



The illustration shows DVD-S35 for U.S.A. and Canada.

Panasonic®

DVD/CD PLAYER

Operating Instructions

Model No. **DVD-S35/DVD-S31**

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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.

Units for the U.S.A., Canada, and with PX printed on the outer packaging

Units for other areas



This manual was printed with soy based ink.

For U.S.A.



As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

These operating instructions are applicable to models DVD-S35 and DVD-S31 for a variety of regions. The types of discs you can play depend on the model and region where you purchased it. See page 6 for details. Unless otherwise indicated, illustrations in these operating instructions are of DVD-S35 for U.S.A. and Canada.

Region numbers

Are allocated to DVD players and software according to where they are sold. See page 6 for the region number for your unit.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER _____
SERIAL NUMBER _____

The warranty for the U.S.A. is on page 22.

En la página 23 hay una guía de referencia rápida en español.

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.

CAUTION - LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 51 CFR 101.11.6
CAUTION - FIBER AND RADIANT LASER RADIATION WHEN OPEN. RADIATION EXPOSURE TO BEAM. RADIATION EXPOSURE TO BEAM. RADIATION EXPOSURE TO BEAM.
ATTENTION - FIBER AND RADIANT LASER RADIATION WHEN OPEN. RADIATION EXPOSURE TO BEAM. RADIATION EXPOSURE TO BEAM. RADIATION EXPOSURE TO BEAM.
ADVARSEL - SVIKEL OG USTYRLIG LASERSTRÅLING VED ÅBNING. UNØYDDELIGT UTSÆTTELSE FOR STRÅLING.
VARNING - ANVÄNDELSA OCH ÅTTING LASERSTRÅLING NÄR ÖPPNA DEL. LASERSTRÅLING OCH USTYRLIG LASERSTRÅLING NÄR ÖPPNA DEL.
ADVARSEL - SVIKEL OG USTYRLIG LASERSTRÅLING NÄR ÖPPNA DEL. LASERSTRÅLING OCH USTYRLIG LASERSTRÅLING NÄR ÖPPNA DEL.
VORSICHT - FIBER UND RADIANT LASERSTRÄHLUNG BEI ÖFFNEN. STRÄHLUNGSAUSSETZUNG BEI STRÄHLUNG. STRÄHLUNGSAUSSETZUNG BEI STRÄHLUNG.
注意 - 開扉時レーザー放射線が放射される場合があります。レーザー放射線に長時間目をあてないでください。
注意 - 開扉時レーザー放射線が放射される場合があります。レーザー放射線に長時間目をあてないでください。

(Inside of product)



The laser product label has not been attached to products for the U.S.A. and Canada.

Units for the Middle East, South Africa and Asia
 THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

Units for Australia, N.Z., Russia, and with PX printed on the outer packaging
 THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

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.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the U.S.A. and Canada

CAUTION:
TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

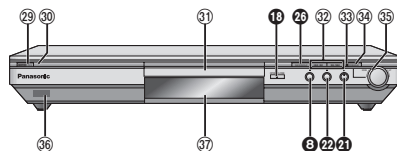
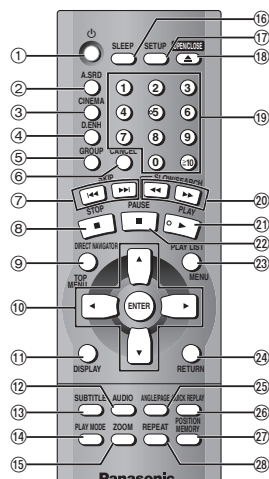
User memo:

DATE OF PURCHASE _____
 DEALER NAME _____
 DEALER ADDRESS _____
 TELEPHONE NUMBER _____

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**Control reference guide**

- Controls such as 9 function the same as those on the remote control.
- The actual marking of the standby/on switch depends on the area. Illustrations in these operating instructions use the markings shown in the above illustration.

	Page
1 Standby/on button (⏻)	7
2 Advanced Surround button (A.SRD)	15
3 Cinema button (CINEMA)	15
4 Dialogue Enhancer button (D.ENH)	15
5 Group button (GROUP)	9
6 Cancel button (CANCEL)	13
7 Skip buttons (⏮, ⏭) SKIP)	8
8 Stop button (■ STOP)	8
9 Top menu, Direct navigator button (TOP MENU, DIRECT NAVIGATOR)	8, 12
10 Cursor buttons (▲, ▼, ◀, ▶), Enter button (ENTER)	15
11 Display button (DISPLAY)	16
12 Audio button (AUDIO)	14
13 Subtitle button (SUBTITLE)	14
14 Play mode button (PLAY MODE)	13
15 Zoom button (ZOOM)	15
16 Sleep button (SLEEP)	9
17 Setup button (SETUP)	7, 19
18 Open/Close button (▲ OPEN/CLOSE)	8
19 Numbered buttons (1-9, 0, 10)	9
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, 12
24 Return button (RETURN)	7
25 Angle/page button (ANGLE/PAGE)	14, 15
26 Quick replay button (QUICK REPLAY)	9
27 Position memory button (POSITION MEMORY)	9
28 Repeat button (REPEAT)	9
29 Standby/on switch (⏻/⏻)	7
30 Units sold outside the U.S.A. and Canada	
Standby indicator (⏻)	8
31 Disc tray	8
32 Skip/Slow/Search buttons (⏮, ⏭, ⏭, ⏭)	8
33 Zoom indicator	15
34 Zoom mode button (ZOOM MODE)	15
35 Zoom dial (DOWN, UP)	15
36 Remote control signal sensor	
37 Display	

Accessories

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. **(Only for U.S.A.) To order accessories contact 1-800-332-5368 or web site (<http://www.panasonic.com>).** **(For other areas) To order accessories, call the dealer from whom you have made your purchase.**

- 1 **Remote control**
U.S.A. and Canada (EUR7621010)
Other areas (EUR7621020)
- 1 **AC power supply cord**
U.S.A. and Canada (RJA0065-2D)
Australia and N.Z. (RJA0035-2X)
Other areas (RJA0019-2X)

- 1 **Audio/video cable** (JAC3315N)
 - 2 **Remote control batteries**
- For units with PX printed on the outer packaging
- 1 **Power plug adaptor** (VJP2974)

Note
The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

Connection

Before connection

- Disconnect the AC power supply cord.
- Turn off all equipment and read the appropriate operating instructions.

