

DVD/CD PLAYER

Operating Instructions

Model No. **DVD-S75**



Panasonic®

Region number supported by this player

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

For the United Kingdom, Continental Europe, the Middle East and South Africa

- 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:



Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully, before connecting, operating or adjusting this product. Please keep this manual for future reference.

Note

"EB" on the packaging indicates the United Kingdom.

E EB EE GCS GCU GCA GN

RQT6627-B



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Caution for AC Mains Lead

(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

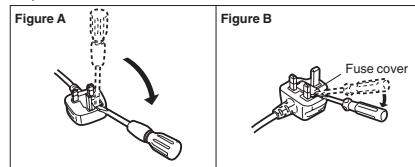
Remove the connector cover.

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.



2. Replace the fuse and close or attach the fuse cover.

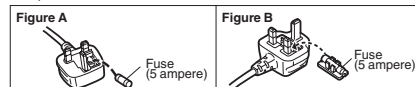
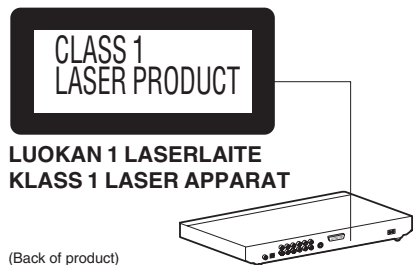


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(Back of product)
(The illustration shows the unit for the United Kingdom.)

CAUTION	- LASER RADIAATION WHEN OPEN. DO NOT STARE INTO BEAM.	DISC 13 (CINEMA)
CAUTION	- VERBODEN TOEGANG LASER RADIAATION WENN GEOPENT. NICHT AUF DEN STRAHL RECHTS AUFMERKSAM!	DISC 13 (CINEMA)
ATTENTION	- PROHIBITION D'ACCES RAYONNEMENT LASER QUAND LA CARTOUCHE EST OUVERTE. NE PAS REGARDER LA LUMIERE PROJETEE!	DISC 13 (CINEMA)
ADVARSEL	- SPILLET OG UDBRUGSBEHOLDNINGEN VED ÅBNING UDGÅR UDSTRÅLING. SE IKKE PÅ UDSTRÅLINGEN!	DISC 13 (CINEMA)
VARO!	- AVSTRÅLNING AV LASERLÅSSTRÅLNING VID ÅBNING AV LASERSTRÅLNING. ÅLÅ KÄRÅT ÅNDRÅSSEEN.	DISC 13 (CINEMA)
VARO!	- SPILLET OG UDBRUGSBEHOLDNINGEN NÅR DEN ER ÅBNET, UDBRUGSBEHOLDNINGEN ÅLÅ SE PÅ UDSTRÅLINGEN!	DISC 13 (CINEMA)
ADVARSEL	- SPILLET OG UDBRUGSBEHOLDNINGEN NÅR DEN ER ÅBNET, UDBRUGSBEHOLDNINGEN ÅLÅ SE PÅ UDSTRÅLINGEN!	DISC 13 (CINEMA)
VORSICHT!	- SPILLET OG UDBRUGSBEHOLDNINGEN NÅR DEN ER ÅBNET, UDBRUGSBEHOLDNINGEN ÅLÅ SE PÅ UDSTRÅLINGEN!	DISC 13 (CINEMA)
注意	- 打开时有可能及不可见激光辐射。避免激光直射。 注意：一旦激光直射眼睛，请立即就医。 DISC 13 (CINEMA)	DISC 13 (CINEMA)

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

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Accessories



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

- 1 Remote control (N2QAJB000067)
- 1 AC mains lead
The United Kingdom (RJA0053-3X)
Australia and N.Z. (RJA0035-2X)
Other areas (RJA0019-2X)
- 1 Audio/video cable (JAC3315N)
- 2 Remote control batteries

Note

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

For the United Kingdom and Republic of Ireland

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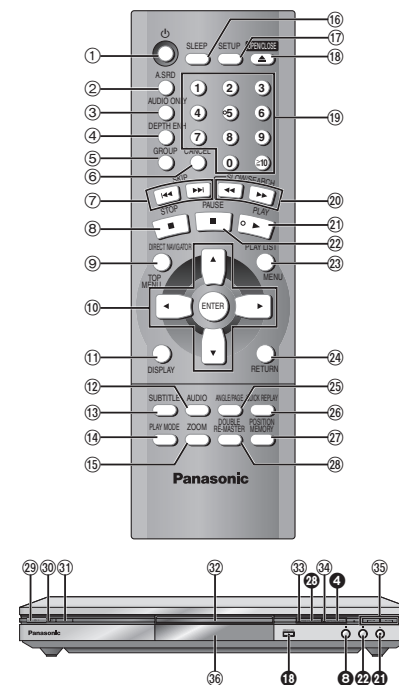
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For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.
For all other product related enquiries, please use the Customer Care Centre numbers listed above.

Control reference guide



Controls such as 1 function the same as those on the remote control.

1 Standby/on button (⏻)	7
2 Advanced Surround button (A.SRD)	13
3 Audio only button (AUDIO ONLY)	12
4 Depth Enhancer button (DEPTH ENH)	13
5 Group button (GROUP)	9
6 Cancel button (CANCEL)	14
7 Skip buttons (◀◀, ▶▶) SKIP	8
8 Stop button (■) STOP	8
9 Top menu, Direct navigator button (TOP MENU, DIRECT NAVIGATOR)	8, 11
10 Cursor buttons (▲, ▼, ◀, ▶), Enter button (ENTER)	7
11 Display button (DISPLAY)	15
12 Audio button (AUDIO)	12
13 Subtitle button (SUBTITLE)	12
14 Play mode button (PLAY MODE)	14
15 Zoom button (ZOOM)	13
16 Sleep button (SLEEP)	9
17 Setup button (SETUP)	7, 19
18 Open/Close button (▲ OPEN/CLOSE)	8
19 Numbered buttons (1-9, 0, ⏪)	8
20 Slow/Search buttons (◀◀, ▶▶) SLOW/SEARCH	8
21 Play button (▶) PLAY	8
22 Pause button (⏸) PAUSE	8
23 Menu, Play list button (MENU, PLAY LIST)	8, 11
24 Return button (RETURN)	7
25 Angle/Page button (ANGLE/PAGE)	9, 12, 13
26 Quick replay button (QUICK REPLAY)	9
27 Position memory button (POSITION MEMORY)	9
28 Double Re-master button (DOUBLE RE-MASTER)	13
29 Standby/on switch (⏻)	7
30 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.	
31 Standby indicator (⏻)	
32 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.	
33 Remote control signal sensor	
34 Disc tray	8
35 Double Re-master indicator	13
36 Depth Enhancer indicator	13
37 Skip/Slow/Search buttons (◀◀, ▶▶)	8
38 Display	

Getting started

Getting started

Connection

Before connection

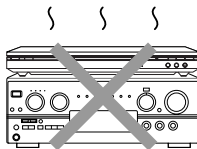
- Disconnect the AC mains lead.
- Turn off all equipment and read the appropriate operating instructions.

- The illustration shows the unit for the United Kingdom.
- The equipment connections described are examples.
- Peripheral equipment and optional cables sold separately unless otherwise indicated.

Connection to a television

This page explains how to connect the unit to a television and set it up so you hear the audio through the television's speakers. To get the full benefit from the powerful multi-channel audio found on DVDs, you should connect an amplifier and speakers.

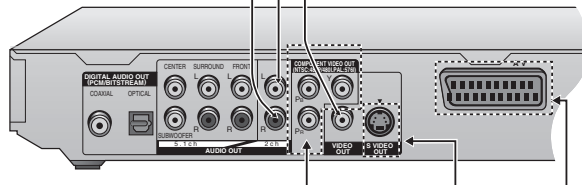
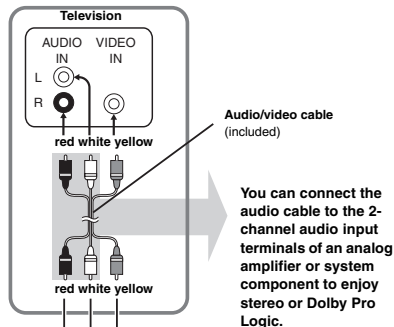
Do not place the unit on amplifiers or equipment that may become hot.
The heat can damage the unit.



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.

Basic connection



For better pictures

Television's COMPONENT VIDEO IN terminals
Video cable (not included)

COMPONENT VIDEO OUT terminal

These terminals can be used for either interlace or progressive output (→ page 7) and provide a purer picture than the S VIDEO OUT terminal. Connection using these terminals outputs the color difference signals (Pa/Pb) 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/Pa/Pb, Y/B-Y/R-Y, Y/Ca/Cb). Connect to terminals of the same color.

- When making this connection:
- Ensure you connect the audio cables to the corresponding audio input terminals on the television.

For the United Kingdom and Continental Europe

- Set "Video Out (AV/Component)" to "Y PB PR" from Quick Setup (→ page 7).

Television's S VIDEO IN terminal
S video cable (not included)

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.)

