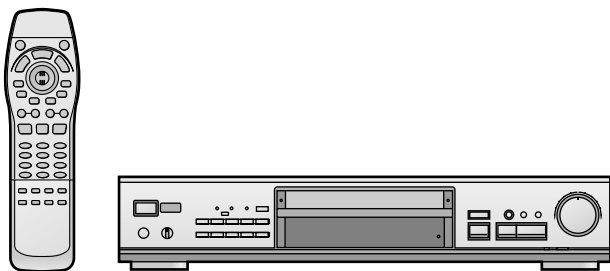


# DVD AUDIO/VIDEO PLAYER

## Operating Instructions

Model No. **DVD-RA61**



# Panasonic

## Region number supported by this player

Region numbers are allocated to DVD players and DVD-Video according to where they are sold.

### For the United Kingdom and Continental Europe

- The region number of this player is "2".
- The player will play DVD-Video marked with labels containing "2" or "ALL".

Example:



### For Asia

- The region number of this player is "3".
- The player will play DVD-Video marked with labels containing "3" or "ALL".

Example:



### For Australia and N.Z.

- The region number of this player is "4".
- The player will play DVD-Video marked with labels containing "4" or "ALL".

Example:



### For Russia

- The region number of this player is "5".
- The player will play DVD-Video marked with labels containing "5" or "ALL".

Example:



### Only for the United Kingdom

#### Note:

"EB" on the packaging indicates the United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

# Dear customer

Thank you for purchasing this product.  
For optimum performance and safety, please read these instructions carefully.

Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.

## CAUTION!

THIS PRODUCT UTILIZES A LASER.  
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.  
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

## WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

## CAUTION!

- DO NOT INSTALL, OR PLACE THIS UNIT, IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	- AVATTAESSA OLET ALTIINÄ NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注意	- ごろを覗くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、照れたりしないでください。 RQL50233

(Inside of product)  
(Produktets innsida)  
(Tuotteen sisällä)

## NORSK

### ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.  
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.  
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

## SUOMI

### VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

### VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NEUSTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

### VAROITUS!

- ÄLÄ ASENNATA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTÄ JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

### ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLOSSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

### ADVARSEL!

- APPARATET MÅ IKKE PLOSSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKSES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- PLOSSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
- BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Getting started

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(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.  
 This appliance is supplied with a moulded three pin mains plug for your safety and convenience.  
 A 5-ampere fuse is fitted in this plug.  
 Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.  
 Check for the ASTA mark  or the BSI mark  on the body of the fuse.  
 If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.  
 If you lose the fuse cover the plug must not be used until a replacement cover is obtained.  
 A replacement fuse cover can be purchased from your local dealer.

**CAUTION!**

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.  
 THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

**IMPORTANT**


The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

**WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.**

**THIS PLUG IS NOT WATERPROOF—KEEP DRY.**

**Before use**

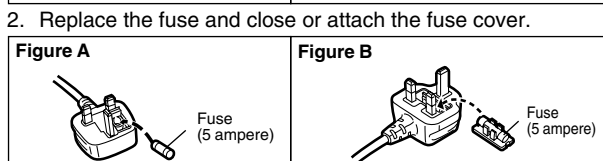
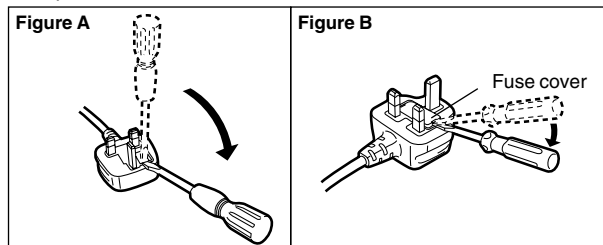
Remove the connector cover.

**How to replace the fuse**

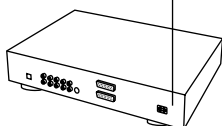
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



**LUOKAN 1 LASERLAITE  
 KLASS 1 LASER APPARAT**



(The illustration shows the model for the United Kingdom, Continental Europe and Russia.)

(Back of product)

# Accessories

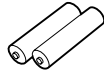


Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

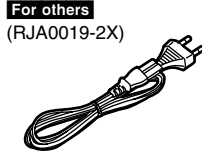
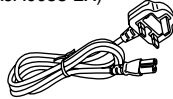
Remote control ..... 1 (N2QAJB000018)



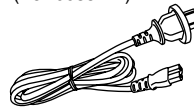
Batteries ..... 2 for remote control



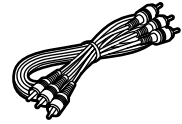
AC mains lead ... 1  
**For the United Kingdom** (RJA0053-2X)



**For Australia and N.Z.** (RJA0035-1X)



Audio/video cable ..... 1 (VJA0788-D)



Getting started

## Note

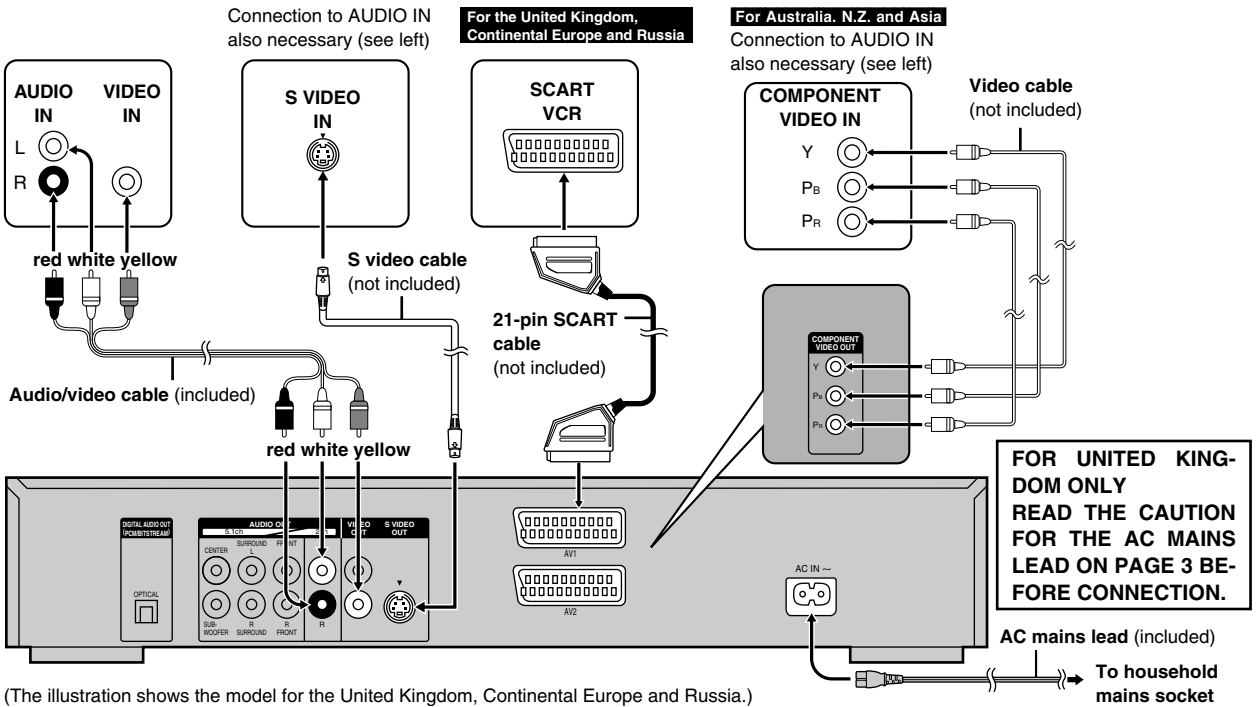
The included AC mains lead is for use with this unit only. Do not use it with other equipment.

## Connection to a television

Although the audio on most DVDs is designed to be played through six speakers and this unit's factory settings assume this setup, the following describes connections that allow you to enjoy sound through your television's speakers. To get the full benefit from the powerful 5.1-channel audio found on DVDs, you should connect an amplifier and six speakers (→ page 16).

### Before connection

- Disconnect the AC mains lead.
- Refer to the television's operating instructions.



(The illustration shows the model for the United Kingdom, Continental Europe and Russia.)

### S VIDEO OUT terminal

The S-video terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)

### COMPONENT VIDEO OUT terminal

Connection using these terminals outputs the color difference signals (P<sub>B</sub>/P<sub>R</sub>) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

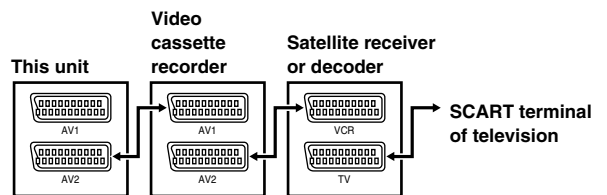
- The description of the component video input terminals depends on the television or monitor (e.g. Y/P<sub>B</sub>/P<sub>R</sub>, Y/B-Y/R-Y, Y/C<sub>B</sub>/C<sub>R</sub>).
- Connect to terminals of the same color.

### Connect Your Unit Directly To Your Television.

Do not connect the unit through your video cassette recorder when setting up your home entertainment system, because the picture may not be played correctly due to the copy guard.

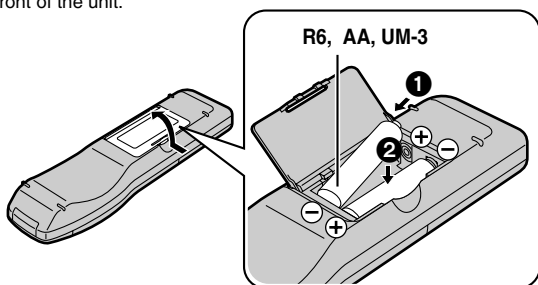
### SCART terminal

- To improve picture quality, you can change the video signal output from the AV1 terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using (→ page 18, Video—AV1 Output).
- You can also connect other equipment to AV2.



## The remote control

Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.



- Insert so the poles (+ and -) match those in the remote control.
- Do not use rechargeable type batteries.

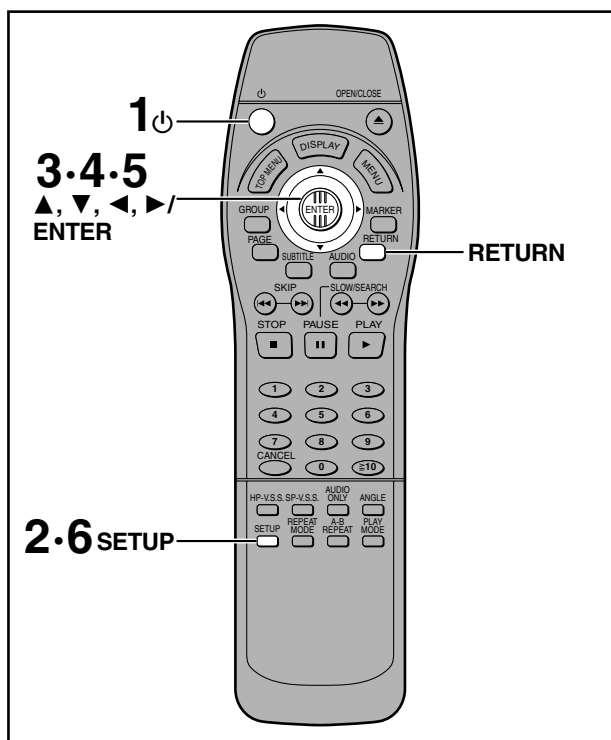
### Do not;

- mix old and new batteries.
- use different types at the same time.
- heat or expose to flame.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

## Selecting TV screen type



### Remote control only

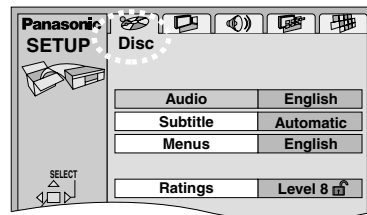
Change the setting to suit your television.