- 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.

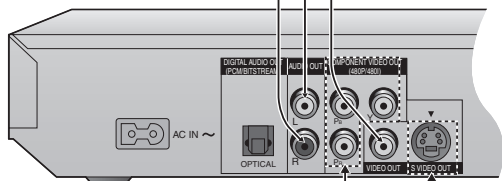
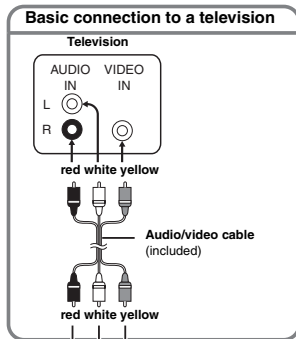
Do not place the unit on amplifiers or equipment that may become hot.

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.



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 (P_u/P_v) 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_u/P_v, Y/B-Y/R-Y, Y/C_u/C_v). Connect to terminals of the same color.

Units for the U.S.A., Canada and with PX printed on the outer packaging

- After making this connection, change the black level for a better picture. (→ page 18, Video—Black Level Control)

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.

Connection

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.

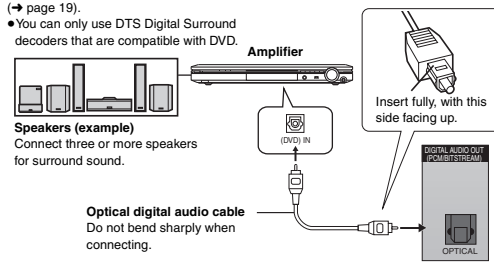
A Digital connection

To enjoy multi-channel surround sound

Connect an amplifier with a built-in decoder or a decoder-amplifier combination. Change the settings in "Digital output" (→ page 19).

- You can only use DTS Digital Surround decoders that are compatible with DVD.

To enjoy stereo or Dolby Pro Logic
Connect a digital amplifier or system component. Change the settings in "Digital output" (→ page 19).

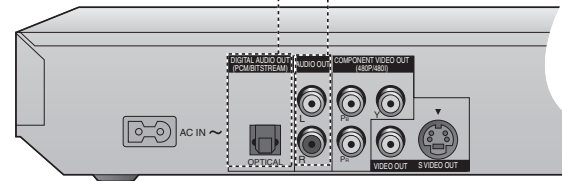
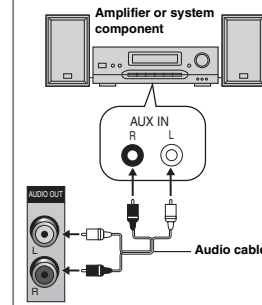


Speakers (example)
Connect three or more speakers for surround sound.

Optical digital audio cable
Do not bend sharply when connecting.

B Analog connection

To enjoy stereo or Dolby Pro Logic
Connect an analog amplifier or system component.



Recording output

Digital recording → Connection A to digital recording equipment

- With DVD, the following conditions must be met: ① the disc doesn't have protection preventing digital recording, and ② the recording equipment can handle signals with a sampling frequency of 48 kHz.
 - You cannot record WMA/MP3.
- When recording DVDs, make the following settings.
- ADVANCED SURROUND: OFF (→ page 15)
 - PCM Down Conversion: Yes (→ page 19)
 - Dolby Digital/DTS Digital Surround/MPEG*: PCM (→ page 19)
- * MPEG: Units for the Middle East, South Africa, Russia, Australia and N.Z.

Analog recording → Connection B to a cassette deck or other recording equipment

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

Power connection

Conserving power

This unit consumes a small amount of power, even when it is turned off.

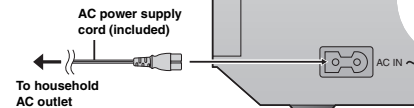
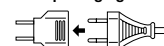
U.S.A. and Canada 1 W
Other areas approx. 2 W

To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

For units with PX printed on the outer packaging

If the power plug does not fit your AC outlet, use the power plug adaptor (included).

If it still doesn't fit, contact an electrical parts distributor for assistance.



Disc information

Discs that can be played

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

*Some models cannot play these discs (→ below).

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.

Disc compatibility by region and model

x: Not compatible ○: Compatible

	DVD-S31		DVD-S35	
	U.S.A., Canada, and units with PX printed on the outer packaging	Other areas	U.S.A., Canada, and units with PX printed on the outer packaging	Other areas
DVD-Audio	x		x	○
WMA, JPEG	x		○	○

Discs that cannot be played

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

Region number

The player plays DVD-Video marked with labels containing the region number or "ALL".

Region	Number	Example
U.S.A., Canada, and units with PX printed on the outer packaging	1	
The Middle East and South Africa	2	
Asia	3	
Australia and N.Z.	4	
Russia	5	

Built-in decoders

This unit has Dolby Digital and DTS decoders so you can enjoy these systems in stereo without connecting a separate decoder.



Video systems

Units for the Middle East, South Africa, Asia, Russia, Australia and N.Z.:

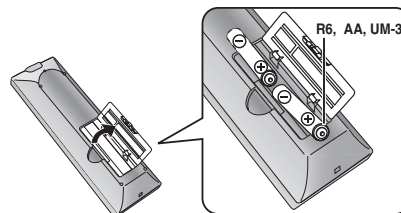
- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (→ page 18, Video—NTSC Disc Output).
- Output is interlace (576i),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

Units for the U.S.A., Canada, and with PX printed on the outer packaging:

PAL discs cannot be played.

The remote control

Batteries



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

Do not:

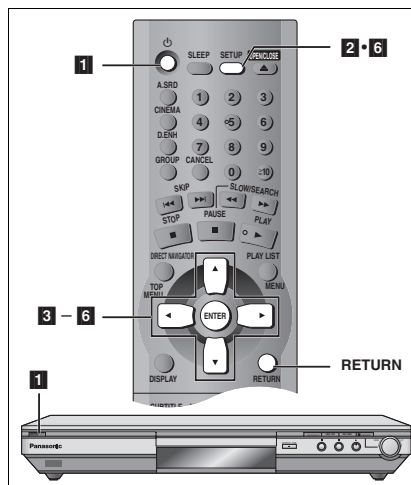
- mix old and new batteries.
 - use different types at the same time.
 - heat or expose to flame.
 - take apart or short circuit.
 - attempt to recharge alkaline or manganese batteries.
 - use batteries if the covering has been peeled off.
- Mishandling of batteries can cause electrolyte leakage which 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 (23 feet) directly in front of the unit.

