



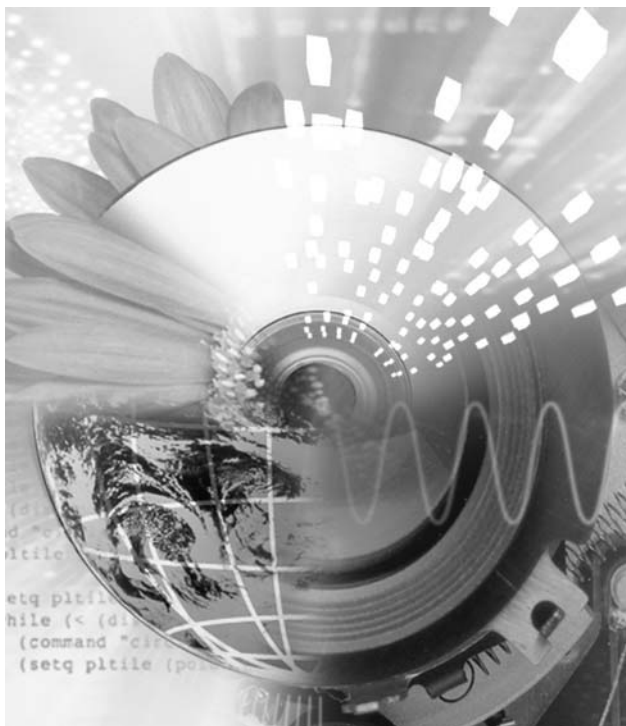
# Panasonic®

## DVD/CD PLAYER

### Operating Instructions

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

Model No. **DVD-S35/DVD-S31A/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.



For U.S.A.

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

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

RQT6933-4P

**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.

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

**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.

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

|   |                       |
|---|-----------------------|
| <b>CAUTION</b> - LASER RADIATION WHEN OPEN.<br>DO NOT STARE INTO BEAM.  | FDA 21 CFR / Class II |
| <b>CAUTION</b> - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.<br>AVOID EXPOSURE TO BEAM.                        | IEC60825-1 / Class 3B |
| <b>ATTENTION</b> - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE.<br>EXPOSITION DANGEREUSE AU FAISCEAU. |                       |
| <b>ADVARSEL</b> - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING.<br>UNDGÅ UDSÆTTELSE FOR STRÅLING.                     |                       |

(Inside of product)

For the U.S.A. and Canada

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

Except for U.S.A. and Canada

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

User memo:

**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.

Cursor buttons (▲, ▼, ◀, ▶), Enter button (ENTER) . . . . . 7

Display button (DISPLAY) . . . . . 10

Audio button (AUDIO) . . . . . 14

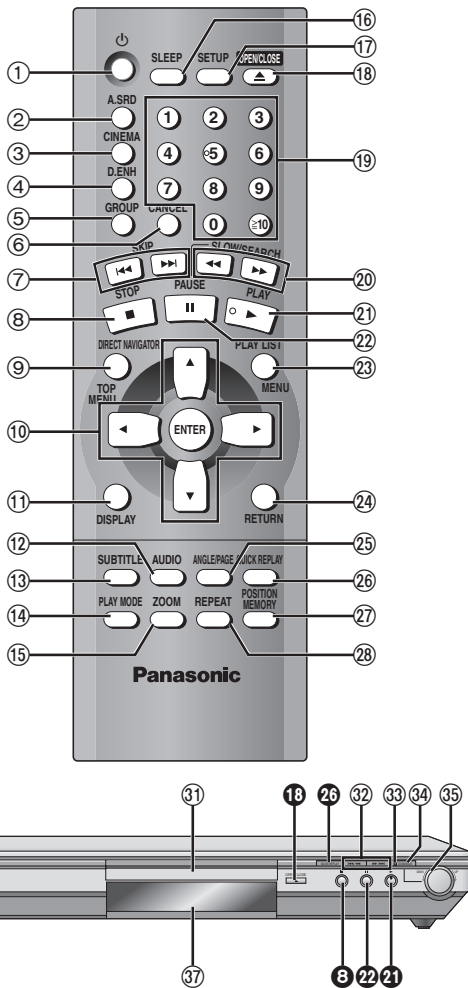
# IMPORTANT SAFETY INSTRUCTIONS

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.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) 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.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) 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.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) 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 8 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)   | 7     |
| 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)  | 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, 12 |
| ㉔ Return button (RETURN)  | 7     |
| ㉕ Angle/page button (ANGLE/PAGE)  | 9, 14 |
| ㉖ Quick replay button (QUICK REPLAY)  | 9     |
| ㉗ Position memory button (POSITION MEMORY)  | 9     |
| ㉘ Repeat button (REPEAT)  | 9     |
| ㉙ Standby/on switch (⏻/⏿)   | 7     |
| 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. |       |
| ㉚ Units sold outside the U.S.A. and Canada  |       |
| Standby indicator (⏻)   |       |
| When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.  |       |
| 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 the website (<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.

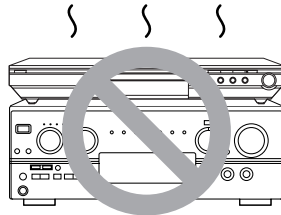
- The equipment connections described are examples.
- Peripheral equipment and optional cables sold separately unless otherwise indicated.