The menu language is set to English, but you can change it (→ page 18, Display—Menu Language). English is used in the examples.

### Preparation

Turn on the television and select the appropriate video input on the television to suit the connections for the player.

- 1 Press [POWER] to turn on the unit.
- 2 Press [SETUP] to show the menus.



- 3 Move [LEFT, RIGHT] to select the “Video” tab.
- 4 Move [UP, DOWN] to select “TV Aspect” and press [ENTER].
- 5 Move [UP, DOWN] to select the item and press [ENTER].

#### •4:3 Pan&Scan (Factory preset)

Select if you have a regular television and to view 16:9 software in the pan and scan style.



16:9 software prohibited from being shown in the pan and scan style will appear in the letterbox style despite the setting here.

#### •4:3 Letterbox

Select if you have a regular television and to view 16:9 software in the letterbox style.



#### •16:9

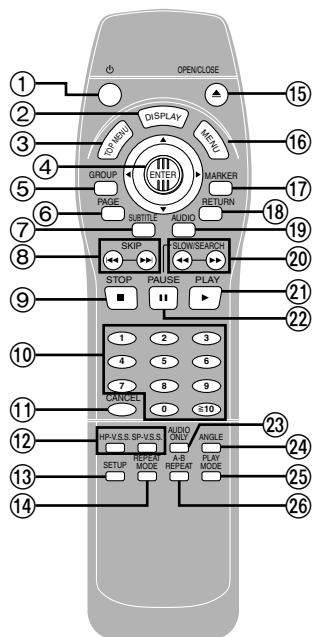
Select if you have a widescreen (16:9) television.

Use the television’s screen modes to change the way the picture is shown.

- 6 Press [SETUP] to end the settings.

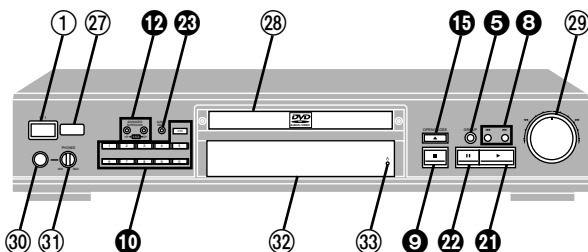
### To return to the previous screen

Press [RETURN].



① Standby/on switch (⏻/⏻)	5
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	
② Display button (DISPLAY)	14
③ Top menu button (TOP MENU)	7
④ Joystick (▲, ▼, ◀, ▶)/Enter button (ENTER)	5
⑤ Group button (GROUP)	9
⑥ Page button (PAGE)	10
⑦ Subtitle button (SUBTITLE)	13
⑧ Skip buttons (◀◀, ▶▶) SKIP	9
⑨ Stop button (■ STOP)	7
⑩ Numbered buttons (1–9, 0, ≧10)	7
⑪ Cancel button (CANCEL)	9
⑫ Headphone and Speaker V.S.S. buttons (HP-V.S.S., SP-V.S.S.)	10
⑬ Setup button (SETUP)	5, 19
⑭ Repeat mode button (REPEAT MODE)	12
⑮ Open/Close button (▲ OPEN/CLOSE)	7
⑯ Menu button (MENU)	7
⑰ Marker button (MARKER)	12
⑱ Return button (RETURN)	5
⑲ Audio button (AUDIO)	13
⑳ Slow/Search buttons (◀◀, ▶▶) SLOW/SEARCH	9
㉑ Play button (▶ PLAY)	7
㉒ Pause button (⏸ PAUSE)	7
㉓ Audio only button (AUDIO ONLY)	10
㉔ Angle button (ANGLE)	13
㉕ Play mode button (PLAY MODE)	11
㉖ A-B repeat button (A-B REPEAT)	12
㉗ Remote control signal sensor	5
㉘ Disc tray	7
㉙ Shuttle dial (◀◀, ▶▶)	9
㉚ Headphone jack	10
㉛ Headphone level control (PHONES)	10
㉜ FL Display	
㉝ Standby indicator (⏻)	

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.



Buttons such as ⑤ function the same as the controls on the remote control.

## Disc information

### Discs that can be played

DVD-Audio	DVD-Video	DVD-R	Video CD	Audio CD
Indication used in instructions				

Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.



### Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.

### Discs that cannot be played

DVD-ROM, DVD-RAM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs and Photo CD.

### DVDs that can be played

This unit has a Dolby Digital decoder so you can play DVDs with this mark.

This unit has a DTS decoder so you can play DVDs with this mark.

### DVD-R discs

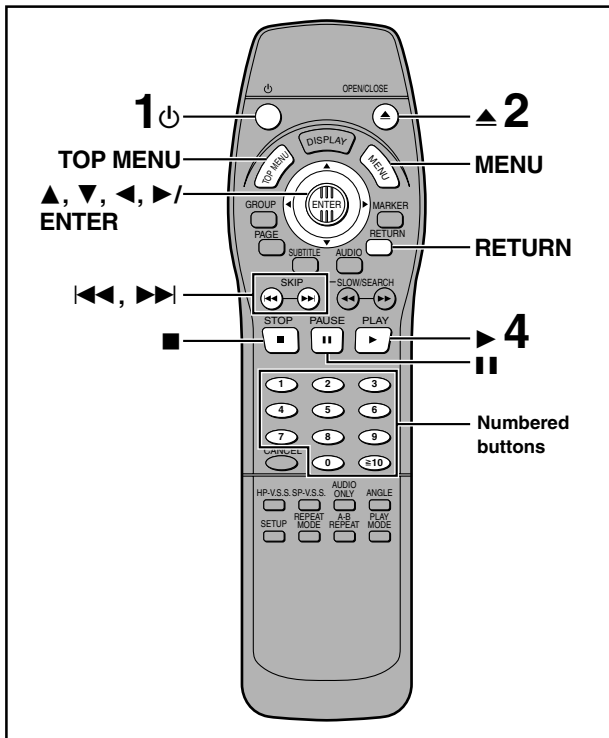
Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder are played as DVD-Video on this unit. It may not be possible to play these discs in all cases due to the type of disc or condition of the recording.

### Video systems

This unit can play both the PAL and NTSC video systems. To view PAL or NTSC, however, your television must match the system used on the disc. PAL discs cannot be correctly viewed on an NTSC television. NTSC can be correctly viewed on a PAL television by converting the video signal to PAL 60 (⇒ page 18, Video-NTSC Disc Output).

### Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.

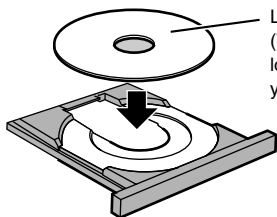


DVD-A DVD-V VCD CD

## Preparation

Turn on the television and select the appropriate video input on the television to suit the connections for the player.

- 1 Press [Power] to turn on the unit.
- 2 Press [Disc Tray Open/Close] to open the disc tray.
- 3 Place the disc on the disc tray.



Label must face upward.  
(With double-sided discs, load so the label for the side you want to play is facing up.)

- 4 Press [Play] (PLAY).  
The disc tray closes and play begins.

## To stop play

Press [Stop] (⇒ Resume function at right).

## To pause play

Press [Pause] during play.  
Press [Play] (PLAY) to restart play.

## Playing CD-R and CD-RW

This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized\* upon completion of recording.

It may not be able to play some CD-R or CD-RW due to the condition of the recording.

\*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

## Note

### If "⊞" appears on the television

- The operation is prohibited by the unit or disc.
  - The disc continues to rotate while the menu is displayed even after you finish playing an item. Press [Stop] when you finish to preserve the unit's motor and your television screen.
  - Volume may be lower when playing DVDs than when playing other discs or during television broadcasts.
- If you turn the volume up on the television or amplifier, be sure to reduce the volume again before playing other sources so that a sudden increase in output does not occur.

## Auto standby

The unit switches to the standby mode after about 30 minutes in the stop mode.

## When a menu screen appears on the television

DVD-A DVD-V VCD

## Press the numbered buttons to select an item.

### To select a 2-digit number

Example: To select item 23, press [≥10] → [2] → [3].

- When playing DVDs, you can also use [Up], [Down], [Left], [Right] to select items. Press [ENTER] to confirm your selection.

Play of the selected item now begins.

### Other buttons used to operate menus

Read the disc's instructions for further details about operation.

[Right]: Shows the next menu.

[Left]: Shows the previous menu.

[RETURN]: Shows the menu screen. **VCD**

[TOP MENU]: Shows the first menu screen. **DVD-A DVD-V**

[MENU]: Shows the menu screen. **DVD-V**

## Resume function

DVD-A DVD-V VCD CD

The position you stopped play at is recorded by the unit when "▷" is flashing on the unit's display.

While "▷" is flashing on the unit's display, press [Play] (PLAY) to start play from where you stopped it.

If you are playing DVD-Video, the message "Press PLAY to Chapter Review" or "Press PLAY to Preview Chapters" (for Asia) appears.

Press [Play] (PLAY) while the message is displayed and the beginning portions of each chapter up to the current one are played. Full play resumes from the point where you stopped play.  
(This feature works only within a title.)

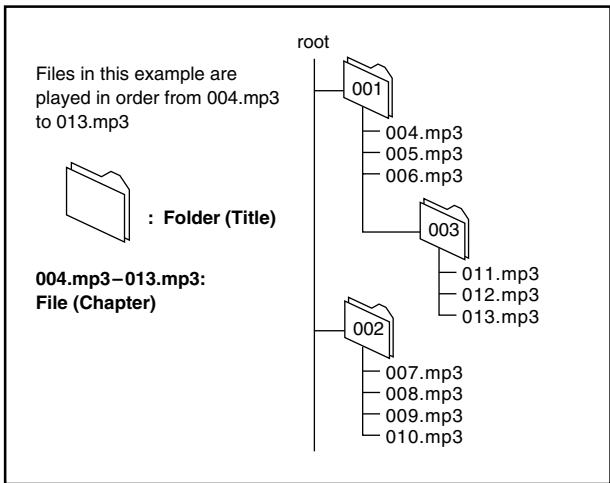
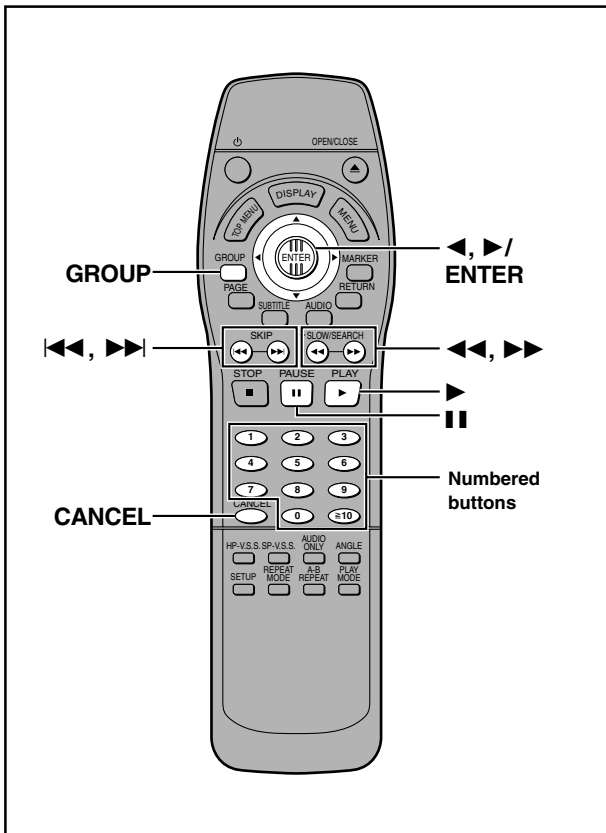
If you do not press [Play] (PLAY), the message disappears and play starts from where you stopped it.