Quick setup



- Press [ON] to turn on the unit.
- Press [SETUP] to show the QUICK SETUP screen.

e.g. Units for U.S.A. and Canada



- Press [▲, ▼, ◀, ▶] to select the menu language and press [ENTER].
- Press [▲, ▼] to select "Yes" to continue and press [ENTER].
- Press [▲, ▼, ◀, ▶] to select the item and press [ENTER].
 - Audio Language (→ page 18)
 - Subtitle Language (→ page 18)
 - TV Aspect (→ below)
 - Progressive Out (→ page 18)
- 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

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.



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. Finalize* the disc after recording.

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

*A process that allows play on compatible equipment.

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: a group of scenes on DVD-RAM.

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

To clean discs

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

Wipe with a damp cloth and then wipe dry.

DVD-RAM, DVD-R

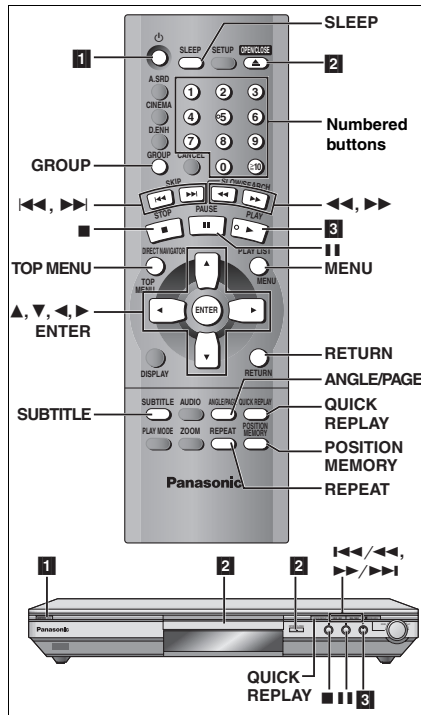
• Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).

• 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.

Basic play



Preparation

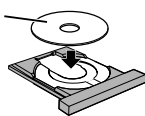
Turn on the television and select the appropriate video input on the television to suit the connections for the player.

1 Press [⏻] to turn on the unit.

If the disc contains both audio data (WMA and MP3) and JPEG, check "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.

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

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 [⏪] 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: [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.

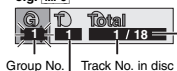
•When playing DVD-Audio and you want to start play from a track in a different group, select the group first (→ below).

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 13, 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.

1. During play, press [POSITION MEMORY].
 Flashes as you memorize a position.
2. Press [⏻] to switch the unit to standby or press [▲] to remove the disc.
3. Press [▶] (PLAY) to restart from the position.
DVD-Video: Press [▶] (PLAY) again to review chapters (→ 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) 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.

Replacing 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.

Repeat play

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

During play

Press [REPEAT].

The indication changes each time you press the button.

RAM DVD-A WMA MP3

Program Track

All Group

Scene#1 All#2

Playlist#1 Off

Off

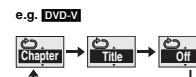
DVD-V VCD CD JPEG

Chapter Track Group

Title All Off

All#2 Off

Off



#1 During play list play.

#2 During all group, program and random play

If the Video CD has playback control

1. Press [■] to clear "PBC" from the display.
2. Press the numbered buttons to select a track to start play.
3. Press [REPEAT].

To repeat only your favorite tracks/chapters

DVD-A DVD-V VCD CD WMA MP3

Start program play (→ page 13) and press [REPEAT] to display "All".

Rotating pictures

JPEG

While a picture is displayed

1 Press [ANGLE/PAGE].

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

The picture rotates ninety degrees each time you do this.

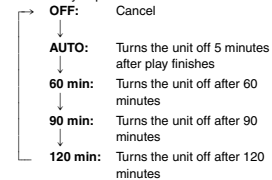
To clear the pop-up screen

Press [ANGLE/PAGE].

Setting the unit to turn off—SLEEP timer

Press [SLEEP] to select the setting.

Each time you press the button:



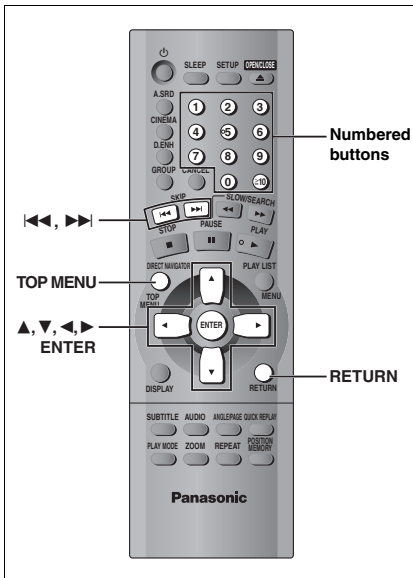
- AUTO also works with DVDs that show a menu after play finishes.
- AUTO does not work if you press [■], [MENU] or [TOP MENU]. It is activated again when you restart play.
- AUTO does not work correctly with some discs (e.g., if menus appear after playing Video CDs).

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.



DVD-S31 is not compatible with WMA or JPEG. References to them apply only to DVD-S35.

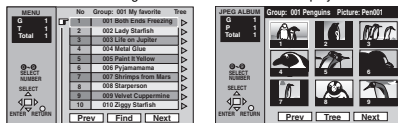
If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed disc - Audio & Stills" in the SETUP menu (→ page 18). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

WMA | MP3 | CD (CD text only) | JPEG

These menus help you find items to play.

1 Press [TOP MENU].

WMA/MP3 Audio navigation menu JPEG Album display



"☐" 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].

Track title search | WMA | MP3 | CD (CD text only)

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

While the menu is displayed

1 Press [▲, ▼] to select "Find" and press [ENTER].



2 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.

3 Press [▶] to select "Find" and press [ENTER].

The search results screen appears.

4 Press [▲, ▼] to select the track and press [ENTER].

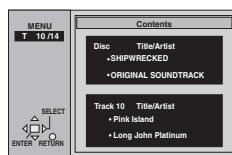
To return to the menu
Press [RETURN].

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

1 Press [▶] while a track is highlighted to display the contents screen.



2 Press [◀, ▶] to move through the tracks and press [ENTER].

To return to the menu
Press [RETURN].

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.