### 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.

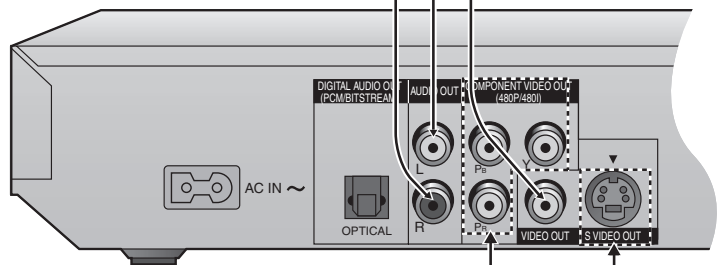
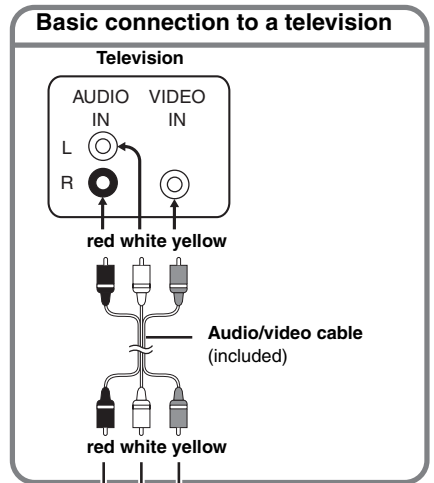
**Do not place the unit on amplifiers or equipment that may become hot.**

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**

**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<sub>B</sub>/P<sub>R</sub>) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors. The description of the component video input terminals depends on the television or monitor (e.g. Y/P<sub>B</sub>/P<sub>R</sub>, Y/B-Y/R-Y, Y/C<sub>B</sub>/C<sub>R</sub>). Connect to terminals of the same color.

**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**

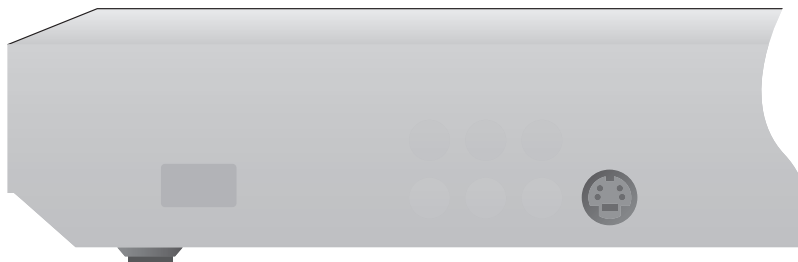
**S VIDEO OUT terminal**

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.

## 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.



### ■ Recording output

#### Digital recording → Connection **A** to digital recording equipment

•With DVD, the following conditions must be met: Ⓐ the disc doesn't have protection preventing digital recording, and Ⓑ 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.

### Conserving power

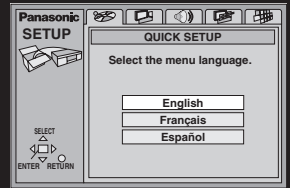
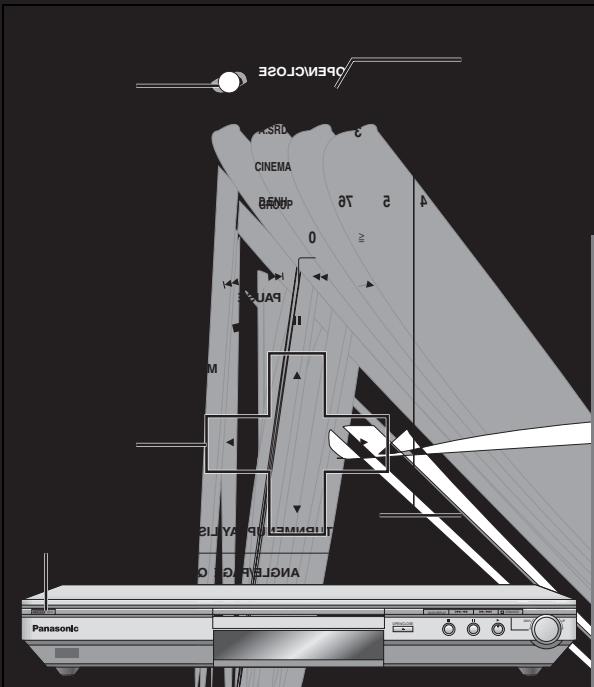
This unit consumes a small amount of power, even when it is turned off.

**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.





## Preparation

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

RAM DVD-V VCD CD

**Press the numbered buttons.**  
To select a 2-digit number

### 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.

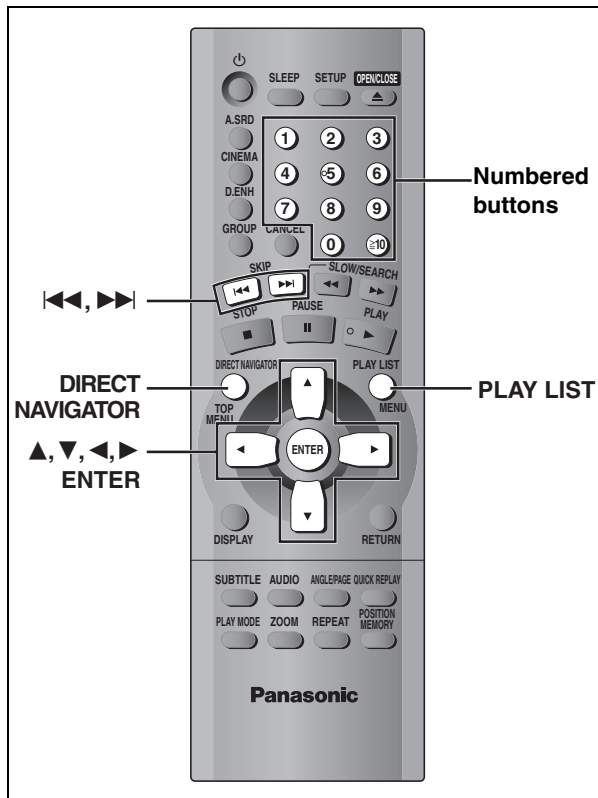








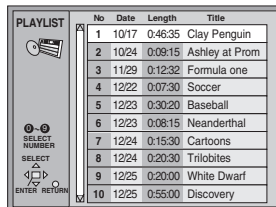
# Playing the programs or play lists on DVD-RAM



## 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: [≧10] → [2] → [3]

### 3 Press [ENTER] to start play.

- To skip scenes, press [◀◀] or [▶▶].

