks

2 Press →.

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

```
PROGRAM
ALL CLEAR        T    C
1. TITLE --      --   ALL
2. TITLE --      01   01
3. TITLE --      02   02
4. TITLE --      03   03
5. TITLE --      04   04
6. TITLE --      05   05
7. TITLE --           06
```

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 ↑/↓ to select "02" under "T," then press ENTER.

```
PROGRAM
ALL CLEAR        T    C
1. TITLE --      --   ALL
2. TITLE --      01   01
3. TITLE --      02   02
4. TITLE --      03   03
5. TITLE --      04   04
6. TITLE --      05   05
7. TITLE --           06
```

Next, press ↑/↓ to select "03" under "C," then press ENTER.

```
PROGRAM
ALL CLEAR          T
1. TITLE (0 2 - 0 3)  --
2. TITLE --        01
3. TITLE --        02
4. TITLE --        03
5. TITLE --        04
6. TITLE --        05
7. TITLE --
```

Selected title and chapter

◆ **When playing a VIDEO CD or CD**
For example, select track "02."
Press ↑/↓ to select "02" under "T," then press ENTER.

Selected track

```
PROGRAM              (0:15:30)
ALL CLEAR              T
1. TRACK  (0 2)       --
2. TRACK  --          01
3. TRACK  --          02
4. TRACK  --          03
5. TRACK  --          04
6. TRACK  --          05
7. TRACK  --
```

Total time of the programmed tracks

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.

21

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

1 Follow step 1 of "Creating your own programme (Programme Play)."

2 Select the programme number of the title, chapter, or track you want to change or cancel using ↑/↓ and press →. If you want to delete the title, chapter, or track from the programme, press CLEAR.

3 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 ↑ 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 22) or Shuffle Play (page 22).

✺

- 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 18), press ↑/ ↓ 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) DVDVideo DVDvr VCD CD 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 18), 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)
- 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.

🔅

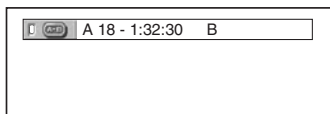You cannot use this function with VIDEO CDs or Super VCDs with PBC playback.

┌ 🔁 ┐ Repeating a specific portion (A-B Repeat Play)

DVDVideo **DVD**VR **VCD** **CD**

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

1 After selecting ┌ 🔁 ┐ (A-B REPEAT) on the Control Menu (page 18), press ↑/↓ to select "SET →," then press ENTER.

The "A-B REPEAT" setting bar appears.

```
┌ 🔁 ┐  A 18 - 1:32:30    B
```

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.

```
┌ 🔁 ┐  A 18 - 1:32:55    B 18 - 1:33:05
```
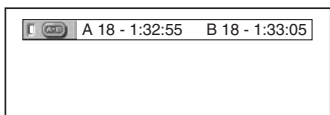
3 When you reach the ending point (point B), press ENTER again.

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 **DVD**VR **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 18), press ↑/↓ to select the setting you want.

The default setting is underlined.

- <u>STANDARD:</u> 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→: 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.

▯ 🖵 Sharpening the picture (SHARPNESS) `DVD Video` `DVD VR` `VCD` `DATA`

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

1 **After selecting ▯ 🖵 (SHARPNESS) on the Control Menu (page 18), press ↑/↓ 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)

You can set two kinds of playback restrictions as following:
- Custom Parental Control
- Parental Control

After selecting 🔒 (PARENTAL CONTROL) on the Control Menu (page 18), the options appear as shown below.
Select the option you want.
The default setting is underlined.
- ON →: Sets the playback restrictions so that the player will not play inappropriate discs (Custom Parental Control)
- PLAYER →: Playback of some DVD VIDEOs can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes (Parental Control). See "Parental Control (limited playback)" (page 24) for detailed settings
- PASSWORD →: Enter a 4-digit password using the number buttons. The same password is used for both Custom Parental Control and Parental Control. Also use this menu to change the password
- OFF →: Turns off the Custom Parental Control function

Parental Control (limited playback)
`DVD Video`

You can set a playback limitation level.