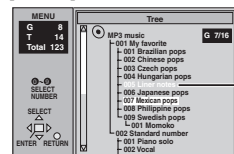
To use the tree screen to find a group | WMA | MP3 | JPEG

While the menu is displayed

1 [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.

2 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.
 - 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 (i.e. TIFF) or play associated sound.

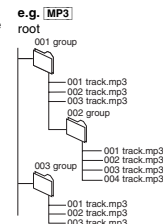
[WMA | MP3 | JPEG]

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).

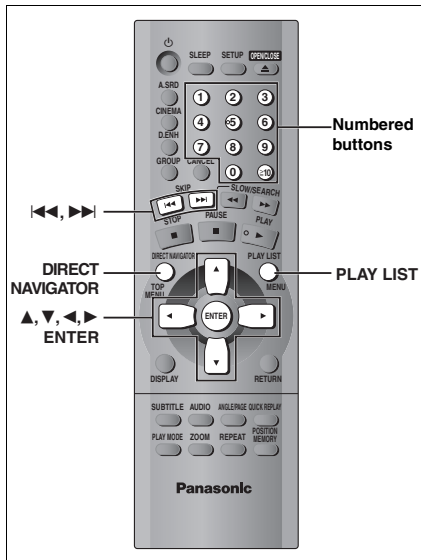
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

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 the programs or play lists on DVD-RAM



Playing a play list

You can play a group of scenes, a play list, created on other equipment such as a DVD video recorder.

1 Press [PLAY LIST].

PLAYLIST	No.	Date	Length	Title
	1	10/17	0:46:35	Clay Penguin
	2	12/24	0:09:19	Ashley at Prom
	3	11/09	0:12:30	Formula one
	4	12/22	0:07:30	Soccer
	5	12/23	0:30:20	Baseball
	6	12/23	0:06:15	Neurodermat
	7	12/24	0:15:30	Cartoons
	8	12/24	0:20:30	Tribbles
	9	12/25	0:20:00	White Dwarf
	10	12/25	0:55:00	Discovery

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: [≧10] → [2] → [3]

3 Press [ENTER] to start play.

• To skip scenes, press [◀◀] or [▶▶].

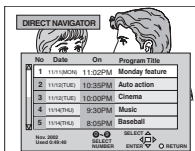
To clear the play list screen

Press [PLAY LIST].

Selecting a program to play—DIRECT NAVIGATOR

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.
- Units for the Middle East, South Africa, Asia, Australia, N.Z., and Russia use the 24-hour system for the time display.

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: [≧10] → [2] → [3]

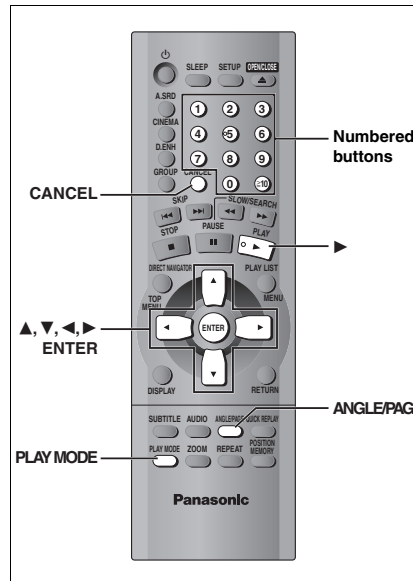
3 Press [ENTER].

The program being played in the background continues.

To clear the program list

Press [DIRECT NAVIGATOR].

Changing play sequence

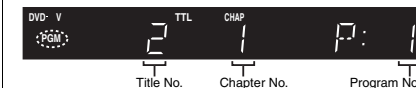
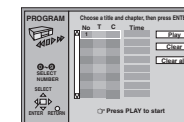


Program play

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 8 lines at a time.

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.

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).

Random play

1 **DVD-A | DVD-V**

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

• Some items cannot be selected. **DVD-V**

• You can select more than one group. To enter all groups, select "All" using [◀, ▶] and press [ENTER].

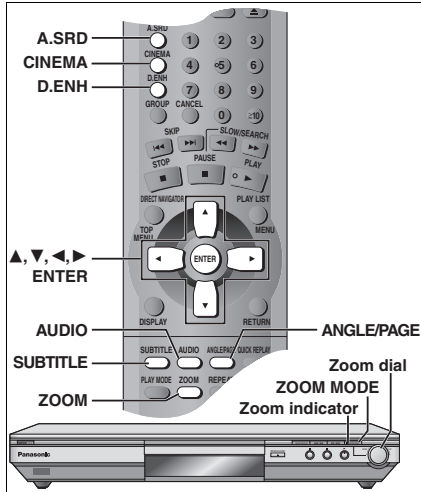
• To deselect a group, press the numbered buttons corresponding to the group you want to clear.

2 Press [▶] (PLAY).

To exit the all group/program/random mode

Press [PLAY MODE] while stopped.





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]**.

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.

- Refer to **[B]** (→ right) for audio signal type details.
- You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.
- 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.

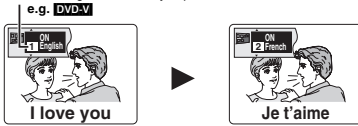
Subtitles

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.



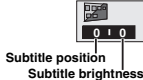
- In some cases, the subtitle language is not changed to the selected one immediately.
- If the subtitles overlap closed captions recorded on discs, turn the subtitles off.

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.



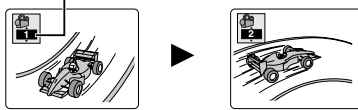
- Adjust position between 0 and -60 in 2 unit steps.
- For brightness, select “Auto” so the brightness adjusts automatically against the background, or a level between 0 and -9.

Angles

DVD-A DVD-V

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

The angle changes each time you press the button.



- 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: PortugueseVIE: Vietnamese
ESP: Spanish RUS: Russian THA: Thai
NLD: Dutch JPN: Japanese *: Others

- 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

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:



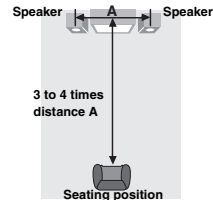
- SP1/HP1:** Natural effect
- SP2/HP2:** Emphasized effect
- SP OFF/HP OFF:** Cancel (Factory preset)

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.

CINEMA

RAM DVD-A DVD-V VCD

Change the picture quality for movie viewing.

Press **[CINEMA]**.