### To cancel

Press [Stop] until "▷" disappears from the unit's display.

## Note

- The resume function does not work if the disc's play time is not displayed.
- The position is cleared when the disc tray is opened.



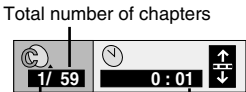
**How MP3 discs differ to CDs**

A file is a single audio track and is treated as a chapter on this unit. A folder (album) is treated as a title on this unit.

The display during play is different



The information displayed in the GUI screens is different



Chapter playing      Elapsed playing time  
(cannot be changed)

The method of specifying a chapter to play is different

Press [ENTER] after pressing the numbered buttons. For example, to select chapter 23, press [2] → [3] → [ENTER]. You do not have to press [≧10].

Repeat play

You can repeat chapters or titles.

**Limitations on MP3 play**

- You cannot use program or random play.
- The time information may not be displayed correctly.
- If both MP3 and CD-DA data is recorded on the disc, only the data type used for the first track is played.
- It may take some time for play to start if the disc includes still picture data or if there are many folders on the disc.
- Noise may be output if a file is suffixed ".MP3" or ".mp3" but is not actually an MP3 file.
- This unit is not compatible with ID3 tags and packet-write format.

**Playing MP3 discs**

MP3 refers to the type of music file that is compressed using MPEG audio layer 3.

**When making MP3 discs to play on this unit**

**Disc format**  
Conform to ISO9660 level 1 and level 2

**File format**  
MP3 files that have the suffix ".MP3" or ".mp3".

**To play in a certain order**  
Prefix the folder and file names with numbers with the same number of digits at the time of recording.

Files may not be recorded in the numbered order if the prefixes have different numbers of digits, for example 1.mp3, 2.mp3, 10.mp3. Some writing software may also cause recording to occur in a different order.



## Skipping chapters or tracks

DVD-A DVD-V VCD CD

During play or while paused

Press [**⏮**] or [**⏭**].

- Each press increases the number of skips.

## Frame-by-frame viewing

DVD-A DVD-V VCD

**Remote control only**

While paused

Move [**⏪**] or [**⏩**].

The frame changes each time you move the joystick.

- The frames change in succession if you hold the joystick in position.
- Pressing [**⏭**] also activates forward frame-by-frame.

## Fast forward and rewind—SEARCH

DVD-A DVD-V VCD CD

During play

Press [**⏮**] or [**⏭**].

Turn the shuttle dial [**⏮**, **⏭**] on the main unit.

- Play starts again when you release the shuttle dial.
- Audio will be heard during search for most discs. You can turn this audio off if you want to (⇒ page 18, Audio—Audio during Search).

## Slow-motion play

DVD-A DVD-V VCD

While paused

Press [**⏮**] or [**⏭**].

Turn the shuttle dial [**⏮**, **⏭**] on the main unit.

- The picture stills again when you release the shuttle dial.

### Notes

- The speed of search and slow-motion increases up to 5 steps.
- Press [**▶**] (PLAY) to restart play.
- You cannot move backwards with Video CD during frame-by-frame and slow-motion.
- Frame-by-frame and slow motion only work on the moving picture parts of DVD-Audio.

### When playing Video CDs with playback control

Turning the shuttle dial or pressing buttons to perform SKIP, search or slow-motion may take you to a menu screen.

## Starting play from a selected title or track

DVD-A DVD-V VCD CD

Press the numbered buttons to select the item.

To select a 2-digit number

Example: To select track 23, press [**≥10**] ⇒ [**2**] ⇒ [**3**].

Play starts from the selected item.

### Note

- This works only when stopped with some discs.
- This may not work with some discs.

## Selecting groups to play

DVD-A

The tracks on DVD-Audio are divided into groups. How these groups are played differs with the disc so read the instructions that came with the disc for further details.

### 1 Press [GROUP].

The group number changes each time you press the button.



### 2 Press [ENTER].

### 3 Press the numbered buttons to select the track number and press [ENTER].

The selected group and track begin to play.

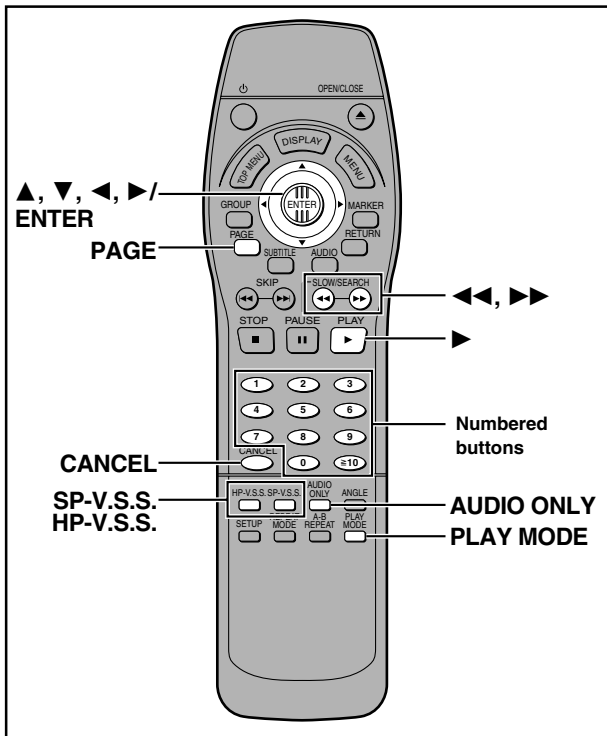
## Playing all the groups in succession (⇒ page 11)

### Playing bonus groups

Some discs contain bonus groups. To enjoy these groups you may have to enter a password. Refer to the disc's jacket.

1. Press [GROUP] to select the bonus group and press [ENTER].
2. Enter the 4-digit password with the numbered buttons and press [ENTER].
  - If you enter the wrong password, you can erase a digit by pressing [CANCEL].
3. Press the numbered buttons to select a track and press [ENTER].

- The bonus group can be played as many times as you like after the password has been entered until the disc is removed from the unit.



**Enjoying virtual surround effects with 2 speakers or headphones (ADVANCED SURROUND V.S.S.)**

DVD-V VCD

**SP-V.S.S.:** Dolby Digital, DTS, MPEG, Linear PCM, 2-channel or over only

**HP-V.S.S.:** Dolby Digital, MPEG, Linear PCM, 2-channel or over only

Use ADVANCED SURROUND V.S.S. (Virtual Surround Sound) to enjoy a surround-like effect if you are using 2 front speakers or headphones.

If you are playing a disc with surround effects recorded on it, the effect is broadened and sound seems to come from virtual speakers on either side.

**During play**

**Press [SP-V.S.S.] or [HP-V.S.S.].**

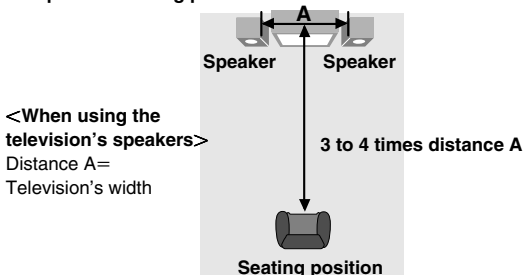
Each time you press the button:

- SP 1/HP 1: Natural effect
- ↓
- SP 2/HP 2: Emphasized effect
- ↓
- SP OFF/HP OFF: Cancel (Factory preset)

**Note**

- Advanced Surround will not work, or will have less effect with some discs, even if you select “1” or “2”.
- Turn off the surround sound effects on the equipment you have connected when using this effect.
- Turn Advanced Surround off if it causes distortion.
- Output from this unit will be in stereo (two channels) when Advanced Surround is on.

**Optimum seating position**



**Selecting still pictures—Page Skip**

DVD-A

**Remote control only**

**During play**

**Press [PAGE].**

The page changes each time you press the button.



**To enjoy even higher quality sound—AUDIO ONLY**

DVD-A DVD-V VCD CD

You can enjoy higher quality audio by stopping the video signal.

**Press [AUDIO ONLY].**

- The button on the main unit lights.
- AUDIO ONLY is canceled if you press the button again or turn the unit off. The light goes out.

**Note**

- Video signals are output while the disc is stopped and when operations such as searching are performed. The television screen can appear unusual while video signals are not being output.
- The television may be distorted when video signals are turned on and off when you turn AUDIO ONLY on and off, but this is not a malfunction.

**Using headphones**

**1 Set [PHONES] to “MIN” and connect the headphones (not included).**

Headphone plug type: 6.3 mm stereo



**2 Adjust headphone volume with [PHONES].**

**Note**

Avoid listening for prolonged periods of time to prevent hearing damage.

# Changing the play sequence

DVD-A VCD CD

## Remote control only

While stopped

Press [PLAY MODE] to select the play mode.

The mode changes each time you press the button. Select the mode then follow the procedures in the next column to start play.

### All group play

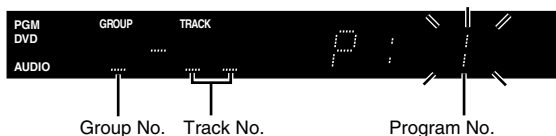
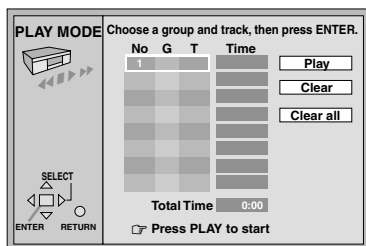
DVD-A

To play all the groups in succession



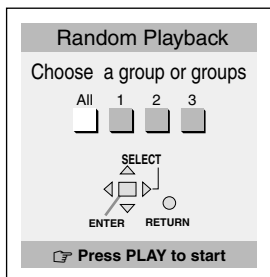
### Program play

To play a maximum of 32 tracks in a programmed order e.g. DVD-Audio



### Random play

To play tracks randomly e.g. DVD-Audio (three groups)



### Normal play

•The program is retained in memory.

### All group play

DVD-A

Press [▶] (PLAY).

### Program play

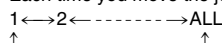
1 Press [ENTER].

2 **DVD-Audio only**  
Move [▲, ▼] to select a group and press [ENTER].

If you select bonus groups, you will have to enter a 4-digit password (→ page 9).

3 Move [▲, ▼] to select a track and press [ENTER].

Each time you move the joystick,



•Repeat steps 1, 2 and 3 to program other tracks.

•You can also select a group or track with the numbered buttons.

•All the tracks on a disc are selected when you select "ALL" (all the tracks in the selected group with DVD-Audio).