1 **After selecting 🔒 (PARENTAL CONTROL) on the Control Menu (page 18), press ↑/↓ to select "PLAYER →," 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 ↑/↓ to select "STANDARD," then press ENTER.**

The selection items for "STANDARD" are displayed.

4 **Press ↑/↓ 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 37 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."

ϔ
If you forget your password, remove the disc and repeat step 1 of "Parental Control (limited playback)." 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.

ϟ
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 34.

🔆
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 25).

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 "MEDIA" settings are changed.

🔅
The player supports MP3 ID3 Lyrics only.

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 ■.

ϟ

PICTURE NAVI does not work if "MUSIC" is selected in "MEDIA" (page 20).

🔳 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 18), press ↑/ ↓ to select a setting.

The default setting is underlined.

- <u>NORMAL</u>: 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 18), press ↑/ ↓ to select a setting.

The default setting is underlined.

- <u>MODE 1</u>: 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.

26

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 27 to 31.

۵
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 ↑/↓ 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 27 to 31

3 Press ↑/↓ to select "CUSTOM," then press ENTER.

The Setup Display appears.
Select the setup category and adjust each item following the instructions on pages 27 to 31.

```
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.

ゞ
If you select "OTHERS →" in "MENU," "SUBTITLE," or "AUDIO," select and enter a language code from "Language Code List" on page 37 using the number buttons.

۵
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.

◆ TV TYPE

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

16:9	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
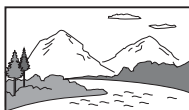
4:3 LETTER BOX

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.

◆ 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.

ON	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.

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

◆ LINE

Selects video signals output from the LINE (RGB)-TV jack on the rear panel of the player.

VIDEO	Outputs video signals.
RGB	Outputs RGB signals.

☻
If your TV does not accept the RGB signals, no picture will appear on the TV screen, even if you select "RGB." Refer to the operating instructions supplied with your TV.

CUSTOM SETUP

Use this to set up playback related and other settings.

The default settings are underlined.

◆AUTO POWER OFF

Switches the Auto Power Off setting on or off.

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

◆AUTO PLAY

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

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

◆DIMMER

Adjusts the lighting of the front panel display.

BRIGHT	Makes the lighting bright.
DARK	Makes the lighting dark.

◆PAUSE MODE (DVDs only)

Selects the picture in pause mode.

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.

◆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.

OFF	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 27).
- If you set "DTS" to "OFF" (page 31), 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 16).

ON	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.

◆ 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:
– LINE OUT L/R (AUDIO) jacks.
– LINE (RGB)-TV jack.
– DIGITAL OUT (COAXIAL) jack only when "DOLBY DIGITAL" is set to "D-PCM" (page 30).

STANDARD	Normally, select this position.
TV MODE	Makes low sounds clear even if you turn the volume down.
WIDE RANGE	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:
– LINE OUT L/R (AUDIO) jacks.
– LINE (RGB)-TV jack.
– DIGITAL OUT (COAXIAL) jack when "DOLBY DIGITAL" is set to "D-PCM" (page 30).

DOLBY SUR-ROUND	Normally, select this position. Multi-channel audio signals are output to 2 channels for enjoying surround sounds.
NORMAL	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.

ON	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 12.
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.

DOLBY DIGITAL	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 30).

◆ MPEG (DVDs only)

Selects the type of MPEG audio signal.

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.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

◆ DTS

Selects whether or not to output DTS signals.

OFF	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" in "AUDIO SETUP" (page 31).
- If you connect the player to audio equipment without a DTS decoder, do not set "DTS" to "ON" in "AUDIO SETUP" (page 31). 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.

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

🔇