- When making this connection, ensure you connect the audio cables to the corresponding audio input terminals on the television.

For the United Kingdom and Continental Europe

Television's SCART IN terminal
21-pin SCART cable (not included)

SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Set "Video Out (AV/Component)" to "S-Video" or "RGB" from Quick Setup (→ page 7).

Home Theater – Enjoying more powerful sound

Enjoy the powerful movie theater and hall-like sound available with multiple channel audio found on DVDs by connecting an amplifier and speakers. There are two types of connection, digital and analog.

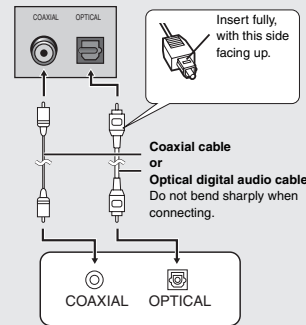
A Digital

Connect an amplifier with Dolby Digital, DTS and MPEG* decoders to enjoy surround sound. You can also enjoy high-quality stereo sound with sampling frequencies of 88.2 and 96 kHz if the material isn't copy-protected and the equipment you connect is compatible with these signals.

B Analog

Connect an amplifier with multi-channel audio input terminals to enjoy surround sound. This unit can decode Dolby Digital, DTS and MPEG*, and there are no limitations on sampling frequency with this kind of connection. To obtain maximum performance of DVD-Audio multi-channel linear PCM sound, the connections B below are recommended.

A Digital connection



Change "Digital output" (→ page 19).

- You can connect to a digital amplifier or system component to enjoy stereo or Dolby Pro Logic.

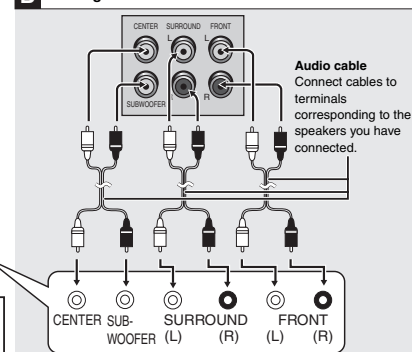


Speakers (example)

- Connect three or more speakers for surround sound.
- If you don't connect a subwoofer, it is advisable to connect front speakers (L/R) capable of producing bass of less than 100 Hz.



B Analog connection



Change "Speaker setting" (→ page 20).

- Switch the attenuator on if sound is distorted with this connection (→ page 17).

Recording output

Digital recording

Connection A to digital recording equipment

- With DVD, the following conditions must be met: (a) the disc doesn't have protection preventing digital recording, and (b) the recording equipment can handle signals with a sampling frequency of 48 kHz.
 - You cannot record WMA/MP3.
- When recording, make the following settings.
- Advanced Surround: OFF (→ page 13)
 - PCM Digital Output: Up to 48 kHz (→ page 19)
 - Dolby Digital/DTS Digital Surround/MPEG*: PCM (→ page 19)

* Units for the United Kingdom, Continental Europe, the Middle East, South Africa, Russia, Australia and N.Z.

Analog recording

There are no limitations on recording analog signals as there are with digital signals.

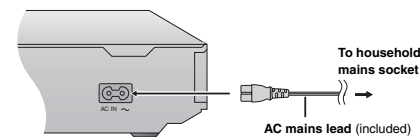
- Connect the equipment to the unit's 2-channel AUDIO OUT (L/R) terminals.
- or
- Select "2-channel" in "Speaker Setting" (→ page 18) when connecting the equipment to the unit's FRONT (L/R) 5.1-channel AUDIO OUT terminals.

Power connection

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.










Conserving power

This unit consumes a small amount of power, even when it is turned off (approx. 1.9 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket.



Disc information

Discs that can be played

DVD-RAM	DVD-Audio	DVD-Video	DVD-R	SVCD	Video CD	CD	CD-R/RW
 R RAM RAM 4.7 Shown as "DVD-VR" on the display		 	 R R 4.7	 Conforming to IEC62107		 	—
RAM	DVD-A	DVD-V		VCD		CD	WMA MP3 JPEG

Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly. Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit. It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-VR, CVD, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Built-in decoders

You can play discs with these symbols.



Video systems

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (→ page 18, Video—NTSC Disc Output).
- Output is interlace (576i) when playing PAL discs.

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 (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove discs from their cartridges before use and return them when you are finished, making sure that the labels of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, SVCD (conforming to IEC62107), WMA, MP3, or JPEG. Close the sessions or finalize the disc after recording.

See page 11 for more information about WMA, MP3, and JPEG.

HighMAT discs

This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

Disc structure

Disc structure and the labels given to the items on discs depend on the disc type.

Track: the smallest division on DVD-Audio, CDs and Video CDs, or a single WMA/MP3 file.

Chapter: the smallest division on DVD-Video.

Group: collections of tracks on DVD-Audio and equivalent to folders or albums on data discs.

Title: the largest division on DVD-Video, usually an entire movie.

Program: the division on DVD-RAM equivalent to a single recording.

Picture: a single JPEG file.

Play list: the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.

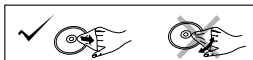
Scene: DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.

Content: covers tracks and pictures on HighMAT discs.

To clean discs

DVD-Audio, DVD-Video, Video CD, CD

Wipe with a damp cloth and then wipe dry.



DVD-RAM, DVD-R

• Clean with a DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).

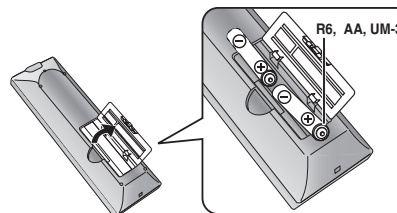
• Never use cloths or cleaners for CDs etc.

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.

The remote control

Batteries



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

Do not:

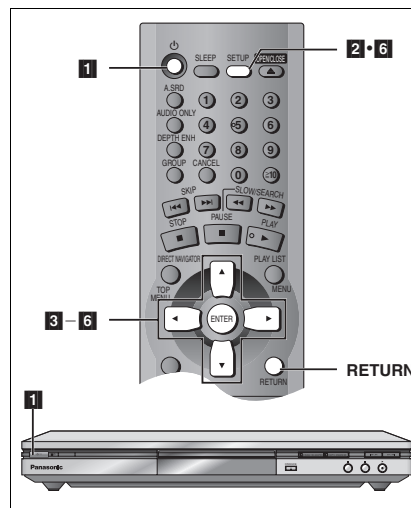
- mix old and new batteries.
 - use different types at the same time.
 - heat or expose to flame.
 - take apart or short circuit.
 - attempt to recharge alkaline or manganese batteries.
 - use batteries if the covering has been peeled off.
- Mishandling of batteries can cause electrolyte leakage which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

Use

Aim at the sensor (→ page 3, Control reference guide), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

Quick setup



The **QUICK SETUP** screen appears when you press [SETUP] the first time after purchase and assists you to make necessary settings.

Preparation

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

TV Aspect

Select "4:3" (regular) or "16:9" (widescreen) to suit your television. If you have a regular 4:3 television, you can also select how video on some discs is shown (→ page 18, Video—TV Aspect).

4:3 Pan&Scan (Factory preset)

Widescreen software is expanded to fill the screen of a 4:3 aspect television (unless prohibited by the producer of the disc).

4:3 Letterbox

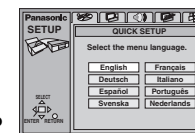
Widescreen software is shown in the letterbox style on a 4:3 aspect television.



1 Press [POWER] to turn on the unit.

2 Press [SETUP] to show the QUICK SETUP screen.

e.g. Units for the United Kingdom



3 Press [▲, ▼, ◀, ▶] to select the menu language and press [ENTER].

4 Press [▲, ▼] to select "Yes" to continue and press [ENTER].

5 Press [▲, ▼, ◀, ▶] to select the item and press [ENTER].

- Audio language (→ page 18)
- Subtitle language (→ page 18)
- TV Type (→ page 18)
- TV Aspect (→ below)
- Video Out (AV/Component)* (→ page 18)
- Progressive Out (Component) (→ below)
- Only displayed when setting "Video Out (AV/Component)" to "Y PB PR".*
- Speaker Setting (→ page 18)
- PCM Digital Output (→ page 19)

* Applies only to the United Kingdom and Continental Europe.

6 Press [ENTER] and then [SETUP] to end the settings.

To return to the previous screen

Press [RETURN].