Each time you press the button:



- Cinema1:** Mellows images and enhances detail in dark scenes
- Cinema2:** Sharpens images and enhances detail in dark scenes
- Normal:** Normal mode (Factory preset)

• Use the Picture Menu (→ page 17) to make finer adjustments.

Selecting still pictures – Page Skip

DVD-A

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

The page changes each time you press the button.



DIALOGUE ENHANCER

DVD-V

(Dolby Digital, DTS, 3-channel or over, where the dialogue is recorded in the center channel)

This makes the dialogue in movies easier to hear.

Press **[D.ENH]**.

Each time you press the button:

ON ← **OFF** (Factory preset)



• This does not work or has less effect with some discs.

Variable Zoom function

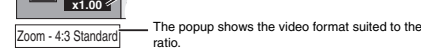
RAM DVD-A DVD-V VCD

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.

The zoom ratio changes each time you press the button.



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.

On the main unit

1. Press **[ZOOM MODE]**.

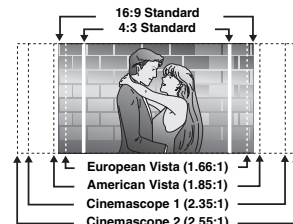
Each time you press the button:

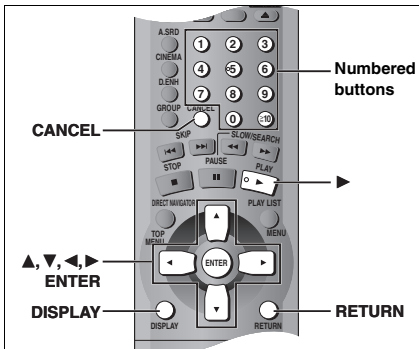
- Manual Zoom Mode:** Make fine adjustments (the zoom indicator lights)
- Preset Zoom Mode:** Select a preset ratio to suit the images (the zoom indicator lights)

- Zoom Mode Off**
- 2. Turn and hold the zoom dial.
UP (right): to zoom in
DOWN (left): to zoom out

Screen size

Movies are made using a variety of screen sizes.





On-Screen Menu Icons are menus that contain information about the disc or unit and allow you to perform operations by changing this information.

Common procedures

- Press [DISPLAY].**
Each time you press the button:
Disc information (→ right) → Progress indicator (→ below)
Original display ← Unit information (→ page 17)
- [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
- Press [◀, ▶] to select the item.
- 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].
 - Read the following explanations for other items.
 - 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.

To clear the menus

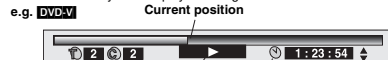
Press [RETURN] until the menus disappear.

To change the position of the icons

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

Progress indicator

Indicates how far you have played through an item.



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.

Disc information

e.g. **DVD-V** **RAM** PG: Program number PL: Play list number
DVD-A G: Group number T: Track number
DVD-V T: Title number C: Chapter number
VCD CD T: Track number
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] (SVCD only) [WMA MP3]
 For display only, cannot be changed.

Audio mode (→ page 14, Soundtracks)

Soundtrack language

(See [▲] on page 14 for language abbreviations.)

Audio signal type

(See [B] on page 14 for details.)

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

(See [▲] on page 14 for language abbreviations.)

Subtitles on/off

ON ↔ OFF

Track information on/off [WMA MP3 CD] (CD text only)

ON ↔ OFF

Picture information [JPEG]

Full: Group title, picture title, picture size, file size, date of shooting, and camera mode used*.

Date: Date of shooting only.

OFF: No display.

* Actual displays depend on the camera and data.

Angle number (→ page 14)

Track/picture number in disc [WMA MP3 JPEG]

Total number of tracks/pictures on disc

[WMA MP3 JPEG]

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

Changing play speed [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.

– You cannot use ADVANCED SURROUND.

– Digital output switches to PCM.

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

To return to normal play

Press [▶] (PLAY).

Unit information

Play Menu

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].

Repeat mode (→ page 9)

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]

To mark the eleventh 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.

Audio Menu
ADVANCED SURROUND (→ page 15)

DIALOGUE ENHANCER (→ page 15)

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.

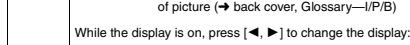
Zoom (→ page 15)
To select preset aspect ratio
 Press [ENTER] and then [▶, ◀] to select. Press [ENTER] to finish.

Display Menu

Subtitle Position/Brightness (→ page 14)

Bitrate Display on/off [RAM 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 (→ back cover, 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.

Picture Menu
Picture mode (→ page 15, CINEMA)
 N: Normal mode
 C1: Mellow images and enhances detail in dark scenes
 C2: Sharpens images and enhances detail in dark scenes
 U1/U2: User mode (→ below)

Video output mode
480i: Interface video
480P: Progressive video
 (↔: Progressive output not possible with PAL signals)
 ● You can change the video output mode only when "Progressive Out (Component)" in the SETUP menu is set to "Enable" (→ page 18).
 ● When progressive output is on, closed captions will not be displayed.

Transfer mode
 Select the method of conversion for progressive output to suit the type of material being played.
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

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

U1: User mode 1
4:3 Contrast (–7 to +7)
 Increases the contrast between light and dark parts of the picture.

Brightness (0 to +15)
 Brightens the picture.

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

Color (–7 to +7)
 Adjust the shade of the picture's color.

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

U2: User mode 2
 (Video output mode → above)

Advanced operations

Advanced operations

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.)
Disc	Audio Choose the audio language.	English (Language options) Original*1 Other ***:*#2
	Subtitle Choose the subtitle language.	Automatic*3 English (Language options) Other ***:*#2
	Menus Choose the language for disc menus.	English (Language options) Other ***:*#2
	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.	Language options *4 French Spanish *5 French German Italian Spanish Portuguese Swedish Dutch *6 Chinese
Video	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" to enable progressive output.	Disable Enable*4 Enable (NTSC Disc Only)*5*6
	Still Mode Specify the type of picture shown when paused.	Automatic Field Frame
	Black Level Control *4 Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.	Lighter: When connected through VIDEO OUT or S VIDEO OUT Darker: When connected through COMPONENT VIDEO OUT (Y/Pa/Pb)
Audio	NTSC Disc Output *5*6 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.)
	PCM Down Conversion (→ page 19)	No Yes
	Dolby Digital (→ page 19)	Bitstream PCM
	DTS Digital Surround (→ page 19)	PCM Bitstream
Display	MPEG *5 (→ 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 Français Español *5 English Français Deutsch Italiano Español Português Svenska Nederlands *6 English 中文
Others	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.
	Mixed disc – Audio & Stills (DVD-S35 only) Select the type of file played on discs containing both JPEG and WMA/MP3. (Reload the disc for the setting to be effective.)	Audio (MP3/WMA) Stills (JPEG)
	DVD-Video Mode *5*6 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.
Others	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

*1 The original language of each disc is selected.