#### To clear the play list screen

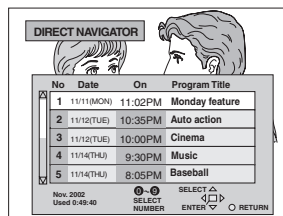
Press [PLAY LIST].

## RAM

### 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]

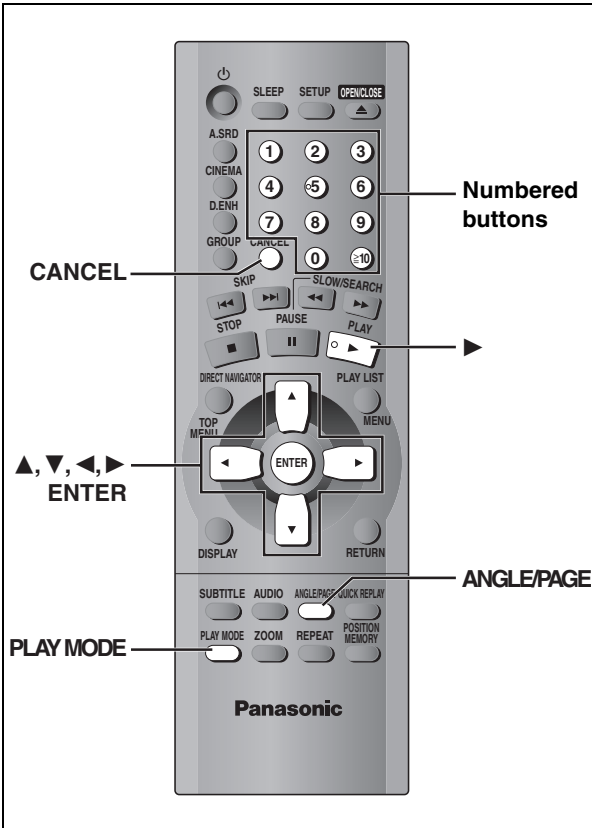
### 3 Press [ENTER].

The program being played in the background continues.

#### To clear the program list

Press [DIRECT NAVIGATOR].

# Changing play sequence



DVD-V VCD CD WMA MP3

While stopped

Press [PLAY MODE].

The display changes each time you press the button.

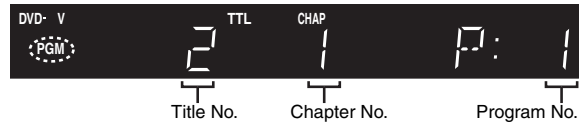
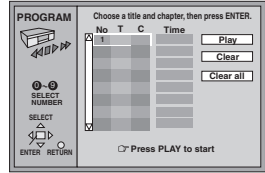
Program → Random → Off (Normal)

## 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, chapter, 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.

## Random play

**1 [DVD-V] Press the numbered buttons to select a title.**

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

e.g. **DVD-V**

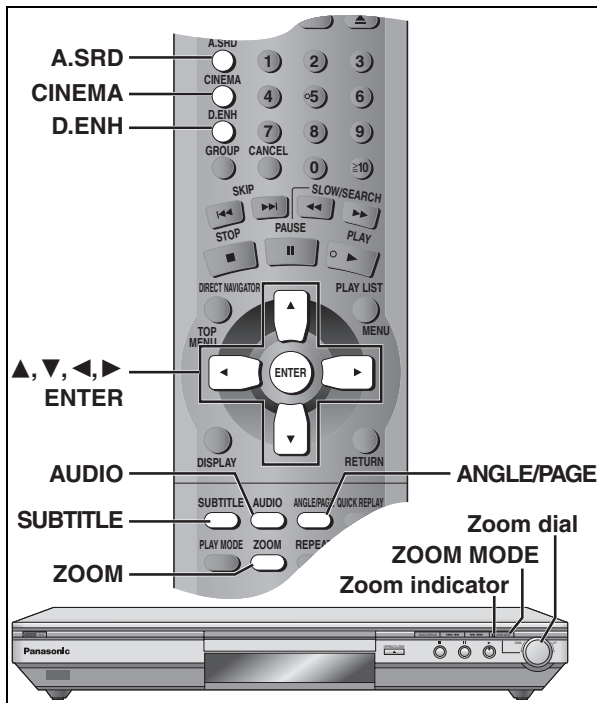


**2 Press [▶] (PLAY).**



**To exit the 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-V VCD**

During play  
Press **[AUDIO]**.

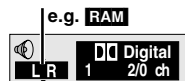
**DVD-V**

The number changes each time you press the button.



**RAM VCD**

Each time you press the button:



LR → L → R

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



- 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-RAM soundtracks that are accompanied by still pictures.
- Refer to **B** (→ right) for audio signal type details.

### Subtitles

**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.
- If the subtitles overlap closed captions recorded on discs, turn the subtitles off.

To clear/display the subtitles

1. Press **[SUBTITLE]**.
2. Press **[▶]**. (**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.



Subtitle position  
Subtitle brightness

- 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.

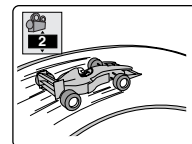
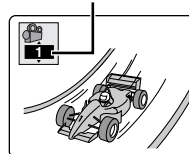
### Angles

**DVD-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: Portuguese | VIE: Vietnamese |
| ESP: Spanish | RUS: Russian    | THA: Thai       |
| NLD: Dutch   | JPN: Japanese   | *: Others       |

### B Signal type/data

LPCM/□□ 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)

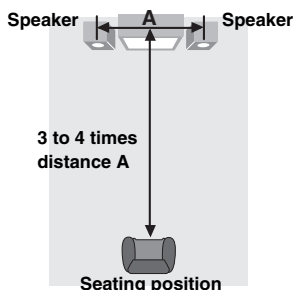
### To change the mode

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-V VCD JPEG

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.