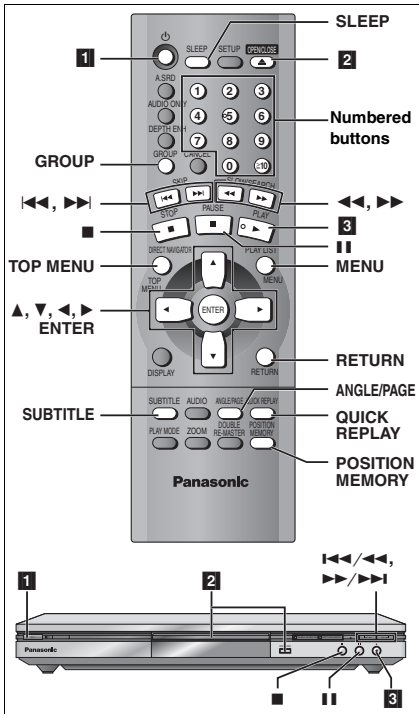
To access this screen again later

→ page 18, Others—QUICK SETUP

To enjoy progressive video

- Connect to the component video input terminals on a 480P compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
 - In QUICK SETUP, set "Video Out (AV/Component)" to "Y PB PR", and set "Progressive Out (Component)" to "Enable (NTSC Disc Only)".
 - When playing NTSC discs, change video output mode to "480P" (→ page 17).
- All televisions manufactured by Panasonic and that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.
 - If the unit is connected to the television through VIDEO OUT, S VIDEO OUT or SCART (AV), output will be interlace, irrespective of the settings.

Basic play



Preparation

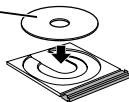
Turn on the television and select the appropriate video input on the television to suit the connections for the player.

1 Press [⏻] to turn on the unit.

If the disc contains both audio data (WMA and MP3) and JPEG, check the "Mixed Disc – Audio & Stills" in the SETUP menu (→ page 18). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

2 Press [▲] to open the disc tray and place the disc label-up on the disc tray.

- Load double-sided discs so the label for the side you want to play is facing up.



3 Press [▶] (PLAY).

The disc tray closes and play begins. It is normal for sound and pictures to take time to start.

[CD] (CD text only) [WMA] [MP3]

Track information appears on the television. Press [SUBTITLE] to turn the display on or off.

Stop	Press [■]. "⏻" flashes on the display. Press [▶] (PLAY) to restart from this position or [■] to clear it. DVD-Video: Press [▶] (PLAY) again to review chapters (→ page 9).
Pause	Press [⏪]. Press [▶] (PLAY) to restart.
Skip	Press [◀◀] (backward) or [▶▶] (forward). Group skip [JPEG] Press [▼] (backward) or [▲] (forward).
Search	Press [◀◀] (backward) or [▶▶] (forward). Press [▶] (PLAY) to restart play.
Slow-motion	While paused, press [◀◀] (backward) or [▶▶] (forward). Press [▶] (PLAY) to restart play.
Frame-by-frame	While paused, press [◀] (backward) or [▶] (forward). Press and hold to change in succession. Or, press [II] repeatedly for forward frame-by-frame.
Menus	Press [▲, ▼, ◀, ▶] to select an item and [ENTER] to confirm. Or, press the numbered buttons. Press [TOP MENU] to show the top menu. Press [MENU] to show a menu. Press [RETURN] to show a menu. [VCD]

Notes

- On the main unit, press [◀◀/▶▶] or [▶▶/▶▶] to perform skip, and press and hold to perform search and slow-motion.
- The speed of search and slow-motion increases up to 5 steps.
- Slow-motion and frame-by-frame only work on moving pictures.
- You can turn off the sound during search (→ page 18, Audio—Audio during Search).

When playing Video CDs

- You cannot move backwards during slow-motion and frame-by-frame.
- Pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

• If "⏻" appears on the television

- The operation is prohibited by the unit or disc.
- Discs continue to rotate while menus are displayed even after playing an item. Press [■] when you finish to preserve the unit's motor and your television screen.

Starting play from a selected item

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

Press the numbered buttons.

To select a 2-digit number
e.g. 23: [≧10] → [2] → [3]

[WMA] [MP3] [JPEG]

Press the numbered buttons then press [ENTER].

e.g. 123: [1] → [2] → [3] → [ENTER]

- This works only when stopped with some discs.
- When playing DVD-Audio and you want to start play from a track in a different group, select the group first (→ page 9).

Selecting groups to play

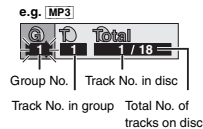
[DVD-A] [WMA] [MP3] [JPEG]

1 Press [GROUP].

2 Press [▲, ▼] to select the group number and press [ENTER].

3 Press [▲, ▼] to select the track/picture number and press [ENTER].

- You can also select the group and track/picture number with the numbered buttons.



DVD-A

- Playing all the groups in succession (→ page 14, All group play)
- Playing bonus groups

Some discs contain bonus groups. If a password screen appears after selecting a group, enter the password with the numbered buttons. Refer also to the disc's jacket.

Position Memory function

[RAM] [DVD-A] [DVD-V] [VCD] [CD] [WMA] [MP3]
(When the elapsed play time is displayed)
[JPEG]

Memorize positions on up to five discs to restart play after switching the unit to standby or changing discs.

During play

1 Press [POSITION MEMORY].

Flashes as you memorize a position.



2 Press [⏻] to switch the unit to standby or press [▲] to remove the disc.

3 When you are ready to play the disc again

Press [▶] (PLAY) to restart from the position.
(When playing DVD-Video → "Chapter Review" below)

- When you memorize the sixth position, the earliest position is replaced.
- This function does not work while playing some DVDs or play lists on DVD-RAM.

Chapter Review [DVD-V]

One of these messages appears.

Press PLAY to Preview Chapters

Press PLAY to Chapter Review

Press [▶] (PLAY) again to review the first few seconds of the chapters up to the one where you memorized the position. Play then resumes from the memorized position.
Do not press [▶] (PLAY) if you do not want to review chapters.

Replaying a scene—QUICK REPLAY

[RAM] [DVD-A] [DVD-V] [VCD] [CD] [WMA] [MP3]

Skip back a few seconds within the current item (program, track or title).

[JPEG]

Skip back a few pictures.

During play

Press [QUICK REPLAY].

- This feature may not work while playing some parts of a disc or at all with some discs.

Rotating pictures

[JPEG]

You can rotate pictures ninety degrees.

While a picture is displayed

1 Press [ANGLE/PAGE].

2 Press [▲, ▼] to select "Rotate right" or "Rotate left" and press [ENTER].

To clear the popup screen

Press [ANGLE/PAGE].

Setting the unit to turn off—SLEEP timer

Press [SLEEP] to select the setting.

Each time you press the button:



- OFF: Cancel
- AUTO: Turns the unit off 5 minutes after play finishes
- 60 min: Turns the unit off after 60 minutes
- 90 min: Turns the unit off after 90 minutes
- 120 min: Turns the unit off after 120 minutes

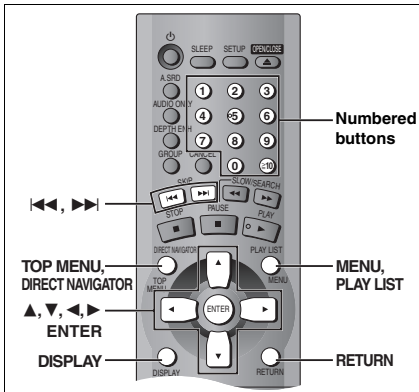
- AUTO also works with DVDs that show a menu after play finishes.
- AUTO does not work if you press [■], [MENU] or [TOP MENU]. It is activated again when you restart play.
- AUTO does not work correctly with some discs (e.g., if menus appear after playing Video CDs).

To confirm the remaining time

Press [SLEEP].

■ Auto standby

The unit switches to standby mode after about 30 minutes in the stop mode, irrespective of the SLEEP setting.



Playing WMA/MP3/JPEG and CD text

If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed Disc - Audio & Stills" in the SETUP menu (→ page 18). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

These menus help you find items to play.

[CD] (CD text only) [WMA] [MP3] [JPEG]

1 Press [TOP MENU].

e.g. [MP3]



e.g. [JPEG]



"□" indicates the track currently playing.

2 Press [▲, ▼] to select the track or [▲, ▼, ◀, ▶] to select the picture, and press [ENTER].

- To show other pages, press [▲, ▼, ◀, ▶] to select "Prev" or "Next" and press [ENTER].
- After listing all the tracks or pictures in one group, the list for the next group appears.

To exit the menu
Press [TOP MENU].

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.



WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.



HighMAT and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Track title search [CD] (CD text only) [WMA] [MP3]

Example: finding a track including the word "LOVE".

While the menu is displayed

- Press [▲, ▼] to select "Find" and press [ENTER].
- Press [▲, ▼] to select "L" and press [ENTER]. Only uppercase appear but the search also includes lower case. Characters change in alphanumeric order each time you press [▲, ▼].
 - Press [◀, ▶] to skip between A, E, I, O and U.
 - Press [◀] to erase a character.
 - You can erase the asterisk (*) to search for the first word in a title.
 - You can enter numbers with the numbered buttons. Repeat this step to enter "0", "V", and "E".
- Press [▶] to select "Find" and press [ENTER]. The search results screen appears.
- Press [▲, ▼] to select the track and press [ENTER].

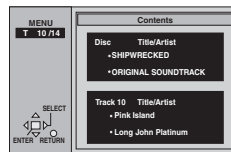


To use the contents screen to find a track [CD] (CD text only)

You can use the text information recorded on these discs to find a track to play.