4 Press [▶] (PLAY).

Play now begins in the programmed sequence.

### To add or change tracks

Move [▲, ▼] to select an available item, then repeat steps 1–3.

### To move to the page before or after the one shown

Press [◀◀] or [▶▶].

### To clear the programmed tracks one by one

Move [▲, ▼] to select the item number (No) and press [CANCEL]. (Alternatively, you can select "Clear" with [▲, ▼, ◀, ▶] and press [ENTER].)

### To clear the whole program

Move to "Clear all" with [▲, ▼, ◀, ▶] and press [ENTER].

The whole program is also cleared when the unit is turned off or the disc tray is opened.

### Random play

1 **DVD-Audio only**

Move [◀, ▶] to select a group and press [ENTER].

•You can select more than one group.

•You can also select groups with the numbered buttons.

•If you select bonus groups, you will have to enter a 4-digit password (→ page 9).

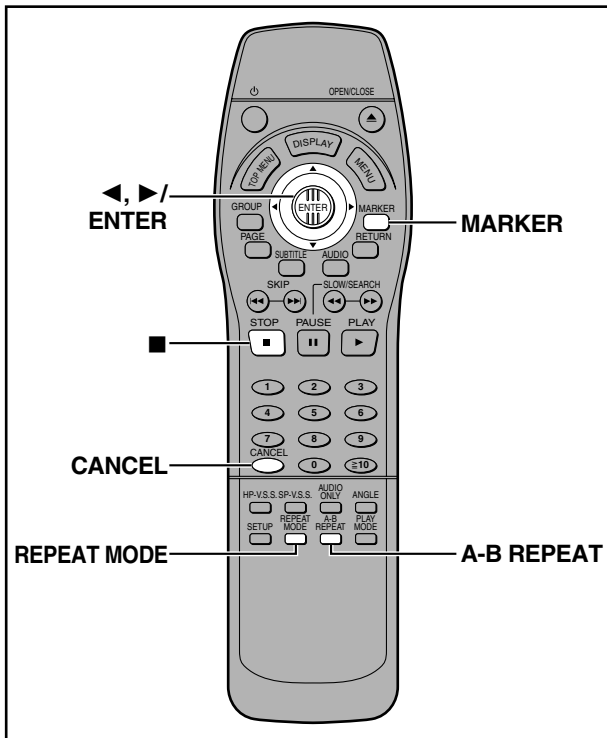
2 Press [▶] (PLAY).

Play now begins in random order.

### To clear a group **DVD-A**

Move [◀, ▶] to select the group you want to clear, then press [ENTER].

# Repeat play



DVD-A | DVD-V | VCD | CD

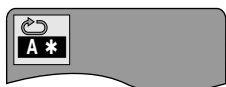
Remote control only

Advanced operations

## A-B repeat play

You can repeat a section between points A and B within a title or track.

- 1 During play**  
Press [A-B REPEAT] at the starting point (A).



- 2 Press [A-B REPEAT] at the finishing point (B).**



### To cancel

Press [A-B REPEAT] until "↻ \*\*" is displayed.

### Note

- A-B repeat play does not work if the DVD's elapsed play time is not shown on the unit's display.
- Some subtitles recorded around point A or B may fail to appear (DVD).
- The unit automatically determines the end of a title/track as point B when the end of the title/track is reached.

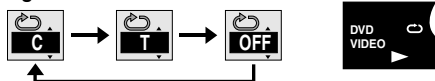
## Repeat play

### During play

Press [REPEAT MODE].

Each time you press the button:

e.g. DVD-Video



### •DVD-Audio

Track (T) → Whole group (G) → OFF

During All group, Program, or Random play modes, "A" is displayed instead of "G".

### •DVD-Video

Chapter (C) → Title (T) → OFF

### •Video CD/CD

Track (T) → Entire disc (A) → OFF

### If the Video CD has playback control

1. Press [■] during play until "PBC PLAY" is cleared from the display.
2. Press the numbered buttons to select a track to start play (→ page 9).
3. Press [REPEAT MODE] (↔ above).

### Note

You cannot use repeat play to repeat an entire DVD-Video.

### ■ To repeat only your favorite tracks

DVD-A | VCD | CD

Start program play (→ page 11) and press [REPEAT MODE] to display the repeat mode you like.

## Marking places to play again—MARKER

You can mark specific points on a disc to return to later. All the markers are cleared when the unit is turned off, or the disc tray is opened.

- 1 Press [MARKER].**



- 2 Press [ENTER] at the point you want to mark.**

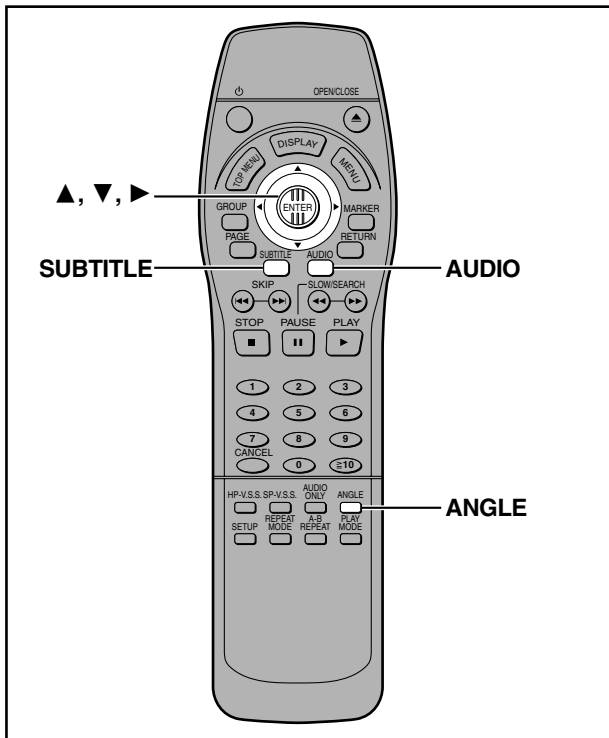
To select another marker, move [◀, ▶].

### To play from a marked position

Move [◀, ▶] to select a marker number and press [ENTER].

### To clear a marker

Move [◀, ▶] to select a marker number and press [CANCEL].



DVD-A DVD-V

### Remote control only

Some DVDs have multiple soundtracks, subtitle languages and camera angles, and you can change these during play.

## Soundtracks

**During play**  
Press [AUDIO].

The number changes each time you press the button.



Soundtrack selected

Soundtrack playing

e.g. DVD-Video



Indicates that a multi-channel soundtrack can be down-mixed to two channels.

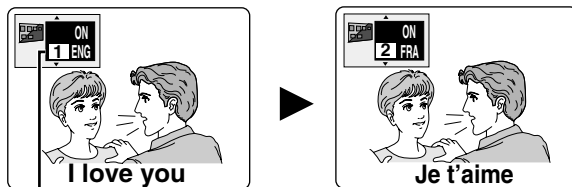
Lights when a multi-channel soundtrack is playing.

- Play restarts from the beginning of the soundtrack when changing DVD-Audio soundtracks that are accompanied by still pictures.
- Even if a second soundtrack isn't recorded on a DVD-Audio, two soundtrack numbers will normally be shown when you press [AUDIO]. The soundtrack currently playing is number 1.
- You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.

## Subtitles

**During play**  
Press [SUBTITLE].

The number changes each time you press the button.



Subtitle language number

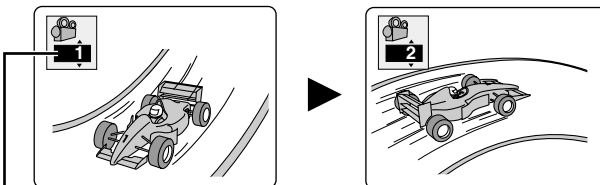
**To clear/display the subtitles**

1. Press [SUBTITLE].
2. Move [▶].
3. Move [▲, ▼] to select "OFF" or "ON".

## Angles

**During play**  
Press [ANGLE].

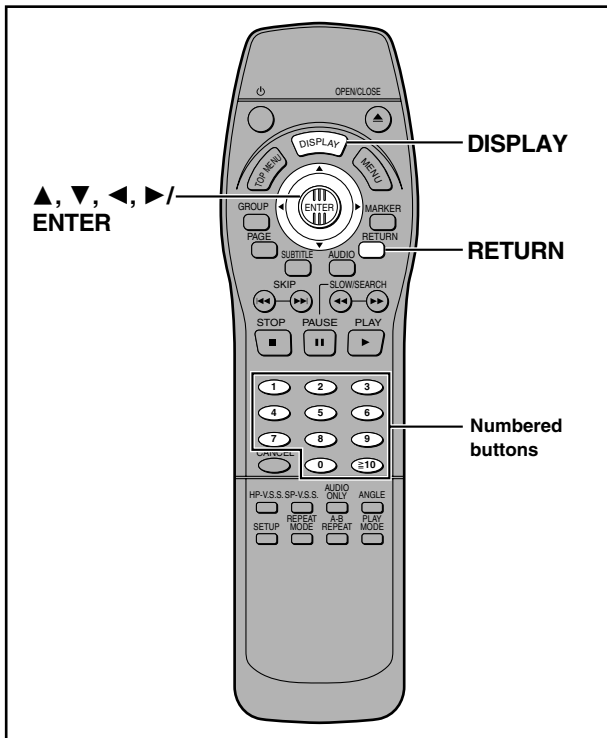
The number changes each time you press the button.



Angle number

### Notes regarding soundtracks and subtitle languages

- "—" or "—" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.
- In some cases, the subtitle language is not changed to the selected one immediately.
- Refer to **D** and **E** on page 15 for language abbreviations and audio signal type details.



## For your reference

- Depending on the condition of the unit (playing, stopped, etc.) and the type of software you are playing, there are some items that you cannot select or change.
- When numbers are displayed (e.g. title No.), the numbered buttons are also effective for setting. After entering numbers, press [ENTER] to register the setting.

## To clear the icons

Press [RETURN] until the menus disappear.

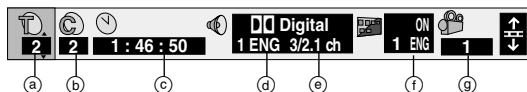
## To change the position of the icons

1. Move [◀, ▶] to select the rightmost icon.
2. Move [▲, ▼] to move the icons.  
(There are 5 positions)

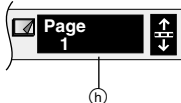


## A Disc information

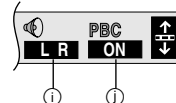
e.g. DVD-Video



e.g. DVD-Audio



e.g. Video CD



- a) **T: Title number** [DVD-V]
- b) **G: Group number** [DVD-A]
- c) **C: Chapter number** [DVD-V]
- d) **T: Track number** [DVD-A] [VCD] [CD]
- e) **Time** [DVD-A] [DVD-V]

Select a position to start play by specifying a time with the numbered buttons.

## Changing the time display

Move [▲, ▼] to show the elapsed play time, remaining time for the track, or remaining time for the disc/group (DVD-A).