## 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.

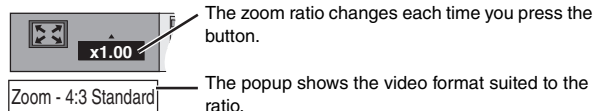
## Variable Zoom function

RAM DVD-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.

### ■ On the main unit

1. Press [ZOOM MODE].

Each time you press the button:

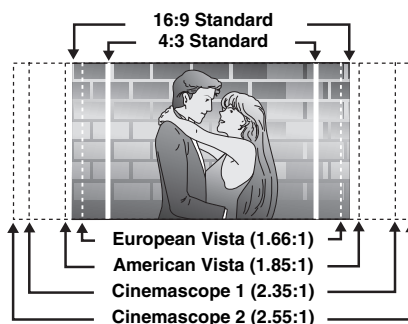
- **Manual Zoom Mode:** Make fine adjustments (the zoom indicator lights)
- ↓
- Preset Zoom Mode:** Select a preset ratio to suit the images (the zoom indicator lights)
- ↓
- Zoom Mode Off**

2. Turn and hold the zoom dial.

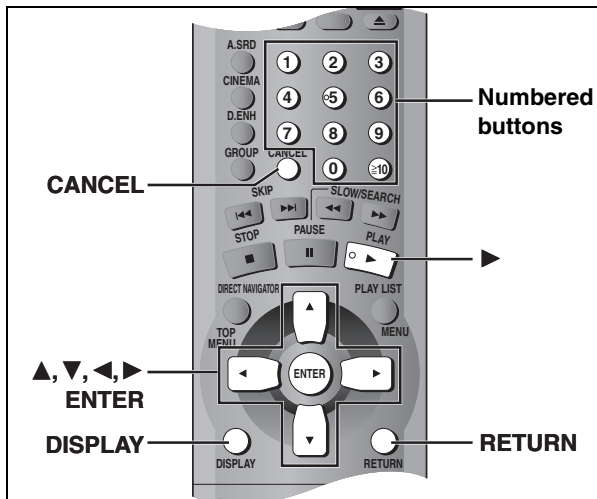
**UP** (right): to zoom in  
**DOWN** (left): to zoom out

### ■ Screen size

Movies are made using a variety of screen sizes.



# Using On-Screen Menu Icons



Advanced operations

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

### 1 Press [DISPLAY].

Each time you press the button:  
 Disc information (→ right) → Progress indicator (→ below)  
 Original display ← Unit information (→ page 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].
- 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

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



## Progress indicator

Indicates how far you have played through an item.

e.g. DVD-V Current position



Condition – play, pause, or slow/search

Changing the time display RAM 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.<br>DVD-V<br>T | RAM<br>DVD-V<br>VCD CD<br>WMA MP3   | PG: Program number<br>T: Title number<br>T: Track number<br>G: Group number<br>T: Track number in group   | PL: Play list number<br>C: Chapter number |
| C                  | JPEG  | G: Group number<br>P: Picture number in group   |   |
| ⌚                  | Time RAM DVD-V  | <ul style="list-style-type: none"> <li>• Press [▲, ▼] to show the elapsed play time or remaining time for the program, play list, or title (or chapter during program and random play).</li> <li>• Select a position to start play by specifying a time with the numbered buttons and press [ENTER].</li> </ul> |   |
|                    | 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)<br>Soundtrack language<br>(See A on page 14 for language abbreviations.)<br>Audio signal type<br>(See B on page 14 for details.)<br>Karaoke vocal on/off (Karaoke DVD only) DVD-V<br>Solo: OFF or ON<br>Duet: OFF, V1 + V2, V1 or V2<br>Current bitrate WMA MP3<br>Current sampling frequency WMA MP3   |   |   |
| 📄                  | Subtitle language<br>(See A on page 14 for language abbreviations.)<br>Subtitles on/off<br>ON ↔ OFF<br>Track information on/off WMA MP3 CD (CD text only)<br>ON ↔ OFF<br>Picture information JPEG<br>Full: Group title, picture title, picture size, file size, date of shooting, and camera model used*.<br>Date: Date of shooting only.<br>OFF: No display.<br>* Actual displays depend on the camera and data. |   |   |
| 🎥                  | Angle number (→ page 14)  |   |   |
| Total              | Track/picture number in disc WMA MP3 JPEG<br>Total number of tracks/pictures on disc<br>WMA MP3 JPEG  |   |   |
| PBC                | Menu play VCD<br>Indicates whether menu play (playback control) is on or off.   |   |   |
| 📄                  | Slideshow setting JPEG<br>ON ↔ OFF<br>Slideshow timing JPEG<br>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