While the menu is displayed

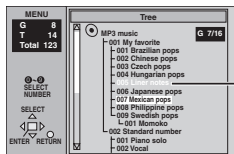
- Press [▶] while a track is highlighted to display the contents screen.
- Press [◀, ▶] to move through the tracks and press [ENTER].



To use the tree screen to find a group [WMA] [MP3] [JPEG]

While the menu is displayed

- [WMA] [MP3] Press [▶] while a track is highlighted to display a tree screen.
- [JPEG] Press [▲, ▼, ◀, ▶] to select "Tree" and press [ENTER].



You cannot select groups that contain no compatible files.

- Press [▲, ▼, ◀, ▶] to select a group and press [ENTER]. The audio navigation menu/album display for the group appears.

To return to the menu
Press [RETURN].

Note

WMA

- You cannot play WMA files that are copy protected.
- WMA files must have the extension ".WMA" or ".wma".

MP3

- This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.
- MP3 files must have the extension ".MP3" or ".mp3".

JPEG

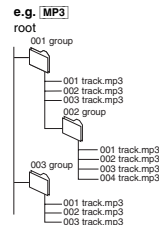
- To view JPEG files on this unit:
 - Take them on a digital camera that meets the DCF (Design rule for Camera File system) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture un-viewable.
 - Do not alter the files in any way or save them under a different name.
 - Ensure they have the extension ".JPG", ".jpg", ".JPEG", or ".jpeg".
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

[WMA] [MP3] [JPEG]

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).



Playing HighMAT discs

While the menu is displayed

Press [▲, ▼, ◀, ▶] to select then press [ENTER].



Menu: Takes you to the next menu which shows play lists or another menu



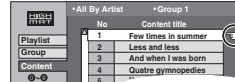
Play list: play starts

- To return to the menu screen
Press [TOP MENU].
- To return to the menu above the current one
Press [RETURN].
- To change the menu background
Press [DISPLAY]. The background changes to the one recorded on the disc.

■ Selecting from the lists

While playing

- Press [MENU].
 - Press [◀] then [▲, ▼] to switch between the play list, group and content lists.
 - Press [▶] then [▲, ▼] to select an item and press [ENTER].
- To exit the list screen
Press [MENU].

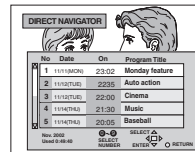


Playing the programs on DVD-RAM

RAM

Use the program list to find programs to play.

1 Press [DIRECT NAVIGATOR].



- Titles appear only if you have entered them.
- You cannot change program and disc titles.

2 Press [▲, ▼] to select the program.

- The selected program plays in the background.
 - You can select programs with the numbered buttons.
- To select a 2-digit number
e.g. 23: [2] [10] → [2] → [3]

3 Press [ENTER].

The program being played in the background continues.

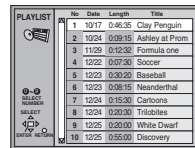
To clear the program list

Press [DIRECT NAVIGATOR].

Playing a play list

You can play a play list created on other equipment such as a DVD video recorder.

1 Press [PLAY LIST].



2 Press [▲, ▼] to select the play list.

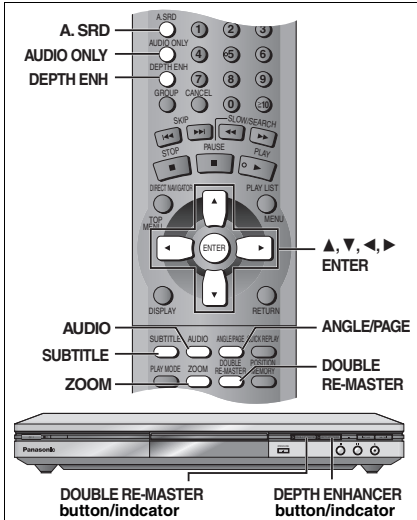
- You can select play lists with the numbered buttons.
- To select a 2-digit number
e.g. 23: [2] [10] → [2] → [3]

3 Press [ENTER] to start play.

- To skip scenes, press [◀] or [▶].

To clear the play list screen

Press [PLAY LIST].



Changing soundtracks, subtitles and angles

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

- "-" or "-" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.

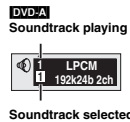
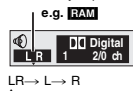
VCD (SVCD only)
 Soundtrack and subtitle numbers may change even if corresponding soundtracks are not recorded.

Soundtracks

RAM DVD-A DVD-V VCD

During play
 Press **[AUDIO]**.

RAM VCD
 Each time you press the button:



DVD-V
 The number changes each time you press the button.



- "D.MIX" indicates that a multi-channel soundtrack can be down-mixed to two channels.



- Play restarts from the beginning of the soundtrack when playing DVD-Audio and DVD-RAM 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.
- Refer to **[B]** (→ page 15) for audio signal type details.

Subtitles

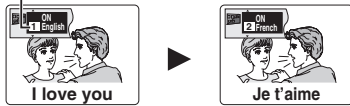
DVD-A (Moving picture part) **DVD-V VCD** (SVCD only)
 You can change the subtitle language and turn the subtitles on and off.

RAM
 You can turn the subtitles on and off.

During play
 Press **[SUBTITLE]**.

The number changes each time you press the button.

e.g. **DVD-V**



- In some cases, the subtitle language is not changed to the selected one immediately.

To clear/display the subtitles

1. Press **[SUBTITLE]**.
2. Press **[]**. **DVD-A DVD-V VCD**
3. Press **[▲, ▼]** to select "OFF" or "ON".

Changing the position and brightness of the subtitles

1. While the subtitle icon is on the screen, press **[◀, ▶]** to highlight "Subtitle Position" or "Subtitle Brightness".
 2. Press **[▲, ▼]** to adjust.
- Adjust position between 0 and -60 in 2 unit steps.
 - For brightness, select "Auto" so the brightness adjusts automatically against the background, or a level between 0 and -9.

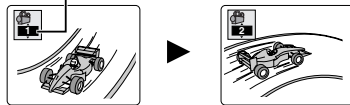


Angles

DVD-A (Moving picture part) **DVD-V**

During play
 Press **[ANGLE/PAGE]**.

The angle changes each time you press the button.



To enjoy even higher quality sound—AUDIO ONLY

RAM DVD-A DVD-V VCD CD WMA MP3

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

During play
 Press **[AUDIO ONLY]**.

- **AUDIO ONLY** is canceled if you press the button again or turn the unit off.

Note

- Video is output when you stop the disc and during operations such as search.
- The television screen can appear unusual while video signals are not being output.

Advanced Surround

RAM DVD-V VCD (2-channel or over only)

Enjoy a surround-like effect when using 2 front speakers (SP) or headphones (HP) (connect the unit to equipment that has a headphone jack). The effect broadens when playing discs with surround effects and sound seems to come from speakers either side of you.

Press **[A.SRD]**.

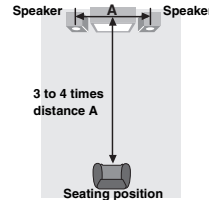
Each time you press the button:

- SP1/HP1: Natural effect
- SP2/HP2: Emphasized effect
- SP OFF/HP OFF: Cancel (Factory preset)

To change the mode

Press **[◀]** and then **[▲, ▼]** to select "SP" or "HP".

Optimum seating position



<When using the television's speakers>

Distance A = Television's width

- This does not work or has less effect with some discs.
- Turn off if it causes distortion.
- Do not use in combination with surround effects on other equipment.

Double Re-master – Enjoying more natural sound

RAM DVD-A DVD-V CD

Discs recorded with 2-channel LPCM at 44.1 kHz or 48 kHz
 This feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc.

WMA MP3

Discs recorded at 44.1 kHz or 48 kHz

This feature reproduces the frequencies lost during recording to give you a sound closer to the original.

During play
 Press **[DOUBLE RE-MASTER]**.

The indicator on the main unit lights.



Each time you press the button:

Setting	RAM DVD-A DVD-V CD Type of music	WMA MP3 Effect level
1	High tempo (e.g., pops and rock)	Light
2	Various tempos (e.g., jazz)	Medium
3	Low tempo (e.g., classical)	Strong
OFF	Off	Off

Note

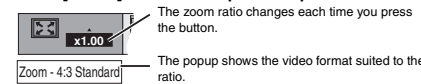
The actual output sampling frequency depends on "PCM Digital Output" setting when using a digital connection (→ page 19).

Variable Zoom function

RAM DVD-A (Moving picture part) **DVD-V VCD**

Change the zoom ratio so the picture expands to the optimum size to fill the screen.

During play
 Press **[ZOOM]** to select the preset aspect ratio.



4:3 Standard → European Vista → 16:9 Standard
 Cinemascope2 ← Cinemascope1 ← American Vista

Refer to the disc's instructions and "Screen size" below for the aspect ratio of the picture.

Making fine adjustments to the zoom ratio

While the **ZOOM** icon is displayed:

Press **[▲, ▼]**.