*2 Input a code number with the numbered buttons (→ page 19).

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

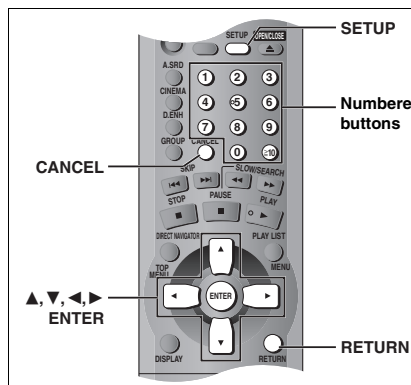
*4 Units for U.S.A., Canada and with PX printed on the outer packaging

*5 Units for the Middle East, South Africa, Russia, Australia and N.Z.

*6 Units for Asia.

*7 Prohibits play of DVD-Video with corresponding ratings recorded on them.

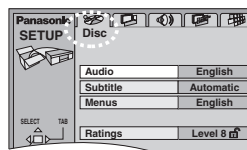
*8 Audio will be heard when playing some DVD-Audio despite the settings you make here.



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].

The screen now shows the menu again.

To return to the previous screen

Press [RETURN].

To exit the SETUP menu

Press [SETUP].

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: 7869	Sindhi: 8368	Turkish: 8482
Albanian: 6381	Chinese: 9072	Greenlandic: 7576	Korean: 7579	Norwegian: 7879	Singhalese: 8373	Turkmen: 8475
Ameharic: 6577	Corsican: 6779	Guarani: 7178	Kurdish: 7585	Orya: 7982	Slovak: 8375	Twi: 8487
Arabic: 6582	Croatian: 7282	Gujarati: 7185	Laotian: 7679	Pashto, Pushto: 8093	Slovenian: 8376	Ukrainian: 8575
Armenian: 7289	Czech: 6783	Hausa: 7265	Latin: 7665	Persian: 7065	Somali: 8379	Urdu: 8582
Assamese: 6583	Danish: 6865	Hebrew: 7387	Latvian, Lettish: 7686	Polish: 8076	Spanish: 8385	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	Volapuk: 8679
Bashkir: 6665	Esperanto: 6979	Icelandic: 7383	Macedonian: 7775	Quechua: 8185	Swedish: 8386	Welsh: 6789
Basque: 6985	Estonian: 6984	Indonesian: 7378	Malagasy: 7771	Rheto-Romanche: 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: 7165	Malayalam: 7776	Russian: 8285	Tamil: 8465	Yiddish: 7473
Bihari: 6672	Finnish: 7073	Italian: 7384	Maltese: 7384	Samtan: 8377	Tatar: 8484	Yoruba: 8979
Bioton: 6682	French: 7082	Japanese: 7465	Maoi: 7465	Sanskrit: 8365	Telugu: 8469	Zulu: 9085
Bulgarian: 6671	Frisian: 7089	Javanese: 7487	Marathi: 7782	Scots Gaelic: 7168	Thai: 8472	
Burmese: 7789	Galician: 7176	Kannada: 7578	Moldavian: 7578	Serbian: 8382	Tibetan: 6679	

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

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 audio with a sampling frequency of 96 kHz or 88.2 kHz.

- Select "Yes" if the equipment you connect cannot process signals with a sampling frequency of 96 kHz or 88.2 kHz.

No (Factory preset): Output as 96 kHz or 88.2 kHz

Yes: Converted to 48 kHz or 44.1 kHz

Note

- Signals are converted to either 48 kHz or 44.1 kHz despite the above settings if the signals have a sampling frequency of over 96 kHz, or the disc has copy protection.
- 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*

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*):

Select if the equipment you connected cannot decode the signal.

* MPEG: Units for the Middle East, South Africa, Russia, Australia and N.Z.

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.

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:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, web site (www.panasonic.ca), or an authorized Servicentre closest to you.

In other areas, consult your dealer.

Power		Page
No power.	<ul style="list-style-type: none"> Insert the AC power supply cord securely into the household AC outlet. 	4
The unit is automatically switched to the standby mode.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <p>Reset procedure: Press [POWER] to switch the unit to the standby mode and then back to ON. Alternatively, press [POWER] to switch the unit to the standby mode, disconnect the AC power supply cord, and then reconnect it.</p>	–
No operations can be performed with the remote control.	<ul style="list-style-type: none"> 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).	<ul style="list-style-type: none"> 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 installed 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.	<ul style="list-style-type: none"> This function depends on software availability. Try selecting from the disc's menu if one is available. 	– 8
No menu play.	<ul style="list-style-type: none"> This function depends on software availability. 	–
No subtitles.	<ul style="list-style-type: none"> This function depends on software availability. Subtitles are cleared from the television. Display the subtitles. Subtitle position is wrong. Adjust the position. 	– 14 14
Soundtrack and/or subtitle language is not the one selected with the SETUP menus.	<ul style="list-style-type: none"> This function depends on software availability. 	–
Cannot change angle.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <p>All settings will return to the default values.</p>	–
The unit doesn't play the data type (WMAMP3 or JPEG) selected in "Mixed disc – Audio & Stills" in the SETUP menu.	<ul style="list-style-type: none"> Reload the disc for the setting to be effective. Press [▲] to open the tray, then press [▶] (PLAY) to start play. 	–

Picture		Page
Picture distorted.	<ul style="list-style-type: none"> Some distortion is normal during SEARCH. 	–
Menu not displayed correctly.	<ul style="list-style-type: none"> Restore the zoom ratio to $\times 1.00$. Set the subtitle position to 0. Set "4:3 Aspect" to "Normal". 	15 14 17
No picture.	<ul style="list-style-type: none"> 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.)	<ul style="list-style-type: none"> 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. <p>If your television cannot change the aspect when input is progressive, try changing "4:3 Aspect" with the on-screen menu icons.</p> <ul style="list-style-type: none"> 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 – 17 15 4
There is ghosting when progressive output is on.	<ul style="list-style-type: none"> Change "Video output mode" to "480i" so "PROG." on the display goes out. This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. 	17
Picture quality is poor.	<ul style="list-style-type: none"> Check the settings in the On-Screen Menu Icons' Picture Menu. 	17