The analogue audio signals from the LINE OUT L/R (AUDIO) jacks are not affected by this setting and keep their original sampling frequency level.

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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 cord securely.
➜ The connecting cords 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.
➜ Set "LINE" in "SCREEN SETUP" to an item appropriate for your TV (page 28).
➜ The disc is dirty or flawed.
➜ The disc is recorded in a colour system that is different from your TV.

The picture is black and white.
➜ Set "LINE" in "SCREEN SETUP" to an item appropriate for your TV (page 28).
➜ Depending on the TV, the picture on the screen becomes black and white when you play a disc recorded in the NTSC colour system.
➜ When you are using a SCART cord, be sure to use one that is fully wired (21-pins).

Sound

There is no sound.
➜ Re-connect the connecting cord securely.
➜ The connecting cord is damaged.
➜ The player is connected to the wrong input jack on the audio component (page 12).
➜ 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 30).
➜ 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 30).

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 3).
➜ The region code on the DVD does not match the player.
➜ Moisture has condensed inside the player (page 4).
➜ The player cannot play a recorded disc that is not correctly finalized (page 35).

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 21).

➡ Resume play has taken effect (page 16).

"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 33.)

The disc tray does not open and "LOCKED" appears on the front panel display.

➡ Child Lock is set (page 8).

The disc tray does not open and "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.

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 34). ➡ 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	![DVD VIDEO logos]	**DVD**Video	• 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	![DVD-VR logos]	**DVD**VR	• DVD-RWs/DVD-Rs/DVD-R DLs in VR (Video Recording) mode
CD	COMPACT disc DIGITAL AUDIO	**CD**	• Music CD • CD-Rs/CD-RWs in music format
VIDEO CD	COMPACT disc DIGITAL VIDEO	**VCD**	• Super VCDs • CD-Rs/CD-RWs in video CD/Super VCD format
DATA disc	–	**DATA**	• DATA CD/DATA DVD 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)[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.

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* image file format.
• DATA CDs recorded according to ISO 9660** Level 1/Level 2, or its extended format, Joliet.
• DATA DVDs recorded according to UDF (Universal Disk Format).
* "Design rule for Camera File system": Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).
**A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

ϔ
- 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 22.

🕦
- 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**
  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.

Additional Information

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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

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Specifications

System
Laser: Semiconductor laser

Outputs
(**Jack name:** Jack type/Output level/Load impedance)
LINE OUT (AUDIO):
Phono jack/2 Vrms/10 kilohms
DIGITAL OUT (COAXIAL):
Phono jack/0.5 Vp-p/75 ohms
LINE (RGB)-TV:
(AUDIO): SCART jack/2 Vrms/10 kilohms
(VIDEO): SCART jack/1.0 Vp-p/75 ohms
(RGB): SCART jack/0.7 Vp-p/75 ohms

General
Power requirements:
220 – 240 V AC, 50/60 Hz
Power consumption: 8 W
Dimensions (approx.):
$430 \times 43 \times 207$ mm (width/height/depth) incl. projecting parts
Mass (approx.): 1.6 kg
Operating temperature: 5 °C to 35 °C
Operating humidity: 25 % to 80 %

Supplied accessories
• 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 6, 27.
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; Bangla	1248	Indonesian	1393	Occitan	1528	Thai
		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; Pushto	1535	Tonga
1097	Czech	1283	Javanese			1538	Turkish
1103	Welsh	1287	Georgian	1436	Portuguese	1539	Tsonga
1105	Danish	1297	Kazakh	1463	Quechua	1540	Tatar
1109	German	1298	Greenlandic	1481	Rhaeto-Romance	1543	Twi
1130	Bhutani	1299	Cambodian			1557	Ukrainian
1142	Greek	1300	Kannada	1482	Kirundi	1564	Urdu
1144	English	1301	Korean	1483	Romanian	1572	Uzbek
1145	Esperanto	1305	Kashmiri	1489	Russian	1581	Vietnamese
1149	Spanish	1307	Kurdish	1491	Kinyarwanda	1587	Volapük
1150	Estonian	1311	Kirghiz	1495	Sanskrit	1613	Wolof
1151	Basque	1313	Latin	1498	Sindhi	1632	Xhosa
1157	Persian	1326	Lingala	1501	Sangho	1665	Yoruba
1165	Finnish	1327	Laothian	1502	Serbo-Croatian	1684	Chinese
1166	Fiji	1332	Lithuanian			1697	Zulu
1171	Faroese	1334	Latvian; Lettish	1503	Singhalese		
1174	French			1505	Slovak		
1181	Frisian	1345	Malagasy	1506	Slovenian	1703	Not specified

Parental Control Area Code List

For details, see page 24.

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		

Additional Information

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4-136-672-**12**(1)

http://www.sony.net/