The ratio changes in 0.01 units between 1.00 and 1.60 and in 0.02 units between 1.60 and 2.00.

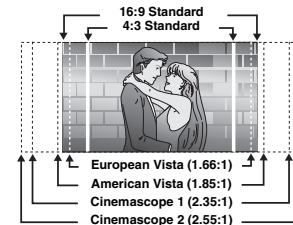
To restore the original ratio

Press **[ZOOM]** until the ratio returns to 1.00.

The ratio also returns to 1.00 when you open the disc tray or switch the unit to standby. The ratio may return to 1.00 when a menu is displayed.

Screen size

Movies are made using a variety of screen sizes.



Depth Enhancer

Reduce the rough noise in the background to give a greater feeling of depth.

Press **[DEPTH ENH]**.

The indicator on the main unit lights.

Each time you press the button:

0 → +1 → +2 → +3 → +4

- This does not work while using Cinema 1 or 2 (→ page 17, Picture mode).

Selecting still pictures—Page Skip

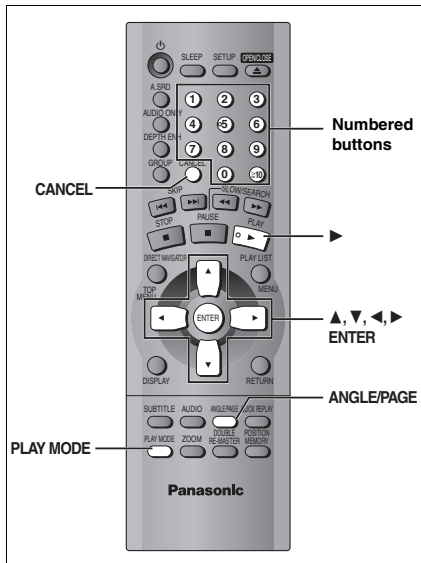
DVD-A

During play
 Press **[ANGLE/PAGE]**.

The page changes each time you press the button.

PAGE 1

Changing play sequence

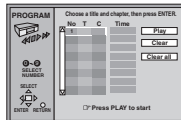


Program play

You can select up to 32 items to play in the order you choose.

1 Press the numbered buttons to select a group, title, or track (WMA MP3) then press [ENTER].

- Some items cannot be selected, DVD-V
- Repeat this step to program other items.
- Times are not displayed when programming DVD-Video and WMA/MP3.



2 Press [▶] (PLAY).

Some items will not be played even if you programmed them. DVD-V

To select using the cursor buttons

Press [ENTER] and [▲, ▼] to select an item, then press [ENTER] again to register. Select "ALL" to enter all items (on the disc or in the title or group).

Changing the program

- Press [▲, ▼] to select an item.
- To change an item, repeat step 1.
- To clear an item, press [CANCEL] (or select "Clear" and press [ENTER]).
- Press [ANGLE/PAGE] to skip items.

To clear the whole program

Select "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-A DVD-V

Press the numbered buttons to select a group or a title.

DVD-V
Some items cannot be selected.

DVD-A

- You can select more than one group. To enter all groups, select "All" using [◀, ▶] and press [ENTER].
- To deselect a group, press the numbered buttons corresponding to the group you want to clear.

2 Press [▶] (PLAY).



DVD-A DVD-V VCD CD WMA MP3

While stopped

Press [PLAY MODE].

The display changes each time you press the button.

All group (DVD-A) → Program → Random → Off (Normal)

DVD-A

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

All group play

DVD-A

The unit plays tracks in all the groups on a disc.

Press [▶] (PLAY).

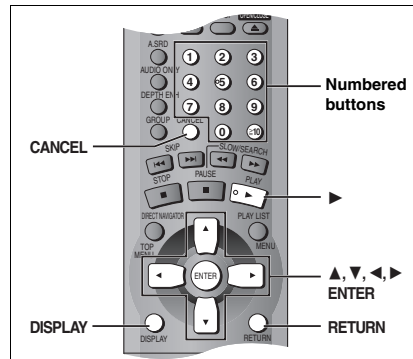
To exit the all group/program/random mode

Press [PLAY MODE] while stopped.

Note

Disable HighMAT disc play to use random and program play. From "Others" in the SETUP menu, set "HighMAT" to "Disable" (→ page 18) and reload the disc for the setting to be effective.

Using Graphical User Interface (GUI) screens



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

Common procedures

1 Press [DISPLAY].

Each time you press the button:

Disc information (→ right) → Progress indicator (→ page 17)

Original display ← Unit information (→ page 16-17)

2 [Unit information only]

While the leftmost icon is highlighted Press [▲, ▼] to select the menu.

Each time you press the button:

Play Menu ↔ Picture Menu ↔ Audio Menu ↔ Display Menu

3 Press [◀, ▶] to select the item.

4 Press [▲, ▼] to select the setting.

- Change items with "▲" or "▼" above and below with [▲, ▼] (press [ENTER] if the setting doesn't change).
- Change numbered items with the numbered buttons and press [ENTER].
- Depending on the condition of the unit (playing, stopped, etc.) and the type of software, there are some items that you cannot select or change.
- Read the following explanations for other items.

To clear the menus

Press [RETURN] until the menus disappear.

To change the position of the icons

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

A 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

Disc information

e.g. DVD-V
RAM PG: Program number PL: Play list number
DVD-V T: Title number C: Chapter number
VCD CD T: Track number
DVD-A WMA MP3
G: Group number T: Track number in group
JPEG G: Group number P: Picture number in group

Time [RAM DVD-A DVD-V]
 • Press [▲, ▼] to show the elapsed play time or remaining time for the program, play list, group, track or title (or chapter during program and random play).
 • Select a position to start play by specifying a time with the numbered buttons and press [ENTER].
Changing the time display [VCD CD]
 Press [▲, ▼] to show the elapsed play time, remaining time for the track, or remaining time for the disc.
Elapsed play time [VCD (SVC only) WMA MP3]
 For display only, cannot be changed.

Audio mode (→ page 12, Soundtracks)
Soundtrack language (→ A below)
Audio signal type (→ B below)
Karaoke vocal on/off (Karaoke DVD only) DVD-V
 Solo: OFF or ON
 Duet: OFF, V1 + V2, V1 or V2
Current bitrate [WMA MP3]
Current sampling frequency [WMA MP3]

Subtitle language (→ A below)
Subtitles on/off
 ON ↔ OFF
Track information on/off [CD] (CD text only) [WMA MP3]
 ON ↔ OFF
Picture information [JPEG]
 Date: Date of shooting.
 Full: Group title, picture title, picture size, file size, date of shooting, and camera model used*.
 OFF: No display.
 * Actual displays depend on the camera and data.

Angle number (→ page 12)

Total [WMA MP3]
Track number in disc/Total number of tracks on disc [JPEG]
Picture number in disc/Total number of pictures on disc

PBC **Menu play** [VCD]
 Indicates whether menu play (playback control) is on or off.

Still picture number [DVD-A]
 Selected picture is shown during play.
Slideshow setting [JPEG]
 ON ↔ OFF
Slideshow timing [JPEG]
 0 - 30 sec

B Signal type/data

LPCM/PPCM/DD Digital/DTS/MPEG: Signal type
 k (kHz): Sampling frequency
 b (bit): Number of bits
 ch (channel): Number of channels
 Example: 3/2_1ch
 L: 1: Low frequency effect (not displayed if there is no 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

Unit information



Play Menu

AB A-B repeat **RAM** **DVD-A** **DVD-V** **VCD** **CD** **WMA** **MP3**
(When the elapsed play time is displayed)
 Repeat a section between points A and B within an item.
 [ENTER] (start point) → [ENTER] (finish point)
 To cancel: [ENTER]
 • Subtitles recorded around A and B may fail to appear.
 • The end of an item becomes point B when it is reached.
 • A-B repeat is canceled when you press [QUICK REPLAY].

OFF Repeat mode
RAM **DVD-A** **DVD-V** **VCD** **CD** **WMA** **MP3**
(When the elapsed play time is displayed)
JPEG
RAM **DVD-A** **WMA** **MP3** **DVD-V**
 PG: Program T: Track C: Chapter
 A: All G: Group T: Title
 S: Scene*1 A: All*2 A: All*2
 PL: Playlist*1 OFF: Off
VCD **CD** **JPEG**
 T: Track G: Group
 A: All OFF: Off
 *1 During play list play.
 *2 During all group, program and random play.

If the Video CD has playback control
 1. Press [PBC] to clear "PBC" from the display.
 2. Press the numbered buttons to select a track to start play.
 3. Select an item to repeat.

To repeat only your favorite tracks/chapters
DVD-A **DVD-V** **VCD** **CD** **WMA** **MP3**
 Start program play (→ page 14) and display "A".