Picture		Page
The SETUP menus and other screens shown on the television are displayed incorrectly. Colors appear faded.	<ul style="list-style-type: none"> The unit and television are using different video systems. Units for the Middle East, South Africa, Russia, Australia and N.Z. Use a multi-system or PAL television. Units for other areas Use a multi-system or NTSC television. 	–

Sound		Page
No sound.	<ul style="list-style-type: none"> Check the connections. 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. 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 the "D.MIX" indicator on the display goes out while playing a multi-channel DVD-Audio disc, sound only comes from the front left and right speakers. Read the disc's instructions for details. Press [▶] (PLAY) to restore normal play after changing the speed. Noise may occur when playing WMA files. 	4, 5 – – 15 15 – 16
Piercing noise comes from the speakers.	<ul style="list-style-type: none"> 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. For the Middle East, South Africa, Russia, Australia and N.Z. 	19
Effects do not work.	<ul style="list-style-type: none"> 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. 	– 16

Unit displays		Page
"NoPLAY"	<ul style="list-style-type: none"> You inserted a disc the unit cannot play; insert one it can. You inserted a blank DVD-RAM. 	6 –
"CHECK"	<ul style="list-style-type: none"> Disc is dirty: Wipe it clean. 	6
"H□□" □□ stands for a number.	<ul style="list-style-type: none"> Trouble may have occurred. The number following "H" depends on the status of the unit. <p>Reset procedure: Press [POWER] to switch the unit to the standby mode and then back to ON. Alternatively, press [POWER] to switch the unit to the standby mode, disconnect the AC power supply cord, and then reconnect it.</p> <ul style="list-style-type: none"> If the service numbers fail to clear, note the service number and contact a qualified service person. 	–
"NoDISC"	<ul style="list-style-type: none"> 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"	<ul style="list-style-type: none"> You are trying to display incompatible pictures. 	–
"The progressive out is set to "Disable""	<ul style="list-style-type: none"> Go to Video in the SETUP menus, and select "Enable" in "Progressive Out (Component)". 	18
No on-screen display or only partially displayed.	<ul style="list-style-type: none"> 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 16
The disc's menu is displayed in a different language.	<ul style="list-style-type: none"> Go to Disc in the SETUP menus, and select the preferred language for "Menus". 	18

Maintenance

Clean this unit with a soft, dry cloth.

•Never use alcohol, paint thinner or benzene to clean this unit.

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Limited Warranty (ONLY FOR U.S.A.)

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic DVD Player/Recorder Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
DVD Player	One (1) Year	Ninety (90) Days
DVD Recorder	One (1) Year	One (1) Year
Rechargeable Batteries, DVD-RAM Disc (in exchange for defective item)	Ten (10) Days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-in or Mail-in Service

For Carry-in or Mail-in Service in the United States call 1-800-211-PANA(7262) or visit Panasonic Web Site: <http://www.panasonic.com>
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

Customer Service Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.
or send e-mail:
consumerproducts@panasonic.com
For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Web Site: <http://www.panasonic.com>
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Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surges, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicer or other Authorized Servicer, or damage that is attributable to acts of God.

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicer. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
For hearing or speech impaired TTY users, TTY: 1-866-605-1277
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday-Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicer:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787) 750-4300 Fax (787) 768-2910

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Product Service

- Damage requiring service**—The unit should be serviced by qualified service personnel if:
 - The AC power supply cord or AC adaptor has been damaged; or
 - Objects or liquids have gotten into the unit; or
 - The unit has been exposed to rain; or
 - The unit does not operate normally or exhibits a marked change in performance; or
 - The unit has been dropped or the cabinet damaged.
- Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- Replacement parts**—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

Product information

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

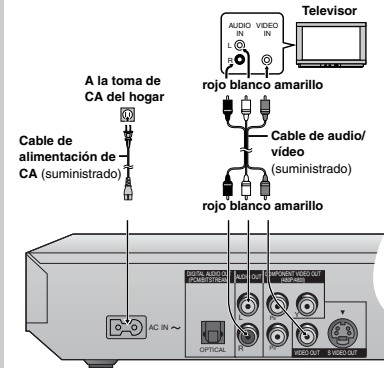
In Canada, contact Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, web site (www.panasonic.ca), or an authorized Servicer center closest to you.

In other areas, consult your dealer.

Guía de referencia rápida en español

DVD-S31 no es compatible con WMA o JPEG. Las referencias a éstos son aplicables únicamente a DVD-S35.

Conexión a un televisor



Instalación rápida

La pantalla **Instalación rápida** aparece cuando usted pulsa [SETUP] por primera vez después de adquirir el aparato y le ayuda a efectuar los ajustes necesarios.

Preparación

Encienda el televisor y seleccione en él la entrada de vídeo apropiada según las conexiones del reproductor.

- Pulse [0] para encender el aparato.
- Pulse [SETUP] para visualizar la pantalla QUICK SETUP.
- Pulse [▲, ▼] para seleccionar "Español" y pulse [ENTER].
- Pulse [▲, ▼] para seleccionar "SI" y pulse [ENTER].
- Pulse [▲, ▼] para seleccionar el elemento y pulse [ENTER].
 - Idioma de audio
 - Idioma de los subtítulos
 - Aspecto de su televisor
 - Salida progresiva
- Pulse [ENTER] y después [SETUP] para finalizar los ajustes.

Para volver a la pantalla anterior

Pulse [RETURN].

Para disfrutar del vídeo progresivo

Preparación

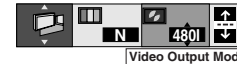
● Conecte los terminales de entrada de vídeo componente a un televisor compatible de 480P.

● En Instalación rápida, ponga "Salida progresiva" en "Activar" (→ anterior).

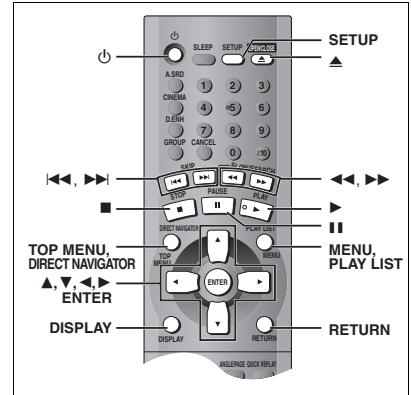
- Pulse [DISPLAY] para visualizar los menús de íconos.