- f) **Soundtrack language** [DVD-A] [DVD-V] (⇒ page 13)  
(See **D** on page 15 for language abbreviations.)
- g) **Audio signal type** [DVD-A] [DVD-V] (⇒ page 13)  
(See **E** on page 15 for details.)
- Karaoke vocal on/off** (Karaoke DVD only) [DVD-V]  
Solo: OFF or ON    Duet: OFF, V1+V2, V1 or V2
- h) **Subtitle language** [DVD-A] [DVD-V] (⇒ page 13)  
(See **D** on page 15 for language abbreviations.)
- Subtitles on/off**  
ON ↔ OFF
- i) **Angle number** [DVD-A] [DVD-V] (⇒ page 13)
- j) **Still picture number** [DVD-A]  
Selected picture is shown during play.
- k) **Audio mode** [VCD]  
LR ↔ L ↔ R
- l) **Menu play** [VCD] (with playback control only)  
Indicates whether menu play (playback control) is on or off.

GUI screens are menus that contain information about the disc or unit. These menus allow you to perform operations by changing this information.

## Common procedures

[DVD-A] [DVD-V] [VCD] [CD]

### Remote control only

#### 1 Press [DISPLAY].

Each time you press the button:

**A** Disc information → **B** Unit information (⇒ step 2)

Original display ← **C** Shuttle screen

- The screens depend on the disc contents.

#### 2

##### Unit information only

While the leftmost icon is highlighted

Move [▲, ▼] to select the menu.

Each time you move the joystick:

Play menu ↔ Video menu

Display menu ↔ Audio menu

#### 3

Move [◀, ▶] to select the item.

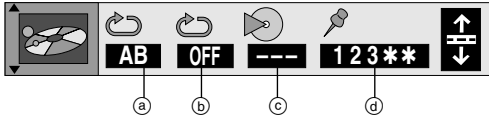
#### 4

Move [▲, ▼] to select the setting.

- Items with "▲" or "▼" above and below can be changed by [▲, ▼].
- Press [ENTER] if the setting does not change after moving [▲, ▼].
- Some items require different operations. Read the explanations on the following pages.

## B Unit information

### Play menu



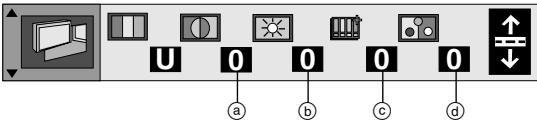
- a) **A-B repeat** [DVD-A] [DVD-V] [VCD] [CD] (⇒ page 12)  
[ENTER] (start point) ⇒ [ENTER] (finish point)  
To cancel: [ENTER]
- b) **Repeat play** [DVD-A] [DVD-V] [VCD] [CD] (⇒ page 12)
  - DVD-Audio  
Track (T) ↔ Whole group (G) ↔ OFF
  - DVD-Video  
Chapter (C) ↔ Title (T) ↔ OFF
  - Video CD/CD  
Track (T) ↔ Entire disc (A) ↔ OFF
- c) **Play mode display** [DVD-A] [VCD] [CD]
  - : Normal play    PGM: Program play
  - RND: Random play    ALL: All group play ([DVD-A])
- d) **Marker** [DVD-A] [DVD-V] [VCD] [CD] (⇒ page 12)

### Video menu



#### Digital picture mode [DVD-A] [DVD-V] [VCD]

- N: Normal mode
  - C: Cinema mode (Mellows movies, enhances detail in dark scenes.)
  - U: User mode
- The following items are also displayed when you select "U".



- a) **Contrast** (-7 to +7)
- b) **Brightness** (0 to +15)
- c) **Sharpness** (-6 to +6)
- d) **Color** (-7 to +7)

## C Shuttle screen

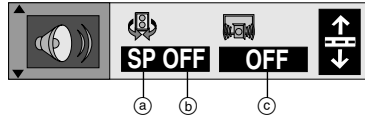


- ◀: **Slow-motion play (Backward)** [DVD-A] [DVD-V]
- ⏸: **Pause**
- ▶: **Slow-motion play (Forward)** [DVD-A] [DVD-V] [VCD]
- ◀◀: **Search (Backward)**
- ▶▶: **Play**
- ▶▶▶: **Search (Forward)**

#### Note

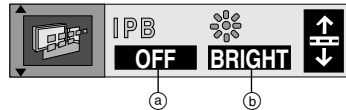
The numbers on either side of the shuttle screen indicate the maximum speeds of the search.

### Audio menu



- a) **ADVANCED SURROUND V.S.S. mode** [DVD-V] [VCD] (⇒ page 10)  
SP ↔ HP
- b) **SP/HP level** [DVD-V] [VCD] (⇒ page 10)  
1 ↔ 2 ↔ OFF
- c) **Dialogue Enhancer** [DVD-V]  
(Dolby Digital/DTS, 3-channel or over only)  
ON ↔ OFF  
The volume of the dialogue from the center channel is raised when you select "ON".

### Display menu



- a) **IPB display** [DVD-V] (⇒ page 21)  
ON ↔ OFF  
Displays the picture type (I/P/B) in the still picture mode.
- b) **Display dimmer**  
Changes the brightness of the unit's display.  
BRIGHT ↔ DIM ↔ AUTO\* ([DVD-A] [DVD-V] [VCD])

\*The display is dimmed during play, but brightens when you perform operations such as slow-motion, search, and pause.

#### D Audio/Subtitle language

ENG: English	SVE: Swedish	CHI: Chinese
FRA: French	NOR: Norwegian	KOR: Korean
DEU: German	DAN: Danish	MAL: Malay
ITA: Italian	POR: Portuguese	VIE: Vietnamese
ESP: Spanish	RUS: Russian	THA: Thai
NLD: Dutch	JPN: Japanese	*: Others

#### E Signal type/data

LPCM/PPCM/□□ Digital/DTS/MPEG: Signal type

k (kHz): Sampling frequency

b (bit): Number of bits

ch (channel): Number of channels

Example: 3/2\_1ch

└.1: Subwoofer signal  
(not displayed if there is no subwoofer signal)

0: No surround

1: Mono surround

2: Stereo surround (left/right)

1: Center

2: Front left+Front right

3: Front left+Front right+Center

# Home Theater—Enjoying more powerful sound

This unit has built-in Dolby Digital and DTS decoders (⇒ page 21).

You can enjoy the powerful movie theater and hall-like sound available with Dolby Digital and DTS by connecting an amplifier with 5.1-channel input terminals. You do not need to purchase separate Dolby Digital or DTS decoders.

**Use analog connection to enjoy audio recorded with high sampling frequencies (over 48 kHz). To protect the rights of the producers of this kind of material, this audio will be down-sampled to 48 kHz or 44.1 kHz if you use digital connection.**

## To enjoy 5.1-channel surround sound

### Analog connection

Connect an amplifier with 5.1-channel audio input terminals.

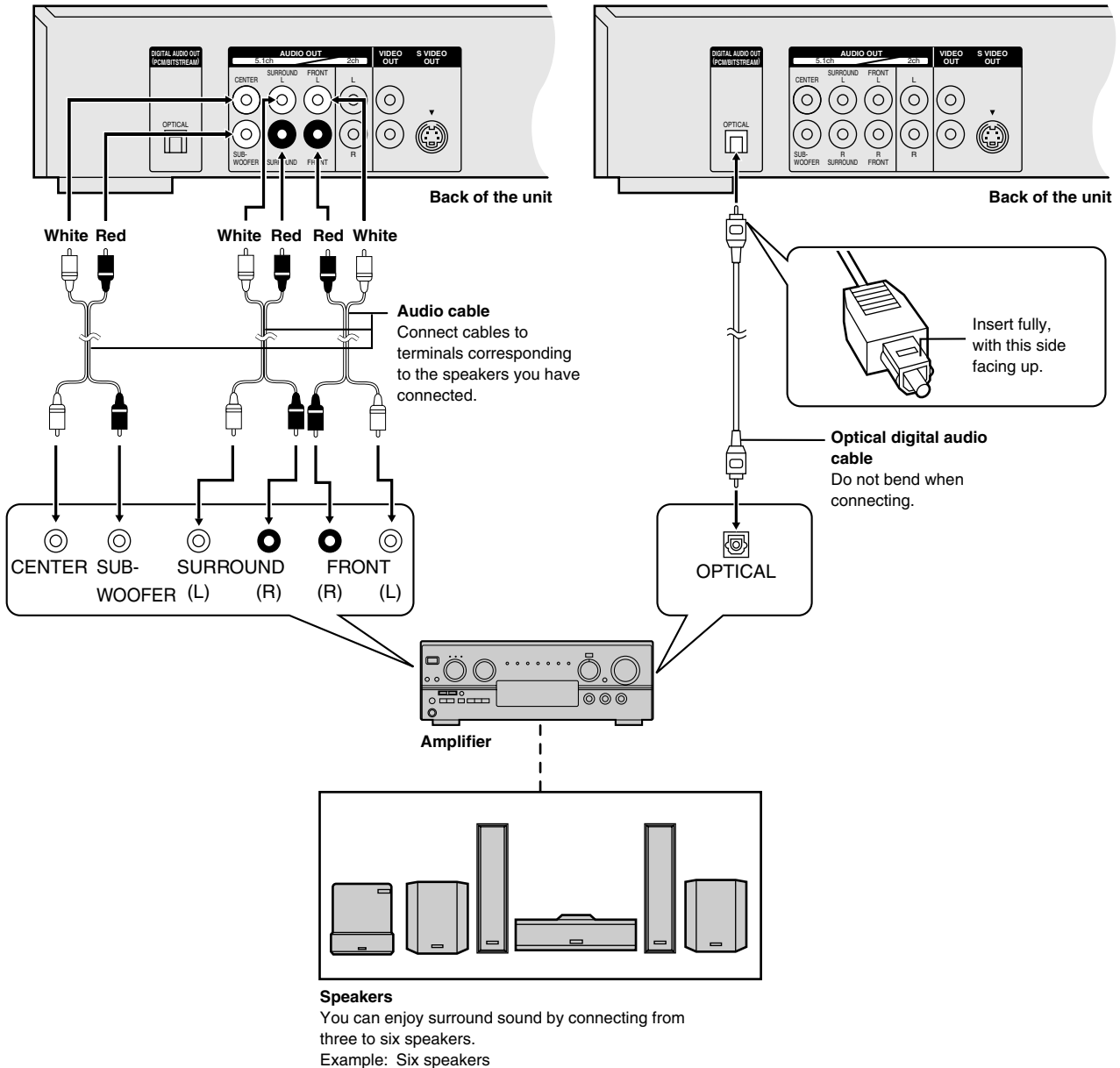
Change “Speaker setting” (⇒ page 19).

### Digital connection

Connect an amplifier with a built-in decoder or a decoder-amplifier combination.

Change “Digital output” (⇒ page 20).

Advanced operations



#### Note

- Turn speaker and headphone V.S.S. (⇒ page 10) off when you connect through the 5.1-channel output terminals. The unit does not output the signals for channels other than the front speakers when V.S.S. is on.
- If you do not connect a subwoofer, it is advisable to connect front speakers (L/R) capable of producing bass of less than 100 Hz.

#### Note

You cannot use DTS Digital Surround decoders not suited to DVD-Video.