Play mode display **DVD-A** **DVD-V** **VCD** **CD** **WMA** **MP3**
 ---, Normal play PGM: Program play
 RND: Random play ALL: All group play (**DVD-A**)

Marker
RAM: 999 positions
DVD-A **DVD-V** **VCD** **CD** **WMA** **MP3** **JPEG**: 5 positions
 [ENTER] (The unit is now ready to accept markers.)
 To mark a position: [ENTER] (at the desired point)
 To mark another position: [◀] → [ENTER]
 To recall a marker: [▶] → [ENTER]
 To erase a marker: [▶] → [CANCEL]

RAM
To mark the eleven point and beyond
 1. Press [▶] to select the marker pin icon.
 2. Press [▲, ▼] to select "11-20".
 • You can select the next group when the current group is full.

3. Press [▶].
 • The markers are ordered by time. This means that the marker numbers can change when you add and erase markers.
 • If places have been marked (e.g., with a DVD video recorder), they are displayed.
 • You can clear existing markers, but they are restored when you open the disc tray or switch the unit to standby.
 • This feature doesn't work while using a play list.

Note
 • This feature doesn't work during program and random play.
 • Markers you add clear when you open the disc tray or switch the unit to standby.



Display Menu

4:3 Aspect
 Select how to show images made for 4:3 aspect screens on a 16:9 aspect television.
Normal: Laterally stretches images made for a 4:3 screen.
Auto: Expands suitable 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen.
Shrink: Images appear in the center of the screen.
Zoom: Expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect.

Zoom (→ page 13)
To select preset aspect ratio
 Press [ENTER] and then [◀, ▶] to select. Press [ENTER] to finish.

Subtitle Position/Subtitle Brightness (→ page 12)

Bit **Bitrate Display on/off**
RAM **DVD-A** (Moving picture part) **DVD-V** **VCD**
 When you select "ON":
 During play: Shows the average bitrate (approximate values) of the video being played
 While paused: Shows the data volume of the frame and type of picture (→ page 21, Glossary—I/P/B)

While the display is on, press [◀, ▶] to change the display:

Current bitrate Average bitrate A record of bitrates for a sampling period

OSD Brightness (-3 to +3)
 Adjust the brightness of the on-screen displays.

Unit information



Audio Menu

Advanced Surround (→ page 13)

Double Re-master (→ page 13)

Dialogue Enhancer
DVD-V (Dolby Digital, DTS, 3-channel or over only, where the dialogue is recorded in the center channel)
 This makes the dialogue in movies easier to hear.
 ON ↔ OFF (Factory preset)
 • This does not work or has less effect with some discs.

Attenuator (For analog connection)
 Switch on if sound is distorted.
 ON ↔ OFF (Factory preset)



Picture Menu

Picture mode
 N: Normal mode
 S: Soft mode (Soft picture with fewer video artifacts)
 F: Fine mode (Details are sharper)

C1 (Cinema1): Mellow images and enhances detail in dark scenes

C2 (Cinema2): Sharpens images and enhances detail in dark scenes

U1/U2/U3: User mode (→ right)

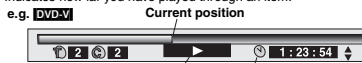
Video output mode
480i: Interlace video
480P: Progressive video
 (*: Progressive output not possible with PAL signals)
 • You can change the video output mode only when "Progressive Out (Component)" is set to "Enable (NTSC Disc Only)" and
 – For the United Kingdom and Continental Europe "Video Out (AV/Component)" is set to "Y PB PR" in the SETUP menu (→ page 18).

Transfer mode
 Select the method of conversion for progressive output to suit the type of material being played (→ page 21, Glossary—Film and video).
Auto 1 (normal): For viewing film material
Auto 2: For viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video)
Video: For video material

Progress indicator

Indicates how far you have played through an item.

e.g. **DVD-V**



Condition – play, pause, or slow/search

Changing the time display **RAM** **DVD-A** **DVD-V** **VCD** **CD**
 Press [▲, ▼] to show the elapsed play time or remaining time for the program, play list, track or title (or chapter during program and random play).

Elapsed play time **VCD** (SVCD only) **WMA** **MP3**
 For display only, cannot be changed.



Picture Menu

User mode
 Press [▶] while "U1", "U2" or "U3" is highlighted and then press [▲, ▼] to select "1", "2" or "3".

U1: MPEG D.N.R. (Digital Noise Reduction)

Depth Enhancer (→ page 13)

3D-NR (0 to +4)/Dot NR (On)
 Reduces overall noise/Reduces the dot noise that occurs at the borders between colors.

Block NR (0 to +3)
 Smooths block noise.

Mosquito NR (0 to +3)
 Reduces the smudging that appears around contrasting sections of the picture.

U2: Picture Control

Contrast (-7 to +7)
 Adjusts the contrast between light and dark parts of the picture.

Brightness (0 to +15)
 Adjusts the picture brightness.

Sharpness (-7 to +7)
 Adjusts the sharpness of the edges of the horizontal lines.

Colour (-7 to +7)
 Adjusts the shade of the picture's color.

Gamma (0 to +5)
 Adjusts the brightness of dark parts of the picture.

U3: Video output mode → left

Changing play speed **DVD-A** (Moving picture part) **DVD-V**

(Dolby Digital only)

You can slow down or speed up play.
 Press [◀] (slower) or [▶] (faster).

There are five speeds:

×0.8 ↔ ×0.9 ↔ ×1.0 (normal speed) ↔ ×1.2 ↔ ×1.4

• After you change the speed:

– Output is in stereo.

– Advanced Surround does not work.

– Digital output switches to PCM.






• Sound is stereo as long as "×1.0" is orange.

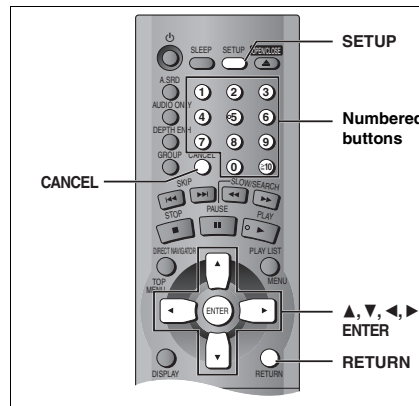
To return to normal play

Press [▶] (PLAY).

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. The changes remain intact even if you switch the unit to standby. See page 19 for operation.

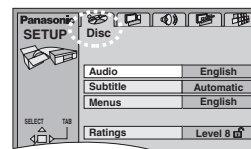
Menus	Items	Options (Underlined items are the factory preset.)	
	Audio Choose the audio language.	English Original ^{*1}	(Language options) Other * * * * *
	Subtitle Choose the subtitle language.	Automatic ^{*3}	English (Language options) Other * * * * *
	Menus Choose the language for disc menus.	English	(Language options) Other * * * * *
	Ratings (→ page 19) • 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. • Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.	Setting ratings (When level 8 is selected) 8 No Limit 0 to 7 ^{**} 0 Lock All Changing ratings (When level 0-7 is selected) Unlock Player Change Password Change Level Temporary Unlock	
	TV Aspect (→ page 7) Choose the setting to suit your television and preference.	4:3 Pan&Scan	4:3 Letterbox 16:9
	Progressive Out (Component) Choose "Enable (NTSC Disc Only)" to enable progressive output.	Disable	Enable (NTSC Disc Only)
	TV Type Select to suit the type of television.	Standard (Direct View TV)	CRT Projector LCD TV/Projector Projection TV Plasma TV
	Video Out (AV/Component) ^{*7} (→ page 7) Choose the video signal format to be output from the SCART (AV) and Component terminal. Choose "Y PB PR" when connecting using Component terminals for progressive output.	Video/Y PB PR	S-Video/Y PB PR RGB/No Output
	Still Mode Specify the type of picture shown when paused.	Automatic	Field Frame
	NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs (→ page 6, Video systems).	PAL60:	When connected to a PAL television NTSC: When connected to an NTSC television (For Asia: "NTSC" is the factory preset.)
	Speaker Setting (→ page 20) Choose the settings to suit your audio system and the listening environment.	Multi-channel: when 3 or more speakers are connected. • Speaker presence and size • Delay time • Channel balance 2-channel: when 2 speakers or an amplifier with a Dolby Pro Logic decoder is connected.	
	PCM Digital Output (→ page 19)	Off	Up to 48 kHz Up to 96 kHz Up to 192 kHz
	Dolby Digital (→ page 19)	Bitstream	PCM
	DTS Digital Surround (→ page 19)	PCM	Bitstream
	MPEG ^{*4} (→ page 19)	PCM	Bitstream
	Dynamic Range Compression (Dolby Digital only) Change the dynamic range for late night viewing.	Off	On
	Audio during Search ^{*8} Choose whether to have sound during search.	On	Off
		Menu Language Choose the language for these menus and the on-screen messages.	^{*4} English
On-Screen Messages Choose whether to show on-screen messages or not.		On	Off
FL Dimmer Changes the brightness of the unit's display.		Bright	Dim Auto: The display is dimmed during play, but brightens when you perform operations such as slow-motion, search, and pause.
	HighMAT Play HighMAT discs as HighMAT discs, or as regular WMA/MP3/JPEG discs. (Reload the disc for the setting to be effective.)	Enable:	Play HighMAT discs as HighMAT discs. Disable: Play HighMAT discs as regular WMA/MP3/JPEG discs.
	Mixed Disc—Audio & Stills Select which type of file the unit plays when playing a disc containing both JPEG and WMA/MP3. (Reload the disc for the setting to be effective.)	Audio (MP3/WMA)	Stills (JPEG)
	DVD-Video Mode Select how to play pictures contained on some DVD-Audio. The setting returns to "Off" when you remove the disc or turn the unit off.	Off:	DVD-Audio are played as DVD-Audio. On: You can play DVD-Video content on DVD-Audio.
	Demo	Off	On: A demonstration of the on-screen displays starts. Press any button to stop it.
	QUICK SETUP (→ page 7) Answer questions to make basic settings.	Yes	No



Common procedures

See page 18 for menu and option details.