|  |   |
|--|---|
|  | <b>A-B repeat</b> <b>RAM</b> <b>DVD-V</b> <b>VCD</b> <b>CD</b> <b>WMA</b> <b>MP3</b><br><b>(When the elapsed play time is displayed)</b><br>Repeat a section between points A and B within an item.<br>[ENTER] (start point) → [ENTER] (finish point)<br>To cancel: [ENTER]<br>● Subtitles recorded around A and B may fail to appear.<br>● The end of an item becomes point B when it is reached.<br>● A-B repeat is canceled when you press [QUICK REPLAY]. |
|  | <b>Repeat mode</b> (→ page 9)<br><b>OFF</b>   |
|  | <b>Play mode display</b> <b>DVD-V</b> <b>VCD</b> <b>CD</b> <b>WMA</b> <b>MP3</b><br>---: Normal play      PGM: Program play<br>RND: Random play   |
|  | <b>Marker</b><br><b>RAM</b> : 999 positions<br><b>DVD-V</b> <b>VCD</b> <b>CD</b> <b>WMA</b> <b>MP3</b> <b>JPEG</b> : 5 positions<br>[ENTER] (The unit is now ready to accept markers.)<br>To mark a position: [ENTER] (at the desired point)<br>To mark another position: [◀, ▶] → [ENTER]<br>To recall a marker: [◀, ▶] → [ENTER]<br>To erase a marker: [◀, ▶] → [CANCEL]  |
|  | <b>RAM</b><br><b>To mark the eleventh point and beyond</b><br>1. Press [◀, ▶] to select the marker pin icon.<br>2. Press [▲, ▼] to select "11-20".<br>● You can select the next group when the current group is full.   |
|  | 3. Press [▶].<br>● The markers are ordered by time. This means that the marker numbers can change when you add and erase markers.<br>● If places have been marked (e.g., with a DVD video recorder), they are displayed.<br>● You can clear existing markers, but they are restored when you open the disc tray or switch the unit to standby.<br>● This feature doesn't work while using a play list.  |
|  | <b>Note</b><br>● This feature doesn't work during program and random play.<br>● Markers you add clear when you open the disc tray or switch the unit to standby.  |



### Audio Menu

|  |                                      |
|--|--------------------------------------|
|  | <b>Advanced Surround</b> (→ page 15) |
|  | <b>Dialogue Enhancer</b> (→ page 15) |

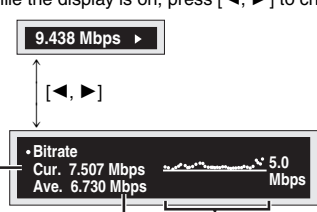


### Display Menu

|  |   |
|--|---|
|  | <b>4:3 Aspect</b><br>Select how to show images made for 4:3 aspect screens on a 16:9 aspect television.<br><b>Normal:</b> Laterally stretches images made for a 4:3 screen.<br><b>Auto:</b> Expands suitable 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen.<br><b>Shrink:</b> Images appear in the center of the screen.<br><b>Zoom:</b> Expands all images to fill the screen.<br>If your television has a similar feature, use it instead for a better effect. |
|  | <b>Zoom</b> (→ page 15)<br><b>To select preset aspect ratio</b><br>Press [ENTER] and then [◀, ▶] to select. Press [ENTER] to finish.  |



### Display Menu

|  |   |
|--|---|
|  | <b>Subtitle Position/Brightness</b> (→ page 14)   |
|  | <b>Bitrate Display on/off</b> <b>RAM</b> <b>DVD-V</b> <b>VCD</b><br>When you select "ON":<br>During play: Shows the average bitrate (approximate values) of the video being played<br>While paused: Shows the data volume of the frame and type of picture (→ back cover, Glossary—I/P/B)<br>While the display is on, press [◀, ▶] to change the display:<br> Current bitrate      Average bitrate      A record of bitrates for a sampling period. |
|  | <b>OSD Brightness</b> (−3 to +3)<br>Adjust the brightness of the on-screen displays.  |



### Picture Menu

|  |  |
|--|--|
|  | <b>Picture mode</b> (→ page 15, CINEMA)<br><b>N:</b> Normal mode<br><b>C1:</b> Mellows images and enhances detail in dark scenes<br><b>C2:</b> Sharpens images and enhances detail in dark scenes<br><b>U1/U2:</b> User mode (→ below)   |
|  | <b>Video output mode</b><br><b>480i:</b> Interlace video<br><b>480P:</b> Progressive video<br>(*: Progressive output not possible with PAL signals)<br>● You can change the video output mode only when "Progressive Out (Component)" in the SETUP menu is set to "Enable" (→ page 18).<br>● When progressive output is on, closed captions will not be displayed.                     |
|  | <b>Transfer mode</b><br>Select the method of conversion for progressive output to suit the type of material being played (→ Back cover, Glossary—Film and video).<br><b>Auto 1</b> (normal): For viewing film material<br><b>Auto 2:</b> For viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video)<br><b>Video:</b> For video material |

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

#### U1: User mode 1






|  |   |
|--|---|
|  | <b>Contrast</b> (−7 to +7)<br>Increases the contrast between light and dark parts of the picture. |
|  | <b>Brightness</b> (0 to +15)<br>Brightens the picture.  |
|  | <b>Sharpness</b> (−7 to +7)<br>Adjusts the sharpness of the edges of the horizontal lines.        |
|  | <b>Color</b> (−7 to +7)<br>Adjust the shade of the picture's color.                               |
|  | <b>Gamma</b> (0 to +5)<br>Brightness of dark parts of the picture.                                |

#### U2: User mode 2

(Video output mode → above)