RQT6043

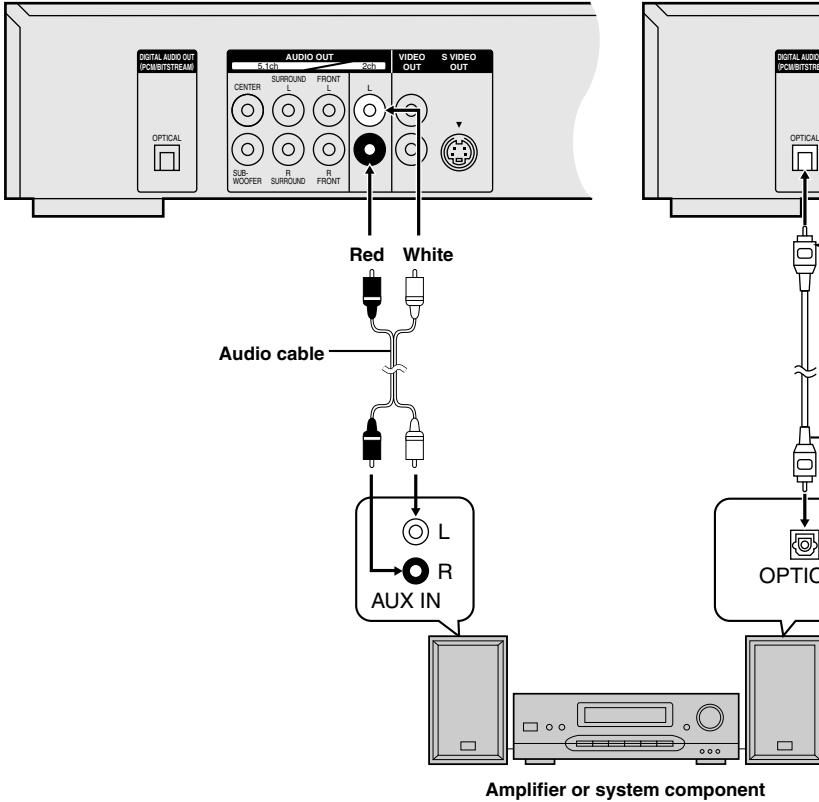


**Note**

- The equipment connections described are examples.
- Peripheral equipment and optional cables sold separately unless otherwise indicated.
- Before connection, turn off all equipment and read the appropriate operating instructions.

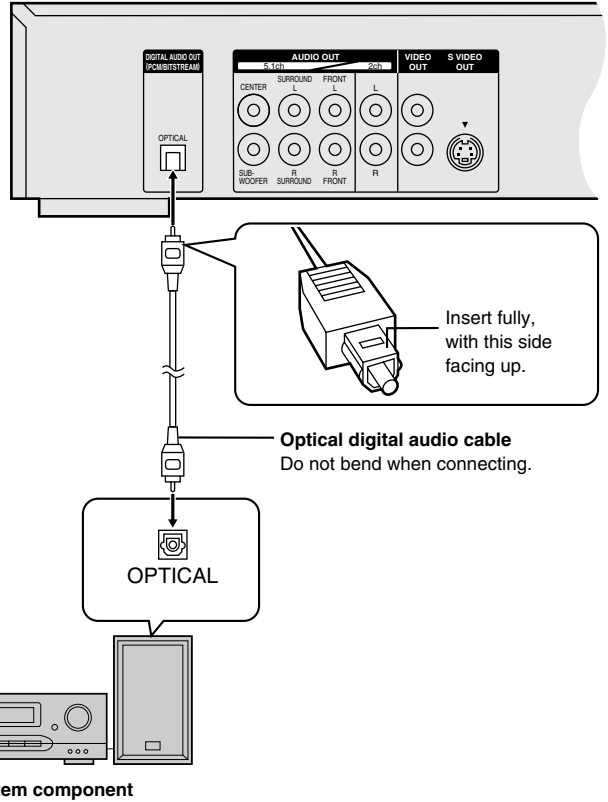
**To enjoy stereo or Dolby Pro Logic****A Analog connection**

Connect an analog amplifier or system component.

**B Digital connection**

Connect a digital amplifier or system component.

Change "Digital output" (⇒ page 20).

**To enjoy Dolby Pro Logic**

- If you connect an amplifier that can decode Dolby Pro Logic, you will also need to connect center and surround speakers to enjoy surround sound. Read the instructions for the equipment for connection details.
- Turn Advanced Surround off (⇒ page 10). Dolby Pro Logic will not function correctly if Advanced Surround is on.

**Recording to MDs or cassette tapes****■ Analog recording**

You can record to an MD or cassette deck. Using analog connection means sound will be unaffected by the copy guards found on DVDs.

**To make an analog recording**

Connect the recording equipment with an audio cable (⇒ A above).

**■ Digital recording**

You can record the digital signal directly onto an MD.

The signals on DVDs will be converted to 48 kHz/16 bit linear PCM.

Ensure the following conditions are met.

- There is no copy guard recorded on the disc.
- The recording equipment can handle a sampling frequency of 48 kHz.

**To make a digital recording**






1. Connect the recording equipment with an optical digital audio cable (⇒ B above).
2. When recording DVDs, make the following settings.  
 ADVANCED SURROUND V.S.S.: OFF (⇒ page 10)  
 PCM Down Conversion: Yes (⇒ page 20)  
 Dolby Digital/DTS Digital Surround/MPEG: PCM (⇒ page 20)

MPEG: Not available in Asia.

# Changing settings

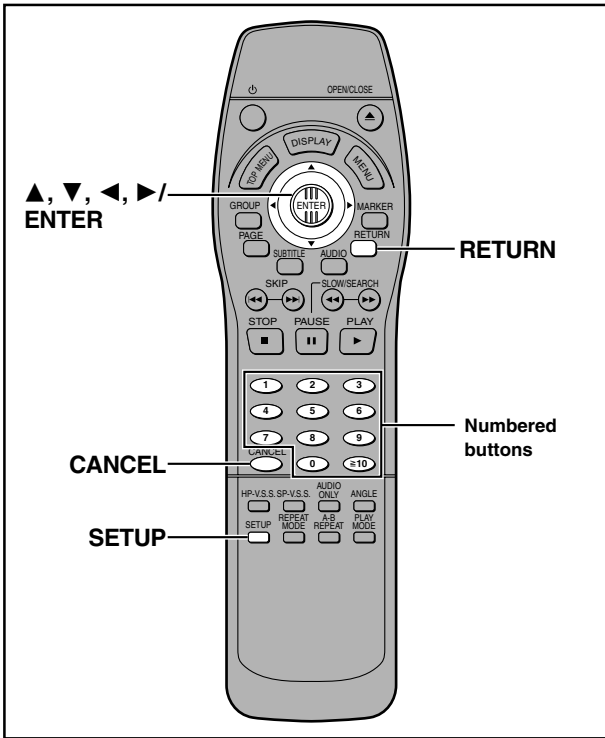
This chart shows the settings for this unit. Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See page 19 for details on menu operation.

• Underlined items are the factory preset.

Menus	Items	Options
	<b>Audio</b> <u>DVD-A</u> <u>DVD-V</u> Choose the preferred audio language.	<u>English</u> French    German    Italian Spanish    Original <sup>#1</sup> Other **** <sup>#2</sup>
	<b>Subtitle</b> <u>DVD-A</u> <u>DVD-V</u> Choose the preferred subtitle language.	<u>Automatic</u> <sup>#3</sup> English    French    German Italian    Spanish    Other **** <sup>#2</sup>
	<b>Menus</b> <u>DVD-A</u> <u>DVD-V</u> Choose the preferred language for disc menus.	<u>English</u> French    German    Italian Spanish    Other *** <sup>#2</sup>
	<b>Ratings</b> <u>DVD-V</u> Set a ratings level to limit DVD-Video play. • The password screen is shown if you choose levels 0 to 7 or if you choose "Ratings" when levels 0 to 7 have been selected. (⇒ page 19) • Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.	<b>Setting ratings (When level 8 is selected)</b> <u>8 No Limit</u> 1 to 7 <sup>#4</sup> 0 Lock All <b>Changing ratings (When level 0-7 is selected)</b> Unlock Player    Change Level Change Password    Temporary Unlock
	<b>TV Aspect</b> (⇒ page 5) Choose the setting to suit your television and preference.	<u>4:3 Pan&amp;Scan</u> 4:3 Letterbox    16:9
	<b>(For the United Kingdom, Continental Europe and Russia)</b> <b>AV1 Output</b> (⇒ page 4) Choose the video signal format to be output from the AV1 SCART terminal.	<u>Video</u> S-Video    RGB
	<b>Still Mode</b> (⇒ page 21) Specify the type of picture shown when paused.	<u>Automatic</u> Field    Frame
	<b>NTSC Disc Output</b> Choose whether PAL 60 or NTSC signals are output during playback of NTSC discs (⇒ page 6).	<u>PAL60</u> : when connected to a PAL television. NTSC: when connected to an NTSC television. (For Asia: "NTSC" is the factory preset.)
	<b>Speaker Setting</b> <u>DVD-A</u> <u>DVD-V</u> (⇒ page 19) Choose the settings to suit your audio system and the listening environment.	<u>Multi-channel</u> <sup>#5</sup> Speaker presence and size Delay time    Channel balance 2-channel <sup>#6</sup>
	<b>PCM Down Conversion</b> <u>DVD-A</u> <u>DVD-V</u> (⇒ page 20)	<u>No</u> Yes
	<b>Dolby Digital</b> <u>DVD-A</u> <u>DVD-V</u> (⇒ page 20)	<u>Bitstream</u> PCM
	<b>DTS Digital Surround</b> <u>DVD-A</u> <u>DVD-V</u> (⇒ page 20)	<u>PCM</u> Bitstream
	<b>(For the United Kingdom, Continental Europe, Russia, Australia and N.Z.) MPEG</b> <u>DVD-A</u> <u>DVD-V</u> (⇒ page 20)	<u>PCM</u> Bitstream
	<b>D. Range Compression</b> <u>DVD-A</u> <u>DVD-V</u> (Dolby Digital only) Change the dynamic range for late night viewing.	<u>Off</u> On
	<b>Audio during Search</b> <u>DVD-A</u> <u>DVD-V</u> <u>VCD</u> Choose whether to have sound during search.	<u>On</u> Off <sup>#7</sup>
	<b>Menu Language</b> Choose the preferred language for these menus and the on-screen messages.	<u>English</u> Français    Deutsch Italiano    Español <b>For Asia:</b> <u>English</u> 中文
	<b>On-Screen Messages</b> Choose whether to show on-screen messages or not.	<u>On</u> Off
	<b>DVD-Video Mode</b> Select how to play pictures contained on some DVD-Audio. <sup>#8</sup> The setting returns to "Off" when you remove the disc or turn the unit off.	<u>Off</u> On
	<b>Demo</b> A demonstration of the unit's on-screen displays starts when you select "On". The demonstration stops when you press a button and the setting reverts to "Off".	<u>Off</u> On

## Remarks

- <sup>#1</sup>The original language of each disc will be selected.  
<sup>#2</sup>Input a code number with the numbered buttons (⇒ page 23).  
<sup>#3</sup>If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.  
<sup>#4</sup>Prohibits play of DVD-Video with corresponding ratings recorded on them.  
<sup>#5</sup>When you have connected 3 or more speakers.  
<sup>#6</sup>When you have connected 2 speakers or an amplifier with a Dolby Pro Logic decoder.  
<sup>#7</sup>Audio will still be heard during search with some DVD-Audio.  
<sup>#8</sup>Off: DVD-Audio are played as DVD-Audio. On: DVD-Video contents found on DVD-Audio can be played.