1 Press [SETUP] to show the menus.



• The QUICK SETUP screen appears when you press [SETUP] the first time after purchase (→ page 7).

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

The screen changes to display the menu.

Disc ↔ Video ↔ Audio ↔ Display ↔ Others

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

4 Press [▲, ▼, ◀, ▶] to select the option and press [ENTER].

To return to the previous screen

Press [RETURN].

To exit the SETUP menu

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.
 - If you enter a wrong number, press [CANCEL] to erase it.
- 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.

Digital output

RAM DVD-A DVD-V VCD CD WMA MP3

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

PCM Digital Output

Select the maximum sampling frequency of PCM digital output. Check the digital input limitations of the equipment you connect.

- Off:** When not connected digitally
- Up to 48 kHz:** When connected to equipment compatible with 44.1 or 48 kHz (Factory preset)
- Up to 96 kHz:** When connected to equipment compatible with 88.2 or 96 kHz
- Up to 192 kHz:** When connected to equipment compatible with 176.4 or 192 kHz

Note

- Signals that exceed the set maximum frequency and signals from copy-protected discs are converted to 48 or 44.1 kHz.
- 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.

Dolby Digital, DTS Digital Surround and MPEG^{*4}

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

PCM (Factory preset for DTS Digital Surround and MPEG^{*4}):
Select if the equipment you connected cannot decode the signal.

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.

^{*1} The original language of each disc is selected.

^{*2} Input a code number with the numbered buttons (→ page 20).

^{*3} If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.

^{*4} Units for the United Kingdom, Continental Europe, the Middle East, South Africa, Russia, Australia and N.Z.

^{*5} Units for Asia.

^{*6} Prohibits play of DVD-Video with corresponding ratings recorded on them.

^{*7} Units for the United Kingdom and Continental Europe.

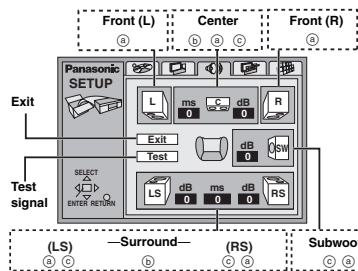
^{*8} Audio will be heard when playing some DVD-Audio despite the settings you make here.

Changing settings

Speaker setting

For analog connection (→ page 5)

Change speaker presence and size (ⓐ), delay time (ⓑ), and channel balance (ⓒ) to suit the speakers you have connected when you select "Multi-channel" (3 or more speakers are connected).



Speaker presence and size (ⓐ)

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

Icon examples:

Surround speaker (LS)



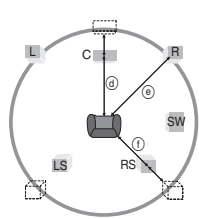
- **Large:** When the speaker supports low-frequency (under 100 Hz) reproduction.
- **Small:** Select when the speaker does not support low-frequency reproduction.

If the subwoofer is set to "No", the front speakers will automatically be set to "Large".

Delay time (ⓑ)

(Effective only when playing multi-channel discs)

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.



ⓐ 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

If distances ② (from the center speaker) and ① (from the surround speakers) are the same or greater than ① (from the front speakers), leave the delay time as "0", the factory preset.

If either distance ② or ① is less than ①, find the difference in the relevant table and change to the recommended setting.

Changing the delay time

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

Channel balance (ⓒ)

- Press [▲, ▼, ◀, ▶] 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.
Front (L) → Center → Front (R)
↓
Surround (LS) ← Surround (RS)
- While listening to the test signal, press [▲, ▼] to adjust the volume of the center and surround speakers so they are the same apparent volume as the front speakers (→ to +6).
(The front speakers cannot be adjusted here.)
- Press [ENTER].
The test signal stops.
● No signal is output for the subwoofer. To adjust its volume, play something, then return to this screen to adjust to suit your taste.

To finish the speaker setting

Press [▲, ▼, ◀, ▶] 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 display's "DMIX" indicator goes out in these cases.)

Language code list

Abkhazian: 6566	Byelorussian: 6669	Georgian: 7565	Kashmiri: 7583	Mongolian: 7778	Serbo-Croatian: 8372	Tigrinya: 8473
Afar: 6565	Cambodian: 7577	German: 6869	Kazakh: 7575	Nauru: 7865	Shona: 8378	Tonga: 8479
Afrikaans: 6570	Catalan: 6765	Greek: 6976	Kirghiz: 7589	Nepali: 7589	Sindhi: 8368	Turkmen: 8482
Albanian: 8381	Chinese: 9072	Greenlandic: 7576	Korean: 7579	Norwegian: 7879	Sinhalese: 8373	Turkmen: 8475
Ameharic: 6577	Corsican: 6779	Guarani: 7178	Kurdish: 7585	Oriya: 7982	Slovak: 8375	Tw: 8487
Arabic: 6582	Croatian: 7282	Gujarati: 7185	Laotian: 7679	Pashto, Pushto: 8083	Slovenian: 8376	Ukrainian: 8575
Armenian: 7289	Czech: 6783	Hausa: 7265	Latin: 7065	Persian: 7065	Somali: 8379	Urdu: 8582
Assamese: 6583	Danish: 6865	Hebrew: 7387	Latvian, Lettish: 7686	Polish: 8076	Spanish: 6983	Uzbek: 8590
Aymara: 6588	Dutch: 7876	Hindi: 7273	Lingala: 7678	Portuguese: 8084	Sundanese: 8385	Vietnamese: 8673
Azerbaijani: 6590	English: 6978	Hungarian: 7285	Lithuanian: 7684	Punjabi: 8085	Swahili: 8387	Volapik: 8679
Bashkir: 6665	Esperanto: 6979	Icelandic: 7383	Macedonian: 7775	Quechua: 8185	Swedish: 8386	Welsh: 6789
Basque: 6985	Estonian: 6984	Indonesian: 7378	Malagasy: 7777	Rhaeto-Romanic: 8277	Tagalog: 8476	Wolof: 8779
Bengali, Bangla: 6678	Faroese: 7079	Interlingua: 7365	Malay: 7783	Romanian: 8279	Tajik: 8471	Xhosa: 8872
Bhutan: 6890	Fiji: 7074	Irish: 7074	Hindi: 7165	Malayalam: 7776	Russian: 8285	Tamil: 8465
Bhutan: 6890	English: 6978	Italian: 7073	Maltese: 7784	Samoan: 8377	Tatar: 8484	Yoruba: 8979
Breton: 6682	French: 7082	Japanese: 7465	Maori: 7773	Sanskrit: 8365	Telugu: 8469	Zulu: 9085
Bulgarian: 6671	Frisian: 7089	Javanese: 7487	Marathi: 7782	Scots Gaelic: 7186	Thai: 8472	
Burmese: 7789	Galician: 7176	Kannada: 7578	Moldavian: 7779	Serbian: 8382	Tibetan: 6679	

Glossary

Bitstream

The digital form of multi-channel data (e.g. 5.1 channel) before decoding.

Decoder

A decoder restores coded audio signals on DVDs to normal.

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 multi-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 monoaural 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.

Film and video

DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

Specifications

Signal system: PAL 625/50, PAL525/60, NTSC

Operating temperature range: +5 to +35 °C

Operating humidity range: 5 to 90 % RH (no condensation)

Discs played (8 cm or 12 cm):

- (1) DVD-RAM (DVD-VR compatible)
- (2) DVD-Audio
- (3) DVD-Video
- (4) DVD-R (DVD-Video compatible)
- (5) CD-Audio (CD-DA)
- (6) Video CD
- (7) SVCD (Conforming to IEC62107)
- (8) CD-R/CD-RW (CD-DA, Video-CD, Super Video-CD formatted discs)
- (9) MP3/WMA

● Maximum number of tracks and groups recognizable: 999 tracks and 99 groups

● Compatible compression rate:
MP3: between 32 kbps and 320 kbps
WMA: between 48 kbps and 192 kbps

(10) JPEG

● Exif Ver 2.1 JPEG Baseline files
● Maximum number of pictures and groups recognizable: 3000 pictures and 300 groups

● Picture resolution: between 320 x 240 and 6144 x 4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)

(11) HighMAT Level 2 (Audio and Image)

Video output:

Output level: 1 Vp-p (75 Ω)

Output terminal:

For the United Kingdom and Continental Europe Pin jack (1 system)/AV Pin jack (1 system)

S-video output:

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:

For the United Kingdom and Continental Europe S terminal (1 system)/AV S terminal (1 system)

Component video output:

Y output level: 1 Vp-p (75 Ω)

Pb output level: 0.7 Vp-p (75 Ω)

Pr output level: 0.7 Vp-p (75 Ω)

Output terminal: Pin jack (1 system, Y, green, Pb, blue, Pr; red)

Frame still and field still

Frames are the still pictures that make moving pictures. About thirty are shown each second. A frame still may appear blurred but overall quality is high.