# 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.)   |   |
|---|---|--|---|
|    | <b>Audio</b><br>Choose the audio language.  | <u>English</u> (Language options)<br>Original <sup>#1</sup> Other * * * * * <sup>#2</sup>  | <b>Language options</b><br><sup>#4</sup> French Spanish<br><sup>#5</sup> French German Italian Spanish<br>Portuguese Swedish Dutch<br><sup>#6</sup> Chinese |
|   | <b>Subtitle</b><br>Choose the subtitle language.  | <u>Automatic</u> <sup>#3</sup> English<br>(Language options) Other * * * * * <sup>#2</sup>   |   |
|   | <b>Menus</b><br>Choose the language for disc menus.   | <u>English</u> (Language options)<br>Other * * * * * <sup>#2</sup>   |   |
|   | <b>Ratings</b> (→ page 19)<br>• Set a ratings level to limit DVD-Video play.<br>• 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.<br>• Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them. | <b>Setting ratings (When level 8 is selected)</b><br><u>8 No Limit</u> 1 to 7 <sup>#7</sup> 0 Lock All<br><b>Changing ratings (When level 0–7 is selected)</b><br>Unlock Player Change Password<br>Change Level Temporary Unlock |   |
|    | <b>TV Aspect</b> (→ page 7)<br>Choose the setting to suit your television and preference.   | <u>4:3 Pan&amp;Scan</u> 4:3 Letterbox 16:9   |   |
|   | <b>Progressive Out (Component)</b><br>Choose "Enable" to enable progressive output.   | <u>Disable</u><br>Enable <sup>#4</sup> Enable (NTSC Disc Only) <sup>#5#6</sup>   |   |
|   | <b>Still Mode</b><br>Specify the type of picture shown when paused.   | <u>Automatic</u> Field Frame   |   |
|   | <b>Black Level Control</b> <sup>#4</sup><br>Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.  | <u>Lighter</u> : When connected through VIDEO OUT or S VIDEO OUT<br>Darker: When connected through COMPONENT VIDEO OUT (Y/P <sub>B</sub> /P <sub>R</sub> )   |   |
|   | <b>NTSC Disc Output</b> <sup>#5#6</sup><br>Choose PAL 60 or NTSC output when playing NTSC discs (→ page 6, Video systems).  | <u>PAL60</u> : When connected to a PAL television<br>NTSC: When connected to an NTSC television<br><b>(For Asia: "NTSC" is the factory preset.)</b>  |   |
|    | <b>PCM Down Conversion</b> (→ page 19)  | <u>No</u> Yes  |   |
|   | <b>Dolby Digital</b> (→ page 19)  | <u>Bitstream</u> PCM   |   |
|   | <b>DTS Digital Surround</b> (→ page 19)   | <u>PCM</u> Bitstream   |   |
|   | <b>MPEG</b> <sup>#5</sup> (→ page 19)   | <u>PCM</u> Bitstream   |   |
|   | <b>Dynamic Range Compression</b> (Dolby Digital only)<br>Change the dynamic range for late night viewing.   | <u>Off</u> On  |   |
|   | <b>Audio during Search</b><br>Choose whether to have sound during search.   | <u>On</u> Off  |   |
|  | <b>Menu Language</b><br>Choose the language for these menus and the on-screen messages.   | <sup>#4</sup> <u>English</u> Français Español<br><sup>#5</sup> <u>English</u> Français Deutsch Italiano<br>Español Português Svenska Nederlands<br><sup>#6</sup> <u>English</u> 中文   |   |
|   | <b>On-Screen Messages</b><br>Choose whether to show on-screen messages or not.  | <u>On</u> Off  |   |
|   | <b>FL Dimmer</b><br>Changes the brightness of the unit's display.   | <u>Bright</u><br>Dim<br>Auto: The display is dimmed during play, but brightness when you perform operations such as slow-motion, search, and pause.  |   |
|  | <b>Mixed Disc – Audio &amp; Stills</b> (DVD-S35 and DVD-S31A only)<br>Select the type of file played on discs containing both JPEG and WMA/MP3. (Reload the disc for the setting to be effective.)  | <u>Audio (MP3/WMA)</u> Stills (JPEG)   |   |
|   | <b>Demo</b>   | <u>Off</u><br>On: A demonstration of the on-screen displays starts. Press any button to stop it.   |   |
|   | <b>QUICK SETUP</b> (→ page 7)<br>Answer questions to make basic settings.   | Yes <u>No</u>  |   |

<sup>#1</sup> The original language of each disc is selected.

<sup>#2</sup> Input a code number with the numbered buttons (→ page 19).

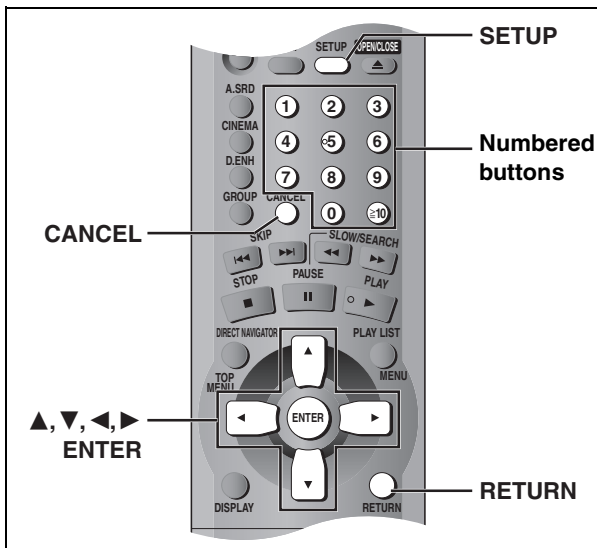
<sup>#3</sup> If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.

<sup>#4</sup> Units for U.S.A., Canada and with PX printed on the outer packaging

<sup>#5</sup> Units for the Middle East, South Africa, Russia, Australia and N.Z.

<sup>#6</sup> Units for Asia.

<sup>#7</sup> Prohibits play of DVD-Video with corresponding ratings recorded on them.



## Entering a password (Ratings)

### DVD-V

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

1. Input a 4-digit password with the numbered buttons.

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

2. Press [ENTER].

- The lock symbol appears closed to show the rating is locked.

- **Do not forget your password.**

3. 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-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.