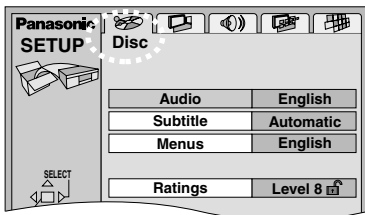


## Common procedures

### Remote control only

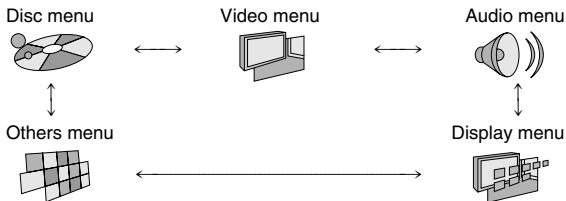
See page 18 for menu and option details.

#### 1 Press [SETUP] to show the menus.



#### 2 Move [◀, ▶] to select the menu's tab.

The screen changes to display the menu.



#### 3 Move [▲, ▼] to select the item you want to change and press [ENTER].

#### 4 Move [▲, ▼] to select the option and press [ENTER].

The screen now shows the menu again.

### To return to the previous screen

Press [RETURN].

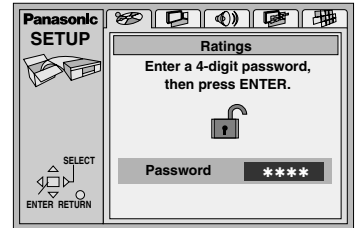
### When you are finished

Press [SETUP].

## Entering a password (Ratings)

### DVD-V

The password screen is shown when you select levels 0 to 7.



- Input a 4-digit password with the numbered buttons and press [ENTER].
  - If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
  - The lock symbol appears closed to show the rating is locked.
  - Do not forget your password.**
- Press [ENTER] to confirm the 4 digits.

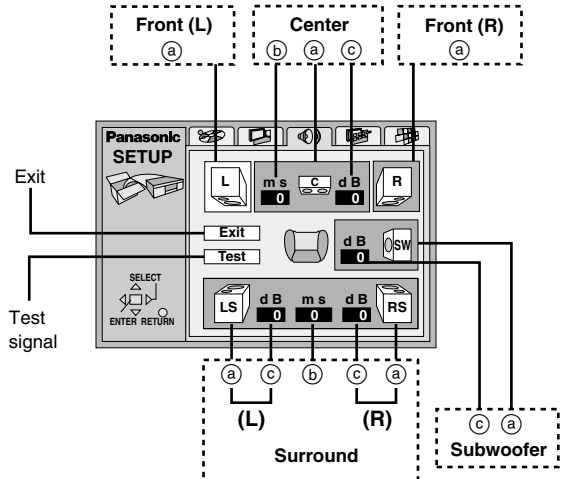
Now, when you insert a DVD-Video that exceeds the ratings limit you set, a message appears on the television. Follow the on-screen instructions.

## Speaker setting

### DVD-A DVD-V

Change **speaker presence and size** (a), **delay time** (b), and **channel balance** (c) to suit the speakers you have connected.

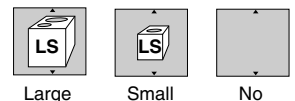
These settings are not necessary when you select "2-channel" (only two speakers are connected).



### Speaker presence and size (a)

- Use [▲, ▼, ▶, ◀] to select the item and press [ENTER].
- Move [▲, ▼] to select the setting and press [ENTER].

Icon examples: Surround speaker (L)



Large

Small

No

**Large:** When the speaker supports low-frequency (under 100 Hz) reproduction.

**Small:** Select when the speaker does not support low-frequency reproduction.

The size setting for the front speakers is automatically determined by the setting for the subwoofer.

(Continued on next page) 19

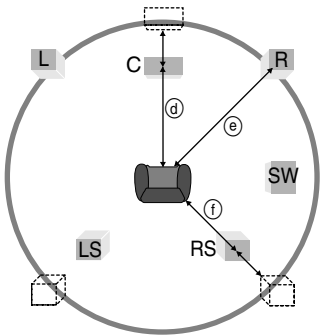
## Delay time (b)

### DVD-V (Dolby Digital, center and surround speakers only)

For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.

If distance (d) (from the center speaker) and (f) (from the surround speakers) are the same as or greater than (e) (from the front speakers), leave the delay time as "0", the factory preset.

If either distance (d) or (f) is less than (e), find the difference in the relevant table and change to the recommended setting.



### Changing the delay time

- Use [▲, ▼, ◀, ▶] to select the delay time box and press [ENTER].
- Move [▲, ▼] to adjust the delay time and press [ENTER].

#### •Center speaker

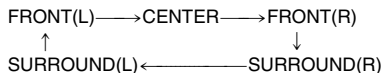
Difference	Setting
Approx. 50 cm	1.3 ms
Approx. 100 cm	2.6 ms
Approx. 150 cm	3.9 ms
Approx. 200 cm	5.3 ms

#### •Surround speakers

Difference	Setting
Approx. 200 cm	5.3 ms
Approx. 400 cm	10.6 ms
Approx. 600 cm	15.9 ms

## Channel balance (c)

- Use [▲, ▼, ◀, ▶] to select "Test" and press [ENTER].  
A test signal is output from one speaker at a time, starting with the front left speaker and proceeding clockwise.



- While listening to the test signal, move [▲, ▼] to adjust the volume of the center and surround speakers so they are the same apparent volume as the front speakers.  
(The front speakers cannot be adjusted here.)
- Press [ENTER].  
The test signal stops.

### Note

No signal is output for the subwoofer. To adjust its volume, play something, then return to this screen to adjust to suit your taste.

### When you are finished

Use [▲, ▼, ◀, ▶] to select "Exit" and press [ENTER].

### Note

The unit may be unable to output as set here due to limitations imposed by the unit itself or the disc being played. (The FL display's "P.PCM" indicator lights or "D.MIX" indicator goes out in these cases.)

## Digital output

### DVD-A DVD-V

Change the settings when you have connected equipment through this unit's DIGITAL AUDIO OUT terminal (OPTICAL).

## PCM Down Conversion

Select how to output the high-quality audio signals (sampling frequencies of 96 kHz and 88.2 kHz) on discs that do not have copyright protection. Choose the settings to suit the equipment you have connected.

Equipment (Able to handle 88.2 kHz or more)	Setting	Audio output
Yes	No	Output as is
No	Yes	Down-sampled to 48 kHz or 44.1 kHz

### Note

- Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment's operating instructions for details.
- Signals are down-sampled to either 48 kHz or 44.1 kHz despite the above settings if they have a sampling frequency of 176.4 kHz or more or are copyright protected.

## Dolby Digital, DTS Digital Surround and MPEG\*

**Bitstream:** Select if the equipment you connected can decode the signal. (Factory preset for Dolby Digital)

**PCM:** Select if the equipment you connected cannot decode the signal. (Factory preset for DTS Digital Surround and MPEG)

### IMPORTANT

If the equipment you connected cannot decode the signal, the setting must be changed to PCM. If not, signals the equipment cannot process will be output by this unit, causing high levels of noise which can damage your hearing and the speakers.

\*MPEG: Not available in Asia.

### Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

### Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

### AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

### Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

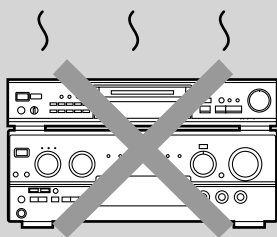
### Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

### Do not place the unit on amplifiers or equipment that may become hot.

The heat can damage the unit.



### Maintenance

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

### Bitstream

This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

### Decoder

A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

### Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

### Dolby Pro Logic

A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

### DTS (Digital Theater Systems)

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

### Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

### Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.

A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

### I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.

#### I: Intra coded picture (I-picture)

This is the standard picture and is a complete picture in itself.

This means it has the best picture quality and is the best to use when adjusting the picture.

#### P: Predictive coded picture (P-picture)

This picture is calculated based on past I or P-pictures.

#### B: Bidirectionally-predictive coded picture (B-picture)

This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

### Linear PCM (pulse code modulation)

PCM is the usual digital method used for music CDs. DVDs have a greater volume so they use linear PCM, which has a higher sampling rate. Compressed PCM signals are called packed PCM (PPCM).

### Playback control (PBC)

If a Video CD has playback control, you can select scenes and information with menus (called menu play in these instructions).

# Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Reference pages are shown as black circled numbers ④.

## Power

<b>No power.</b>	<ul style="list-style-type: none"> <li>● Insert the AC mains lead securely into the household mains socket. ④</li> </ul>
<b>The unit is automatically switched to the standby mode.</b>	<ul style="list-style-type: none"> <li>● To conserve power, the unit automatically switches to standby after approximately 30 minutes in the stop mode. Turn the power back to ON.</li> </ul>

## Operation

<b>No response when buttons pressed.</b>	<ul style="list-style-type: none"> <li>● Some operations may be prohibited by the disc.</li> <li>● The unit may not be operating properly due to lightning, static electricity or some other external factor. <b>Reset procedure:</b> Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.</li> </ul>
<b>No operations can be performed with the remote control.</b>	<ul style="list-style-type: none"> <li>● Check the batteries are installed correctly. ⑤</li> <li>● The batteries are depleted: Replace them with new ones. ⑤</li> <li>● Point the remote control at the remote control sensor and operate. ⑤</li> </ul>
<b>Play fails to start even when [▶] (PLAY) is pressed. Play starts but then stops immediately.</b>	<ul style="list-style-type: none"> <li>● Condensation has formed: Wait 1 to 2 hours for it to evaporate.</li> <li>● This unit cannot play discs other than DVD-Audio, DVD-Video, Video CD and CD. ⑥</li> <li>● You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.</li> <li>● The disc may be dirty and may require cleaning.</li> <li>● Ensure that the disc is installed with the label of the side to be played facing upwards. ⑦</li> </ul>
<b>Alternative languages fail to be selected.</b>	<ul style="list-style-type: none"> <li>● An alternative language is not selected with discs which do not contain more than one language.</li> <li>● In the case of some discs, the alternative language cannot be selected with [AUDIO] or [SUBTITLE]. Try selecting it from the disc's menu if one is available. ⑦</li> </ul>
<b>No subtitles.</b>	<ul style="list-style-type: none"> <li>● Subtitles appear only with discs that contain them.</li> <li>● Subtitles are cleared from the television. Display the subtitles. ⑧</li> </ul>
<b>Soundtrack and/or subtitle language is not the one selected with the SETUP menus.</b>	<ul style="list-style-type: none"> <li>● The language is not recorded on the disc.</li> </ul>
<b>Angle cannot be changed.</b>	<ul style="list-style-type: none"> <li>● This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only. ⑧</li> </ul>
<b>Dialogue Enhancer has no effect.</b>	<ul style="list-style-type: none"> <li>● This feature does not work when the unit is outputting bitstream signals.</li> </ul>
<b>You have forgotten your ratings password. Reset all the settings to Factory Preset.</b>	<ul style="list-style-type: none"> <li>● While stopped, press and hold [◀◀] and [■] on the unit and then also press and hold [▲] on the unit until "Initialized" disappears from the television. Turn the unit off and on again. All initial settings will return to the default values.</li> </ul>