Two fields appear alternately to make up one frame. A field still is not blurred but picture quality is lower.

Interlace and progressive output

NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480P.

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

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

P: Predictive coded picture

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

B: Bidirectionally-predictive coded 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)

These are uncompressed digital signals, similar to those found on CDs.

RGB video output: For the United Kingdom and Continental Europe

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: AV

Audio output:

Output level: 2 Vrms (1 kHz, 0 dB)

Output terminal:

For the United Kingdom and Continental Europe Pin jack/AV

For others Pin jack

Number of terminals:

2 channel: 1 system

5.1-channel discrete output (5.1 channel): 1 system

Audio performance:

(1) Frequency response:

● DVD (linear audio): 4 Hz–22 kHz (48 kHz sampling)

4 Hz–44 kHz (96 kHz sampling)

● DVD-Audio: 4 Hz–88 kHz (192 kHz sampling)

● CD audio: 4 Hz–20 kHz

● CD audio: 115 dB

(2) S/N ratio:

● DVD (linear audio): 102 dB

● CD audio: 98 dB

(3) Dynamic range:

● DVD (linear audio): 102 dB

● CD audio: 98 dB

(4) Total harmonic distortion:

● CD audio: 0.0025 %

Digital audio output:

Optical digital output: Optical terminal

Coaxial digital output: Pin jack

Pickup:

Wave length: 658 nm/790 nm

Laser power: CLASS 2/CLASS 1

NORSK

Pickup: Belgelengde: 658 nm/790 nm

Laserstyrke: Ingen farlig stråling sendes ut

Power supply:

For Asia AC 220–240 V, 50/60 Hz

For others AC 220–240 V, 50 Hz

Power consumption: 17 W

Dimensions: 430 (W)×303 (D)×52 (H) mm

Mass: 2.7 kg

Power consumption in standby mode: approx. 1.9 W

Note

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

Troubleshooting guide

Before requesting service, make the following checks. 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 instruction.

Power		Page
No power.	●Insert the AC mains lead securely into the household mains socket.	5
The unit is automatically switched to the standby mode.	●The unit automatically switches to standby after approximately 30 minutes in the stop mode. Turn the power back to ON. ●The SLEEP timer functioned.	9

Operation		Page
No response when buttons pressed.	●Some operations may be prohibited by the disc. ●The unit may not be operating properly due to lightning, static electricity or some other external factor. Reset procedure: Press [⏻/I] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻/I] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.	– – –
No operations can be performed with the remote control.	●Check that the batteries are installed correctly. ●The batteries are depleted: Replace them with new ones. ●Point the remote control at the remote control sensor and operate.	7 7 3
Play doesn't start (or stops immediately) when you press [▶] (PLAY).	●Condensation has formed: Wait 1 to 2 hours for it to evaporate. ●This unit cannot play discs other than the ones listed in these operating instructions. ●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. ●The disc may be dirty and may require cleaning. ●Ensure that the disc is loaded with the label of the side to be played facing upwards. ●Check that the DVD-RAM has something recorded on it.	– 6 6 6 8 –
Cannot select alternative languages.	●This function depends on software availability. ●Try selecting from the disc's menu if one is available.	– 8
No menu play.	●This function depends on software availability.	–
No subtitles.	●This function depends on software availability. ●Subtitles are cleared from the television. Turn on the subtitles. ●Subtitle position is wrong. Adjust the position.	– 12 12
Soundtrack and/or subtitle language is not the one selected with the SETUP menus.	●This function depends on software availability.	–
Cannot change angle.	●This function depends on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only.	–
You have forgotten your ratings password.	●While stopped, press and hold [◀/▶/◀▶] and [I] 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. Reset all the settings to Factory Preset. All settings will return to the default values.	–
The unit does not play the data format set in "Mixed Disc – Audio & Stills" or "HighMAT" in the SETUP menu.	●Reload the disc for the setting to be effective. Press [▲] to open the tray, then press [▶] (PLAY) to start play.	–

Picture		Page
Picture distorted.	●Some distortion is normal during SEARCH.	–
Menu not displayed correctly.	●Restore the zoom ratio to ×1.00. ●Set the subtitle position to 0. ●Set 4:3 Aspect to "Normal".	13 12 16
No picture.	●Check the connection. ●Make sure the television is on. ●Ensure the television's video input setting (e.g., VIDEO 1) is correct.	4 – –
The picture shown on the television is not normal. (The sides of the picture are cut off, the picture is stretched horizontally, or black bands appear at the top and bottom of the screen.)	●Go to Video in the SETUP menus, and change "TV Aspect" to suit your television. ●Use the television to change the aspect to the correct one. If your television cannot change the aspect when input is progressive, try changing 4:3 Aspect with the GUI screen. ●Turn off the zooming feature of your television if you are using Variable Zoom. ●Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.	7, 18 – 16 13 4
There is ghosting when progressive output is on.	●Change video output mode to "480I". This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interface output.	17
Picture quality is poor.	●Check the settings in the GUI screen's Picture Menu. Units for the United Kingdom and Continental Europe When you are using the component video out terminals to connect to a television check to see if the "Video Out (AV/Component)" setting is set to "Y PB PR" in the SETUP menu.	17 18
The SETUP menus and other screens shown on the television are displayed incorrectly. Colors appear faded.	●The unit and television are using different video systems. Units for Asia Use a multi-system or NTSC television. Units for other areas Use a multi-system or PAL television.	–

Sound		Page
No sound.	●Check the connections.	4, 5
Distorted sound.	●Check the volume on the equipment you have connected. ●Ensure that the input settings on the other equipment are correct. ●Turn Advanced Surround off if it causes distortion. ●Turn Attenuator on if it causes distortion with analog connection. ●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. ●If you have connected this unit to an amplifier through the AUDIO OUT terminals, go to the Audio menu in the SETUP menu, and change "Speaker Setting" to suit to your speakers. Select the large or small icon for all the speakers you have connected. ●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. ●If the "D.MIX" indicator on the 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. ●Press [▶] (PLAY) to restore normal play after changing the speed. ●Noise may occur when playing WMA files.	– – 13 17 13
Piercing noise comes from the speakers.	●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 menus' Audio menu. * Units for the United Kingdom, Continental Europe, the Middle East, South Africa, Russia, Australia and N.Z.	20
Effects do not work.	●Dialogue Enhancer and Advanced Surround do not work when the unit is outputting bitstream signals. ●Advanced Surround does not work if you have changed the play speed.	– 17

Unit displays		Page
"NO PLAY"	●You inserted a disc the unit cannot play; insert one it can. ●You inserted a blank DVD-RAM.	6 –
"CHECK"	●Disc is dirty: Wipe it clean.	6
"H□□" □□ stands for a number.	●Trouble may have occurred. The number following "H" depends on the status of the unit. Reset procedure: Press [⏻/I] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻/I] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it. ●If the service numbers fail to clear, note the service number and contact a qualified service person.	–
"NO DISC"	●You haven't inserted a disc: Insert one. ●You haven't inserted the disc correctly: Insert it correctly.	– 8

Television displays		Page
"Cannot display group xx, picture xx"	●You are trying to display incompatible pictures.	11
"The progressive out is set to "Disable""	●Go to Video in the SETUP menus, and select "Enable (NTSC Disc Only)" in "Progressive Out (Component)".	18
No on-screen display or only partially displayed.	●Go to Display in the SETUP menus, and select "On" for "On-Screen Messages". ●Press [DISPLAY], and press [◀, ▶] to highlight the Bar Position icon, then press [▲, ▼] to adjust the position.	18 15
The disc's menu is displayed in a different language.	●Go to Disc in the SETUP menus, and select the preferred language for "Menus".	18

Safety precautions

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.

Maintenance

Clean this unit with a soft, dry cloth.

●Never use alcohol, paint thinner or benzine to clean this unit.

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.

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.

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.

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.

Units for the United Kingdom, Continental Europe, Russia, Australia and N.Z.
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Units for Asia
THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

SUOMI**VAROITUS!**

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAÄ ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

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

VAROITUS!

- ÄLÄ ASENNATA TAI LAITA TÄTÄ LAITETTA KABINETTIYPPISEEN KIRJAKAAPPIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIN YLIKUMENEMISESTÄ JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDellä, PÖYTÄLINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITAMATTOMALLA TAVALLA.

TÄMÄ LAITE ON TÄRKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

NORSK**ADVARSEL!**

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET 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.

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 Plasseres GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!

- APPARATET MÅ IKKE Plasseres I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELEGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- Plasser 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.

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