- Mientras se resalta el ícono del extremo izquierdo, pulse [▲, ▼] para seleccionar "Picture Menu".
- Pulse [◀, ▶] para seleccionar "Video Output Mode".



- Pulse [▲, ▼] para seleccionar "480P".
- Pulse [RETURN] hasta que desaparezcan los menús.



Reproducción básica

- Pulse [0] para encender el aparato.
Si el disco contiene ambos datos de audio (WMA y MP3) y JPEG, compruebe el ajuste "Disco mixto Audio/mág. fija" en el menú de INSTALACIÓN. Seleccione "fija (JPEG)" para reproducir JPEG o "Audio (MP3/WMA)" para reproducir WMA/MP3.
- Pulse [▲] para abrir la bandeja del disco y coloque el disco en la bandeja con la etiqueta mirando hacia arriba.
- Pulse [▶] (PLAY).

Parada	Pulse [■]. "b" parpadea en el visualizador. Pulse [▶] (PLAY) para reanudar desde esta posición. Vuelva a pulsar [■] para cancelar la posición.
Pausa	Pulse [II]. Pulse [▶] (PLAY) para reanudar la reproducción.
Salto de elementos	Pulse [◀◀] (hacia atrás) o [▶▶] (hacia adelante). Salto de grupo [JPEG] Pulse [▼] (hacia atrás) o [▲] (hacia adelante).
Búsqueda	Pulse [◀◀] (hacia atrás) o [▶▶] (hacia adelante). Pulse [▶] (PLAY) para reanudar la reproducción.
A cámara lenta	Durante la pausa, pulse [◀◀] (hacia atrás) o [▶▶] (hacia adelante). Pulse [▶] (PLAY) para reanudar la reproducción.
Cuadro a cuadro	Durante la pausa, pulse [◀] (hacia atrás) o [▶] (hacia adelante). Pulse y mantenga pulsado para cambiar en sucesión. O bien, pulse [II] varias veces para avanzar cuadro a cuadro.
Menús	Pulse [▲, ▼, ◀, ▶] para seleccionar un elemento y [ENTER] para confirmarlo. O bien, pulse los botones numerados. Pulse [TOP MENU] para visualizar el menú superior. Pulse [MENU] para visualizar un menú. Pulse [RETURN] para visualizar un menú. VCD Para visualizar directamente [RAM] Pulse [DIRECT NAVIGATOR]. Para visualizar el Menú de listas de reproducción [RAM] Pulse [PLAY LIST].

ESPAÑOL

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 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.

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.

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.

Interface 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.

Specifications

Signal system:

For U.S.A. and Canada

For units with PX printed on the outer packaging

NTSC

For others PAL 625/50, PAL525/60, NTSC

Operating temperature range:

+5 to +35 °C (+41 to +95 °F)

Operating humidity range:

5 to 90 % RH (no condensation)

Discs played [8 cm (3") or 12 cm (5")]:

(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 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)

Video output:

Output level: 1 Vp-p (75 Ω)

Output connector: Pin jack

Number of connectors: 1 system

S-video output:

Y output level: 1 Vp-p (75 Ω)

C output level:

For U.S.A. and Canada

For units with PX printed on the outer packaging

NTSC: 0.286 Vp-p (75 Ω)

For others NTSC: 0.286 Vp-p (75 Ω)

PAL: 0.300 Vp-p (75 Ω)

Output connector: S terminal

Number of connectors: 1 system

Component video output:

For U.S.A. and Canada

For units with PX printed on the outer packaging

CLASS 1/CLASS 1

For others (NTSC: 480P/480I, PAL: 576I)

Y output level: 1 Vp-p (75 Ω)

Pa output level: 0.7 Vp-p (75 Ω)

Pb output level: 0.7 Vp-p (75 Ω)

Output connector: Pinjack

(Y: green, Pa: blue, Pb: red)

Number of connectors: 1 system

Audio output:

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

Output connector: Pin jack

Number of connectors: 2 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**1:

4 Hz–88 kHz (192 kHz sampling)

•CD audio: 4 Hz–20 kHz

(2) S/N ratio:

•CD audio: 115 dB

(3) Dynamic range:

•DVD (linear audio): 100 dB

•CD audio: 98 dB

(4) Total harmonic distortion:

•CD audio: 0.0025 %

Digital audio output:

Optical digital output: Optical terminal

Pickup:

Wave length: 658 nm/790 nm

Laser power:

For U.S.A. and Canada

For units with PX printed on the outer packaging

CLASS 1/CLASS 1

For others

Power supply:

For U.S.A. and Canada AC 120 V, 60 Hz

For Russia, Australia and N.Z.

AC 220–240 V, 50 Hz

For others AC 110–240 V, 50/60 Hz

Power consumption:

For U.S.A. and Canada 14 W

For others 14 W

Dimensions: 430 (W)×60 (D)×60 (H) mm

[16 ^{3/16}" (W)×10 ^{3/16}" (D)×2 ^{7/16}" (H)]

Mass: 2.1 kg (4.7 lb.)

Power consumption in standby mode:

For U.S.A. and Canada 1 W

For others approx. 2 W

Note

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

**1 Units for the U.S.A., Canada, and with PX printed on the outer packaging are not compatible with DVD-Audio.

**2 DVD-S31 is not compatible with WMA and JPEG.

For U.S.A.

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America

One Panasonic Way Secaucus,

New Jersey 07094

<http://www.panasonic.com>

For units with PX printed on the outer packaging

Matsushita Electric Industrial Co., Ltd. Corporate Management Division for the Americas

Sales Office for North America

Tokyo Panasonic Sales Section

32nd Floor, World Trade Center 4-1,

Hamamatsu-cho, 2-Chome, Minato-Ku,

Tokyo 105-6132, Japan

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Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985

Panasonic Marketing Europe G.M.B.H. Wiesbaden N. (a Division of Panasonic Marketing G.M.B.H.)

Military Sales Department

6200 Wiesbaden-Biebrich,

Hagenauerstr. 43

Germany

For Canada

Panasonic Canada Inc.

5770 Ambler Drive

Mississauga, Ontario

L4W 2T3

www.panasonic.ca

For others

Matsushita Electric Industrial Co., Ltd.

Web Site: <http://www.panasonic.co.jp/global/>



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