## Sound

<b>No sound. Distorted sound.</b>	<ul style="list-style-type: none"> <li>● Check the connections. ④ ⑯ ⑰</li> <li>● Check the volume on the equipment you have connected.</li> <li>● Ensure that the input settings for the television and stereo system are correct.</li> <li>● If you have connected this unit to an amplifier through the AUDIO OUT (5.1 ch) terminals, go to the Audio menu in the SETUP menus, and change "Speaker Setting" to suit your speakers. Select the large or small icon for all the speakers you have connected. ⑱</li> <li>● Turn Advanced Surround off if it causes distortion. ⑩</li> <li>● Output from this unit will be in stereo (two channels) when Advanced Surround is on. Turn Advanced Surround off if you are using three or more speakers. ⑩</li> <li>● Due to the specifications on some types of televisions, both video and audio may be cut off when you turn the AUDIO ONLY feature on. ⑩</li> <li>● If the "D.MIX" indicator on the FL display goes out while playing a multi-channel DVD-Audio disc, sound will only be output from speakers specified by the disc. Read the disc's instructions for details.</li> </ul>
<b>Piercing noise comes from the speakers.</b>	<ul style="list-style-type: none"> <li>● If you have connected this unit to other equipment through the DIGITAL AUDIO OUT terminal, ensure you have selected the correct settings for "Dolby Digital", "DTS Digital Surround" and "MPEG" in the SETUP menu's Audio menu. ⑳</li> </ul>

## Picture

Picture distorted.	<ul style="list-style-type: none"> <li>Some distortion is normal during SEARCH.</li> <li>The screen may be disrupted briefly when you turn on and off the AUDIO ONLY feature. ⑩</li> </ul>
No picture.	<ul style="list-style-type: none"> <li>Ensure that the equipment is connected properly. ④</li> <li>Make sure the television is on.</li> <li>Ensure the television's video input setting (e.g., VIDEO 1) is correct.</li> </ul>
The picture shown on the television is not normal. (The sides of the picture are cut off or black bands appear at the top and bottom of the screen.)	<ul style="list-style-type: none"> <li>Go to the Video menu in the SETUP screen, and change "TV Aspect" to suit your television. You may also need to change the screen mode on the television itself. ⑤</li> <li>Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.</li> </ul>
Picture quality is poor.	<ul style="list-style-type: none"> <li>Check the settings in the GUI screen's video menu. ⑬</li> </ul>
The SETUP menus and other screens shown on the television are displayed incorrectly. Colors appear faded.	<ul style="list-style-type: none"> <li>The unit and television are using different video systems. <ul style="list-style-type: none"> <li><b>For the United Kingdom, Continental Europe, Russia, Australia and N.Z.</b> Use a multi-system or PAL television.</li> <li><b>For Asia</b> Use a multi-system or NTSC television.</li> </ul> </li> </ul>

## Displays

"NO PLAY" appears on the unit's display.	<ul style="list-style-type: none"> <li>You inserted a disc the unit cannot play; insert one it can. ⑥</li> </ul>
No on-screen display.	<ul style="list-style-type: none"> <li>Go to Display in the SETUP menus, and select "On" for "On-Screen Messages". ⑩</li> </ul>
GUI screens not displayed or only partially displayed on the television.	<ul style="list-style-type: none"> <li>Move [▲, ▼] while the rightmost icon is highlighted to move them down. ⑭</li> </ul>
The disc's menu is displayed in a different language.	<ul style="list-style-type: none"> <li>Go to Disc in the SETUP menus, and select the preferred language for "Menus". ⑬</li> </ul>
No menu play.	<ul style="list-style-type: none"> <li>Menus are only displayed if they are recorded on the disc.</li> </ul>
"CHECK THE DISC" appears on the unit's display.	<ul style="list-style-type: none"> <li>Disc is dirty. Wipe the disc clean.</li> </ul>
"ERROR" appears on the unit's display.	<ul style="list-style-type: none"> <li>The track playing has been recorded with a nonstandard system.</li> </ul>
"H□□" appears on the unit's display.  □□ stands for a number.	<ul style="list-style-type: none"> <li>Trouble is likely to have occurred. The number following "H" depends on the status of the unit. <b>Reset procedure:</b> Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.</li> <li>If the service numbers fail to clear, note the service number and contact a qualified service person.</li> </ul>
"NO DISC" appears on the unit's display.	<ul style="list-style-type: none"> <li>You haven't inserted a disc; insert one.</li> <li>You haven't inserted the disc correctly; insert it correctly. ⑦</li> </ul>

## Language code list

Abkhazian: 6566	Chinese: 9072	Hausa: 7265	Lithuanian: 7684	Romanian: 8279	Telugu: 8469
Afar: 6565	Corsican: 6779	Hebrew: 7387	Macedonian: 7775	Russian: 8285	Thai: 8472
Afrikaans: 6570	Croatian: 7282	Hindi: 7273	Malagasy: 7771	Samoan: 8377	Tibetan: 6679
Albanian: 8381	Czech: 6783	Hungarian: 7285	Malay: 7783	Sanskrit: 8365	Tigrinya: 8473
Ameharic: 6577	Danish: 6865	Icelandic: 7383	Malayalam: 7776	Scots Gaelic: 7168	Tonga: 8479
Arabic: 6582	Dutch: 7876	Indonesian: 7378	Maltese: 7784	Serbian: 8382	Turkish: 8482
Armenian: 7289	English: 6978	Interlingua: 7365	Maori: 7773	Serbo-Croatian: 8372	Turkmen: 8475
Assamese: 6583	Esperanto: 6979	Irish: 7165	Marathi: 7782	Shona: 8378	Twi: 8487
Aymara: 6588	Estonian: 6984	Italian: 7384	Moldavian: 7779	Sindhi: 8368	Ukrainian: 8575
Azerbaijani: 6590	Faroese: 7079	Japanese: 7465	Mongolian: 7778	Singhalese: 8373	Urdu: 8582
Bashkir: 6665	Fiji: 7074	Javanese: 7487	Nauru: 7865	Slovak: 8375	Uzbek: 8590
Basque: 6985	Finnish: 7073	Kannada: 7578	Nepali: 7869	Slovenian: 8376	Vietnamese: 8673
Bengali; Bangla: 6678	French: 7082	Kashmiri: 7583	Norwegian: 7879	Somali: 8379	Volapük: 8679
Bhutani: 6890	Frisian: 7089	Kazakh: 7575	Oriya: 7982	Spanish: 6983	Welsh: 6789
Bihari: 6672	Galician: 7176	Kirghiz: 7589	Pashto, Pushto: 8083	Sundanese: 8385	Wolof: 8779
Breton: 6682	Georgian: 7565	Korean: 7579	Persian: 7065	Swahili: 8387	Xhosa: 8872
Bulgarian: 6671	German: 6869	Kurdish: 7585	Polish: 8076	Swedish: 8386	Yiddish: 7473
Burmese: 7789	Greek: 6976	Laotian: 7679	Portuguese: 8084	Tagalog: 8476	Yoruba: 8979
Byelorussian: 6669	Greenlandic: 7576	Latin: 7665	Punjabi: 8065	Tajik: 8471	Zulu: 9085
Cambodian: 7577	Guarani: 7178	Latvian, Lettish: 7686	Quechua: 8185	Tamil: 8465	
Catalan: 6765	Gujarati: 7185	Lingala: 7678	Rhaeto-Romance: 8277	Tatar: 8484	

# Specifications

<b>Signal system:</b>	PAL 625/50, PAL 525/60, NTSC
<b>Operating temperature range:</b>	+5 to +35 °C
<b>Operating humidity range:</b>	5 to 90 % RH (no condensation)
<b>Discs played (8 or 12 cm):</b>	
(1) DVD-Video	DVD-R (DVD-Video compatible)
(2) DVD-Audio	
(3) CD-Audio (CD-DA)	
(4) Video CD	
(5) CD-R/CD-RW (CD-DA, Video CD formatted discs)	
(6) MP3	
	•Maximum number of chapters and titles recognizable: 999 chapters and 511 titles
	•Compatible compression rate: between 32 kbps and 320 kbps

<b>Video output:</b>	
Output level:	1 Vp-p (75 Ω)
Output terminal:	
<b>For the United Kingdom, Continental Europe and Russia</b>	Pin jack (2 systems)/AV1/AV2
<b>For Australia, N.Z. and Asia</b>	Pin jack (2 systems)

<b>S video output:</b>	
Y output level:	1 Vp-p (75 Ω)
C output level:	NTSC; 0.286 Vp-p (75 Ω) PAL; 0.300 Vp-p (75 Ω)
Output terminal:	
<b>For the United Kingdom, Continental Europe and Russia</b>	S terminal (1 system)/AV1
<b>For Australia, N.Z. and Asia</b>	S terminal (1 system)

<b>Component video output:</b>	<b>For Australia, N.Z. and Asia</b>
Y output level:	1 Vp-p (75 Ω)
P <sub>B</sub> output level:	0.7 Vp-p (75 Ω)
P <sub>R</sub> output level:	0.7 Vp-p (75 Ω)
Output terminal:	Pin jack (Y: green, P <sub>B</sub> : blue, P <sub>R</sub> : red)
Number of terminals:	1 system

<b>RGB video output:</b>	
<b>For the United Kingdom, Continental Europe and Russia</b>	
R output level:	0.7 Vp-p (75 Ω)
G output level:	0.7 Vp-p (75 Ω)
B output level:	0.7 Vp-p (75 Ω)
Output terminal:	AV1
Number of terminals:	1 system

<b>Audio output:</b>	
Output level:	2 Vrms (1 kHz, 0 dB)
Output terminal:	
<b>For the United Kingdom, Continental Europe and Russia</b>	Pin jack/AV1/AV2
<b>For Australia, N.Z. and Asia</b>	Pin jack
Number of terminals:	
2ch:	1 system
5.1ch discrete output (5.1ch):	1 system

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

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<b>Audio performance:</b>	
(1) Frequency response:	
•DVD (linear audio):	4 Hz–22 kHz (48 kHz sampling) 4 Hz–44 kHz (96 kHz sampling) 4 Hz–88 kHz (192 kHz sampling) 4 Hz–20 kHz
•DVD-Audio:	
•CD audio:	
(2) S/N ratio:	
•CD audio:	115 dB
(3) Dynamic range:	
•DVD (linear audio):	102 dB
•CD audio:	98 dB
(4) Total harmonic distortion:	
•CD audio:	0.0025 %

<b>Digital audio output:</b>	Optical digital output:	Optical terminal
<b>Phones jack:</b>		Stereo, 6.3 mm jack
<b>Pickup:</b>	Wave length:	658 nm/790 nm
	Laser power:	CLASS 2/CLASS 1
<b>NORSK</b>		
<b>Pickup:</b>	Bølgelengde:	658 nm/790 nm
	Laser-styrke:	Ingen farlig stråling sendes ut KLASSE 2/KLASSE 1

<b>Power supply:</b>	<b>For the United Kingdom, Continental Europe, Russia, Australia and N.Z.</b>
	AC 220–240 V, 50 Hz
	<b>For Asia</b>
	AC 110–240 V, 50/60 Hz
<b>Power consumption:</b>	15 W
<b>Dimensions:</b>	430 (W)×248 (D)×82 (H) mm (excluding protrusions)
<b>Mass:</b>	2.6 kg

**Power consumption in standby mode:** approx. 4 W

**Note**  
Specifications are subject to change without notice.  
Mass and dimensions are approximate.

**For the United Kingdom, Continental Europe, Russia, Australia and N.Z.**

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

**For Asia**

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

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