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

**No** (Factory preset): Output as 96 kHz

**Yes:** Converted to 48 kHz

### Note

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

### 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.

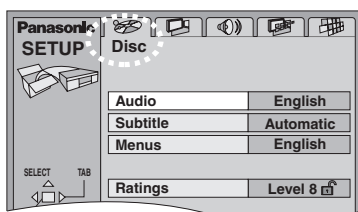
### IMPORTANT

**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.**

## 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: 8381        | Chinese: 9072      | Greenlandic: 7576 | Korean: 7579           | Norwegian: 7879      | Singhalese: 8373     | Turkmen: 8475    |
| Ameharic: 6577        | Corsican: 6779     | Guarani: 7178     | Kurdish: 7585          | Oriya: 7982          | Slovak: 8375         | Twì: 8487        |
| Arabic: 6582          | Croatian: 7282     | Gujarati: 7185    | Laotian: 7679          | Pashto, Pushto: 8083 | 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: 6983        | Uzbek: 8590      |
| Aymara: 6588          | Dutch: 7876        | Hindi: 7273       | Lithuanian: 7684       | Portuguese: 8084     | Sundanese: 8385      | Vietnamese: 8673 |
| Azerbaijani: 6590     | English: 6978      | Hungarian: 7285   | Lithuanian: 7684       | Punjabi: 8065        | Swahili: 8387        | Volapük: 8679    |
| Bashkir: 6665         | Esperanto: 6979    | Icelandic: 7383   | Macedonian: 7775       | Quechua: 8185        | Swedish: 8386        | Welsh: 6789      |
| Basque: 6985          | Estonian: 6984     | Indonesian: 7378  | Malagasy: 7771         | Rhaeto-Romance: 8277 | Tagalog: 8476        | Wolof: 8779      |
| Bengali, Bangla: 6678 | Faroeese: 7079     | Interlingua: 7365 | Malay: 7783            | Romanian: 8279       | Tajik: 8471          | Xhosa: 8872      |
| Bhutani: 6890         | Fiji: 7074         | Irish: 7165       | Malayalam: 7776        | Russian: 8285        | Tamil: 8465          | Yiddish: 7473    |
| Bihari: 6672          | Finnish: 7073      | Italian: 7384     | 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: 7168   | Thai: 8472           |                  |
| Burmese: 7789         | Galician: 7176     | Kannada: 7578     | Moldavian: 7779        | Serbian: 8382        | Tibetan: 6679        |                  |

# 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](mailto:consumerproducts@panasonic.com), or the website (<http://www.panasonic.com>).**

**In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website ([www.panasonic.ca](http://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"> <li>● Insert the AC power supply cord securely into the household AC outlet.</li> </ul>  | 5 |
| The unit is automatically switched to the standby mode. | <ul style="list-style-type: none"> <li>● The unit automatically switches to standby after approximately 30 minutes in the stop mode. Turn the power back to ON.</li> <li>● The SLEEP timer functioned.</li> </ul> | 9 |

## Operation

|  |  |                            |
|--|--|----------------------------|
| No response when buttons pressed.  | <ul style="list-style-type: none"> <li>● Some operations may be prohibited by the disc.</li> <li>● The unit may not be operating properly due to lightning, static electricity or some other external factor.</li> </ul> <p><b>Reset procedure:</b><br/>Press [POWER ⏻/⏻] to switch the unit to the standby mode and then back to ON.<br/>Alternatively, press [POWER ⏻/⏻] to switch the unit to the standby mode, disconnect the AC power supply cord, and then reconnect it.</p>   | –<br>–                     |
| No operations can be performed with the remote control.  | <ul style="list-style-type: none"> <li>● Check that the batteries are installed correctly.</li> <li>● The batteries are depleted: Replace them with new ones.</li> <li>● Point the remote control at the remote control sensor and operate.</li> </ul>   | 7<br>7<br>3                |
| Play doesn't start (or stops immediately) when you press [▶] (PLAY).   | <ul style="list-style-type: none"> <li>● Condensation has formed: Wait 1 to 2 hours for it to evaporate.</li> <li>● This unit cannot play discs other than the ones listed in these operating instructions.</li> <li>● You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.</li> <li>● The disc may be dirty and may require cleaning.</li> <li>● Ensure that the disc is installed with the label of the side to be played facing upwards.</li> <li>● Check that the DVD-RAM has something recorded on it.</li> </ul> | –<br>6<br>6<br>6<br>8<br>– |
| Cannot select alternative languages.   | <ul style="list-style-type: none"> <li>● This function depends on software availability.</li> <li>● Try selecting from the disc's menu if one is available.</li> </ul>   | –<br>8                     |
| No menu play.  | <ul style="list-style-type: none"> <li>● This function depends on software availability.</li> </ul>  | –                          |
| No subtitles.  | <ul style="list-style-type: none"> <li>● This function depends on software availability.</li> <li>● Subtitles are cleared from the television. Display the subtitles.</li> <li>● Subtitle position is wrong. Adjust the position.</li> </ul>   | –<br>14<br>14              |
| Soundtrack and/or subtitle language is not the one selected with the SETUP menus.                                  | <ul style="list-style-type: none"> <li>● This function depends on software availability.</li> </ul>  | –                          |
| Cannot change angle.   | <ul style="list-style-type: none"> <li>● 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.</li> </ul>   | –                          |
| You have forgotten your ratings password.<br>Reset all the settings to Factory Preset.                             | <ul style="list-style-type: none"> <li>● While stopped, press and hold [◀◀/▶▶] and [⏻] on the unit and then also press and hold [▲] on the television. Turn the unit off and on again.</li> </ul> <p>All settings will return to the default values.</p>   | –                          |
| The unit doesn't play the data type (WMA/MP3 or JPEG) selected in "Mixed Disc – Audio & Stills" in the SETUP menu. | <ul style="list-style-type: none"> <li>● Reload the disc for the setting to be effective. Press [▲] to open the tray, then press [▶] (PLAY) to start play.</li> </ul>  | –                          |

## Picture

|  |   |                             |
|--|---|-----------------------------|
| Picture distorted.   | <ul style="list-style-type: none"> <li>● Some distortion is normal during search.</li> </ul>  | –                           |
| Menu not displayed correctly.  | <ul style="list-style-type: none"> <li>● Restore the zoom ratio to × 1.00.</li> <li>● Set the subtitle position to 0.</li> <li>● Set "4:3 Aspect" to "Normal".</li> </ul>   | 15<br>14<br>17              |
| No picture.  | <ul style="list-style-type: none"> <li>● Check the connection.</li> <li>● Make sure the television is on.</li> <li>● Ensure the television's video input setting (e.g., VIDEO 1) is correct.</li> </ul>   | 4<br>–<br>–                 |
| 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"> <li>● Go to Video in the SETUP menus, and change "TV Aspect" to suit your television.</li> <li>● Use the television to change the aspect to the correct one.</li> <li>● If your television cannot change the aspect when input is progressive, try changing "4:3 Aspect" with the on-screen menu icons.</li> <li>● Turn off the zooming feature of your television if you are using Variable Zoom.</li> <li>● Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.</li> </ul> | 7, 18<br>–<br>17<br>15<br>4 |
| There is ghosting when progressive output is on.   | <ul style="list-style-type: none"> <li>● 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.</li> </ul>   | 17                          |
| Picture quality is poor.   | <ul style="list-style-type: none"> <li>● Check the settings in the On-Screen Menu Icons' Picture Menu.</li> </ul>   | 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"> <li>The unit and television are using different video systems.               <ul style="list-style-type: none"> <li>Units for the Middle East, South Africa, Russia, Australia and N.Z. Use a multi-system or PAL television.</li> <li>Units for other areas Use a multi-system or NTSC television.</li> </ul> </li> </ul> | –    |

## Sound

|   |  |                    |
|---|--|--------------------|
| No sound.                               | <ul style="list-style-type: none"> <li>Check the connections.</li> </ul>   | 4, 5               |
| Distorted sound.                        | <ul style="list-style-type: none"> <li>Check the volume on the equipment you have connected.</li> <li>Ensure that the input settings on the other equipment are correct.</li> <li>Turn Advanced Surround off if it causes distortion.</li> <li>Output from this unit will be in stereo (two channels) when Advanced Surround is on. Turn Advanced Surround off if you are using three or more speakers.</li> <li>Press [▶] (PLAY) to restore normal play after changing the speed.</li> <li>Noise may occur when playing WMA files.</li> </ul> | –<br>–<br>15<br>15 |
| Piercing noise comes from the speakers. | <ul style="list-style-type: none"> <li>If you have connected this unit to other equipment through the DIGITAL AUDIO OUT terminal, ensure you have selected the correct settings for "Dolby Digital", "DTS Digital Surround" and "MPEG" in the SETUP menus' Audio menu.               <ul style="list-style-type: none"> <li>*For the Middle East, South Africa, Russia, Australia and N.Z.</li> </ul> </li> </ul>  | 19                 |
| Effects do not work.                    | <ul style="list-style-type: none"> <li>Dialogue Enhancer and Advanced Surround do not work when the unit is outputting bitstream signals.</li> <li>Advanced Surround does not work if you have changed the play speed.</li> </ul>  | –<br>16            |

## Unit displays

|                                  |  |        |
|----------------------------------|--|--------|
| "NoPLAY"                         | <ul style="list-style-type: none"> <li>You inserted a disc the unit cannot play; insert one it can.</li> <li>You inserted a blank DVD-RAM.</li> </ul>  | 6<br>– |
| "CHECK DISC"                     | <ul style="list-style-type: none"> <li>Disc is dirty: Wipe it clean.</li> </ul>  | 6      |
| "H□□"<br>□□ stands for a number. | <ul style="list-style-type: none"> <li>Trouble may have occurred. The number following "H" depends on the status of the unit.</li> </ul> <p><b>Reset procedure:</b><br/>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"> <li>If the service numbers fail to clear, note the service number and contact a qualified service person.</li> </ul> | –<br>– |
| "NoDISC"                         | <ul style="list-style-type: none"> <li>You haven't inserted a disc: Insert one.</li> <li>You haven't inserted the disc correctly: Insert it correctly.</li> </ul>  | –<br>8 |

## Television displays

|   |  |          |
|---|--|----------|
| "Cannot display group xx, picture xx"                 | <ul style="list-style-type: none"> <li>You are trying to display incompatible pictures.</li> </ul>   | 11       |
| "The progressive out is set to "Disable""             | <ul style="list-style-type: none"> <li>Go to Video in the SETUP menus, and select "Enable" in "Progressive Out (Component)".</li> </ul>  | 18       |
| No on-screen display or only partially displayed.     | <ul style="list-style-type: none"> <li>Go to Display in the SETUP menus, and select "On" for "On-Screen Messages".</li> <li>Press [DISPLAY], and press [◀, ▶] to highlight the Bar Position icon, then press [▲, ▼] to adjust the position.</li> </ul> | 18<br>16 |
| The disc's menu is displayed in a different language. | <ul style="list-style-type: none"> <li>Go to Disc in the SETUP menus, and select the preferred language for "Menus".</li> </ul>  | 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 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

## Panasonic DVD Player 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 ("Limited 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 |
| Rechargeable Batteries<br>(in exchange for defective item) | Ten (10) Days | Not Applicable   |

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

### Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

**Panasonic Services Company**  
Customer Servicenter  
Suite B  
4900 George McVay Drive  
McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

**IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.**

### Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited 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 surge, lightning damage, modification, or commercial use (such as hotel, office, restaurant, or other business), rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

**THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

**ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

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

This Limited 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 Limited Warranty period, you may contact your dealer or Servicenter. 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.**

- 1. Damage requiring service**—The unit should be serviced by qualified service personnel if:
  - (a) The AC power supply cord or AC adaptor has been damaged; or
  - (b) Objects or liquids have gotten into the unit; or
  - (c) The unit has been exposed to rain; or
  - (d) The unit does not operate normally or exhibits a marked change in performance; or
  - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. 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.
- 4. Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

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](mailto:consumerproducts@panasonic.com), or the website (<http://www.panasonic.com>).

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website ([www.panasonic.ca](http://www.panasonic.ca)), or an authorized Servicentre closest to you.

In other areas, consult your dealer.



**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.

**Interlace and progressive output**

NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning t(s)-20.02 t(s)-20P7.3(. )9.5(u)4.(e)4.9(. )29.ee



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